

# ***UNIVERGE SV9300***

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## **Programming Manual**

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#### ***Appendix A CHARACTER CODE TABLE***

# ***INTRODUCTION***

## **PURPOSE**

This manual explains the feature programming and hardware requirements for each business, hotel, ISDN and OAI service in the SV9300.

**NOTE:** *As for the parts described as [9300V3 STEP2 software required] in this manual support 9300V3 STEP2 (SC-4351 LYRA BSC PROG-V3.2.0) software or later.*

## OUTLINE OF THIS MANUAL

This manual consists of five chapters and one appendix. The following paragraphs summarize Chapters 1 through 4, and Appendix A.

### CHAPTER 1 BUSINESS FEATURES

This chapter explains the programming procedure and hardware requirements for Business Features in this system.

### CHAPTER 2 HOTEL FEATURES

This chapter explains the system outline, system capacity, system specifications, system programming and hardware requirements for the Hotel System.

### CHAPTER 3 ISDN FEATURES

This chapter explains the programming procedure to provide the ISDN feature to the PBX.

### CHAPTER 4 OAI FEATURES

This chapter explains the programming procedure to provide OAI to the PBX.

### APPENDIX A CHARACTER CODE TABLE

This appendix contains the character code table to set a station name displayed on Multiline Terminal or Attendant Console.

**NOTE:** *As for the equipment name and function of chassis and circuit blades and system capacity, refer to the System Hardware Manual.*

## TERMS IN THIS MANUAL

### PBX System Designation

PBX system is usually designated as “PBX” or “system”.

When we must draw a clear line between the PBX systems, they are designated as follows.

SV9300 : UNIVERGE SV9300

SV8300 : UNIVERGE SV8300

2000 IPS : NEAX 2000 IPS INTERNET PROTOCOL SERVER

2400 IPX: 2400 IPX Internet Protocol eXchange

### Attendant Console Name

Attendant Console is usually designated as “Attendant Console”.

When the console type is limited by a service, it is designated as follows:

DESKCON: Desk Console (SN716 DESKCON)

### Paging Adapter Name

With the release of the new Paging Adapter model, the current model “PGD(2)-U10 ADP” is integrated to the new model “IP8WW-2PGDAD-A”. Therefore, as for the term of “PGD(2)-U10 ADP” or “PGD(2)-U10” described in this manual, please read them as “IP8WW-2PGDAD-A” or “Paging Adapter”.

### Terminal Name

The term of “DESI-less terminal” described in this manual is the same meaning as the “Self-Labeling terminal”.As for the following terminal names, please read “DESI-less” as “Self-Labeling”.

DT300/DT400/DT700/DT800 Series DESI-less: DT300/DT400/DT700/DT800 Series Self-Labeling

DT830 DESI-less: DT830 Self-Labeling

DT830DG DESI-less: DT830DG Self-Labeling

DT820 DESI-less: DT820 Self-Labeling

DT730 DESI-less: DT730 Self-Labeling

DT710 DESI-less: DT710 Self-Labeling

DT430 DESI-less: DT430 Self-Labeling

DT330 DESI-less: DT330 Self-Labeling

In this manual, the following terminals are usually designated as each common term unless other type of terminal is specified.

COMMON TERMS		TERMINAL NAMES				
Multiline Terminal	Digital Multiline Terminal	D <sup>term</sup>		D <sup>term</sup> 85 (Series i)		
		DT500 Series		DT510 DT530		
		DT400 Series		DT410 DT430		
		DT300 Series		DT310 DT330		
		IP Station	IP Multiline Terminal	IP Enabled Digital Multiline Terminal		D <sup>term</sup> 85 (Series i) (IP Adapter Type)
				D <sup>term</sup> IP INASET		
				D <sup>term</sup> IP		D <sup>term</sup> 85 (Series i) (IP Bundled Type)
	DT900 Series			DT920 Series	DT920 DT920 Self-Labeling	
				DT930 Series	DT930 DT930 Touch Panel	
	DT800 Series			DT820/820C DT830/DT830CG/DT830DG		
	DT700 Series		DT710 DT730/DT730CG/DT730DG DT750 DT770G			
	Soft Phone		D <sup>term</sup> SP30 SP350			
	SIP Wireless Terminal		MH240			
IP Single Line Telephone (SIP)	Standard SIP Terminal	GT890 (ST500 for GT890 is installed.)				
		ST500 (for iOS or for Android)				
		Third-party SIP Terminal				

**NOTE:** *DT770G (Cradle Phone) is normally used together with a smart device. The operation and the condition depend on the specifications of application on smart device.*



## REFERENCE MANUAL

During installation, also refer to the manuals below:

**System Hardware Manual:**

Contains the installation procedure for the PBX system and the hardware installation procedure for the SV9300.

**Command Manual:**

Contains the Customer Administration Terminal (CAT) operation, command functions and data required for programming the system.

**System Data Programming Manual:**

Contains the Customer Specifications Sheets and the System Data Programming Sheets.

**Programming Manual:**

Contains procedure for programming each business, hotel, ISDN and OAI feature.

**System Maintenance Manual:**

Contains the system maintenance service and the recommended troubleshooting procedure.

**Networking Manual:**

Contains the system description and the programming procedure for the CCIS, Q-SIG and Remote Unit System.

**SMDR/MCI/PMS Interface Specifications:**

Contains the interface specifications for Station Message Detail Recording (SMDR), Message Center Interface (MCI), Property Management System (PMS) and the PMS operation.

**PC Programming Manual:**

Contains the functional description and the installation procedure of PCPro.

**UM8000 Installation Manual:**

Contains the system description and the programming procedure for UM8000.

## HOW TO READ THIS MANUAL

Chapter 1 through Chapter 4 explains the feature programming for each service about the following items.

### PROGRAMMING

This section explains the programming procedure for each service.

The meanings of (1), (2) and marking are as follows.

(1) : 1st data

(2) : 2nd data

◀ : Default

With the system data clear command (CM00, CM01), the data with this marking is automatically set for each command.

**RESET** : A reset of the CPU blade is required after data setting.  
Press RESET switch on the CPU blade.

**BLADE RESET** : A reset of the blade by CME0 Y=3 is required after data setting.

**OFF LINE** : Commands with this marking can be used only under Off-Line mode of the CPU blade. To set Off-Line mode,  
(1) Set SENSE switch on the CPU blade to “E” or “F”.  
(2) Press RESET switch on the CPU blade.

## HARDWARE REQUIRED

In this section, required hardware for each service is listed, except the following:

Single line telephone set and interface blade (LC blade)

Central Office Trunk blade (COT blade)

Attendant Console and interface blade

For Direct Digital Interface, Message Center Interface (MCI), and Station Message Detail Recording (SMDR), the following sections explain the system for further details.

## SYSTEM OUTLINE

DTI\*

PLO\*

SYSTEM OPERATION\*\*

TIME SLOT ALLOCATION\*

DTI SPECIFICATIONS\*

PROGRAMMING SUMMARY\*\*\*

\* : Direct Digital Interface only

\*\* : MCI only

\*\*\*: SMDR only

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## PRECAUTIONS

### System Data Backup

#### **CAUTION**

- If you operate as follows without system data backup after system data setting or service memory setting (registration of the features such as “Call Forwarding” and “Speed Dialing” from a station), the data that has been set is invalid.

You must execute the system data backup before the following operations.

- Turning Off the system
- System Reset (reset of CPU blade)
- Changing the CPU blade to Off-Line Mode
- Changing the CPU blade to On-Line Mode after system data setting under Off-Line Mode

In addition, the VRS data backup is also required when any data is recorded or changed in the VRS.

- You can execute the system data backup by the following two ways.
  - Executing the system data backup once a day at the time set by CM43 Y=5>00  
(If no data is set, the default setting is 3:00 a.m.)  
As the system data backup is performed, the VRS data backup is also performed at the same time.
  - Executing the system data backup from PCPro/CAT by CMEC Y=6>0: 0
- Do not reset the CPU blade while “SYSD” LED on the CPU blade is flashing.

## ***BUSINESS FEATURES***

This chapter explains the programming procedure and hardware requirements for Business Features in this system. Explanations are given in alphabetical order of the feature names except the features on the next page.

The following features require no programming.

- Alarm Indications
- Attendant Console
  - Call Splitting
  - Serial Call
- Attendant Lockout
- Elapsed Call Timer
- Feature Activation from Secondary Extension
- Handsfree Answerback
- Handsfree Dialing and Monitoring
- Multiline Terminal
  - Called Station Status Display
  - Handsfree Unit
  - I-Hold/I-Use Indication
  - Microphone Control
  - Multiple Line Operation
- Night Service
  - Day/Night Mode Change by Attendant Console
- Non-exclusive Hold
- PC Programming
  - Battery Release Control
  - Configuration Report
- Power Failure Transfer
- Reserve Power
- Voice Mail Private Password

For the following features, refer to the SV9300 manuals mentioned below.

Refer to the System Manual:

- Automatic Program Download for IP Multiline Terminal
- Bandwidth Control
- Brute-force Login Attempt Protection
- Call Forwarding-Logout (IP Multiline Terminal)
- FAX over IP
- Modem over IP
- SIP
- SNMP
- Terminal Login via NAT
- VoIP Encryption

# ACCOUNT CODE

## PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify whether Service Set Tone should be sent after dialing the access code for Account Code entry.	(1) 362 (2) 0 : No Tone 1◀: Service Set Tone
CM12	Assign Service Restriction Class A for Account Code entry to the required stations.	• Y=02 (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Account Code in Service Restriction Class A assigned by CM12 Y=02.	• Y=030 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM42	Specify the maximum number of digits for Account Codes with CPU.  <b>NOTE:</b> <i>If the SMDR message format (2400 IMS Format) is assigned, the maximum number of digits is 10.</i>	(1) 10 (2) 01-16 : 1 digit-16 digits NONE◀: 10 digits
CM20	Assign an access code for Account Code entry.	• Y=0-3: Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A085
CM90	Assign an Account Code feature access key to a Multiline Terminal.	• Y=00 (1) My Line No. + <input type="text"/> + Key No. (2) F0085
END		

## HARDWARE REQUIRED

SMDR

# ADD-ON MODULE

## PROGRAMMING

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number for DLC blade. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=0</li> </ul> (1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No. (2) 10: DLC blade
CM10	Assign the Add-On Module number to a Physical Port number associated to the DLC blade.  <b>NOTE:</b> <i>The same number (the last two digits of the data) should not be used for both DSS Console (E100-E131) and Add-on Module (EC00-EC31).</i>  Assign the Add-On Module to be equipped with the DT700/DT800/DT900 Series through the LAN connection (Side Connection).	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No. (2) EC00-EC31: Add-On Module No. <b>NOTE</b>
CM98	Assign the Multiline Terminal which is associated with the Add-On Module.	<ul style="list-style-type: none"> <li>Y=01</li> </ul> (1) 0000-1499: Virtual Port No. (For IP terminal) (2) EC00-EC31: Add-On Module No.
CM12	Assign the Service Restriction Class for the accommodation of Single Line Telephone to Multiline Terminal. (Assignment for Single-Line Telephone only).	<ul style="list-style-type: none"> <li>Y=0</li> </ul> (1) 00-31: Last two digits of Add-On Module No. EC00-EC31 (2) X-XXXXXXXX: My Line No.
CM90	Assign the station and trunk numbers to the keys on each Add-On Module.  <b>NOTE:</b> <i>Single-Line, Virtual Line or My Line can be assigned on Add-On Module.</i>	<ul style="list-style-type: none"> <li>Y=05</li> </ul> (1) X-XXXXXXXX: Station No. (2) 0: Accommodated
CM90	Assign the station and trunk numbers to the keys on each Add-On Module.  <b>NOTE:</b> <i>Single-Line, Virtual Line or My Line can be assigned on Add-On Module.</i>	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. + <input type="text"/> + Add-On Module Key No. (30-54) (2) X-XXXXXXXX: Station No. <b>NOTE</b> DXXX XXX: 000-511 (Trunk No.)
A		



A	DESCRIPTION	DATA
CM90	Assign the Automatic/Manual/Dial Intercom key to each Add-On Module, if required. For details, refer to INTERCOM.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Add-On Module Key No. (30-54)</li> <li>(2) A000-A031, A100-A131: Automatic Intercom No. A200-A700, A201-A701...A224-A724: Manual Intercom No. B000-B900, B001-B901...B024-B924: Dial Intercom No.</li> </ul>
	Assign the Station Speed Dialing to the keys on each Add-On Module, if required. For details, refer to STATION SPEED DIALING.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Add-On Module Key No. (30-89)</li> <li>(2) F11XX XX: 00-99: Station Speed Dialing 00-99</li> </ul>
	Assign the Delayed Ringing feature to each line/trunk key on an Add-On Module, if required.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) My Line No. + [ ] + Add-On Module Key No. (30-45) <b>NOTE</b></li> <li>(2) 0: Delayed Ringing</li> </ul>
	<b>NOTE:</b> <i>Delayed Ringing can be assigned to the first 16 line/trunk keys (Key No. 30-45).</i>	
CM41	Specify the Delayed Ringing timing.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) 09</li> <li>(2) 01-20: 2048-40960 ms. (2048 ms. increments)</li> </ul> <p>If no data is set, the default setting is 10240 ms.</p>
CM30	Provide Trunk-Direct Appearances to the trunk number.	<ul style="list-style-type: none"> <li>• Y=18</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 0: To provide</li> </ul>
<u>END</u>		

## HARDWARE REQUIRED

DSS Console  
DLC blade

# ALPHANUMERIC DISPLAY

## PROGRAMMING

To specify the Type of Clock/Calendar Display on Multiline Terminal, do the following programming.

- When specifying the Type of Clock/Calendar Display for each system:

START	DESCRIPTION	DATA
CM08	Specify the Type of Clock/Calendar Display on Multiline Terminal.	(1) 2001 (2) 00 : DD MMM WWW hh: mmAP 01 : hh: mmAP MMM DD WWW 02 : hh: mmAP WWW DD MMM 03 : MM-DD WWW hh: mmAP 04 : hh: mmAP WWW DD MMM YYYY 10 : DD MMM WWW HH: mm 11 : HH: mm MMM DD WWW 12 : HH: mm WWW DD MMM 13 : MM-DD WWW HH: mm 14 : HH: mm WWW DD MMM YYYY NONE◀: As per Display Language

**NOTE 1:** The meanings of 2nd data are shown below.

YYYY : Year

MMM : Month (Displayed in 3 alphabetical characters according to the display language (such as Jan and Feb for English)).

\*When the display language is represented by Japanese/Simplified Chinese/Traditional Chinese characters, this data is displayed in English.

MM : Month (Displayed in numeric characters) [01-12]

DD : Date [01-31]

WWW : Day (Displayed in 3 alphabetical characters according to the display language (such as Sun and Mon for English)).

\*When the display language is represented by Japanese/Simplified Chinese/Traditional Chinese characters, this data is displayed in English.

HH : Hour (24-hour clock) [00-23]

hh : Hour (12-hour clock) [00-11]

mm : Minute [00-59]

AP : AM/PM

**NOTE 2:** After setting/changing this data, the assigned data is applied to each Multiline terminal by resetting the terminal manually or executing CM12 Y=29.

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A	DESCRIPTION	DATA
CM12	Apply the LCD display setting to each multi-line terminal in the system.	<ul style="list-style-type: none"><li>• Y=29</li><li>(1) X-XXXXXXXX: Station No.</li><li>(2) 0: To execute</li></ul>
<u>END</u>	<b>NOTE:</b> <i>When this data is set to 0 (To execute) after changing any system data relating to the LCD display of Multiline Terminal, the changes are applied to the Multiline Terminal. After the data is applied, this data returns to 1 (Not executed).</i>	

- When specifying the Type of Clock/Calendar Display for each station:

START

DESCRIPTION

DATA

CM12

Specify the Type of Clock/Calendar Display on Multiline Terminal.

- Y=58
- (1) X-XXXXXXXX: Station No.
- (2) 00 : DD MMM WWW hh: mmAP
- 01 : hh: mmAP MMM DD WWW
- 02 : hh: mmAP WWW DD MMM
- 03 : MM-DD WWW hh: mmAP
- 04 : hh: mmAP WWW DD MMM  
YYYY
- 10 : DD MMM WWW HH: mm
- 11 : HH: mm MMM DD WWW
- 12 : HH: mm WWW DD MMM
- 13 : MM-DD WWW HH: mm
- 14 : HH: mm WWW DD MMM  
YYYY
- 29 : Not displayed  
**[9300V7 software required]**
- 30 : As per Display Language
- NONE◀: As per CM08>2001

**NOTE 1:** The meanings of 2nd data are shown below.

YYYY : Year

MMM : Month (Displayed in 3 alphabetical characters according to the display language (such as Jan and Feb for English)).

\*When the display language is represented by Japanese/Simplified Chinese/Traditional Chinese characters, this data is displayed in English.

MM : Month (Displayed in numeric characters) [01-12]

DD : Date [01-31]

WWW : Day (Displayed in 3 alphabetical characters according to the display language (such as Sun and Mon for English)).

\*When the display language is represented by Japanese/Simplified Chinese/Traditional Chinese characters, this data is displayed in English.

HH : Hour (24-hour clock) [00-23]

hh : Hour (12-hour clock) [00-11]

mm : Minute [00-59]

AP : AM/PM

**NOTE 2:** After setting/changing this data, the assigned data is applied to each Multiline terminal by resetting the terminal manually or executing CM12 Y=29.

**NOTE 3:** When using DT900 Series with Portal Mode and the duplicated information on the LCD (the calendar display on the information area) is not necessary, set the second data 29.

END

## ANALOG PORT ADAPTER (APR-L Adapter)

### PROGRAMMING

**NOTE:** This feature is available for DT300/DT400/DT500 Series.

To assign the Single Port Mode:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CM13</div>	Provide the Analog Port Adapter connection to the required stations.	<ul style="list-style-type: none"> <li>• Y=32</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 0: To connect</li> </ul>
	Assign the Single Port Mode to the required stations.	<ul style="list-style-type: none"> <li>• Y=33</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 1◀: Single port mode</li> </ul>
	Specify whether a ringing signal is sent to the analog terminal.	<ul style="list-style-type: none"> <li>• Y=35</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 0 : Not sent</li> <li>1◀: To send</li> </ul>
END	<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px;">BLADE RESET</div>	

To assign the Dual Port Mode:

(1) Data Assignment for Digital Multiline Terminal accommodates the Analog Port Adapter

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CM13</div>	Provide the Analog Port Adapter connection to the required stations.	<ul style="list-style-type: none"> <li>• Y=32</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 0: To connect</li> </ul>
	Assign the Dual Port Mode to the required stations.	<ul style="list-style-type: none"> <li>• Y=33</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 0: Dual port mode</li> </ul>
END	<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px;">BLADE RESET</div>	

(2) Data Assignment for Analog Terminal connected to the Analog Port Adapter

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM10</div>	<p>Assign an analog terminal station number to the required Physical Port number.</p> <p><b>NOTE 1:</b> For detail of Dual Port Mode, refer to “Setting Method of Port number/ Station number in Dual port mode” in CM10 of the Command Manual.</p> <p><b>NOTE 2:</b> The Physical Port number corresponds to the station that is accommodating the APR-L adapter (Example: Station Port No. 010101/ APR-L Port No. 010117, Station Port No. 010102/APR-L Port No. 010118).</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No.                      XX: 01-50: Unit No.                      YY: 01-18: Slot No.                      ZZ : 17-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Analog Terminal Station No.</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM90</div>	<p>Assign a key for analog terminal.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) Analog Terminal Station No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) X-XXXXXXXXXX: Analog Terminal Station No. assigned by CM10 Y=00</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM93</div>	<p>Assign an analog terminal station number as Prime Line.</p>	<ul style="list-style-type: none"> <li>(1) X-XXXXXXXXX: Analog Terminal Station No.</li> <li>(2) X-XXXXXXXXX: Analog Terminal Station No.</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM13</div>	<p>Provide the Analog Port Adapter connection to the required stations.</p> <p>Specify whether a ringing signal is sent to the analog terminal.</p>	<ul style="list-style-type: none"> <li>• Y=32</li> <li>(1) X-XXXXXXXXX: Analog Terminal Station No.</li> <li>(2) 0: To connect</li> <li>• Y=35</li> <li>(1) X-XXXXXXXXX: My Line No.</li> <li>(2) 0 : Not sent                      1◀: To send</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

**HARDWARE REQUIRED**

Analog Port Adapter

# ANNOUNCEMENT SERVICE

## PROGRAMMING

To access the Voice Response System (VRS) from a station or C.O./Tie Line party:

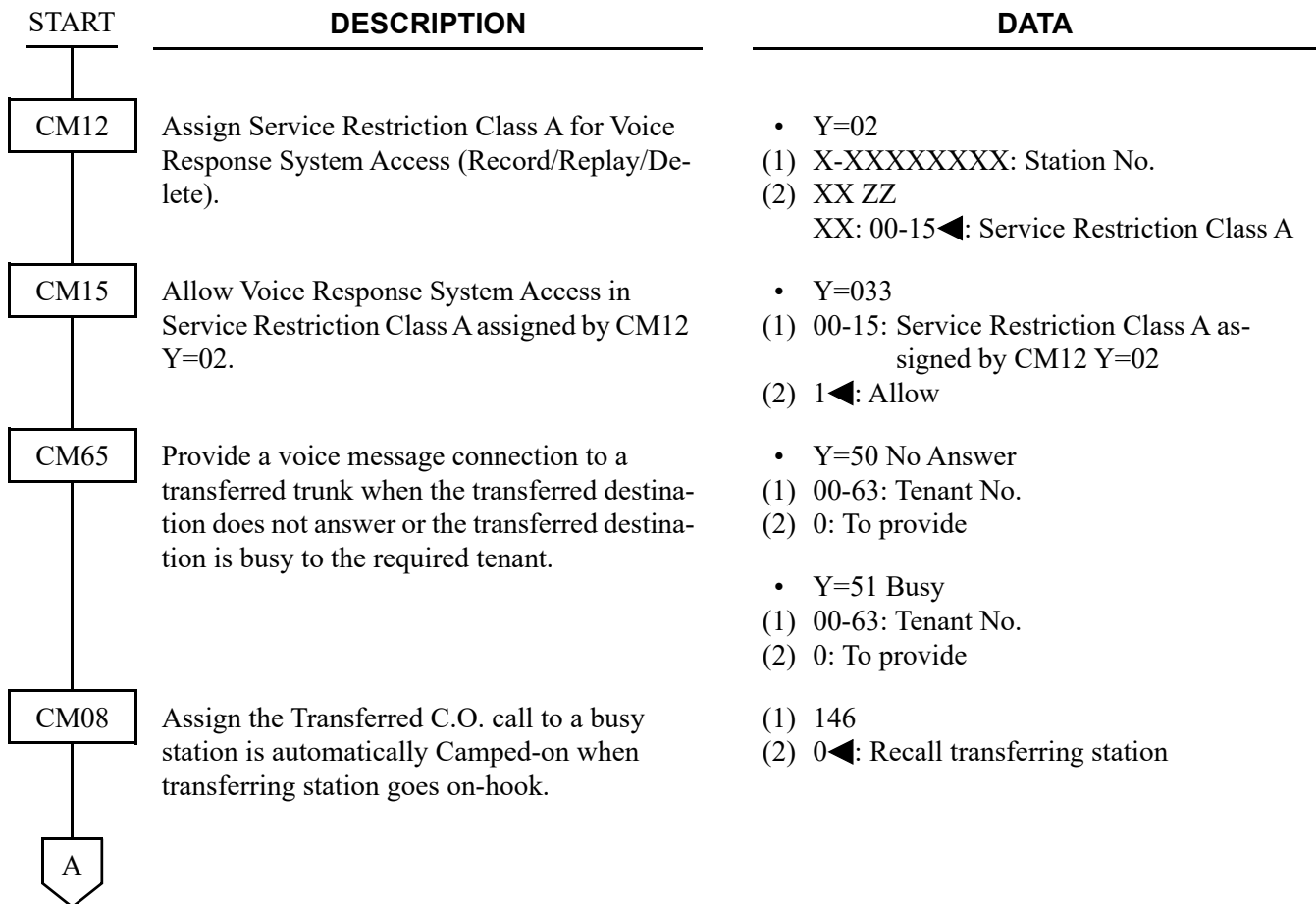
START	DESCRIPTION	DATA
CM08	Provide the multiple connections of the Voice Response System (VRS) on Announcement Service.	(1) 124 (2) 0: Available
CM12	Assign Service Restriction Class A for Announcement Service to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> (1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Announcement Service in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=034 Announcement Service Group 0 (Replay)</li> <li>• Y=035 Announcement Service Group 1 (Replay)</li> <li>• Y=036 Announcement Service Group 2 (Replay)</li> <li>• Y=037 Announcement Service Group 3 (Replay)</li> <li>• Y=038 Announcement Service Group 4 (Replay)</li> <li>• Y=039 Announcement Service Group 0-4 (Record)</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
A		



A	DESCRIPTION	DATA
CM20	Assign access codes for Announcement Service.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A103: Announcement Service Group 0-4 (Record)</li> <li>A104: Announcement Service Group 0 (Replay)</li> <li>A105: Announcement Service Group 1 (Replay)</li> <li>A106: Announcement Service Group 2 (Replay)</li> <li>A107: Announcement Service Group 3 (Replay)</li> <li>A108: Announcement Service Group 4 (Replay)</li> <li>A109: Announcement Service Group 0-4 (Delete)</li> </ul>
CM41	When Multiple Connections are provided (CM08>124=0), specify the duration of message replay timer for the Announcement Service.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 53</li> <li>(2) 01-99: 4-396 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 60-64 seconds.</p>
CM49	Assign the function for each Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 04X Z</li> <li>X: 0-4: Announcement Service Group No.</li> <li>Z: 0-9: Announcement Service Message No.</li> </ul>
CM35	To allow a C.O./Tie Line party with this service, assign the Announcement Service Group 0-4 to the required trunk routes.	<ul style="list-style-type: none"> <li>• Y=069 Announcement Service Group 0</li> <li>• Y=070 Announcement Service Group 1</li> <li>• Y=071 Announcement Service Group 2</li> <li>• Y=072 Announcement Service Group 3</li> <li>• Y=073 Announcement Service Group 4</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Allow</li> </ul>
<u>END</u>		

- NOTE 1:** A maximum of five different announcements can be accessed. There is a limit of 8/16 Voice Response System Circuit for each of the five different announcements. When recording an announcement, each Voice Response System Circuit must be recorded individually.
- NOTE 2:** Each time a station is connected to a Voice Response System Circuit, the message will be repeated three times. The station will then be disconnected.
- NOTE 3:** For the single connection of a Voice Response System Circuit, the duration of an announcement is limited to 120 seconds.
- NOTE 4:** For the multi-connection of a Voice Response System Circuit, the duration of replay for an announcement is programmable from 4 to 396 seconds.

To provide a voice message when an incoming C.O. line/Tie line call has been transferred and encounters a busy or no answer condition:



A	DESCRIPTION	DATA
CM49	Assign the function for each Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 06XX: No Answer XX : 00-63: Message No. 07XX: Busy XX : 00-63: Message No.</li> <li>• Y=06 No Answer</li> <li>• Y=07 Busy</li> <li>(1) XX: 00-63: Tenant No. of transferring station</li> <li>(2) XX: 00-63: Message No. assigned by CM49 Y=00</li> </ul>
CM20	To record, replay and delete a message, assign the respective Voice Response System access code.	<ul style="list-style-type: none"> <li>• Y=0-3 Number Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A100: Record A101: Replay A102: Delete</li> </ul>
CM04	Assign the Maximum number of channels for Speech synthesis and Voice Response System.	<ul style="list-style-type: none"> <li>• Y=10</li> <li>(1) 05</li> <li>(2) 00-08 : Maximum number of channels for Speech synthesis NONE◀: 8 channels</li> </ul>
<u>END</u>		

**NOTE:** *Announcement Service can be used to provide a voice message when an incoming C.O. line/Tie line call has been transferred and encounters a busy or no answer condition. After the voice message is given, normal call processing continues.*

- *This application can be programmed on a tenant basis.*
- *Only one (1) message within 120 seconds can be recorded on an individual Voice Response System Circuit.*
- *In this application, a minimum of two Voice Response System Circuits are needed: one is for busy condition and the other is for no answer.*
- *More than one Voice Response System Circuit can be used, depending on traffic conditions.*
- *System programming can be set to, wait until circuits become free or immediately follow pre-programmed normal call handling, if a busy condition is encountered.*
- *Voice Response System Circuits can be shared among tenants.*
- *This feature does not function on Attendant transferred calls.*

To provide a voice message when an incoming DID line/Tie line call has been terminated to a station and encounters a busy or no answer condition:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Voice Response System Access (Record/Replay/Delete).	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Voice Response System Access in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=033</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM41	Specify the transferred timing when an incoming DID Line/Tie Line call encounters a no answer condition.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 01</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
A		

A	DESCRIPTION	DATA
CM49	Assign the function for each Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 0D00: No Answer 0E00: Busy</li> </ul>
CM51	Assign the Voice Response System as the destination of the DID call on each tenant.	<ul style="list-style-type: none"> <li>• Y=00 No Answer</li> <li>• Y=03 Busy</li> <li>(1) 00-63: Tenant No.</li> <li>(2) EB000-EB015: Voice Response System No.</li> </ul>
	Assign the Voice Response System as the destination of the Tie Line call on each tenant.	<ul style="list-style-type: none"> <li>• Y=01 No Answer</li> <li>• Y=04 Busy</li> <li>(1) 00-63: Tenant No.</li> <li>(2) EB000-EB015: Voice Response System No.</li> </ul>
CM20	To record, replay and delete a message, assign the respective Voice Response System access code.	<ul style="list-style-type: none"> <li>• Y=0-3 Number Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A100: Record A101: Replay A102: Delete</li> </ul>
<u>END</u>		

**NOTE:** *Announcement Service can be used to provide a voice message when an incoming DID line/Tie line call has been terminated to a station and encounters a busy or no answer condition. After the voice message is given, normal call processing continues.*

- *This application can be programmed on a tenant basis.*
- *Only one (1) message within 120 seconds can be recorded on an individual Voice Response System Circuit.*

To provide an Internal Recorded Message from a Voice Response System (VRS) in place of Music On Hold:

START	DESCRIPTION	DATA
CM48	Define the type of call to be provided with Hold Message.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00: C.O. Line Call</li> <li>    01: Tie Line Call</li> <li>    02: Station</li> <li>(2) 0500: Hold Message</li> </ul>
CM49	Assign the data for Message on Hold Service to the Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 05XX: Message on Hold</li> <li>    XX: 00-63: Message No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 00-63: Message No. assigned by CM49</li> <li>    Y=00</li> </ul>
CM41	Specify the Message on Hold Service with VRS guard timer.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 164</li> <li>(2) 01-12: 10-120 minutes</li> <li>    (10 minutes increment)</li> </ul> <p>If no data is set, the default setting is 30 minutes.</p>
CM20	To record, replay, or delete a message, assign the respective Voice Response System access code.	<ul style="list-style-type: none"> <li>• Y=0-3 Number Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A100: Record</li> <li>    A101: Replay</li> <li>    A102: Delete</li> </ul>
END		

- NOTE:** *A voice message in place of Music-On-Hold can be provided when a call has been placed on hold.*
- *Different messages can be programmed on a tenant basis.*
  - *Different messages can be programmed, depending on the type of line (C.O. line, Tie line or station) on Hold.*
  - *More than one connection can be made to a Voice Response System Circuit. Only the first connection can be assured of hearing the message from the beginning.*
  - *Announcement will be repeated until the call is removed from hold.*

To provide the Night Announcement by Voice Response System (VRS):

START	DESCRIPTION	DATA
CM30	Assign the terminating system in Night Mode for incoming C.O. calls.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 04: Direct-In Termination</li> </ul>
	Assign the Voice Response System number to each incoming trunk.	<ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) 000-511: Trunk No.</li> <li>(2) EB000-EB015: Voice Response System No.</li> </ul>
CM49	Assign the function of the Voice Response System to Night Announcement.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 03000: Night Announcement Service</li> </ul>
CM20	To record, replay, or delete a message, assign the respective Voice Response System access code.	<ul style="list-style-type: none"> <li>• Y=0-3 (Numbering Plan Group 0-3)</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A100: Record A101: Replay A102: Delete</li> </ul>
END		

- NOTE:** *A voice message can be sent to incoming C.O. lines during Night Mode.*
- *Different messages can be programmed on each C.O. line.*
  - *The voice message can be programmed for Day/Night Mode.*
  - *More than one connection can be made to a Voice Response System Circuit. Only the first connection can be assured of hearing the message from the beginning.*
  - *Announcements may be programmed to be repeated from 4 to 120 seconds in four-second increments.*

## HARDWARE REQUIRED

CPU blade (VRS using a built-in Flash ROM)

## ANSWER KEY

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B for Answer Key to the required Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	Allow Answer Key in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=072</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>
END		

**NOTE:** *An ANSWER key is initially assigned on each Multiline Terminal.*

### HARDWARE REQUIRED

Multiline Terminal and DLC blade



# ATTENDANT ASSISTED CALLING

## PROGRAMMING

START	DESCRIPTION	DATA
CM20	Assign the Access code for an operator call.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (0) (2) 800: Operator call
CM60	Allocate the ATT Group number to each DESKCON.  <b>NOTE:</b> A reset by CM60 Y=90>0: 0 is required after this data setting.  Assign the Master DESKCON within the ATT Group.  <b>NOTE 1:</b> Assign one Master DESKCON for each ATT Group.  <b>NOTE 2:</b> Even if an ATT Group consists of only one DESKCON, specify the DESKCON as a Master DESKCON.  <b>NOTE 3:</b> A reset by CM60 Y=90>0: 0 is required after this data setting.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) 0-7: DESKCON No. assigned by CM10 (2) 0-3 : ATT Group No. NONE◀: No data  <ul style="list-style-type: none"> <li>Y=01</li> </ul> (1) 0-7: DESKCON No. assigned by CM10 (2) 0 : Master ATT 1◀: Not Master ATT
CM62	Specify the tenants to be handled by each ATT Group.  <b>NOTE:</b> A reset by CM60 Y=90>0: 0 is required after this data setting.	<ul style="list-style-type: none"> <li>Y=0-3 ATT Group No. 0-3 assigned by CM60 Y=00</li> </ul> (1) 00-63: Tenant No. (2) 0: To be handled
CM08	Specify the Attendant access (DESKCON No. 0) capability provided from the stations belonging to a tenant with no Attendant Console.  Provide the system with Passing Dial Tone.	(1) 142 (2) 0 : Allowed 1◀: Restricted  (1) 048 (2) 1◀: Available
A		

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A	DESCRIPTION	DATA
CM08	Provide the system with Attendant Night Transfer, if required.	(1) 018 (2) 0 : Not available 1◀: Available
	Specify the Individual Attendant access capability provided from a station belonging to a different tenant.	(1) 143 (2) 0 : Restricted 1◀: Allowed
<u>END</u>		

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## ATTENDANT CAMP-ON

### PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify Attendant Camp-On as a type of Camp-On to activate from the Attendant Console.	(1) 542 (2) 1◀: Attendant Camp-On
	Specify the Camp-On Tone sent to busy station	(1) 068 (2) 0 : Send out only once 1◀: Repeat at 4 second intervals
CM41	Specify the Attendant Recall timing of Camp-On.	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> (1) 00 (2) 01-14: 2.4-33.6 seconds (2.4 second increments) 15-24: 38.4-124.8 seconds (9.6 second increments) If no data is set, the default setting is 31.2-33.6 seconds.
END		

To display the busy station number and name on an Attendant Console when reentering a Camped-On trunk by pressing the loop key:

START	DESCRIPTION	DATA
CM08	Provide the Attendant Console with the busy station number/name display when reentering a Camped-On trunk.	(1) 441 (2) 0: Available
END		

# ATTENDANT CONSOLE

## SN716 DESKCON

### PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM04</div>	<p>Display Language for DESKCON LCD.</p> <p><b>NOTE 1:</b> <i>Russian (2nd data=15) and Turkish (2nd data=16) cannot be displayed on DESKCON LCD.</i></p> <p><b>NOTE 2:</b> <i>After setting/changing this data, the assigned data is reflected to each Multiline terminal by resetting the terminal or executing CM12 Y=29.</i></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 00</li> <li>(2) 00 : Japanese</li> <li>01 : English</li> <li>02 : French (Canadian French)</li> <li>03 : Spanish (Latin Spanish)</li> <li>04 : Portuguese (Brazilian Portuguese)</li> <li>05 : German</li> <li>06 : Italian</li> <li>07 : Netherlandish</li> <li>08 : French (Europe)</li> <li>09 : Spanish (Europe)</li> <li>10 : Portuguese (Europe)</li> <li>11 : Swedish</li> <li>12 : Danish</li> <li>13 : Catalan</li> <li>31◀: English</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		

A	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number for DLC blade. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> (1) XX ZZ XX: 01: Unit No. ZZ : 01-18: Slot No. (2) 10: DLC blade
	<b>NOTE 1:</b> <i>DESKCON can only be accommodated to Unit01.</i>	
	<b>NOTE 2:</b> <i>Maximum 2 of DESKCON can be accommodated to each DLC blade.</i>	
	<b>NOTE 3:</b> <i>This data assignment is not required when DESKCON is added on to existing DLC blade.</i>	
	<b>NOTE 4:</b> <i>The firmware of DLC blade must be version 2.3 or later.</i>	
CM10	Assign the DESKCON number to its associated Physical Port number. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) XX YY ZZ: Physical Port No. XX: 01: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No. (2) E000-E007: DESKCON No.
	<b>NOTE 1:</b> <i>Blade reset is required when DESKCON is added on to existing DLC blade.</i>	
	<b>NOTE 2:</b> <i>DESKCON cannot be added on to DLC blade when PGD(2)-U10 ADP is accommodated to existing DLC blade.</i>	
CM30	Set the terminating system for the incoming calls to DESKCON.	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> </ul> (1) 000-511: Trunk No. (2) 14: Attendant Console
CM41	Set the D11 data receiving time after PSW (For DLC) to 06 (6 ms.). <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> (1) 142 (2) 06: 6 ms. If no data is set, the default setting is 3 ms.
B		

B

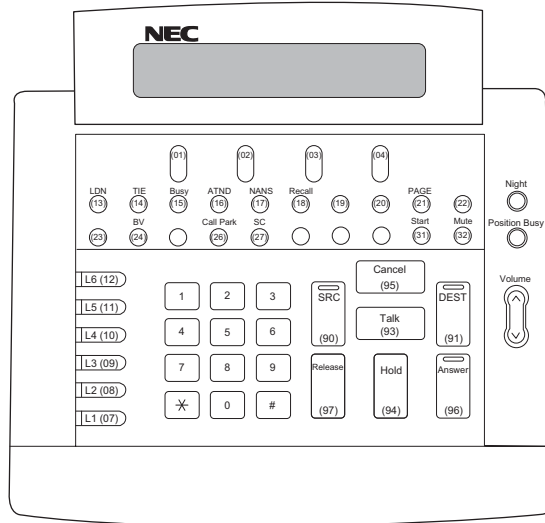
CM90

**DESCRIPTION**

**DATA**

Assign the required Attendant Call Selection keys and Function keys to each DESKCON, according to the key label. To assign Multi-Function Key, refer to MULTI-FUNCTION KEY. [Page 1-53](#)

- Y=00
- (1) DESKCON No. (E000-E007) +   + Key No.
- (2) F6000-F6068: Type of Calls to be assigned  
F6100-F6245: Functions to be assigned



Key No.	Data	Description (Key Label)
13	F6000	C.O. Incoming 0 (LDN)
14	F6040	Tie Line Incoming 0 (TIE)
15	F6064	Call Forwarding-Busy Line (Busy)
16	F6060	Operator Call (ATND)
17	F6063	Call Forwarding-No Answer (NANS)
18	F6061	Recall (Recall)
21	F6150	Paging (PAGE)
24	F6107	Busy Verification (BV)
90	F6200	Source (SRC)
91	F6201	Destination (DEST)
93	F6203	Talk (Talk)
94	F6204	Hold (Hold)
95	F6202	Cancel (Cancel)
96	F6252	Answer (Answer)
97	F6253	Release (Release)

**NOTE:** When the DESKCON is used to set hotel features, the Reset key should be assigned to one of the feature keys (i.e key 21) in the Idle state mode.

C

C	DESCRIPTION	DATA
CM60	Assign the ATT Group number to each DESKCON.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 0-7: DESKCON No.</li> <li>(2) 0-3 : ATT GROUP 0-3</li> <li>NONE◀: No data</li> </ul>
	<b>NOTE:</b> <i>A reset by CM60 Y=90&gt;0: 0 is required after this data setting.</i>	
	Specify the Master DESKCON within the ATT Group assigned by CM60 Y=00.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 0-7: DESKCON No.</li> <li>(2) 0 : Master ATT</li> <li>1◀: Not Master ATT</li> </ul>
	<b>NOTE 1:</b> <i>Assign one Master DESKCON for each ATT Group.</i>	
	<b>NOTE 2:</b> <i>Even if an ATT Group consists of only one DESKCON, specify the DESKCON as a Master DESKCON.</i>	
	<b>NOTE 3:</b> <i>A reset by CM60 Y=90&gt;0: 0 is required after this data setting.</i>	
	When the Master DESKCON is specified by CM60 Y=01, make the NT Switch effective by the Day/Night Mode Change key.	<ul style="list-style-type: none"> <li>• Y=06</li> <li>(1) 0-7: DESKCON No.</li> <li>(2) 0: Effective</li> </ul>
	<b>NOTE:</b> <i>A reset by CM60 Y=90&gt;0: 0 is required after this data setting.</i>	
Assign the password for DESKCON Lockout.	<ul style="list-style-type: none"> <li>• Y=30</li> <li>(1) 0</li> <li>(2) X-X...X: Password (Maximum 8 digits)</li> <li>X : 0-9, A (*), B (#)</li> </ul>	
<b>NOTE:</b> <i>A reset by CM60 Y=90&gt;0: 0 is required after this data setting.</i>	If no data is set, the default setting is NONE. In this case, the password is set to “12345678”.	
When providing 2nd Ringing feature on the DESKCON, make Off-Hook Ringing effective.	<ul style="list-style-type: none"> <li>• Y=16</li> <li>(1) 0-7: DESKCON No.</li> <li>(2) 0: Effective</li> </ul>	
<b>NOTE:</b> <i>A reset by CM60 Y=90&gt;0: 0 is required after this data setting.</i>		
D		

D	DESCRIPTION	DATA
CM60	<p>Allow or restrict the system to keep the volume level changed by the volume button on DESKCON, after the call is finished.</p> <p><b>NOTE:</b> <i>A reset by CM60 Y=90&gt;0: 0 is required after this data setting.</i></p>	<ul style="list-style-type: none"> <li>• Y=23</li> <li>(1) 0-7: DESKCON No.</li> <li>(2) 0 : Allow 1◀: Restricted</li> </ul>
CM62	<p>Specify the tenants to be handled by each ATT Group.</p> <p><b>NOTE:</b> <i>A reset by CM60 Y=90&gt;0: 0 is required after this data setting.</i></p>	<ul style="list-style-type: none"> <li>• Y=0-3</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : To handle 1◀: Not handled</li> </ul>
CM60	<p>Assign the tenant number for DESKCON.</p>	<ul style="list-style-type: none"> <li>• Y=35</li> <li>(1) 0-7: DESKCON No.</li> <li>(2) 00-63 : Tenant No. NONE◀: No data</li> </ul>
CM08	<p>Specify the tenant number for calling from DESKCON.</p> <p><b>NOTE:</b> <i>If tenant No. for DESKCON (assigned by CM60 Y=35) is not assigned, tenant No. for calling from DESKCON is set to the lowest tenant No. of station tenants for each ATT group (assigned by CM62) when this data is set to "0".</i></p>	<ul style="list-style-type: none"> <li>(1) 1008</li> <li>(2) 0 : Tenant No. for each DESKCON (assigned by CM60 Y=35) 1◀: The lowest tenant No. of station tenants for each ATT group (assigned by CM62)</li> </ul>
E		



E	DESCRIPTION	DATA
CME0	<p>Execute the blade reset for all slots of the Unit accommodated the DLC blade.</p> <p><b>NOTE 1:</b> <i>Set the same Unit No. and Slot No. assigned by the first data.</i></p> <p><b>NOTE 2:</b> <i>“00000000-FFFFFFFF” is displayed as the second data when this command is executed. You can confirm the port status of the blade which is accommodated to the specified slot by this data display. 00000000: All ports are not in use Other than 00000000: Ports in use are included.</i></p> <p><b>NOTE 3:</b> <i>For the blade reset while the system is operating, be sure to check the port status. The blade reset must be executed when all ports are not in use.</i></p>	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) XX YY XX: 01-50: Unit No. YY: 01-18: Slot No.</li> <li>(2) XX YY XX: 01-50: Unit No. YY: 01-18: Slot No.</li> </ul>
<u>END</u>		

## Ringling Pattern/Tone Ringer for DESKCON

START	DESCRIPTION	DATA
CM60	Select the ringing signal patterns of DESKCON.  Tone Ringer for DESKCON	<ul style="list-style-type: none"> <li>• Y=36</li> <li>(1) 0-7: DESKCON No.</li> <li>(2) 0 : 0.5 seconds ON-0.5 seconds OFF</li> <li>1 : 1 second ON-1 second OFF</li> <li>2 : 2 seconds ON-4 seconds OFF</li> <li>3◀: 1 second ON-2 seconds OFF</li> </ul> <ul style="list-style-type: none"> <li>• Y=27</li> <li>(1) 0-7: DESKCON No.</li> <li>(2) 0 : 600 + 700×16 (Hz)</li> <li>1 : 480 + 606×8 (Hz)</li> <li>2 : 1024 + 1285×16 (Hz)</li> <li>3◀: 480 + 606×16 (Hz)</li> </ul>
END		

## DESKCON Soft Reset

Execute the following command after setting of CM60, 62 (commands that require a reset of the DESKCON).

START	DESCRIPTION	DATA
CM60	DESKCON Soft Reset.  <b>NOTE:</b> <i>Reset DESKCON soft after confirming all the DESKCON are not used.</i>	<ul style="list-style-type: none"> <li>• Y=90</li> <li>(1) 0</li> <li>(2) 0: To reset</li> </ul>
END		

## ATTENDANT CALLED/CALLING NAME DISPLAY

### PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify the time to go back to Data and Time display after the call answered.	(1) 120 (2) 0 : 10 seconds later 1◀: 6 seconds later
	Specify the duration to display the name.	(1) 121 (2) 0 : Until call finished 1◀: As per CM08>120
	Specify the duration of displaying the destination information (called number/name) indicated on Attendant Console when the outgoing call is answered by the destination (except CCIS).	(1) 538 (2) 0 : Until call is finished 1◀: 6 seconds
	Specify the duration of displaying the caller information (calling number/name) indicated on Attendant Console when the outgoing call is answered by the destination via CCIS.	(1) 580 (2) 0 : 6 seconds 1◀: Until call is finished
CM20	Assign the access code for Name Display, used from individual stations.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (62) (2) A110: Name Display See NAME DISPLAY REGISTRATION FROM MULTILINE TERMINAL. <a href="#">Page 1-33</a>
CM35	Assign a trunk name number to each trunk route.	<ul style="list-style-type: none"> <li>Y=003</li> </ul> (1) 00-63: Trunk Route No. (2) 00-14: Trunk Name No. 00-14 15◀ : Kind of trunk route assigned by CM35 Y=000 is displayed 16-63: Trunk Name No. 16-63
A		

A

CM77

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**DESCRIPTION**

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**DATA**

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Assign the desired station user name to each station number by CM77 Y=0 or Y=1.

- Y=0 By Character Code
  - (1) X-XXXXXXXX: Station No.
  - (2) Character Code 20-7F (Maximum 32 digits)  
See APPENDIX A: Character Code Table.  
[Page A-2](#)

Assign the desired trunk name to each trunk route by CM77 Y=2 or Y=3.

- Y=1 By Character using PCPro
  - (1) X-XXXXXXXX: Station No.
  - (2) A-Z, 0-9: Character  
(Maximum 16 characters)
- Y=2 By Character Code
  - (1) 00-14, 16-63: Trunk Name No. assigned by CM35 Y=003
  - (2) Character Code 20-7F (Maximum 8 digits)  
See APPENDIX A: Character Code Table.  
[Page A-2](#)
- Y=3 By Character using PCPro
  - (1) 00-14, 16-63: Trunk Name No. assigned by CM35 Y=003
  - (2) A-Z, 0-9: Character  
(Maximum 4 characters)

END

### NAME DISPLAY REGISTRATION FROM MULTILINE TERMINAL

- You can configure the station number from the Multiline Terminal to which the station number belongs.
- Register the characters from PCPro/CAT to SLT, Multiline Terminal without LCD and Trunk.
- The characters are specified by the number of pressing the keys (0-9, \*, #).
- Refer to “Character Table”. [☞ Page 1-34](#)

**Example:** To register “A”, press  key twice.

By pressing same key 11 times, the character returns to the one pressed once.

- To register characters, press  key after each character registration.
- To switch between alphabet upper case (A-Z) and alphabet lower case (a-z), press  key.
- To delete the data, overwrite by blank.
- The following is the example to register “john”:

- |     |   |                |   |
|-----|---|----------------|---|
| (1) | <input type="text" value="LNR/SPD"/>  | (DT receiving) |   |
| (2) | Register the access code specified for Name Display<br>(SPDT receiving).  |                |   |
| (3) | <input type="text" value="5"/> <input type="text" value="5"/> <input type="text" value="Hold"/>   |                | j |
| (4) | <input type="text" value="6"/> <input type="text" value="6"/> <input type="text" value="6"/> <input type="text" value="6"/> <input type="text" value="Hold"/> |                | o |
| (5) | <input type="text" value="4"/> <input type="text" value="4"/> <input type="text" value="4"/> <input type="text" value="Hold"/>                                |                | h |
| (6) | <input type="text" value="6"/> <input type="text" value="6"/> <input type="text" value="6"/> <input type="text" value="Hold"/>                                |                | n |
| (7) | <input type="text" value="LNR/SPD"/>  |                |   |

**Character Table**

KEY NUMBER OF TIMES	0	1	2	3	4	5	6	7	8	9	*	#
	1	0	1	2	3	4	5	6	7	8	9	*
2		.	A	D	G	J	M	P	T	W	*	#
3		.	B	E	H	K	N	Q	U	X	*	#
4		.	C	F	I	L	O	R	V	Y	*	#
5		.						S		Z	*	#
6												
7												
8												-
9												!
10												?

## ATTENDANT CALL SELECTION

### PROGRAMMING

START

DESCRIPTION

DATA

CM35

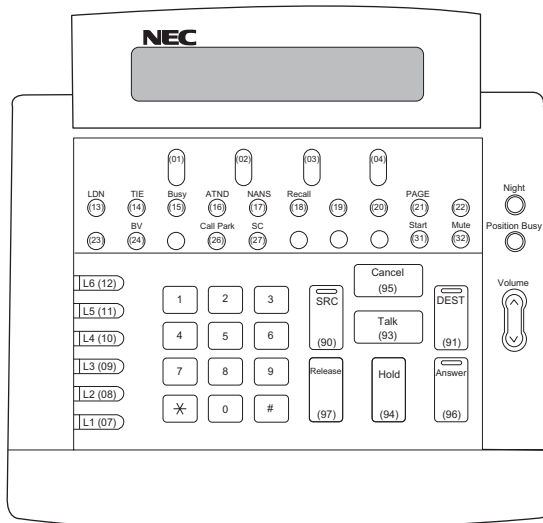
Specify the ATT call Selection key to which incoming calls from each trunk route terminate.

- Y=015
- (1) 00-63: Trunk Route No.
- (2) ATT Call Selection Key:
  - 00-07: C.O. Incoming Call 0-7
  - 10-17: FX Incoming Call 0-7
  - [North America Only]**
  - 20-27: WATS Incoming Call 0-7
  - [North America Only]**
  - 30-37: CCSA Incoming Call 0-7
  - [North America Only]**
  - 40-47: Tie Line Incoming Call 0-7

CM90

Assign the ATT Call Selection Keys required according to the key label.

- Y=00
- (1) DESKCON No. (E000-E007) +   + Key No.
- (2) F60XX
  - XX: 00-07 (C.O. Incoming Call 0-7)
  - 10-17 (FX Incoming Call 0-7)
  - 20-27 (WATS Incoming Call 0-7)
  - 30-37 (CCSA Incoming Call 0-7)
  - 40-47 (Tie Line Incoming Call 0-7)
  - 50-53 (Special Operator Call 0-3)
  - 54 (Priority Call 0)
  - 55 (Priority Call 1)
  - 56 (Emergency Call)
  - 60 (Operator Call)
  - 61 (Recall)
  - 62 (Serial Call)
  - 63 (Call Forwarding-No Answer)
  - 64 (Call Forwarding-Busy Line)
  - 65 (Call Forwarding-Intercept)
  - 66 (Off Hook Alarm)
  - 67 (Interposition Calling/Transfer)



Key No.	Data	Description (Key Label)
13	F6000	C.O. Incoming 0 (LDN)
16	F6060	Operator Call (ATND)
18	F6061	Recall (Recall)

END

## ATTENDANT DO NOT DISTURB SETUP AND CANCEL

### PROGRAMMING

START	DESCRIPTION	DATA
CM13	Provide Do Not Disturb-System to the required stations.	<ul style="list-style-type: none"><li>• Y=00</li><li>(1) X-XXXXXXXX: Station No.</li><li>(2) 0: To provide</li></ul>
CM90	Assign Do Not Disturb and Do Not Disturb Override function keys to each DESKCON, if required.	<ul style="list-style-type: none"><li>• Y=00</li><li>(1) DESKCON No. (E000-E007) + <input type="checkbox"/> + Key No.</li><li>(2) F6102: Do Not Disturb F6108: Do Not Disturb Override F6104: Reset</li></ul>
END		



## ATTENDANT INTERPOSITION CALLING/TRANSFER

### PROGRAMMING

START	DESCRIPTION	DATA
CM20	Assign the access code for Interposition Transfer.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A095: Inter Position Transfer
CM90	Assign the Attendant Call Selection Key for this feature on the DESKCON.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) DESKCON No. (E000-E007) + <input type="text"/> + Key No. (2) F6067: Attendant Interposition Calling/Transfer (Transferred ATTENDANT CONSOLE Answer key/lamp)
CM08	Specify the Inter-Position Transferred call to another tenant's Attendant Console.  If the data is set to 1, a call from any station can be transferred to another Attendant Console regardless of Tenant Allocation by CM62.	(1) 143 (2) 0 : Restricted 1◀: Allowed
END		

## ATTENDANT LISTED DIRECTORY NUMBER

### PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with diversion display.	(1) 204 (2) 0: Available
CM35	Specify the Incoming Call Identification (ICI) key to which each LDN call or Tie Line call from each trunk route will terminate.	<ul style="list-style-type: none"> <li>• Y=015</li> </ul> (1) 00-63: Trunk Route No. (2) 00-07: C.O. Incoming Call 0-7 40-47: Tie Line Incoming Call 0-7
CM90	Assign the required number of ICI key on the DESKCON.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) DESKCON No. + <input type="text"/> + Key No. (2) F60XX F6000-F6007: C.O. Incoming Call 0-7 F6040-F6047: Tie Line Incoming Call 0-7
CM50	Assign the indialed number to each LDN key or Tie Line key assigned by CM90. The indialed number should be different from any numbers assigned by CM10 and CM11.	<ul style="list-style-type: none"> <li>• Y=01 For DID</li> </ul> (1) 0 : Effective data in CM35 Y=015 1-8: LDN Key 0-7 assigned by CM90 (2) X-XXXX: Indialed No.
		<ul style="list-style-type: none"> <li>• Y=02 For Tie Line</li> </ul> (1) 0 : Effective data in CM35 Y=015 1-8: Tie Line Key 0-7 assigned by CM90 (2) X-XXXX: Indialed No.
END		

To provide the LDN Diversion feature, the following programming is also required.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	<p>Provide the system with the LDN Diversion feature.</p>	<ul style="list-style-type: none"> <li>(1) 205</li> <li>(2) 0: Available</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM58</div>	<p>Assign the data for LDN Diversion to each indialialed number assigned by CM50 Y=01/02.</p> <p><b>NOTE:</b> <i>A call is diverted to LDN0-7/TIE0-7 keys as specified by CM58 Y=02-07, even if CM50 Y=01/02&gt;1-8 has been set.</i></p>	<ul style="list-style-type: none"> <li>• Y=00 Tenant No. of LDN               <ul style="list-style-type: none"> <li>(1) 00 : Effective data in CM35 Y=15 01-08: LDN key 0-7 assigned by CM50 Y=01</li> <li>10 : Effective data in CM35 Y=15 11-18: Tie Line Key 0-7 assigned by CM50 Y=02</li> </ul> </li> <li>(2) 00-63: Tenant No.               <ul style="list-style-type: none"> <li>• Y=01 TAS Group No.                   <ul style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) 00-63: TAS Group No. assigned by CM44&gt;13</li> </ul> </li> <li>• Y=02 Day Mode Destination of LDN                   <ul style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) 00-07: LDN/TIE key 0-7                       <ul style="list-style-type: none"> <li>08 : To TAS</li> <li>09 : To the station/outside party assigned by CM58 Y=08</li> </ul> </li> </ul> </li> <li>• Y=03 Night Mode Destination of LDN                   <ul style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) 00-07: LDN/TIE key 0-7                       <ul style="list-style-type: none"> <li>08 : To TAS</li> <li>09 : To the station/outside party assigned by CM58 Y=09</li> </ul> </li> </ul> </li> <li>• Y=04 Day Mode diversion for busy destination station                   <ul style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) 00: To Attendant Console (BUSY key) 08: To TAS 09: Camped on</li> </ul> </li> </ul> </li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		

A	DESCRIPTION	DATA
CM58	<p>If a station is designated by CM58 Y=02, 03, assign the station number or abbreviated code for outside party to which the call is to be diverted.</p>	<ul style="list-style-type: none"> <li>• Y=05 Night Mode diversion for busy destination station               <ol style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) Same as CM58 Y=04</li> </ol> </li> <li>• Y=06 Day Mode diversion for non-answering destination station               <ol style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) 00: To Attendant Console (NANS key) 08: To TAS</li> </ol> </li> <li>• Y=07 Night Mode diversion for non-answering destination station               <ol style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) Same as CM58 Y=06</li> </ol> </li> <li>• Y=08 Day Mode station number               <ol style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) X-XXXXXXXX: Station No. CXX : Abbreviated code for outside party XX: 00-31 given by CM71&gt;66</li> </ol> </li> <li>• Y=09 Night Mode station number               <ol style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) Same as CM58 Y=08</li> </ol> </li> </ul>
<u>END</u>		

## HARDWARE REQUIRED

DIT blade (DID Trunk)  
ODT blade (Tie Line Trunk)

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# ATTENDANT LOOP RELEASE

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## PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with the Attendant Loop Release feature.	(1) 014: Attendant Loop Release (2) 0: Available
END		

To reenter the call that has been released from a loop before Automatic Recall:

START	DESCRIPTION	DATA
CM20	Assign the access code for Call Pickup-Direct.	• Y=0-3 Numbering Plan Group 0-3 (1) X-XXXX: Access Code (2) A021: Call Pickup-Direct
END		

## ATTENDANT PROGRAMMING

### PROGRAMMING

START	DESCRIPTION	DATA
CM60	Assign the password for Attendant Programming.	<ul style="list-style-type: none"> <li>• Y=30</li> <li>(1) 1</li> <li>(2) X-X...X : Password (Maximum 8 digits)  X : 0-9, A (*), B (#)  NONE◀: 12345678</li> </ul> <p>If no data is set, the default setting is NONE. In this case, the password is set to “12345678”.</p>
CM71	Specify the usage of memory area for registering called party numbers to use exclusively for Attendant Console.	<ul style="list-style-type: none"> <li>(1) 64: To use exclusively for Attendant Console</li> <li>(2) XXX ZZZ  XXX: 000-299: Starting Memory Slot No. in Block  ZZZ : 001-300: Number of Slots to be assigned in Block</li> </ul>
CM72	Assign Called No. to the memory area, and also register Called Party Name to be displayed on LCD, if required.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 000-299: Memory Slot No.</li> <li>(2) XXXX + <input type="checkbox"/> + ZZ...Z  XXXX: Trunk Access Code (Maximum 4 digits)  ZZ...Z : Called Party No. (Maximum 26 digits)</li> <li>• Y=1</li> <li>(1) 000-299: Memory Slot No.</li> <li>(2) XXX...X: Called Party Name in Character Codes (Maximum 32 digits, i.e. Maximum 16 characters) See Character Code Table.  <a href="#">Page A-2</a></li> <li>• Y=2</li> <li>(1) 000-299: Memory Slot No.</li> <li>(2) XXX...X: Called Party Name by using PC-Pro/CAT (Maximum 16 characters)</li> </ul>
A		

A	DESCRIPTION	DATA
CM90	Assign the program key for providing Attendant Programming on the DESKCON.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) DESKCON No. (E000-E007) + <input type="text"/> + Key No.</li> <li>(2) F6111: Programming</li> </ul>
CM20	Assign the access code for providing Attendant Programming for the DESKCON, if required.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A156: Programming</li> </ul>
<u>END</u>		

## CALL QUEUING

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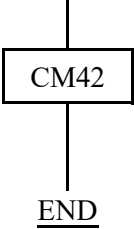
### PROGRAMMING

Refer to “CALL WAITING DISPLAY”. [📄 Page 1-45](#)



## CALL WAITING DISPLAY

### PROGRAMMING

START	DESCRIPTION	DATA
 CM42	Specify the number of waiting calls which cause the Call Waiting lamp to flash.	(1) 00 (2) 01-48 : 1-48 calls NONE◀: 6 calls
END		

## COMMON ROUTE INDIAL

### PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Diversion Display.	(1) 204 (2) 0: Available
CM90	Assign the required number of LDN keys on the DESKCON.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) DESKCON No. (E000-E007) + <input type="text"/> + Key No. (2) F6000-F6007: LDN key 0-7
CM50	Assign the indialed number to each LDN key assigned by CM90. The indialed number should be different from any numbers assigned by CM10 and CM11.	<ul style="list-style-type: none"> <li>Y=01</li> </ul> (1) 1-8: LDN key 0-7 assigned by CM90 (2) X-XXXX: Indialed No.
CM51	Assign the destination to which a DID call is transferred when an unassigned number is dialed.	<ul style="list-style-type: none"> <li>Y=06 For DID Call</li> </ul> (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No. E000 : Attendant Console
END		

To provide the LDN Diversion feature, the following programming is also required.

START	DESCRIPTION	DATA
CM08	Provide the system with the LDN Diversion feature.	(1) 205 (2) 0: Available
CM58	Assign the data for LDN Diversion to each indialled number assigned by CM50 Y=01.	<ul style="list-style-type: none"> <li>• Y=00 Tenant No. of LDN</li> <li>(1) 01-08: LDN key 0-7 assigned by CM50 Y=01</li> <li>(2) 00-63: Tenant No.</li> <li>• Y=01 TAS Group No.</li> <li>(1) Same as CM58 Y=00</li> <li>(2) 00-63: TAS Group No. assigned by CM44&gt;13</li> <li>• Y=02 Day Mode destination of LDN</li> <li>(1) Same as CM58 Y=00</li> <li>(2) 00-07: LDN0-7 key</li> <li>08 : To TAS</li> <li>09 : To the station/outside party assigned by CM58 Y=08</li> <li>• Y=03 Night Mode destination of LDN</li> <li>(1) Same as CM58 Y=00</li> <li>(2) 00-07: LDN key 0-7</li> <li>08 : To TAS</li> <li>09 : To the station/outside party assigned by CM58 Y=09</li> <li>• Y=04 Day Mode diversion for busy destination station</li> <li>(1) Same as CM58 Y=00</li> <li>(2) 00: To Attendant Console (BUSY key)</li> <li>08: To TAS</li> <li>09: Camped on</li> </ul>
<b>NOTE:</b> <i>A call is diverted to LDN0-7 keys as specified by CM58 Y=02-07, even if CM50 Y=01&gt;1-8 has been set.</i>		
A		

A	DESCRIPTION	DATA
CM58	<p>If a station is designated by CM58 Y=02, 03, assign the station number to which the call is to be diverted.</p>	<ul style="list-style-type: none"> <li>• Y=05 Night Mode diversion for busy destination station               <ol style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) Same as CM58 Y=04</li> </ol> </li> <li>• Y=06 Day Mode diversion for non-answering destination station               <ol style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) 00: To Attendant Console (NANS key) 08: To TAS</li> </ol> </li> <li>• Y=07 Night Mode diversion for non-answering destination station               <ol style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) Same as CM58 Y=06</li> </ol> </li> <li>• Y=08 Day Mode destination station               <ol style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) X-XXXXXXXX: Station No.</li> </ol> </li> <li>• Y=09 Night Mode destination station               <ol style="list-style-type: none"> <li>(1) Same as CM58 Y=00</li> <li>(2) Same as CM58 Y=08</li> </ol> </li> </ul>
<u>END</u>		

**HARDWARE REQUIRED**

DIT blade (DID Trunk)

## DIALED NUMBER IDENTIFICATION SERVICE (DNIS)

### PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Diversion Display.	<ul style="list-style-type: none"> <li>(1) 204</li> <li>(2) 0: Available</li> </ul>
CM35	Specify the Incoming Call Identification (ICI) key to which each LDN call or Tie Line call from each trunk route will terminate.	<ul style="list-style-type: none"> <li>• Y=015</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00-07: C.O. Incoming Call 0-7 40-47: Tie Line Incoming Call 0-7</li> </ul>
CM90	Assign the required number of LDN keys on the DESKCON.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) DESKCON No. (E000-E007) + <input type="text"/> + Key No.</li> <li>(2) F6000-F6007: C.O. Incoming Call 0-7 F6040-F6047: Tie Line Incoming Call 0-7</li> </ul>
CM50	Assign the indialed number to each LDN key or Tie Line key assigned by CM90. The indialed number should be different from any numbers assigned by CM10 and CM11.	<ul style="list-style-type: none"> <li>• Y=01 For DID</li> <li>(1) 0 : Effective data in CM35 Y=015 1-8: LDN key 0-7 assigned by CM90</li> <li>(2) X-XXXX: Indialed No.</li> <li>• Y=02 For Tie Line</li> <li>(1) 0 : Effective data in CM35 Y=015 1-8: Tie Line key 0-7 assigned by CM90</li> <li>(2) X-XXXX: Indialed No.</li> </ul>
CM58	Assign the tenant number to the LDN assigned by CM50 Y=01/02.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 00 : Effective data in CM35 Y=015 01-08: LDN Key 0-7 assigned by CM90</li> <li>(2) 00-63: Tenant 00-63</li> </ul>
END		

To provide the LDN Diversion feature, the following programming is also required.

START	DESCRIPTION	DATA
CM08	Provide the system with LDN Diversion feature.	<ul style="list-style-type: none"> <li>(1) 205</li> <li>(2) 0: Available</li> </ul>
CM58	Assign the data for LDN Diversion to each in-dialed number assigned by CM50 Y=01/02.  <b>NOTE:</b> <i>A call is diverted to LDN keys 0-7 as specified by CM58 Y=02, Y=03, even if CM50 Y=01/02&gt;1-8 has been set.</i>	<ul style="list-style-type: none"> <li>• Y=02 Day Mode Destination of LDN               <ul style="list-style-type: none"> <li>(1) 00 : Effective data in CM35 Y=15 01-08: LDN key 0-7 assigned by CM90 10 : Effective data in CM35 Y=15 11-18: Tie Line key 0-7 assigned by CM90</li> <li>(2) 00-07: LDN/TIE key 0-7</li> </ul> </li> <li>• Y=03 Night Mode destination of LDN               <ul style="list-style-type: none"> <li>(1) Same as CM58 Y=02</li> <li>(2) 00-07: LDN/TIE key 0-7</li> </ul> </li> <li>• Y=08 Day Mode destination station               <ul style="list-style-type: none"> <li>(1) Same as CM58 Y=02</li> <li>(2) X-XXXXXXXX: Station No. CXX : Abbreviated code for outside party XX: 00-31 given by CM71&gt;66</li> </ul> </li> <li>• Y=09 Night Mode destination station               <ul style="list-style-type: none"> <li>(1) Same as CM58 Y=02</li> <li>(2) Same as CM58 Y=08</li> </ul> </li> </ul>
END		

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## HARDWARE REQUIRED

DIT blade (DID Trunk)

ODT blade (Tie Line Trunk)

## INCOMING CALL IDENTIFICATION

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### PROGRAMMING

Refer to the following.

SN716 DESKCON

 [Page 1-24](#)

ATTENDANT CALLED/CALLING NAME DISPLAY

 [Page 1-31](#)

ATTENDANT CALL SELECTION

 [Page 1-35](#)

ATTENDANT LISTED DIRECTORY NUMBER

 [Page 1-38](#)

COMMON ROUTE INDIAL

 [Page 1-46](#)

## INDIVIDUAL TRUNK ACCESS

### PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM20</div>	Assign the access code for Individual Trunk Access.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A081: Individual Trunk Access</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM30</div>	Assign the Trunk ID code to each trunk.  <b>NOTE:</b> <i>The Trunk ID code is the code to be dialed after the access code, and displayed on the Attendant Console.</i>	<ul style="list-style-type: none"> <li>• Y=19</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00 (D000-D511)</li> <li>(2) XXXX: Trunk ID code Set any desired number (4 digits).</li> </ul>
<u>END</u>		



## MULTI-FUNCTION KEY

### PROGRAMMING

START

DESCRIPTION

DATA

CM60

Provide each DESKCON Multi-Function key capability.

**NOTE:** A reset by CM60 Y=90>0: 0 is required after this data setting.

- Y=17
- (1) 0-7: DESKCON No. assigned by CM10  
Y=00
- (2) 1◀: Effective

CM90

Assign the required Multi-Function keys to the each DESKCON.

**NOTE 1:** The following data is assigned as default data.

Key No. DESKCON Status No.	01	02	03	04
00	F6110 MODE	F6111 PROG		
01	F6112 SPB	F6113 LPB	F6106 SHF	
02				
03	F6108 DDOV			
04	F6100 RC	F6101 MW	F6102 DD	F6109 WW

**NOTE 2:** When setting or canceling a group of stations in Do Not Disturb/Room Cutoff, DESKCON Status number 00 should be used.

- Y=00
- (1) EXX Y + [ ] + Multi-Function key No.  
(01-04: DESKCON)  
XX: 00-04: DESKCON Status No.  
00: Idle State **NOTE 2**  
01: When answering or originating  
02: When called station is busy  
03: When called station is DND  
04: When accessing Hotel feature  
Y : 0-7: DESKCON No.
- (2) F6100: Room Cutoff  
F6101: Message Waiting  
F6102: Do Not Disturb  
F6106: Flash over trunk  
F6108: Do Not Disturb Override  
F6109: Wake Up  
F6111: Programming  
F6112: Out pulse (PB Signal) Short  
F6113: Out pulse (PB Signal) Long

END

## MULTIPLE CONSOLE OPERATION

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### PROGRAMMING

Refer to ATTENDANT CONSOLE (SN716 DESKCON). [📄 Page 1-24](#)

## PUSHBUTTON CALLING-ATTENDANT ONLY

### PROGRAMMING

START	DESCRIPTION	DATA
START   <div style="border: 1px solid black; padding: 2px; display: inline-block;">CM35</div>   END	Assign the type of signaling to Outgoing and Bothway Trunk Routes.  <div style="border: 1px solid black; border-radius: 10px; padding: 2px; display: inline-block;">BLADE RESET</div>	<ul style="list-style-type: none"><li>• Y=001</li><li>(1) 00-63: Trunk Route No.</li><li>(2) 7◀: DP/DTMF (Incoming) DTMF (Outgoing)</li></ul>

## TRUNK GROUP BUSY DISPLAY

### PROGRAMMING

START	DESCRIPTION	DATA
CM30	Assign the trunk group number to each trunk (Several trunks may be assigned to one trunk group number).	<ul style="list-style-type: none"> <li>• Y=09</li> </ul> (1) 000-511: Trunk No. (2) 01-62: Trunk Group No. for DESKCON
CM90	For providing the Trunk Group Busy Lamps on Attendant Console, assign the trunk group number to required key.  <b>NOTE 1:</b> <i>Maximum 6 keys per DESKCON can be assigned. Any six trunk group number out of trunk group numbers 01-62 can be assigned.</i>  <b>NOTE 2:</b> <i>Key numbers 1-4 should not be assigned to provide a Trunk Group Busy Lamp.</i>	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) DESKCON No. (E000-E007) + <input type="text"/> + Key No. (2) F12XX XX: 01-62: Trunk Group No. assigned by CM30 Y=09
CM44	For providing external Trunk Group Busy Lamps, assign the trunk group number to the required circuit number on the external relay control.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) XX Y XX: 00-31: Relay Group No. Y : 0-3: Circuit No. 313: External Relay Interface of CPU blade (2) 11XX XX: 01-62: Trunk Group No. assigned by CM30 Y=09
END		

### HARDWARE REQUIRED

To provide the Trunk Group Busy Lamps externally:  
Lamp indicator provided by customer

## UNSUPERVISED TRUNK-TO-TRUNK TRANSFER BY ATTENDANT

### PROGRAMMING

START	DESCRIPTION	DATA
<u>CM08</u>	Provide the system with this feature.	(1) 206 (2) 1◀: Available
<u>END</u>		

**NOTE:** *The trunk associated with at least one side of the call must be programmed for answer and/or release signals to ensure that the trunks do not lock up.*  
*Refer to TRUNK-TO-TRUNK CONNECTION [Page 1-838](#) for the data to be assigned to each trunk.*

# ATTENDANT DELAY ANNOUNCEMENT

## PROGRAMMING

START	DESCRIPTION	DATA
CM35	Allow the Announcement Service via Voice Response System on Attendant Delay Announcement.	<ul style="list-style-type: none"> <li>Y=074</li> </ul> (1) 00-63: Trunk Route No. (2) 0: Allow
CM49	Assign the function of the Voice Response System to Attendant Delay Announcement.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) 000-015: VRS No. (2) 0F XX: Attendant Delay Announcement XX: 00-63 (Message No.)
	Assign the tenant number to the message number assigned by CM49 Y=00.	<ul style="list-style-type: none"> <li>Y=0A</li> </ul> (1) 00-63: Tenant No. assigned by CM30 Y=01/CM76 Y=18/19/20/21 (2) 00-63: Message No. assigned by CM49 Y=00
CM08	Specify the replay timer of the message recorded in the Voice Response System.	(1) 165 (2) 0 : Replay at an interval assigned by CM41 Y=0>47 1◀: Replay only once
CM20	To record, replay, and delete a message, assign the Voice Response System access codes, respectively.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A100: Record A101: Replay A102: Delete
CM41	Specify the unanswered timing of message replay.	<ul style="list-style-type: none"> <li>Y=0</li> </ul> (1) 16 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
A		

A	DESCRIPTION	DATA
CM41	Specify the Attendant Delay Announcement connection timer.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 67</li> <li>(2) 01-99: 4-396 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 8-12 seconds.
	Specify the interval time of message replay.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 47</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 32-36 seconds.
<u>END</u>		

## HARDWARE REQUIRED

CPU blade (VRS using a built-in Flash ROM)

# ATTENDANT OVERFLOW

## PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Attendant Overflow.	(1) 067 (2) 0: Available
CM30	Assign the data for terminating system in Day/ Night Mode for each trunk.	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> </ul> (1) 000-511: Trunk No. (2) 14: Termination to Attendant Console  <ul style="list-style-type: none"> <li>• Y=03 Night Mode</li> </ul> (1) 000-511: Trunk No. (2) 04: Direct-in Termination  <ul style="list-style-type: none"> <li>• Y=05 Night Station Assignment</li> </ul> (1) 000-511: Trunk No. (2) X-XXXXXXXX: Station No.
CM35	Restrict the Attendant Delay Announcement.	<ul style="list-style-type: none"> <li>• Y=74</li> </ul> (1) 00-63: Trunk Route No. (2) 0◀: Restricted
CM41	Specify the timing interval for Attendant Over- flow.	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> (1) 01 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 sec- onds.
END		



To set a station or an outside party as the Attendant Overflow destination:

START	DESCRIPTION	DATA
CM35	Provide Call Forwarding-All Calls on Attendant Overflow.	<ul style="list-style-type: none"> <li>Y=173</li> </ul> (1) 00-63: Trunk Route No. (2) 0: Available
CM51	Assign the destination of Attendant Overflow to the incoming trunk tenant.  <b>NOTE:</b> For an outside number, assign the Virtual Line station number.	<ul style="list-style-type: none"> <li>Y=31</li> </ul> (1) 00-63: Incoming Trunk Tenant No. (2) X-XXXXXXXX: Station No. Virtual Line Station No. assigned by CM11
CM11	Assign the Virtual Line station number to the required Virtual Port number.	(1) 0000-0999: Virtual Port No. (2) X-XXXXXXXX: Virtual Line Station No.
CM12	Assign Service Restriction Class A to the Virtual Line station.	<ul style="list-style-type: none"> <li>Y=02</li> </ul> (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Forwarding-All Calls-Outside in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=026</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CME6	Assign the destination number for Call Forwarding-All Calls-Outside to the Virtual Line station number assigned by CM11.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 (2) Destination No.: X-XXXX + [ ] + YY...Y X-XXXX: Outgoing Trunk/LCR Group Access Code (1-4 digits) [ ] : Separate Mark YY...Y : Called No. (Maximum 26 digits)
A		

A	DESCRIPTION	DATA
CM35	To apply Call Forwarding-All Calls-Outside, set the trunk route combinations for Tandem Connection.	<ul style="list-style-type: none"> <li>• Y=005</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li> </ul>
CM36		<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=005</li> <li>(2) 0: Allow</li> </ul>
<u>END</u>		

**NOTE:** *When a station or an outside party is set as the Attendant Overflow destination, the destination has priority over the delay announcement and Night station.*

# ATTENDANT OVERRIDE

## PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Attendant Override.	(1) 012 (2) 1◀: Available
	Specify the Warning Tone sent to the connected parties during Attendant Override.	(1) 045 (2) 0 : Only once 1◀: Every 4 seconds
	Specify whether the Warning Tone is sent to C.O. line, when an operator overrides a busy station which is connected to a C.O. line.	(1) 076 (2) 0 : To send 1◀: Not sent
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Attendant Override called side in the Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=009</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
END		

**NOTE:** *This feature cannot be used in conjunction with Attendant Lockout.*

# AUTHORIZATION CODE

## PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; text-align: center;">CM08</div>	<p>Provide the system with Authorization Code.</p> <p><b>NOTE:</b> <i>If no setting has been performed for OAI, the default setting of this data (2nd data=1 [By OAI]) means the same as 2nd data=0 (By PBX).</i></p> <p>Specify whether Service Set Tone should be provided after dialing the access code for Authorization Code.</p>	<p>(1) 216 (2) 0: By PBX (Related to CM2A)</p> <p>(1) 362: Service Set Tone after dialing the access code (2) 0 : No tone 1◀: Service Set Tone</p>
<div style="border: 1px solid black; padding: 2px; text-align: center;">CM12</div>	<p>Assign Service Restriction Class A for Authorization Code to the required stations.</p>	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
<div style="border: 1px solid black; padding: 2px; text-align: center;">CM15</div>	<p>Allow Authorization Code in Service Restriction Class A assigned by CM12 Y=02.</p> <p>Specify the entry of Authorization Code after dialing an LCR access code and desired number.</p> <p><b>NOTE:</b> <i>To provide this operation, the following data assignments are required.</i></p> <ul style="list-style-type: none"> <li>- Toll restriction (CM12 Y=01, CM8A Y=5XXX: 000, CM81)</li> <li>- LCR origination (CM20 Y=0-3: A126/A127/A128/ A129, CM8A Y=5XXX: 180, CM85)</li> </ul>	<ul style="list-style-type: none"> <li>• Y=031 Authorization Code</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow</li> <li>• Y=401</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Allow 7◀: Restricted</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: 30px; height: 30px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">A</div>		

A	DESCRIPTION	DATA
CM20	Assign the access code for Authorization Code.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A086: Authorization Code</li> </ul>
CM42	Specify the maximum number of digits for Authorization Code with CPU.	<ul style="list-style-type: none"> <li>(1) 11</li> <li>(2) Maximum number of digits 01-16 : 1 digit-16 digits NONE◀: 10 digits</li> </ul>
CM2A	Assign the ID Code Development number for Authorization Code.	<ul style="list-style-type: none"> <li>• Y=A0</li> <li>(1) 0: Authorization Code</li> <li>(2) 0-9: ID Code Development No. 00-09</li> </ul> <p><b>NOTE:</b> <i>CM2A Y=00-09 is determined by this data.</i></p>
	Assign the ID Code for Authorization Code.	<ul style="list-style-type: none"> <li>• Y=00-09 ID Code Development No. 00-09</li> <li>(1) X-XX...XX (Maximum16 digits): ID Code for Authorization Code</li> <li>(2) 0000-2999: ID Code Pattern No.</li> </ul>
	Assign the valid range of ID Code.	<ul style="list-style-type: none"> <li>• Y=10</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 0 : Authorization Code/Forced Account Code/Remote Access to System (DI-SA)</li> <li>1 : Authorization Code/Forced Account Code</li> <li>3◀: Invalidate the ID Code</li> </ul>
	Assign the desired Trunk Restriction Class for each ID Code Pattern number.	<ul style="list-style-type: none"> <li>• Y=11</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 1◀: Unrestricted (RCA)</li> <li>2 : Non-Restricted-1 (RCB)</li> <li>3 : Non-Restricted-2 (RCC)</li> <li>4 : Semi-Restricted-1 (RCD)</li> <li>5 : Semi-Restricted-2 (RCE)</li> <li>6 : Restricted-1 (RCF)</li> <li>7 : Restricted-2 (RCG)</li> <li>8 : Fully-Restricted (RCH)</li> </ul>
B		

B	DESCRIPTION	DATA
CM2A	Assign the desired Service Restriction Class A to each ID Code Pattern number.	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class A</li> </ul>
	Assign the desired Service Restriction Class B to each ID Code Pattern number.	<ul style="list-style-type: none"> <li>• Y=13</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class B</li> </ul>
	Assign the desired Service Restriction Class C to each ID Code.	<ul style="list-style-type: none"> <li>• Y=14</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
END		

**NOTE:** *Approximately 3000 Authorization Codes including Forced Account Codes and DISA codes can be defined.*

*Number of the codes varies with the number of digits assigned to each code.  
For details, refer to “BUSINESS/HOTEL/DATA FEATURES AND SPECIFICATIONS”.*

# AUTOMATED ATTENDANT

## PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CM30</div>	Assign the data for Automated Attendant to the required trunks.	<ul style="list-style-type: none"> <li>• Y=02 Terminating System in Day Mode</li> <li>• Y=03 Terminating System in Night Mode</li> <li>• Y=40 Terminating System in Mode A</li> <li>• Y=41 Terminating System in Mode B</li> </ul> <p>(1) 000-511: Trunk No. (2) 09: Automated Attendant</p> <ul style="list-style-type: none"> <li>• Y=30 Handling of busy/not available Automated Attendant destination in Day Mode</li> <li>• Y=31 Handling of busy/not available Automated Attendant destination in Night Mode</li> </ul> <p>(1) 000-511: Trunk No. (2) 00 : C.O. line release</p> <p style="padding-left: 20px;">01 : Forwarded to TAS indicator 03 : Forwarded to Attendant Console 04 : Forwarded to DIT Station 05 : Music and DT connection for Redial 06 : DT connection for redial 08 : 2nd Answering Message + DT connection for redial <b>NOTE</b> 15◀: C.O. line release</p> <ul style="list-style-type: none"> <li>• Y=32 Handling of timed-out Automated Attendant call in Day Mode</li> <li>• Y=37 Handling of timed-out Automated Attendant call in Night Mode</li> </ul> <p>(1) 000-511: Trunk No. (2) 00 : C.O. line release</p> <p style="padding-left: 20px;">01 : Forwarded to TAS indicator 03 : Forwarded to Attendant Console 04 : Forwarded to DIT station 06 : DT connection for redial 15◀: C.O. line release</p>
	<p><b>NOTE:</b> <i>When providing a Night Message for Automated Attendant, the 2nd Answering Message which is assigned by CM49 Y=00 2nd data 02XX is used for the Night Message. In that case, the 2nd data 08 of CM30 Y=30, 31 cannot be specified for handling of Busy/Not Available Automated Attendant destination.</i></p>	
<div style="border: 1px solid black; padding: 2px; width: fit-content;">A</div>		

A	DESCRIPTION	DATA
CM30		<ul style="list-style-type: none"> <li>• Y=33 Handling of all PBR busy when Y=30, 31 is set to data 08</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00 : C.O. line release 01 : Forwarded to TAS indicator 03 : Forwarded to Attendant Console 15◀: C.O. line release</li> </ul>
CM63	Specify whether inter-tenant connection is allowed on an Automated Attendant incoming call.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) XX ZZ XX: 00-63: Tenant No. of called station ZZ : 00-63: Tenant No. of trunk</li> <li>(2) 0 : Restricted 1◀: Allowed</li> </ul>
CM64	Assign the answering method for the Automated Attendant, to the required tenants.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 00 : DT Connection 01 : Hold Tone on CPU blade + DT Connection 02 : 1st Answering Message + DT Connection 03◀: DT Connection</li> </ul>
	For providing a Night Message, assign the answering method of Night Mode, to the required tenants.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 00 : DT Connection 01 : Hold Tone Source on CPU blade + DT Connection 02 : Night Message + DT Connection 03◀: As per CM64 Y=0</li> </ul>
CM48	Specify whether no Dial Tone connection is required for the answering method assigned by CM64 Y=0.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 06</li> <li>(2) 0 : No Dial Tone 1◀: Dial Tone</li> </ul>
B		



B	DESCRIPTION	DATA
CM08	Specify the ringing cadence for an Automated Attendant call.	<p>(1) 180</p> <p>(2) 0 : For Multiline Terminal:            0.25 seconds ON-0.125 seconds OFF            -0.25 seconds ON-0.125 seconds OFF            -0.25 seconds ON-2 seconds OFF  <b>[For North America]</b></p> <p>Special Ringing            (See Interval of Ringing Tones for Multiline Terminal by CM08&gt;392/396/397) <a href="#">Page 1-344</a>  <b>[For other than North America]</b></p> <p>For Single Line Telephone:            As per CM04 Y=00&gt;06            (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00&gt;05/06/07) <a href="#">Page 1-345</a></p> <p>1◀: As per CM35 Y=033</p>
	Specify the process when a call is transferred by an Automated Attendant to a predetermined station and time-out occurs.	<p>(1) 359</p> <p>(2) 0 : Disconnect call</p> <p>1◀: Continue call</p>
	Specify the process for an Automated Attendant call when a caller dials while receiving the message or music.	<p>(1) 363</p> <p>(2) 0 : Not allowed (Allowed after receiving the message or music)</p> <p>1◀: Allowed</p>
C		

C	DESCRIPTION	DATA
CM41	Specify the time before answering by Automated Attendant.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 59</li> <li>(2) 00-08: 0-32 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 4-8 seconds.
	Specify the timing before unanswered Automated Attendant call forwards.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 34</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 32-36 seconds.
	Specify the timing of unanswered call after forwarding to predetermined station in Automated Attendant.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 39</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 32-36 seconds.
	Specify the time before Dial Tone timeout in Automated Attendant.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 43</li> <li>(2) 01-14: 1-14 seconds (1 second increment)</li> </ul> If no data is set, the default setting is 14 seconds.
<u>END</u>		

When the 1st and/or the 2nd answering message is required: CM30 Y=30, 31 2nd data 08, CM64 Y=0>2nd data 02, or Night Message is required: CM64 Y=2 2nd data 02, do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM49</div>	<p>Assign the function of the Voice Response System.</p>  <p>Assign the Message number to the required tenants.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 01XX: 1st Answering Message 02XX: 2nd Answering Message/Night Message XX : 00-63: Message No.</li> <li>• Y=01 For 1st Answering Message</li> <li>• Y=02 For 2nd Answering Message/Night Message</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 00-63: Message No. assigned by CM49 Y=00</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM20</div>	<p>To record, replay, or delete a message, assign the respective Voice Response System access codes.</p>	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A100: Record A101: Replay A102: Delete</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM41</div>	<p>Specify the message replay timer for Automated Attendant.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 51</li> <li>(2) 01-31: 8-128 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 64-68 seconds.</p>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

To provide Automated Attendant to a trunk, do the following programming in addition to the programming of Automated Attendant and Code Restriction on [Page 1-216](#).

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM35</div>	Assign the Trunk Restriction Class for Automated Attendant to a trunk.	<ul style="list-style-type: none"> <li>• Y=097</li> <li>(1) 00-63: Route No.</li> <li>(2) X Z               <ul style="list-style-type: none"> <li>X: 1-8: Day Class</li> <li>Z: 1-8: Night Class                   <ul style="list-style-type: none"> <li>1: Unrestricted (RCA)</li> <li>2: Non-Restricted 1 (RCB)</li> <li>3: Non-Restricted 2 (RCC)</li> <li>4: Semi-Restricted 1 (RCE)</li> <li>5: Semi-Restricted 2 (RCE)</li> <li>6: Restricted 1 (RCF)</li> <li>7: Restricted 2 (RCG)</li> <li>8: Fully-Restricted (RCH)</li> </ul> </li> </ul> </li> </ul>
	<p><b>NOTE:</b> <i>Assign this data to an incoming trunk route.</i></p>	
	Allow the Trunk Restriction of outgoing connection.	<ul style="list-style-type: none"> <li>• Y=051-058 Outgoing Trunk Restriction Data (RCA-RCH)</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Allow</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

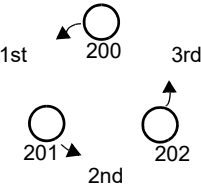
### HARDWARE REQUIRED

For providing the first and/or second Answering Message/Night Message CPU blade (VRS using a built-in Flash ROM)

# AUTOMATIC CALL DISTRIBUTION (ACD)

[For North America/EMEA]

## PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM17</div>	<p>For each ACD group, assign station numbers, one by one, in the order of hunting.</p> <p><b>NOTE 1:</b> <i>Up to 60 stations can be assigned into a single ACD group.</i></p> <p><b>Example:</b> For setting station numbers 200, 201, 202 into one ACD group.</p> <p>1st Operation (1) 200 (2) 201</p> <p>2nd Operation (1) 201 (2) 202</p> <p>3rd Operation (1) 202 (2) 200</p>  <p><b>NOTE 2:</b> <i>CM17 Y=0 assignment is not required for a ACD group including only a station. In that case, assign CM17 Y=1/2 and other commands accordingly.</i></p> <p>Assign the Pilot station or Member station to the stations included in ACD group.</p> <p><b>NOTE:</b> <i>Pilot station must be a non-equipped Physical Port number (CM10 Y=00) phantom.</i></p> <p>Assign the ACD group number.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X-XXXXXXXX: Another station No. to be linked</li> </ul>
		<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) X-XXXXXXXX: ACD station No.</li> <li>(2) 0◀: Member station 1 : Pilot station</li> </ul>
		<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) X-XXXXXXXX: ACD station No.</li> <li>(2) 00-99: ACD Group 00-99</li> </ul>

A

A	DESCRIPTION	DATA
CM17	Specify ACD service for each type of call.	<ul style="list-style-type: none"> <li>• Y=4 Internal Call               <ul style="list-style-type: none"> <li>(1) X-XXXXXXXX: Pilot station No. of ACD group</li> <li>(2) 0 : Not provided 1◀: To provide</li> </ul> </li> <li>• Y=5 C.O. (DDD/FX/WATS) Incoming Call               <ul style="list-style-type: none"> <li>X-XXXXXXXX: Pilot station No. of ACD group</li> <li>(1) 0 : Not provided</li> <li>(2) 1◀: To provide</li> </ul> </li> <li>• Y=6 Tie Line Incoming Call               <ul style="list-style-type: none"> <li>(1) X-XXXXXXXX: Pilot station No. of ACD group</li> <li>(2) 0 : Not provided 1◀: To provide</li> </ul> </li> <li>• Y=7 DID/Automated Attendant Call               <ul style="list-style-type: none"> <li>(1) X-XXXXXXXX: Pilot station No. of ACD group</li> <li>(2) 0 : Not provided 1◀: To provide</li> </ul> </li> <li>• Y=B Designation of number of queuing in each ACD group               <ul style="list-style-type: none"> <li>(1) X-XXXXXXXX: Pilot station No. of ACD group</li> <li>(2) 0 : To provide (As per CM42&gt;16) 1◀: Not provided (No limit)</li> </ul> </li> </ul>
CM42	Specify the maximum number of queuing in each ACD group.	<ul style="list-style-type: none"> <li>(1) 16</li> <li>(2) 01-99 : 1 call-99 calls NONE◀: No limit</li> </ul>
CM41	Specify the call waiting time before answer or abandonment in PEG Count analysis.	<ul style="list-style-type: none"> <li>• Y=0               <ul style="list-style-type: none"> <li>(1) 16</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> </li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
B		

B	DESCRIPTION	DATA
CM20	Assign the access code for ACD Station Busy Out Set and Reset.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A044: Busy Out Set A045: Busy Out Reset
CM90	Assign the ACD Busy Out key on the Multi-line Terminal, if required.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. + [ ] + Key No. (2) F0044: ACD Busy Out
	Assign the Release key on the Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. + [ ] + Key No. (2) F1020: Release
CM08	Specify the processing for an incoming call when all ACD stations are busy.	(1) 212 (2) 0 : Busy Tone Connection 1◀: Queuing
	Specify the processing for a held call after the agent sets the ACD Busy Out.	(1) 214: For the held call from Tie Line (2) 0 : Reconnected by Switch Hook Flash 1◀: Disconnected
	Specify whether the transferred C.O. call from a station or an attendant is placed into queuing mode when all ACD stations are busy.	(1) 215: For the held call from C.O. Line (2) 0 : Reconnected by Switch Hook Flash 1◀: Disconnected
	Specify whether the transferred C.O. call from a station or an attendant is placed into queuing mode when all ACD stations are busy.	(1) 227 (2) 0 : The call is placed into queuing mode <b>NOTE</b> 1◀: Recall to the transferring station when the call is transferred from a station, or attendant Camp-On is set when the call is transferred from Attendant
	Enable the ACD Busy Out set and reset from the secondary extension.	(1) 442 (2) 0: Available
	Specify whether the MIS command is sent while hearing busy tone on ACD termination.	(1) 854 (2) 0 : To send 1◀: Not sent
<u>END</u>		

To provide DID Number Conversion for an ACD Group:  
 See DID DIGIT CONVERSION. [☞ Page 1-300](#)

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## BUSY IN/BUSY OUT-ACD

[For North America/EMEA]

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### PROGRAMMING

To provide ACD Busy Out display on DSS Console:

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
CM08	Provide the system with ACD Busy Out display on DSS Console.	(1) 265 (2) 0: To provide
CM97	Assign the function key used for ACD Busy Out display on each DSS Console.	(1) DSS Console No. (00-31) + <input type="text"/> + Function Key No. (57-59) (2) F1055: ACD Busy Out display
<u>END</u>		



## CALL WAITING INDICATION-ACD

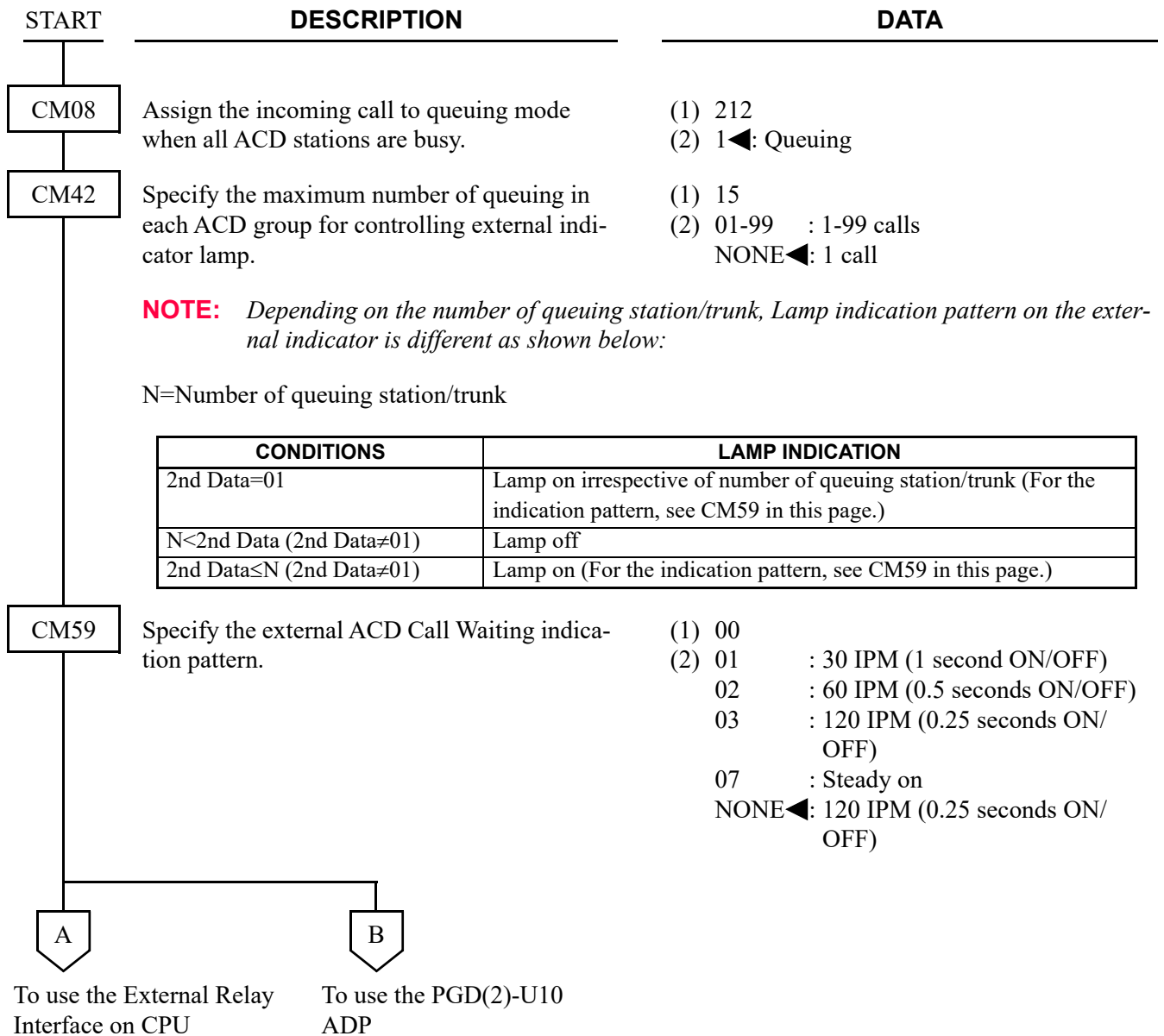
[For North America/EMEA]

### PROGRAMMING

To provide Call Waiting (CW) Lamps on the Multiline Terminal:

START	DESCRIPTION	DATA								
START										
CM08	Assign the incoming call to queuing mode when all ACD stations are busy.	(1) 212 (2) 1◀: Queuing								
CM42	Specify the maximum number of queuing in each ACD group for controlling call waiting lamp of a Multiline Terminal.	(1) 15 (2) 01-99 : 1-99 calls NONE◀: 1 call								
	<p><b>NOTE:</b> Depending on the number of queuing station/trunk, Lamp Indication pattern on a Multiline Terminal is different as shown below:</p> <p>N=Number of queuing station/trunk</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 40%;">CONDITIONS</th> <th style="text-align: left;">LAMP INDICATION</th> </tr> </thead> <tbody> <tr> <td>2nd Data=01</td> <td>Steady on red irrespective of number of queuing station/trunk</td> </tr> <tr> <td>1≤N&lt;2nd Data (2nd Data≠01)</td> <td>Steady on red</td> </tr> <tr> <td>2nd Data≤N (2nd Data≠01)</td> <td>Flashing red</td> </tr> </tbody> </table>		CONDITIONS	LAMP INDICATION	2nd Data=01	Steady on red irrespective of number of queuing station/trunk	1≤N<2nd Data (2nd Data≠01)	Steady on red	2nd Data≤N (2nd Data≠01)	Flashing red
CONDITIONS	LAMP INDICATION									
2nd Data=01	Steady on red irrespective of number of queuing station/trunk									
1≤N<2nd Data (2nd Data≠01)	Steady on red									
2nd Data≤N (2nd Data≠01)	Flashing red									
CM90	Assign the ACD Call Waiting Lamp Indication to the required Multiline Terminal, as required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F1500-F1599: ACD Group 00-99 (Busy Lamp)</li> </ul>								
END										

To provide an external Call Waiting Indicator:



	DESCRIPTION	DATA
A		
CM44	Set the function of ACD Calling Waiting Indication to the External Relay Interface on CPU.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 312, 313: External Relay Interface on CPU</li> <li>(2) 14XX XX: 00-99: ACD Group No. assigned by CM17</li> </ul>
END		

	DESCRIPTION	DATA
B		
CM05	Assign a Unit and Slot number to the DLC blade.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
	<b>BLADE RESET</b>	
	<b>NOTE:</b> <i>When the PGD(2)-U10 ADP is accommodated to the Remote Unit, execute the system data copy by CMEC Y=8 before executing the blade reset.</i>	
CM10	Assign the station number connected to PGD(2)-U10 ADP to its associated Physical Port number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
CM12	Assign the Kind of PGD(2)-U10 station for external relay/external key.	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 3: External relay/external key only</li> </ul>
	<b>NOTE:</b> <i>After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</i>	
C		

C

CM13

DESCRIPTION	DATA
For the station connected to PGD(2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> </ul>
For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a station call.	<ul style="list-style-type: none"> <li>• Y=41</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.	<ul style="list-style-type: none"> <li>• Y=49</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a trunk call.	<ul style="list-style-type: none"> <li>• Y=60</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.	<ul style="list-style-type: none"> <li>• Y=61</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
Allow the accommodation of PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=63</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 0: To accommodate</li> </ul>

BLADE RESET

**NOTE 1:** Set this data only for a Base Port No. (Circuit No. 01) of DLC blade.

**NOTE 2:** Whether the following equipment can be accommodated to the same DLC blade or not depends on this data.

- When the second data is set to "0"

Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/PGD(2)-U10 ADP

Unaccommodatable: DESKCON

- When the second data is set to "1"

Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/DESKCON

Unaccommodatable: PGD(2)-U10 ADP

**NOTE 3:** When the second data is set to 0, and accommodating DT300/DT400 series DESI-less to the same DLC blade to which PGD(2)-U10 ADP is accommodated, the Line Key of the DT300/DT400 series DESI-less does not light up (however, Character Display or Icon Display on the DESI-less screen is provided).

D

D

**DESCRIPTION**

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**DATA**

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CM44

Set the function of ACD Calling Waiting  
Indication to the PGD(2)-U10 ADP.

- Y=00
- (1) XX Y  
XX: 00-31: Relay Group No.  
Y : 0-3: Circuit No.
- (2) 14XX  
XX: 00-99: ACD Group No. assigned by  
CM17

Associate the PGD(2)-U10 station number  
with the Relay Group number.

- Y=01
- (1) 00-31: Relay Group No.
- (2) X-XXXXXXXX: PGD(2)-U10 Station No.  
NONE◀ : No data

END

## DELAY ANNOUNCEMENT-ACD

[For North America/EMEA]

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Voice Response System Access to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Voice Response System Access in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=033</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM17	Specify the pattern of message sent to each ACD group periodically.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) X-XXXXXXXX: Pilot Station No. of ACD group</li> <li>(2) 0 : To send periodically 1◀: To send only once</li> </ul>
	<p>Select the ACD group for Delay Announcement (for Incoming Trunk call)/Overflow Announcement.</p> <p><b>NOTE 1:</b> Set this data when sharing a VRS assigned by CM49 Y=00: 0B0XX/11XX/12XX with multiple ACD groups and using VRS other than own group number.</p> <p><b>NOTE 2:</b> Set this data for the pilot station (assigned by CM17 Y=1).</p>	<ul style="list-style-type: none"> <li>• Y=C</li> <li>(1) X-XXXXXXXX: Pilot Station No. of ACD group</li> <li>(2) 00-99 : Use VRS of ACD group number 00-99 NONE◀: Use VRS of own ACD Group (CM17 Y=2)</li> </ul>
CM41	If the data for CM17 Y=A is “0”, set the interval time for ACD Delay Announcement.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 47</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
A		

A	DESCRIPTION	DATA
CM41	Specify the maximum ACD call waiting time before answer or abandonment for ACD PEG Count, and waiting time before ACD Delay Announcement.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 16</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
CM49	Assign the ACD Delay Announcement function to the required Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 0B0XX XX: 00-99: ACD Group No.</li> </ul>
CM51	When transferring the call to a station or Attendant after the 1st interval time of ACD Delay Announcement, assign the destination.  <b>NOTE:</b> <i>This is a separate feature called "Delay Overflow". ACD Delay Announcement is required in order for this feature to work.</i>	<ul style="list-style-type: none"> <li>• Y=17</li> <li>(1) 00-63: Tenant No.</li> <li>(2) Destination: X-XXXXXXXX: Station No. E000 : Attendant Console</li> </ul>
CM20	To record, replay and delete a message, assign the Voice Response System access code, respectively.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access code</li> <li>(2) A100: Record A101: Replay A102: Delete</li> </ul>
CM08	Specify a diversion display on a Multiline Terminal or Attendant Console when transferring an ACD call.	<ul style="list-style-type: none"> <li>(1) 357</li> <li>(2) 0 : Available 1◀: Not available</li> </ul>
<u>END</u>		

When sending the ACD second delay announcement:

START	DESCRIPTION	DATA
START   [CM08]	Provide the system with Busy Tone Connection for processing when all ACD stations are busy.	(1) 212 (2) 0: Busy Tone Connection
 [CM17]	Specify the pattern of message sent to each ACD group periodically.	<ul style="list-style-type: none"> <li>• Y=A</li> </ul> (1) X-XXXXXXXX: Pilot station number of ACD group (2) 0: To send periodically
 [CM41]	Set the interval time of ACD Delay Announcement.	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> (1) 47 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
 [CM49]	Specify the maximum ACD call waiting time for ACD PEG Count, and waiting time before ACD Delay Announcement.	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> (1) 16 (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
 [CM49]	Assign the ACD Delay Announcement function to the required Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) 000-015: VRS No. (2) 11XX: Second Announcement of ACD Delay Announcement XX: 00-99: ACD Group No.
 END		



## HUNT PAST NO ANSWER-ACD

[For North America/EMEA]

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### PROGRAMMING

Refer to CALL FORWARDING-NO ANSWER. [📄 Page 1-130](#)

## IMMEDIATE OVERFLOW-ACD

[For North America/EMEA]

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### PROGRAMMING

Refer to CALL FORWARDING-BUSY LINE. [📄 Page 1-127](#)

## PRIORITY QUEUING-ACD

[For North America/EMEA]

### PROGRAMMING

To provide Priority Queuing per trunk route:

START	DESCRIPTION	DATA
CM35	Provide Priority Queuing per trunk route.	<ul style="list-style-type: none"> <li>• Y=060</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
END		

To provide Priority Queuing per DID incoming LDN:

START	DESCRIPTION	DATA
CM35	Provide DID digit conversion to the trunk route number.	<ul style="list-style-type: none"> <li>• Y=018</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
	Provide Priority Queuing per trunk route.	<ul style="list-style-type: none"> <li>• Y=060</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
CM76	Provide the Number Conversion Block number for Development Table 0.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXX: DID No.</li> <li>(2) 000-999 : Number Conversion Block No. NONE◀: No data</li> </ul>
	Provide Priority Queuing per DID incoming LDN.	<ul style="list-style-type: none"> <li>• Y=11</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00</li> <li>(2) 1◀: To provide</li> </ul>
END		

## QUEUE SIZE CONTROL-ACD

[For North America/EMEA]

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### PROGRAMMING

Refer to AUTOMATIC CALL DISTRIBUTION (ACD). [📄 Page 1-73](#)

## SILENT MONITOR-ACD

[For North America/EMEA]

### PROGRAMMING

To monitor an ACD call, with or without warning tone:

**NOTE:** *Monitoring telephone conversations may be illegal under certain circumstances and laws. Consult a legal advisor before implementing the monitoring of telephone conversations. Some federal and state laws require a party monitoring a telephone conversation to use beep-tones, to notify all parties to the telephone conversation, and/or obtain consent from all parties to the telephone conversation. Some of these laws provide strict penalties for illegal monitoring of telephone conversations.*

START	DESCRIPTION	DATA
CM08	Specify the warning tone sent to connected stations when monitoring a station-to-station or station-to-trunk call.  Specify whether the warning tone is sent to the outside party when a station monitor is on.	(1) 259 (2) 0 : Not sent 1 ◀: To send (only once)  (1) 076 (2) 0 : To send 1 ◀: Not sent
CM12	Assign Service Restriction Class A for monitoring stations.	<ul style="list-style-type: none"> <li>Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow monitoring stations in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=103</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1 ◀: Allow
CM12	Assign Service Restriction Class A for monitored stations.	<ul style="list-style-type: none"> <li>Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
A		

A	DESCRIPTION	DATA
CM15	Allow being monitored in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=104</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for monitoring, if required.	<ul style="list-style-type: none"> <li>• Y=0-3 Number Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A033: Monitor</li> </ul>
CM90	Assign a monitoring function key to the Multi-line Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F0033: Monitoring</li> </ul>
CM08	Specify the action of monitoring station after the hold/hooks key is pressed in the monitored station or the monitored station becomes idle.	<ul style="list-style-type: none"> <li>(1) 560</li> <li>(2) 0 : Keep monitoring</li> <li style="padding-left: 20px;">1◀: Stop monitoring</li> </ul>
CM48	<p>When setting the second data of CM08&gt;560 to 0 (keep monitoring), set the music for Hold Tone that is sent to monitoring station.</p> <p><b>NOTE:</b> <i>This data setting is effective only for Single Line Telephone/Digital Multiline Terminal.</i> <i>For IP Station, this data setting is not effective. IP Station uses the tone source in IP Adapter (Minuet).</i></p>	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 01</li> <li>(2) 00 : Nocturne</li> <li style="padding-left: 20px;">01 : Minuet</li> <li style="padding-left: 20px;">02 : Fur Elise</li> <li style="padding-left: 20px;">03 : The Maiden's Prayer</li> <li style="padding-left: 20px;">04 : When the saints go marching in</li> <li style="padding-left: 20px;">06 : Spring (by four seasons)</li> <li style="padding-left: 20px;">08 : Ich bin ein Musikante (German folk song)</li> <li style="padding-left: 20px;">10 : Amaryllis (French folk song)</li> <li>NONE◀: Minuet</li> </ul>
	Define the type of call to be provided with Hold Tone on the CPU blade.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 02: Internal Call</li> <li>(2) 1400: Hold Tone Source on CPU blade</li> </ul>
<u>END</u>		

## **HARDWARE REQUIRED**

To provide the delay announcement for ACD:  
CPU blade (VRS using a built-in Flash ROM)

To provide the external Call Waiting Indicator:  
CPU blade (with built-in External Equipment Interface)  
External Indicator

Requirement for External Indicator  
Control Method: Ground/Battery (Maximum 125 mA)  
Type: Visual and/or Audible type with volume control

## ***AUTOMATIC CALL DISTRIBUTION (ACD) WITH MANAGEMENT INFORMATION SYSTEM (MIS)***

**NOTE:** *Additional programming is required for MIS, once ACD has been programmed. Refer to the CallCenterWorX System Manual. If you use the CallCenterWorX, the maximum digit of a station number must be 5 digits.*



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## ***AUTOMATIC CAMP-ON***

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### **PROGRAMMING**

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
CM08	Specify the Camp-On Tone pattern.	(1) 068 (2) 0 : Send out only once 1◀: Repeat at 4 second intervals
CM30	Assign Automatic Camp-On to the required DIT trunks.	<ul style="list-style-type: none"> <li>• Y=13 In Day Mode</li> <li>• Y=14 In Night Mode</li> </ul> (1) 000-511: Trunk No. (2) 06: Automatic Camp-On
<u>END</u>		

# AUTOMATIC CHANGE TO DAYLIGHT SAVING TIME

## PROGRAMMING

START	DESCRIPTION	DATA
CM43	<p>Specify the automatic change time of the system clock from standard time to daylight-saving time (for change pattern 0).</p> <p><b>NOTE:</b> <i>The change of system clock is executed at 2:00 am (in standard time) of the specified day.</i></p>	<ul style="list-style-type: none"> <li>• Y=8</li> <li>(1) 00</li> <li>(2) MM W D                             <ul style="list-style-type: none"> <li>MM: 01-12 (Change Month)</li> <li>W: 1-4/9 (Change Week)                                     <ul style="list-style-type: none"> <li>1-4: First-Fourth Week</li> <li>9 : Final Week</li> </ul> </li> <li>D : 0-6 (Change Day of the week)                                     <ul style="list-style-type: none"> <li>0: Sunday</li> <li>1: Monday</li> <li>2: Tuesday</li> <li>3: Wednesday</li> <li>4: Thursday</li> <li>5: Friday</li> <li>6: Saturday</li> </ul> </li> </ul> </li> <li>NONE◀: Automatic clock change is not provided</li> </ul>
	<p>Specify the automatic change time of the system clock from daylight-saving time to standard time (for change pattern 0).</p> <p><b>NOTE:</b> <i>The change of system clock is executed at 3:00 am (in daylight-saving time) of the specified day.</i></p>	<ul style="list-style-type: none"> <li>• Y=8</li> <li>(1) 01</li> <li>(2) MM W D                             <ul style="list-style-type: none"> <li>MM: 01-12 (Change Month)</li> <li>W: 1-4/9 (Change Week)                                     <ul style="list-style-type: none"> <li>1-4: First-Fourth Week</li> <li>9 : Final Week</li> </ul> </li> <li>D : 0-6 (Change Day of the week)                                     <ul style="list-style-type: none"> <li>0: Sunday</li> <li>1: Monday</li> <li>2: Tuesday</li> <li>3: Wednesday</li> <li>4: Thursday</li> <li>5: Friday</li> <li>6: Saturday</li> </ul> </li> </ul> </li> <li>NONE◀: Automatic clock change is not provided</li> </ul>



A

CM43

**DESCRIPTION**

**DATA**

Specify the automatic change time of the system clock from standard time to daylight-saving time (for change pattern 1).

**NOTE:** *The change of system clock is executed at 2:00 am (in standard time) of the specified day.*

Specify the automatic change time of the system clock from daylight-saving time to standard time (for change pattern 1).

**NOTE:** *The change of system clock is executed at 3:00 am (in daylight-saving time) of the specified day.*

- Y=8
- (1) 04
- (2) MM W D
  - MM: 01-12 (Change Month)
  - W: 1-4/9 (Change Week)
    - 1-4: First-Fourth Week
    - 9 : Final Week
  - D : 0-6 (Change Day of the week)
    - 0: Sunday
    - 1: Monday
    - 2: Tuesday
    - 3: Wednesday
    - 4: Thursday
    - 5: Friday
    - 6: Saturday
- NONE◀: Automatic clock change is not provided

- Y=8
- (1) 05
- (2) MM W D
  - MM: 01-12 (Change Month)
  - W: 1-4/9 (Change Week)
    - 1-4: First-Fourth Week
    - 9 : Final Week
  - D : 0-6 (Change Day of the week)
    - 0: Sunday
    - 1: Monday
    - 2: Tuesday
    - 3: Wednesday
    - 4: Thursday
    - 5: Friday
    - 6: Saturday
- NONE◀: Automatic clock change is not provided

B

B

**DESCRIPTION**

**DATA**

CM67

Assign the automatic clock change pattern to each location number.

- Y=31
- (1) 00-63: Location No.
- (2) 0 : Change Pattern 0 (assigned by CM43 Y=8>00/01)
- 1 : Change Pattern 1 (assigned by CM43 Y=8>04/05)
- NONE◀: Automatic clock change is not provided

Set the daylight-saving time to each location.

**NOTE:** *Usually do not set this command by PCPro/CAT. This command is set automatically when automatic system clock change has been executed by CM43 Y=8/CM67 Y=31. If the system power is off at the time for clock change, set this data.*

- Y=30
- (1) 00-63: Location No.
- (2) 0 : To operate with Daylight-Saving Time
- NONE◀: To operate with Standard Time

CM08

Specify the system clock used for the SMDR output of outgoing/incoming call.

- (1) 836
- (2) 0 : System clock of the unit that the seized trunk is accommodated (for outgoing call)/System clock of unit that the terminated trunk is accommodated (for outgoing call)
- 1◀: System clock of Main Unit

Specify the system clock used for the SMDR output of station to station call.

- (1) 837
- (2) 0 : System clock of the unit that the seized trunk/calling station is accommodated
- 1◀: System clock of Main Unit

END

To read the system clock which the automatic clock change was executed (for change pattern 0/change pattern 1):

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CM43</div>	Read the system clock which the automatic clock change was executed from standard time to daylight-saving time (for change pattern 0).	<ul style="list-style-type: none"> <li>• Y=8</li> <li>(1) 02</li> <li>(2) YYYY MM DD                          YYYY : 2014-2099 (Year)                          MM : 01-12 (Month)                          DD : 01-31 (Date)                          NONE◀: Automatic clock change has not been executed</li> </ul>
	Read the system clock which the automatic clock change was executed from daylight-saving time to standard time (for change pattern 0).	<ul style="list-style-type: none"> <li>• Y=8</li> <li>(1) 03</li> <li>(2) YYYY MM DD                          YYYY : 2014-2099 (Year)                          MM : 01-12 (Month)                          DD : 01-31 (Date)                          NONE◀: Automatic clock change has not been executed</li> </ul>
	Read the system clock which the automatic clock change was executed from standard time to daylight-saving time (for change pattern 1).	<ul style="list-style-type: none"> <li>• Y=8</li> <li>(1) 06</li> <li>(2) YYYY MM DD                          YYYY : 2014-2099 (Year)                          MM : 01-12 (Month)                          DD : 01-31 (Date)                          NONE◀: Automatic clock change has not been executed</li> </ul>
	Read the system clock which the automatic clock change was executed from daylight-saving time to standard time (for change pattern 1).	<ul style="list-style-type: none"> <li>• Y=8</li> <li>(1) 07</li> <li>(2) YYYY MM DD                          YYYY : 2014-2099 (Year)                          MM : 01-12 (Month)                          DD : 01-31 (Date)                          NONE◀: Automatic clock change has not been executed</li> </ul>
<u>END</u>		

To read out of daylight-saving time of Main Unit:

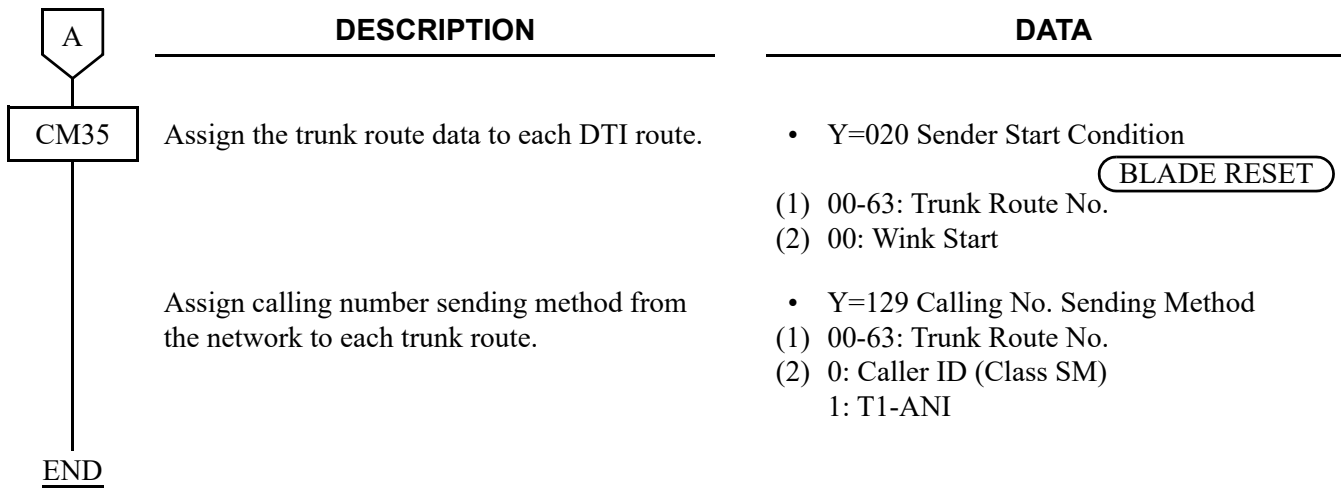
START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CM02</div>	Read out of daylight-saving time of Main Unit.	(1) 3 (2) HH MM SS HH : 00-23 (Hour) MM: 00-59 (Minute) SS : 00-59 (Second)
<u>END</u>		

# ***AUTOMATIC NUMBER IDENTIFICATION (ANI)*** **[For North America]**

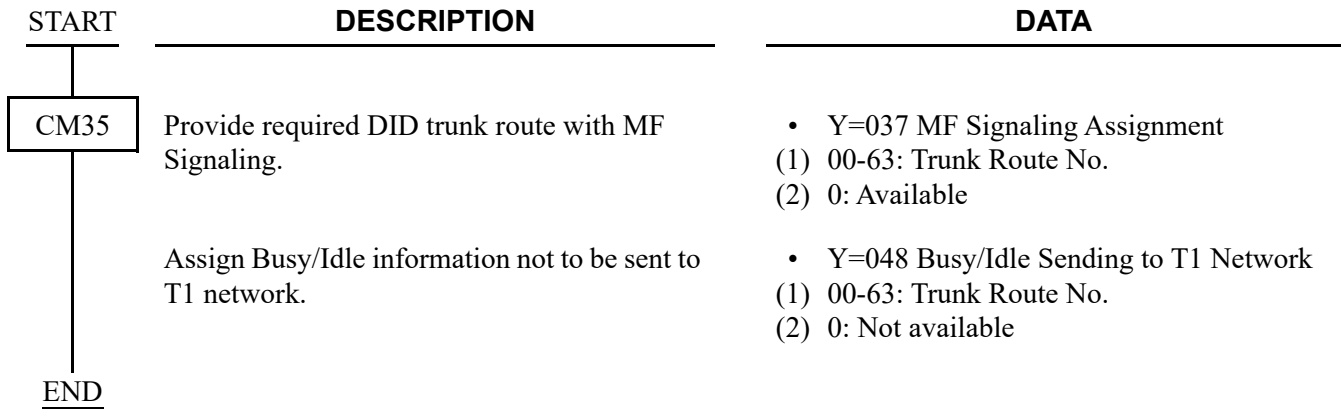
## **PROGRAMMING**

### (1) DTI Assignment for ANI

START	DESCRIPTION	DATA
CM30	Assign a trunk route number to each DTI. <div style="text-align: right; border: 1px solid black; border-radius: 10px; padding: 2px;">BLADE RESET</div> Specify the Terminating System in Day Mode, Night Mode, Mode A and Mode B for incoming calls.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00-63: Trunk Route No.</li>   <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 31◀: DID, Tie line and any call which is not handled by the PBX</li> </ul>
CM35	Assign the trunk route data to each DTI route.	<ul style="list-style-type: none"> <li>• Y=000 Kind of trunk route</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00: DDD (C.O./DID), ISDN trunk</li>   <li>• Y=004 Answer signal from distant office</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 2: Answer signal arrives</li>   <li>• Y=005 Release signal from distant office</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li>   <li>• Y=009 Incoming connection signaling</li> <li style="text-align: right;"><div style="border: 1px solid black; border-radius: 10px; padding: 2px;">BLADE RESET</div></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 03: Wink Start</li>   <li>• Y=010 2nd DT sending on call termination</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: 2nd Dial Tone is not sent</li> </ul>
A		



(2) MF Signaling Assignment





(3) ANI Assignment

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM31</div> <div style="border: 1px solid black; width: 10px; height: 10px; margin: 0 auto; text-align: center; line-height: 10px;">A</div>	<p>Assign the Signal Pattern received from T1 network.</p>	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 00: Signal Pattern from T1 Network <b>NOTE</b></li> <li>(2) 02 : ANI</li> <li>NONE◀: ANI + Called No.</li> </ul>
	<p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• <i>When the signal pattern from T1 network is FGD format: Assign the data to "NONE".</i></li> <li>• <i>When the signal pattern from T1 network is ANI format: Assign the data to "02".</i></li> </ul>	
	<p>Assign the number of digits of Called Number received from T1 network.</p>	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) 2: Number of Digits of Called No.</li> <li>(2) 01-31 : 1-31 digits</li> <li>NONE◀: No data</li> </ul>
	<p>Assign the signal kind of Called Number sent from T1 network.</p>	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 17: Signal Kind of Called No. <b>NOTE</b></li> <li>(2) 0 : DP</li> <li>1◀: DTMF</li> </ul>
	<p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• <i>When the signal pattern from T1 network is FGD format: Assign the data to "1".</i></li> <li>• <i>When the signal pattern from T1 network is ANI format: Assign the data to "0".</i></li> </ul>	
<p>Assign the ACK-WINK Signal to be sent to the DTI when the signal kind of Called from T1 network is MF Signal.</p>	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 16: Sending of ACK-WINK Signal on Receiving MF Signal <b>NOTE</b></li> <li>(2) 0 : To send</li> <li>1◀: Not sent</li> </ul>	
<p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• <i>When the signal pattern from T1 network is FGD format: Assign the data to "0".</i></li> <li>• <i>When the signal pattern from T1 network is ANI format: Assign the data to "1".</i></li> </ul>		

A	DESCRIPTION	DATA
CM31	<p>Assign the ACK-WINK Signal to be sent to the DTI when the signal kind of called number received from T1 network is DP Signal.</p> <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• When the signal pattern from T1 network is FGD format: Assign the data to "1".</li> <li>• When the signal pattern from T1 network is ANI format: Assign the data to "0".</li> </ul>	<ul style="list-style-type: none"> <li>• Y=A</li> </ul> <ol style="list-style-type: none"> <li>(1) 18: Sending of ACK-WINK Signal on Receiving DP Signal <b>NOTE</b></li> <li>(2) 0 : To send 1◀: Not sent</li> </ol>
	<p>Assign the number of digits to be deleted from ANI, if required.</p> <p>&lt; An example of FGD Format &gt;</p>	<ul style="list-style-type: none"> <li>• Y=A</li> </ul> <ol style="list-style-type: none"> <li>(1) 14: Number of Deleting Digits from ANI</li> <li>(2) 00 : No digit deletion 01-10: Leading 1-10 digits deletion 15◀ : No digit deletion</li> </ol>
	<div style="border: 1px solid black; padding: 5px;"> <p>Received digits: Key Pulse + <u>XX</u> + <u>1234567890</u> + Stop Pulse</p> <p style="margin-left: 100px;">                      </p> <p style="margin-left: 100px;">Information digits (2 digits)      ANI (10 digits)</p> <p style="margin-left: 100px;">↓</p> <ul style="list-style-type: none"> <li>• 2 digits deletion</li> <li>• Identification on the terminal: 10 digits (ANI)</li> </ul> </div>	
CM08	<p>Assign whether ANI is sent to the OAI terminal or not.</p> <p>Assign whether ANI is sent to the SMDR terminal or not.</p>	<ol style="list-style-type: none"> <li>(1) 462: Sending ANI to OAI terminal</li> <li>(2) 0 : To send 1◀: Not sent</li> </ol> <ol style="list-style-type: none"> <li>(1) 463: Sending ANI to SMDR terminal</li> <li>(2) 0 : To send 1◀: Not sent</li> </ol>
END		

When the signal pattern of the called number sent from T1 network is as shown below, Signal pattern: Called Number=NPA + NNX + Called Station Number do the following programming, if required.

START	DESCRIPTION	DATA
CM35	Assign the Digit Addition/Deletion on tie line incoming calls.	<ul style="list-style-type: none"> <li>• Y=017 Digit Addition/Deletion Assignment</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00-09: “0” add -“9” add                             <ul style="list-style-type: none"> <li>10 : 2-digit addition (CM50 Y=00&gt;0)</li> <li>11 : 1 digit deletion</li> <li>12 : 2 digits deletion</li> <li>15◀ : Addition/deletion is not performed</li> </ul> </li> </ul>
CM20	Assign the access code for LCR Group 0-3.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A126: LCR Group 0</li> <li style="padding-left: 20px;">A127: LCR Group 1</li> <li style="padding-left: 20px;">A128: LCR Group 2</li> <li style="padding-left: 20px;">A129: LCR Group 3</li> </ul>
CM8A	Assign an area code for Intra-Office Termination.	<ul style="list-style-type: none"> <li>• Y=4005-4007 Area Code Development No. 5-7</li> <li>(1) X-XXXXXXXX: Area Code, 1-8 digits</li> <li>(2) 8000: Intra-Office Termination</li> </ul>
END		

**NOTE:** FGD format and ANI format are:

SIGNAL PATTERN	CALLED NUMBER	ANI
FGD format	MF Signal	MF Signal
ANI format	DP Signal	MF Signal

## HARDWARE REQUIRED

DTI blade

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## ***AUTOMATIC RECALL***

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### **PROGRAMMING**

START	DESCRIPTION	DATA
CM41	Specify the timing for Automatic Recall.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00: Attendant Recall</li> <li>(2) 01-14: 2.4-33.6 seconds (2.4 second increments) 15-24: 38.4-124.8 seconds (9.6 second increments) If no data is set, the default setting is 31.2-33.6 seconds. If no data is set, the default setting is 31.2-33.6 seconds.</li> <li>(1) 11: Attendant Hold Recall</li> <li>(2) 01-14: 2.4-33.6 seconds (2.4 second increments) 15-24: 38.4-124.8 seconds (9.6 second increments) If no data is set, the default setting is 31.2-33.6 seconds.</li> <li>(1) 26: Camp-On Recall</li> <li>(2) 01-15: 16-128 seconds (8 second increments) If no data is set, the default setting is 24-32 seconds.</li> </ul>
<u>END</u>		

# BOSS/SECRETARY CALLING

## PROGRAMMING

To set up the Secretary station with the Multiline Terminal:

START	DESCRIPTION	DATA
CM13	<p>Assign the Secretary station to the required station number.</p> <p>If the Boss station is a Single Line Telephone with MW lamp, provide the Message Waiting service to the Boss station.</p>	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) X-XXXXXXXX: My Line No. of Secretary</li> <li>(2) 0: Secretary station</li> </ul> <ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXX: Boss Station No.</li> <li>(2) 0: To provide</li> </ul>
CM90	<p>Assign the Boss line key as a Secondary Extension line to the Secretary's Multiline Terminal.</p> <p>Assign the MW SET/MW RESET keys to the Secretary's Multiline Terminal, if required.</p> <p>If the Boss station is a Multiline Terminal, assign a MW Lamp to the Boss' Multiline Terminal.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. of Secretary + <input type="text"/> + Key No.</li> <li>(2) X-XXXXXXXX: Boss Station No. /Boss My Line No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. of Secretary + <input type="text"/> + Key No.</li> <li>(2) F0040: MW Set F0041: MW Reset</li> </ul> <ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. of Boss + <input type="text"/> + Key No.</li> <li>(2) F1005: MW Lamp</li> </ul>
CM20	<p>Assign the access code for MW Set/MW Reset to the secretary's Multiline Terminal, if required.</p>	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A040: MW Set A041: MW Reset</li> </ul>
CM08	<p>Assign whether to delete Call History-No Answer/Message Waiting irrespective of the station answering when calling back to the Call History-No Answer or the Message Waiting.</p> <p>Specify the MW lamp indication pattern for Multiline Terminal.</p>	<ul style="list-style-type: none"> <li>(1) 234</li> <li>(2) 0 : To delete 1◀: Not delete (To delete only when answering)</li> </ul> <ul style="list-style-type: none"> <li>(1) 294</li> <li>(2) 0 : Flashing (60 IPM) 1◀: Steady lighting</li> </ul>
A		

A	DESCRIPTION	DATA
CM51	Assign the destination of the call from the Boss station to which Message Waiting has been set.	<ul style="list-style-type: none"> <li>• Y=15</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXXXX: Secretary Station No.</li> </ul>
CM12	To provide Boss/Secretary Override, assign Service Restriction Class A for Call Waiting to the Secretary station.	<p>For Secretary Station:</p> <ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call waiting to the Secretary station in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=043 Calling Side</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM12	To provide Boss/Secretary Override, assign Service Restriction Class A for Call Waiting to the Boss station.	<p>For Boss Station:</p> <ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call waiting to the Boss station in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=044 Called Side</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
<u>END</u>		

To assign the Boss station as a Single Line Telephone:

START	DESCRIPTION	DATA
CM12	Specify whether to accommodate the Boss line to the Secretary Sub line.	<ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) X-XXXXXXXX: Boss Station No.</li> <li>(2) 0 : Accommodated</li> <li>1◀: Not accommodated</li> </ul>
CM13	Specify whether to send ringing signal to the Boss station.	<ul style="list-style-type: none"> <li>• Y=08</li> <li>(1) X-XXXXXXXX: Boss Station No.</li> <li>(2) 0 : Not sent</li> <li>1◀: To send</li> </ul>
END		

## HARDWARE REQUIRED

Multiline Terminal and DLC blade

## ***BROKER'S CALL***

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### **PROGRAMMING**

Refer to CALL HOLD. [☞ Page 1-428](#)



# CALL BACK

## PROGRAMMING

START	DESCRIPTION	DATA
CM08	<p>Provide the system with the Single Digit Feature Access Code while the calling station hears ringback tone/busy tone.</p> <p>To activate the Single Digit Feature Access Code, set CM08&gt;050, 051, 069 and 148 to "1".</p>	<p>(1) 156: Ringback Tone (2) 0: Available</p> <p>(1) 208: Busy Tone (2) 0: Available</p> <p>(1) 050: * button as Switch Hook Flash (2) 1◀: Ineffective</p> <p>(1) 051: # button as Switch Hook Flash (2) 1◀: Ineffective</p> <p>(1) 069: Single Digit Dialing on BT Connection (2) 1◀: Step Call</p> <p>(1) 148: Same Last Digit Redialing on BT Connection (2) 1◀: Ineffective</p> <p><b>NOTE 1:</b> A single digit access code "2" is fixedly assigned to this feature.</p> <p><b>NOTE 2:</b> While the calling Multiline Terminal, DP or DTMF telephone is holding the other call, the single digit access code "2" is not available.</p> <p><b>NOTE 3:</b> From a DTMF telephone a hooking operation is required before dialing the single digit access code.</p>
CM12	Assign Service Restriction Class A to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
A		

A	DESCRIPTION	DATA
CM15	Allow Call Back in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=003</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
	Allow Call Back-Multiple Assignment in the Service Restriction Class A assigned by CM12 Y=02, if required.	<ul style="list-style-type: none"> <li>• Y=046</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Outgoing Trunk Queuing/Call Back.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A004: Outgoing Trunk Queuing/Call Back Set A005: Outgoing Trunk Queuing/Call Back Cancel</li> </ul>
CM90	Assign a Call Back key to the Multiline Terminals, as required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0004: Outgoing Trunk Queuing/Call Back</li> </ul>
<u>END</u>		

## HARDWARE REQUIRED

Multiline Terminal and DLC blade if required

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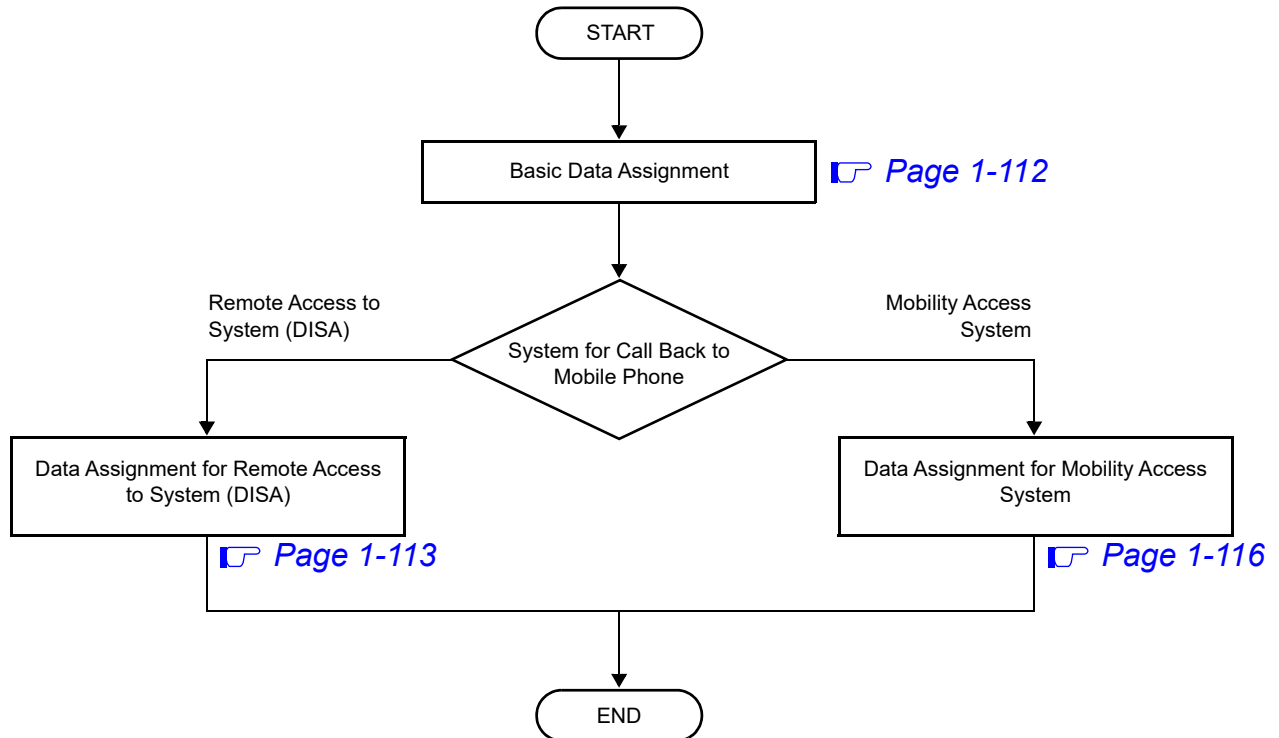
# CALL BACK TO MOBILE PHONE

[9300V3 software required]

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## PROGRAMMING

### Programming Summary for Call Back to Mobile Phone



- Basic Data Assignment

START	DESCRIPTION	DATA
CM10	Assign the station number for callback origination.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 0000-1535: Virtual Port No.</li> <li>(2) FX-FXXXXXXXXX: IP Station No. X: 0-9, A (*), B (#)</li> </ul>
CM13	Select the Call Back Mobile Phone station to the station number assigned by CM10 Y=01.	<ul style="list-style-type: none"> <li>• Y=86</li> <li>(1) X-XXXXXXXXXX: Station No.</li> <li>(2) 0 : For Call Back Mobile Phone 1◀: Not for Call Back Mobile Phone</li> </ul> <p><b>NOTE 1:</b> For a callback station, assign only one station in a system.</p> <p><b>NOTE 2:</b> Every user cannot use a Call Back Mobile Phone station as an ordinary station.</p> <p><b>NOTE 3:</b> The system capacity license (port key) is not required for a Call Back Mobile Phone station.</p>
CM41	Assign the time to be effective Call Back Mobile Phone.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 215</li> <li>(2) 01 : 0.5-4 seconds 02-08: 4-8 seconds to 28-32 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 4-8 seconds.</p> <p><b>NOTE 1:</b> Set the timer value of this command shorter than the time before answering by Automated Attendant (assigned by CM41 Y=0&gt;59).</p> <p><b>NOTE 2:</b> Call Back to Mobile Phone is executed when calling to the system and disconnecting the call within the setting time of this command.</p>
	Assign the time to wait Call Back Mobile Phone execution.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 219</li> <li>(2) 00 : 0 second 01-10: 1-10 seconds (1 second increments)</li> </ul> <p>If no data is set, the default setting is 1 second.</p> <p><b>NOTE:</b> For normal operation, remain at the default setting because changing this data is not required. Depending on the conditions of Mobile Phone and a network side, there is a case that the system does not callback to Mobile Phone due to take time until call termination becomes available after disconnection operation by Mobile Phone. In this case, adjust the time by this command.</p>
END		

• Data Assignment for Remote Access to System (DISA)

To provide Call Back to Mobile Phone feature using Remote Access to System (DISA), do the following programming.

(1) Data Assignment for Terminating System

(a) When the terminating system is Ring Down, do the following programming in addition to the Ring Down settings. [☞ Page 1-914](#)

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM35</div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 200px; margin-left: 5px;"></div> <div style="text-align: right; margin-right: 5px;"><u>END</u></div>	<p>Specify whether to provide Call Back to Mobile Phone on a Ring Down call.</p> <p>Specify whether the calling party number is used as the ID Code for Remote Access to System (DISA) on a Ring Down call.</p> <p><b>NOTE:</b> <i>Set the second data to 0 (Available) when abbreviating the ID Code input.</i></p>	<ul style="list-style-type: none"> <li>• Y=361</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : To provide 1 ◀: Not provided</li> </ul> <ul style="list-style-type: none"> <li>• Y=155</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Available 1 ◀: Not available</li> </ul>

(b) When the terminating system is Dial-In, do the following programming in addition to the Dial-In service settings. [☞ Page 1-915](#)

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM76</div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 200px; margin-left: 5px;"></div> <div style="text-align: right; margin-right: 5px;"><u>END</u></div>	<p>Specify whether to provide Call Back to Mobile Phone on a DID call.</p> <p>Specify whether the calling party number is used as the ID Code for Remote Access to System (DISA) on a DID call.</p> <p><b>NOTE:</b> <i>Set the second data to 0 (Available) when abbreviating the ID Code input.</i></p>	<ul style="list-style-type: none"> <li>• Y=74</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 0 : To provide 1 ◀: As per CM35 Y=361</li> </ul> <ul style="list-style-type: none"> <li>• Y=14</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 0 : Available 1 ◀: Not available</li> </ul>

(2) Data Assignment for Trunk Access Code at Call Back

(a) When the incoming trunk is ISDN, do the following programming.

A	DESCRIPTION	DATA
CM35	Assign a trunk access code to be added to the calling number when storing call histories.	<ul style="list-style-type: none"> <li>• Y=189</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) X-XX: Trunk Access Code to be added X: 0-9, A (*), B (#)</li> </ul>
	<p><b>NOTE:</b> <i>The trunk access code of this command is used for the following services.</i></p> <ul style="list-style-type: none"> <li>- Voice Mail transfer</li> <li>- Live recording</li> <li>- Call origination by ISDN trunk key</li> <li>- Call termination to a Caller ID station</li> <li>- Call termination to a Standard SIP Terminal</li> </ul>	
END		

(b) When the incoming trunk is a SIP trunk, do the following programming.

A	DESCRIPTION	DATA
CM35	Assign the pattern number to be added to the calling number stored in the call history.	<ul style="list-style-type: none"> <li>• Y=279</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0-7 : Pattern No. 0-7 NONE◀: No data</li> </ul>
CM50	Assign the access code for outgoing call to be added to the calling number during storing call histories.	<ul style="list-style-type: none"> <li>• Y=11</li> <li>(1) 0-7: Pattern No. 0-7 assigned by CM35 Y=279</li> <li>(2) X-XXXXXX: Access Code for outgoing call (1-6 digits) X : 0-9, A (*), B (#) NONE◀: No data</li> </ul>
END		

## (3) Data Assignment for ID Code

START	DESCRIPTION	DATA
CM08	<p>Set the processor for Remote Access to System (DISA) Code to "By PBX".</p> <p><b>NOTE:</b> <i>When OAI is not set, the meaning of second data 1 becomes "By PBX".</i></p>	<p>(1) 217  (2) 0 : By PBX  1◀: By OAI <b>NOTE</b></p>
CM42	<p>Specify the maximum number of digits for DISA Code with CPU.</p>	<p>(1) 13  (2) 01-16 : 1-16 digits  NONE◀: 16 digits</p>
CM2A	<p>Assign the ID Code Development number for DISA.</p> <p><b>NOTE:</b> <i>When a calling party dials the ID code, set the data for the first data 02. Without dialing the ID code, set the data for the first data 03.</i></p> <p>Assign the ID Code for DISA.</p> <p><b>NOTE:</b> <i>The number of digits is assigned by CM42&gt;13.</i></p> <p>Assign the valid range of ID Code for DISA.</p> <p><b>NOTE:</b> <i>Assign this command within the valid range including the Remote Access to System (DISA).</i></p> <p>Assign the desired Trunk Restriction Class for each ID Code Pattern number.</p>	<ul style="list-style-type: none"> <li>• Y=A0</li> </ul> <p>(1) 2: DISA Code  3: Automatic service setting by DISA  (2) 0-9: ID Code Development No. 00-09</p> <ul style="list-style-type: none"> <li>• Y=00-09 ID Code Development No. 00-09</li> </ul> <p>(1) X-XX...XX: ID Code for DISA (Maximum 16 digits)  (2) 0000-2999: ID Code Pattern No.</p> <ul style="list-style-type: none"> <li>• Y=10</li> </ul> <p>(1) 0000-2999: ID Code Pattern No.  (2) 0 : Authorization Code/Forced Account Code/Remote Access to System (DISA)  2 : Remote Access to System (DISA)  3◀: Invalidate ID Code</p> <ul style="list-style-type: none"> <li>• Y=11</li> </ul> <p>(1) 0000-2999: ID Code Pattern No.  (2) 1◀: Unrestricted (RCA)  2 : Non-Restricted-1 (RCB)  3 : Non-Restricted-2 (RCC)  4 : Semi-Restricted-1 (RCD)  5 : Semi-Restricted-2 (RCE)  6 : Restricted-1 (RCF)  7 : Restricted-2 (RCG)  8 : Fully-Restricted (RCH)</p>
A		

A	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM2A</div>	<p>Assign the desired Service Restriction Class A to each ID Code Pattern number.</p> <p>Assign the desired Service Restriction Class B to each ID Code Pattern number.</p> <p>Assign the desired Service Restriction Class C to each ID Code Pattern number.</p> <p>Specify whether the calling party number is used as the ID Code for Remote Access to System (DISA).</p> <p><b>NOTE:</b> <i>Set the second data to 0 (Available) when abbreviating the ID Code input.</i></p>	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class A</li> </ul> <ul style="list-style-type: none"> <li>• Y=13</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class B</li> </ul> <ul style="list-style-type: none"> <li>• Y=14</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul> <ul style="list-style-type: none"> <li>• Y=15</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul>
END		

- Data Assignment for Mobility Access System  
To provide Call Back to Mobile Phone feature using Mobility Access, do the following programming in addition to Mobility Access. [☞ Page 1-553](#)

**NOTE:** *If Mobility Access Mode is canceled, the Remote Access to System (DISA) is applied. However, in this case, it is necessary to set the system data in advance to use the ID Code. As for the ID Code settings, refer to “(3) Data Assignment for ID Code”.  
[☞ Page 1-115](#)*

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM76</div>	<p>Specify whether to provide Call Back to Mobile Phone on a DID call.</p> <p><b>NOTE:</b> <i>This command is assigned for the Number Conversion Block No. assigned by CM76 Y=41: 0.</i></p>	<ul style="list-style-type: none"> <li>• Y=74</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 0 : To provide</li> <li>1◀: As per CM35 Y=361</li> </ul>
END		



• System Data for Reading the Number of Call Back

You can read the number of Call Back to Mobile Phone succeeded or failed by each system/trunk route.

- (a) To read the number of Call Back to Mobile Phone succeeded or failed by each system/trunk route:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CMB5</div>	<p>Read the number of Call Back to Mobile Phone succeeded or failed by each system/trunk route.</p>	<ul style="list-style-type: none"> <li>• Y=000 Counter of Each System                             <ol style="list-style-type: none"> <li>(1) 3021: Number of Call Back to Mobile Phone succeeded</li> <li>3022: Number of Call Back to Mobile Phone failed</li> <li>(2) 0◀-9999999: Counter data (only display) <b>NOTE 1, NOTE 2</b></li> </ol> </li> <li>• Y=100 Counter of Each Trunk Route                             <ol style="list-style-type: none"> <li>(1) 08XX: Number of Call Back to Mobile Phone succeeded</li> <li>09XX: Number of Call Back to Mobile Phone failed</li> <li>(2) 0◀-9999999: Counter data (only display) <b>NOTE 1, NOTE 2</b></li> </ol> </li> </ul> <p><b>NOTE 1:</b> <i>When the system is reset, the counter data of this command is all cleared.</i></p> <p><b>NOTE 2:</b> <i>If the counter data exceeds 9999999, the count continues. The indication in this case, "*" is added to the start of lower 7 digits of counter data.</i></p>
END		

- (b) To clear all data of the number of Call Back to Mobile Phone succeeded and failed:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CMB5</div>	<p>Clear all data of the number of Call Back to Mobile Phone succeeded and failed.</p>	<ul style="list-style-type: none"> <li>• Y=999 Clear All PEG Data                             <ol style="list-style-type: none"> <li>(1) 9999: Clear All PEG Data</li> <li>(2) CCC: Clear</li> </ol> </li> </ul>
END		

- Call Back to Mobile Phone by Overlap Sending  
**[9300V4 software required] [For EMEA]**

For 9300V4 software or later, Call Back to Mobile Phone by Overlap Sending is available. To use this feature, do the programming of OVERLAP SENDING in addition to the programming of CALL BACK TO MOBILE PHONE. See “OVERLAP SENDING”. [📄 Page 3-93](#)

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## **HARDWARE REQUIRED**

Mobile Phone

## CALL FORWARDING

To set or reset the Call Forwarding service from a PCPro/CAT, use the following command.

START	DESCRIPTION	DATA
CME6	Use Y=00-03 for Call Forwarding and Y=04-05 for Split Call Forwarding. To reset the service, assign "CCC" to the second data of each Y No.	<ul style="list-style-type: none"> <li>• Y=00 Call Forwarding-All Calls</li> <li>• Y=01 Call Forwarding-Busy Line</li> <li>• Y=02 Call Forwarding-No Answer</li> <li>• Y=03 Call Forwarding-Busy Line/No Answer</li> </ul> <p>(1) X-XXXXXXXX: Station No.            (2) Destination No.            &lt;Destination=Extension&gt;            X-XXXXXXXX: Station No.            &lt;Destination=Outside Party&gt;            X-XXXX + [ ] + YY...Y                  X-XXXX: Outgoing Trunk/LCR Group                      Access Code (1-4 digits)                  [ ] : Separate Mark                  YY...Y : Called No. (Maximum 26 digits)            &lt;Destination=Attendant&gt;            E000: Attendant Console</p>

A

A	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CME6</div>		<ul style="list-style-type: none"> <li>• Y=04 Split Call Forwarding-ALL Calls</li> <li>• Y=05 Split Call Forwarding-Busy Line/No Answer</li> </ul> <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: Destination for Split Call Forwarding (Block 0)/ATT                             <ol style="list-style-type: none"> <li>1: Destination for Split Call Forwarding (Block 1)</li> <li>2: Destination for Split Call Forwarding (Block 2)</li> <li>3: Destination for Split Call Forwarding (Block 3)</li> <li>4: Destination for Split Call Forwarding (Block 4)</li> <li>5: Destination for Split Call Forwarding (Block 5)</li> <li>6: Destination for Split Call Forwarding (Block 6)</li> <li>7: Destination for Split Call Forwarding (Block 7)</li> <li>8: Destination for Call Forwarding</li> <li>9: Destination for Station Speed Dialing (Block 0)</li> </ol> </li> </ol>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

To read out the remaining number of Call Forwarding-Outside settings that can be registered and the Maximum number of settings, do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CMEC</div>	Confirm the remaining number of Call Forwarding-Outside settings that can be registered.	<ul style="list-style-type: none"> <li>• Y=2</li> </ul> <ol style="list-style-type: none"> <li>(1) 008</li> <li>(2) XXXX/YYYY                             <ul style="list-style-type: none"> <li>XXXX: Remaining numbers</li> <li>YYYY: Total numbers</li> </ul> </li> </ol>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

## ATTENDANT CALL FORWARDING SET-UP AND CANCEL

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### PROGRAMMING

Refer to CALL FORWARDING-ALL CALLS. [📄 Page 1-122](#)

Refer to CALL FORWARDING-BUSY LINE. [📄 Page 1-127](#)

Refer to CALL FORWARDING-NO ANSWER. [📄 Page 1-130](#)

## CALL FORWARDING-ALL CALLS

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for this feature to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Forwarding All Calls in Service Restriction Class A assigned by CM12 Y=02.  <b>NOTE:</b> <i>When providing Call Forwarding-All Calls-Outside, set "1" (Allow) for CM15 Y=000, Y=026.</i>	<ul style="list-style-type: none"> <li>Y=000 Call Forwarding-All Calls</li> <li>Y=026 Call Forwarding-All Calls-Outside</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Call Forwarding-All Calls Set and Cancel, respectively.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A010: Call Forwarding-All Calls Set A011: Call Forwarding-All Calls Cancel</li> </ul>
CM35	To apply this feature to incoming calls, set the trunk route combinations for Tandem Connection.	<ul style="list-style-type: none"> <li>Y=005</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li> </ul>
CM36		<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=005</li> <li>(2) 0: Allow</li> </ul>
A		

A	DESCRIPTION	DATA
CM08	Specify the setting method for Call Forwarding-All Calls-Outside.	(1) 222 (2) 0 : Setting when the station goes on-hook/when receiving Service Set Tone (ORT time out) 1◀: Setting when receiving Service Set Tone (ORT time out)
	Assign whether an extension can set a destination of Call Forwarding-All Calls-Outside by entering only a trunk access code.	(1) 386 (2) 0 : Restricted 1◀: Allowed
	Select the trunk route seized for Call Forwarding-All Calls-Outside.	(1) 600 (2) 0 : By calling party's tenant/terminating trunk's tenant 1◀: By Call Forwarding setting station's tenant
CM90	Assign Call Forwarding-All Calls keys to the Multiline Terminals, as required.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) My Line No. + <input type="text"/> + Key No. (2) F0010: Call Forwarding-All Calls Set/Cancel
CM65	Provide Call Forwarding-All Calls feature to each tenant as per incoming call type.	<ul style="list-style-type: none"> <li>• Y=23 Internal Call or ATT assisted Call</li> <li>• Y=24 C.O. Incoming Call</li> <li>• Y=25 Tie Line Incoming Call</li> </ul> (1) 00-63: Tenant No. (2) 1◀: Call Forwarding-All Calls
CM48	Select the Dial Tone on setting Call Forwarding-All Calls.	<ul style="list-style-type: none"> <li>• Y=2</li> </ul> (1) 13: Dial Tone on setting Call Forwarding-All Calls (2) 0 : Special Dial Tone (Stutter Dial Tone) 1◀: Dial Tone
<u>END</u>		

To provide the Preset Call Forwarding-All Calls Override by Station dialing/function key on Multiline terminal, do the following programming in addition to the programming of Call Forwarding-All Calls.

START	DESCRIPTION	DATA
CM08	Select the function to Override by preset Station dialing/Function key on Multiline terminal.	(1) 1014 (2) 0 : Do Not Disturb (DND), Call Forwarding-All Calls
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow the Preset Call Forwarding-All Calls Override.	<ul style="list-style-type: none"> <li>Y=226</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign an access code for Call Forwarding-All Calls Override.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A260: Call Forwarding-All Calls Override
CM90	Assign the Call Forwarding-All Calls Override function key on the Multiline terminal.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. + [ ] + Key No. (2) F1080: Call Forwarding-All Calls Override
	Assign the Call Forwarding-All Calls Override function keys on the DESKCON.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) DESKCON No. (E000-E007) + [ ] + Key No. (2) F6103: Wake Up/ Call Forwarding-All Calls Override F6108: Call Forwarding-All Calls Override
END		



To provide the Toll Restriction for Call Forwarding-All Calls-Outside, do the following programming in addition to the programming of Call Forwarding-All Calls (the following programming is applied to Call Forwarding-No Answer/-Busy Line/-Logout (IP Multiline Terminal)).

START	DESCRIPTION	DATA
CM12	Assign a Trunk Restriction Class to each station.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X Z: Trunk Restriction Class               <ul style="list-style-type: none"> <li>X: 1◀-8: Day Trunk Restriction Class</li> <li>Z: 1◀-8: Night Trunk Restriction Class</li> <li>1: Unrestricted (RCA)</li> <li>2: Non-Restricted 1 (RCB)</li> <li>3: Non-Restricted 2 (RCC)</li> <li>4: Semi-Restricted 1 (RCD)</li> <li>5: Semi-Restricted 2 (RCE)</li> <li>6: Restricted 1 (RCF)</li> <li>7: Restricted 2 (RCG)</li> <li>8: Fully Restricted (RCH)</li> </ul> </li> </ul>
CM8B	Assign the Toll Restriction pattern number for Call Forwarding-Outside.  <b>NOTE:</b> <i>Assign up to 8 digits number as the Forwarding destination number including access code.</i>  Specify the Toll Restriction pattern for Call Forwarding-Outside for each restriction class assigned by CM12 Y=01.	<ul style="list-style-type: none"> <li>• Y=000</li> <li>(1) X-XXXXXXXX: Forwarding Destination No.</li> <li>(2) 100-115: Toll Restriction Pattern No. 00-15 (for Call Forwarding-Outside)</li> </ul> <ul style="list-style-type: none"> <li>• Y=100-115 Toll Restriction Pattern No. 00-15 (for Call Forwarding-Outside)</li> <li>(1) Trunk Restriction Class               <ul style="list-style-type: none"> <li>1: Unrestricted (RCA)</li> <li>2: Non-Restricted 1 (RCB)</li> <li>3: Non-Restricted 2 (RCC)</li> <li>4: Semi-Restricted 1 (RCD)</li> <li>5: Semi-Restricted 2 (RCE)</li> <li>6: Restricted 1 (RCF)</li> <li>7: Restricted 2 (RCG)</li> <li>8: Fully Restricted (RCH)</li> </ul> </li> <li>(2) 0 : Restrict 3◀: Allow</li> </ul>
<u>END</u>		

**HARDWARE REQUIRED**

Multiline Terminal and DLC blade if required

## CALL FORWARDING-BUSY LINE

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for this feature to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Forwarding-Busy Line in Service Restriction Class A assigned by CM12 Y=02.  <b>NOTE:</b> <i>When providing Call Forwarding-Busy Line-Outside, set "1" (Allow) for CM15 Y=011, Y=028, Y=012, Y=029.</i>	<ul style="list-style-type: none"> <li>Y=011 Call Forwarding-Busy Line</li> <li>Y=028 Call Forwarding-Busy Line-Outside</li> <li>Y=012 Call Forwarding-Busy Line/No Answer</li> <li>Y=029 Call Forwarding-Busy Line-Outside/No Answer-Outside</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Call Forwarding-Busy Line Set and Cancel, respectively.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A012: Call Forwarding-No Answer/Busy Line Set A013: Call Forwarding-No Answer/Busy Line Cancel</li> </ul>
CM35	To apply this feature to incoming calls, set the trunk route combinations for Tandem Connection.	<ul style="list-style-type: none"> <li>Y=005</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li> </ul>
CM36		<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=005</li> <li>(2) 0: Allow</li> </ul>
CM08	Specify the setting method for Call Forwarding-Busy Line-Outside.	<ul style="list-style-type: none"> <li>(1) 222</li> <li>(2) 0 : Setting when the station goes on-hook/when receiving Service Set Tone (ORT time out) 1◀: Setting when receiving Service Set Tone (ORT time out)</li> </ul>
A		

A	DESCRIPTION	DATA
CM08	<p>Specify the operation of Call Forwarding-Busy Line for a station with Do Not Disturb set (for DID/DIT/Tie Line/Station call).</p> <p><b>NOTE:</b> <i>Regardless of this data, Do Not Disturb is available for Direct-In Termination when a Pilot station of Station Hunting group is set Do Not Disturb.</i></p> <p>Assign whether an extension can set a destination of Call Forwarding-Busy Line-Outside by entering only a trunk access code.</p> <p>Select the trunk route seized for Call Forwarding-Busy Line-Outside.</p>	<p>(1) 240 (2) 0 : Call Forwarding-Busy Line 1◀: To transfer to the another station (assigned by CM51 Y=10)</p>
CM90	<p>Assign Call Forwarding-Busy Line key to the Multiline Terminal, as required.</p>	<p>(1) 386 (2) 0 : Restricted 1◀: Allowed</p> <p>(1) 600 (2) 0 : By calling party's tenant/terminating trunk's tenant 1◀: By Call Forwarding setting station's tenant</p> <ul style="list-style-type: none"> <li>• Y=00</li> </ul> <p>(1) My Line No. + <input type="text"/> + Key No. (2) F0014: Call Forwarding-Busy Line Set/Cancel</p> <p>For setting the same key as Call Forwarding-No Answer</p> <p>(1) My Line No. + <input type="text"/> + Key No. (2) F0012: Call Forwarding-No Answer/Busy Line Set/Cancel</p>
CM65	<p>Provide Call Forwarding-Busy Line feature with each tenant as per incoming call type.</p>	<ul style="list-style-type: none"> <li>• Y=23 Internal Call or ATT assisted Call</li> <li>• Y=24 C.O. Incoming Call</li> <li>• Y=25 Tie Line Incoming Call</li> </ul> <p>(1) 00-63: Tenant No. (2) 1◀: Call Forwarding-Busy Line</p>
CM08	<p>Assign the way of call termination to the My Line while the station user makes a call with a Sub Line on a Multiline terminal.</p>	<p>(1) 593 (2) 0 : To activate the Call Forwarding that set an incoming call 1◀: As per CM08&gt;268</p>
B		

B	DESCRIPTION	DATA
CM08	Assign the way of call termination to the My Line while the station user makes a call with a Sub Line on a Multiline terminal.	(1) 268 (2) 0 : Busy Line 1◀: Station Call
<u>END</u>		

To provide the Toll Restriction for Call Forwarding-Busy Line-Outside, refer to “To provide the Toll Restriction for Call Forwarding-All Calls-Outside”. [Page 1-125](#)

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### HARDWARE REQUIRED

Multiline Terminal and DLC blade, if required

## CALL FORWARDING-NO ANSWER

### PROGRAMMING

To provide Call Forwarding-No Answer with the timer on a system basis set by PCPro/CAT, do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Forwarding-No Answer in Service Restriction Class A assigned by CM12 Y=02.  <b>NOTE:</b> <i>When providing Call Forwarding-No Answer-Outside, set "1" (Allow) for CM15 Y=010, Y=027, Y=012, Y=029.</i>	<ul style="list-style-type: none"> <li>Y=010 Call Forwarding-No Answer</li> <li>Y=027 Call Forwarding-No Answer-Outside</li> <li>Y=012 Call Forwarding-Busy Line/No Answer</li> <li>Y=029 Call Forwarding-Busy Line-Outside/No Answer-Outside</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Call Forwarding-No Answer Set and Cancel, respectively.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A012: Call Forwarding-No Answer/Busy Line Set A013: Call Forwarding-No Answer/Busy Line Cancel</li> </ul>
CM13	Specify the timing of Call Forwarding-No Answer.	<ul style="list-style-type: none"> <li>Y=46</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 0 : As per CM41 Y=0&gt;100, 101 or CME6 Y=07, 08 <b>NOTE</b> 1◀: As per CM41 Y=0&gt;01, 15</li> </ul>
	<b>NOTE:</b> <i>Call Forwarding-No Answer Timing is as follows when the second data is set as 0.</i> - When the timer for each station is set up by CME6 Y=07, 08: The timer of CME6 Y=07, 08 is effective. - When the timer for each station is not set up by CME6 Y=07, 08: The timer of CM41 Y=0>100, 101 is effective.	
A		

A	DESCRIPTION	DATA
CM41	Specify the timing of Call Forwarding-No Answer for a trunk incoming call.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 01 : Timing for a trunk incoming call 100: Timing for a trunk incoming call</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
	Specify the timing of Call Forwarding-No Answer for an internal call or an assisted call.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 15 : Timing for an internal call or an assisted call 101: Timing for an internal call or an assisted call</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
CM35	To apply this feature to incoming calls, set the trunk route combinations for Tandem Connection.	<ul style="list-style-type: none"> <li>• Y=005</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li> </ul>
CM36		<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=005</li> <li>(2) 0: Allow</li> </ul>
CM08	Specify the setting method for Call Forwarding-No Answer-Outside.	<ul style="list-style-type: none"> <li>(1) 222</li> <li>(2) 0 : Setting when the station goes on-hook/when receiving Service Set Tone (ORT time out)</li> <li>1◀: Setting when receiving Service Set Tone (ORT time out)</li> </ul>
	Assign whether an extension can set a destination of Call Forwarding-No Answer-Outside by entering only a trunk access code.	<ul style="list-style-type: none"> <li>(1) 386</li> <li>(2) 0 : Restricted</li> <li>1◀: Allowed</li> </ul>
	Select the trunk route seized for Call Forwarding-No Answer-Outside.	<ul style="list-style-type: none"> <li>(1) 600</li> <li>(2) 0 : By calling party's tenant/terminating trunk's tenant</li> <li>1◀: By Call Forwarding setting station's tenant</li> </ul>
B		

B

**DESCRIPTION**

**DATA**

CM90

Assign Call Forwarding-No Answer keys to the Multiline Terminals, as required.

- Y=00
- (1) My Line No. + [ ] + Key No.
- (2) F0016: Call Forwarding-No Answer Set/Cancel

For setting the same key as Call Forwarding-Busy Line

- (1) My Line No. + [ ] + Key No.
- (2) F0012: Call Forwarding-No Answer/Busy Line Set/Cancel

CM65

Provide Call Forwarding-No Answer feature with each tenant as per incoming call type.

- Y=23 Internal Call or ATT assisted Call
- Y=24 C.O. Incoming Call
- Y=25 Tie Line Incoming Call
- (1) 00-63: Tenant No.
- (2) 1◀: Call Forwarding-No Answer

CM08

Specify the timing of Call Forwarding-No Answer for a tie line incoming call.

- (1) 126
- (2) 0 : As per timing for internal call or an assisted call
- 1◀: As per timing for trunk incoming call

**NOTE:** *The timing for a tie line incoming call is set as following data.  
When CM08>126: 0 is set:*

◀: Default

2ND DATA OF CM13 Y=46	TIMING FOR TIE LINE INCOMING CALL
0	As per CM41 Y=0>101
1◀	As per CM41 Y=0>15

*When CM08>126: 1◀ is set:*

◀: Default

2ND DATA OF CM13 Y=46	TIMING FOR TIE LINE INCOMING CALL
0	As per CM41 Y=0>100
1◀	As per CM41 Y=0>01

END



To provide Call Forwarding-No Answer with the timer on a station basis set by PCPro/CAT, do the following programming in addition to the programming for Call Forwarding-No Answer with the timer on a system basis. [Page 1-130](#)

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM13</div>	Specify the timing of Call Forwarding-No Answer to as per CM41 Y=0>100, 101 or CME6 Y=07, 08.  <b>NOTE:</b> <i>Call Forwarding-No Answer Timing is as follows when the second data is set as 0.</i> <i>- When the timer for each station is set up by CME6 Y=07, 08: The timer of CME6 Y=07, 08 is effective.</i> <i>- When the timer for each station is not set up by CME6 Y=07, 08: The timer of CM41 Y=0&gt;100, 101 is effective.</i>	<ul style="list-style-type: none"> <li>• Y=46</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 0: As per CM41 Y=0&gt;100, 101 or CME6 Y=07, 08 <b>NOTE</b></li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CME6</div>	Specify the timing of Call Forwarding-No Answer for a trunk incoming call.  Specify the timing of Call Forwarding-No Answer for an internal call or an assisted call.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 001-120 : 1-120 seconds NONE◀: As per CM41 Y=0&gt;100</li> </ul> <ul style="list-style-type: none"> <li>• Y=08</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 001-120 : 4-120 seconds (4 second increments) NONE◀: As per CM41 Y=0&gt;101</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		

A	DESCRIPTION	DATA																
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	<p>Specify the timing of Call Forwarding-No Answer for a tie line incoming call.</p> <p><b>NOTE:</b> <i>The timing for a tie line incoming call is set as following data. When CM08&gt;126:0 is set:</i></p>	<p>(1) 126 (2) 0 : As per timing for internal call or an assisted call 1◀: As per timing for trunk incoming call</p>																
	<p><i>When CM08&gt;126:0 is set:</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">2ND DATA OF CM13 Y=46</th> <th style="width: 33%;">TIMING ON A STATION BASIS (CME6 Y=08)</th> <th style="width: 33%;">TIMING FOR TIE LINE INCOMING CALL</th> </tr> </thead> <tbody> <tr> <td rowspan="2" style="text-align: center; vertical-align: middle;">0</td> <td style="text-align: center;">Set</td> <td style="text-align: center;">As per CME6 Y=08</td> </tr> <tr> <td style="text-align: center;">Not set</td> <td style="text-align: center;">As per CM41 Y=0&gt;101</td> </tr> </tbody> </table> <p><i>When CM08&gt;126:1 ◀ is set:</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">2ND DATA OF CM13 Y=46</th> <th style="width: 33%;">TIMING ON A STATION BASIS (CME6 Y=07)</th> <th style="width: 33%;">TIMING FOR TIE LINE INCOMING CALL</th> </tr> </thead> <tbody> <tr> <td rowspan="2" style="text-align: center; vertical-align: middle;">0</td> <td style="text-align: center;">Set</td> <td style="text-align: center;">As per CME6 Y=07</td> </tr> <tr> <td style="text-align: center;">Not set</td> <td style="text-align: center;">As per CM41 Y=0&gt;100</td> </tr> </tbody> </table>	2ND DATA OF CM13 Y=46	TIMING ON A STATION BASIS (CME6 Y=08)	TIMING FOR TIE LINE INCOMING CALL	0	Set	As per CME6 Y=08	Not set	As per CM41 Y=0>101	2ND DATA OF CM13 Y=46	TIMING ON A STATION BASIS (CME6 Y=07)	TIMING FOR TIE LINE INCOMING CALL	0	Set	As per CME6 Y=07	Not set	As per CM41 Y=0>100	
2ND DATA OF CM13 Y=46	TIMING ON A STATION BASIS (CME6 Y=08)	TIMING FOR TIE LINE INCOMING CALL																
0	Set	As per CME6 Y=08																
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0	Set	As per CME6 Y=07																
	Not set	As per CM41 Y=0>100																
END																		

To provide the Toll Restriction for Call Forwarding-No Answer-Outside, refer to “To provide the Toll Restriction for Call Forwarding-All Calls-Outside”. [Page 1-125](#)

### HARDWARE REQUIRED

Multiline Terminal and DLC blade if required

## CALL FORWARDING-DESTINATION

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Forwarding-Destination in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=015</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Call Forwarding-Destination Set and Cancel, respectively.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A018: Call Forwarding-Destination Set A019: Call Forwarding-Destination Cancel</li> </ul>
CM90	Assign Call Forwarding-Destination Set/Cancel Keys to the Multiline Terminals, if required.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0018: Set F0019: Cancel</li> </ul>
END		

## CALL FORWARDING-OVERRIDE

### PROGRAMMING

To allow the Call Forwarding Destination station user to call the station which has set Call Forwarding-All Calls, no programming is required.

To allow the Call Forwarding Destination station user with Multiline Terminal Sub Line to call the station which has set Call Forwarding-All Calls to the My Line of the station, do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM08</div>	<p>Provide Call Forwarding-Override when Call Forwarding-All Calls is set to the My Line of the Multiline Terminal.</p> <p>Restrict the call termination to the My Line while the station user makes a call with the Sub Line on the Multiline Terminal.</p>	<p>(1) 509 (2) 0: Call Forwarding-Override</p> <p>(1) 268 (2) 0: Restricted</p>
END		

### HARDWARE REQUIRED

Multiline Terminal and DLC blade, if required

## MULTIPLE CALL FORWARDING-ALL CALLS/ MULTIPLE CALL FORWARDING-BUSY LINE

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### PROGRAMMING

In addition to the programming for Call Forwarding-All Calls/Busy Line, do the following programming.

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
CM42	Specify the number of calls that can be forwarded.	(1) 14 (2) 01-05 : 1-5 times NONE◀: 5 times
<u>END</u>		

## MULTIPLE CALL FORWARDING-NO ANSWER

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### PROGRAMMING

In addition to the programming for Call Forwarding-No Answer, do the following programming.

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
CM41	Specify the timing for No Answer after second Call Forwarding.	<ul style="list-style-type: none"><li>• Y=0</li><li>(1) 46</li><li>(2) 01-30: 4-120 seconds (4 second increments)</li></ul> If no data is set, the default setting is 32-36 seconds.
<u>END</u>		

## SPLIT CALL FORWARDING-ALL CALLS

### PROGRAMMING

**NOTE:** To activate Split Call Forwarding-All Calls feature, both Call Forwarding and Split Call Forwarding settings are required.

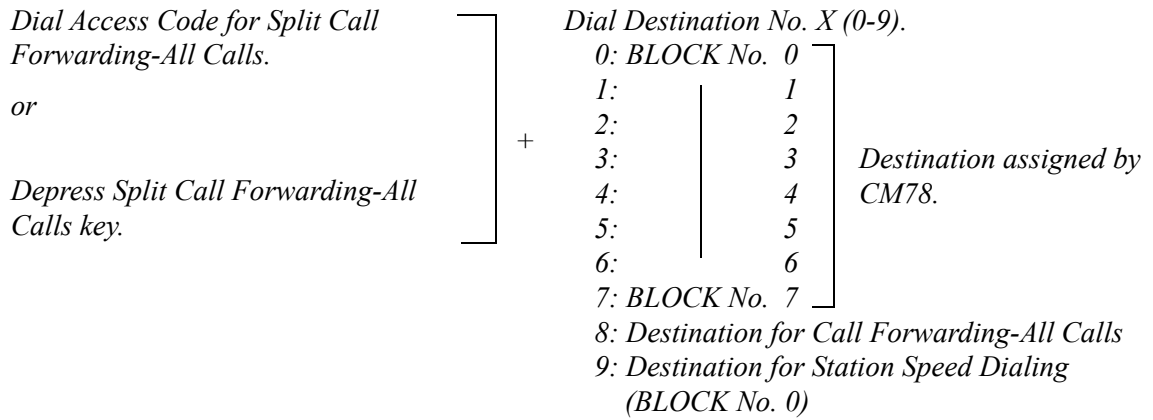
START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for this feature to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Forwarding-All Calls in Service Restriction Class A assigned by CM12 Y=02.  <b>NOTE:</b> To provide this feature, set "1" (Allow) for CM15 Y=000, Y=026.	<ul style="list-style-type: none"> <li>Y=000 Call Forwarding-All Calls</li> <li>Y=026 Call Forwarding-All Calls-Outside</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Call Forwarding-All Calls Set and Cancel, respectively.  Assign the access code for Split Call Forwarding-All Calls Set and Cancel, respectively.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A010: Call Forwarding-All Calls Set A011: Call Forwarding-All Calls Cancel</li> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A180: Split Call Forwarding-All Calls Set A181: Split Call Forwarding-All Calls Cancel</li> </ul>
CM35	To apply this feature to incoming calls, set the trunk route combinations for Tandem Connection.	<ul style="list-style-type: none"> <li>Y=005</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li> </ul>
CM36		<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=005</li> <li>(2) 0: Allow</li> </ul>
A		

A	DESCRIPTION	DATA
CM08	Specify the setting method for Call Forwarding-All Calls-Outside.	(1) 222 (2) 0 : Setting when the station goes on-hook/when receiving Service Set Tone (ORT time out) 1◀: Setting when receiving Service Set Tone (ORT time out)
	Assign whether an extension can set a destination of Split Call Forwarding-All Calls-Outside by entering only a trunk access code.	(1) 386 (2) 0 : Restricted 1◀: Allowed
	Select the trunk route seized for Split Call Forwarding-All Calls-Outside.	(1) 600 (2) 0 : By calling party's tenant/terminating trunk's tenant 1◀: By Call Forwarding setting station's tenant
	Select the Call Forwarding type when an incoming call terminates via CCIS.	(1) 608 (2) 0 : As per CM65 Y=37/38/39 1◀: As per CM65 Y=23/24/25
	CM90	Assign Call Forwarding-All Calls keys to the Multiline Terminals, if required.
Assign Split Call Forwarding-All Calls keys to the Multiline Terminals, if required.		<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0A80: Split Call Forwarding-All Calls Set/Cancel</li> </ul>
B		



B	DESCRIPTION	DATA
CM65	<p>Select the feature available in each tenant when an internal call and a Tie Line/C.O. incoming call are terminated.</p> <p>Select the feature available in each tenant when an internal call via CCIS and a Tie Line/C.O. incoming call via CCIS are terminated.</p> <p><b>NOTE:</b> <i>CM65 Y=37/38/39 are effective only when the second data of CM08&gt;608 is set to 0.</i></p>	<ul style="list-style-type: none"> <li>• Y=23 Internal Call or ATT assisted Call</li> <li>• Y=24 C.O. Incoming Call</li> <li>• Y=25 Tie Line Incoming Call</li> </ul> <p>(1) 00-63: Tenant No. (2) 0 : Split Call Forwarding-All Calls 1◀: Call Forwarding-All Calls</p> <ul style="list-style-type: none"> <li>• Y=37 Internal Call or ATT assisted Call via CCIS</li> <li>• Y=38 C.O. Incoming Call via CCIS</li> <li>• Y=39 Tie Line Incoming Call via CCIS</li> </ul> <p>(1) 00-63: Tenant No. (2) 0 : Split Call Forwarding-All Calls 1◀: Call Forwarding-All Calls</p>
CM78	<p>Assign the destination of Split Call Forwarding. (See <b>NOTE</b> in next page.)</p>	<p>(1) XX Y XX: 00-63: Tenant No. Y : 0-7: Block No.</p> <p>(2) X-XX + <input type="text"/> + YY...Y X-XX : Trunk Access Code (1-2 digits) YY...Y: Called No. (Maximum 26 digits) X-XXXXXXXX: Station No. (1-8 digits)</p>
CM48	<p>Select the Dial Tone on setting Split Call Forwarding-All Calls.</p>	<ul style="list-style-type: none"> <li>• Y=2</li> </ul> <p>(1) 13: Dial Tone on setting Split Call Forwarding-All Calls (2) 0 : Special Dial Tone (Stutter Dial Tone) 1◀: Dial Tone</p>
END		

**NOTE:** *The operating procedure for Split Call Forwarding-All Calls is as follows:  
CM78 is used to assign the forwarded destination when the destination No. 0-7 is specified.*




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## HARDWARE REQUIRED

Multiline Terminal with LCD and DLC blade, if required

## SPLIT CALL FORWARDING-BUSY LINE

### PROGRAMMING

**NOTE:** To activate Split Call Forwarding-Busy Line feature, both Call Forwarding and Split Call Forwarding settings are required.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for this feature to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Forwarding-Busy Line in Service Restriction Class A assigned by CM12 Y=02.  <b>NOTE:</b> To provide this feature, set "1" (Allow) for CM15 Y=011, Y=028, Y=012, Y=029.	<ul style="list-style-type: none"> <li>Y=011 Call Forwarding-Busy Line</li> <li>Y=028 Call Forwarding-Busy Line-Outside</li> <li>Y=012 Call Forwarding-Busy Line/No Answer</li> <li>Y=029 Call Forwarding-Busy Line-Outside/No Answer-Outside</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Call Forwarding-Busy Line Set and Cancel, respectively.  Assign the access code for Split Call Forwarding-Busy Line Set and Cancel, respectively.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A012: Call Forwarding-No Answer/Busy Line Set A013: Call Forwarding-No Answer/Busy Line Cancel</li> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A182: Split Call Forwarding-Busy Line/No Answer Set A183: Split Call Forwarding-Busy Line/No Answer Cancel</li> </ul>
CM35	To apply this feature to incoming calls, set the trunk route combinations for Tandem Connection.	<ul style="list-style-type: none"> <li>Y=005</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li> </ul>
A		

A	DESCRIPTION	DATA
CM36		<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=005</li> <li>(2) 0: Allow</li> </ul>
CM08	Specify the setting method for Call Forwarding-Busy Line-Outside.	<ul style="list-style-type: none"> <li>(1) 222</li> <li>(2) 0 : Setting when the station goes on-hook/when receiving Service Set Tone (ORT time out)</li> <li>1◀: Setting when receiving Service Set Tone (ORT time out)</li> </ul>
	Specify the operation of Call Forwarding-Busy Line for a station with Do Not Disturb set (for DID/DIT/Tie Line/Station call).	<ul style="list-style-type: none"> <li>(1) 240</li> <li>(2) 0 : Call Forwarding-Busy Line</li> <li>1◀: To transfer to the another station (assigned by CM51 Y=10)</li> </ul>
	<b>NOTE:</b> <i>Regardless of this data, Do Not Disturb is available for Direct-In Termination when a Pilot station of Station Hunting group is set Do Not Disturb.</i>	
	Assign whether an extension can set a destination of Split Call Forwarding-Busy Line-Outside by entering only a trunk access code.	<ul style="list-style-type: none"> <li>(1) 386</li> <li>(2) 0 : Restricted</li> <li>1◀: Allowed</li> </ul>
	Select the trunk route seized for Split Call Forwarding-Busy Line-Outside.	<ul style="list-style-type: none"> <li>(1) 600</li> <li>(2) 0 : By calling party's tenant/terminating trunk's tenant</li> <li>1◀: By Call Forwarding setting station's tenant</li> </ul>
	Select the Call Forwarding type when an incoming call terminates via CCIS.	<ul style="list-style-type: none"> <li>(1) 608</li> <li>(2) 0 : As per CM65 Y=37/38/39</li> <li>1◀: As per CM65 Y=23/24/25</li> </ul>
B		

B	DESCRIPTION	DATA
CM90	Assign Call Forwarding-Busy Line key to the Multiline Terminals, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F0014: Call Forwarding-Busy Line Set/Cancel</li> </ul>
	Assign Split Call Forwarding-Busy Line keys to the Multiline Terminals, if required.	<p>For setting the same key as Call Forwarding-No Answer</p> <ul style="list-style-type: none"> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F0012: Call Forwarding-No Answer/Busy Line Set/Cancel</li> </ul>
CM65	Select the feature available in each tenant when an internal call and a Tie Line/C.O. incoming call are terminated.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F0A82: Split Call Forwarding-Busy Line/No Answer Set/Cancel</li> </ul>
	Select the feature available in each tenant when an internal call via CCIS and a Tie Line/C.O. incoming call via CCIS are terminated.	<ul style="list-style-type: none"> <li>• Y=23 Internal Call or ATT assisted Call</li> <li>• Y=24 C.O. Incoming Call</li> <li>• Y=25 Tie Line Incoming Call</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : Split Call Forwarding-Busy Line 1◀: Call Forwarding-Busy Line</li> </ul>
	<b>NOTE:</b> <i>CM65 Y=37/38/39 are effective only when the second data of CM08&gt;608 is set to 0.</i>	<ul style="list-style-type: none"> <li>• Y=37 Internal Call or ATT assisted Call via CCIS</li> <li>• Y=38 C.O. Incoming Call via CCIS</li> <li>• Y=39 Tie Line Incoming Call via CCIS</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : Split Call Forwarding-Busy Line 1◀: Call Forwarding-Busy Line</li> </ul>
CM78	Assign the destination of Split Call Forwarding-Busy Line. (See <b>NOTE</b> in next page.)	<ul style="list-style-type: none"> <li>(1) XX Y XX: 00-63: Tenant No. Y : 0-7: Block No.</li> <li>(2) X-XX + [ ] + YY...Y X-XX : Trunk Access Code (1-2 digits) YY...Y: Called No. (Maximum 26 digits) X-XXXXXXXX: Station No. (1-8 digits)</li> </ul>
END		

**NOTE:** *The operating procedure for Split Call Forwarding-Busy Line/No Answer is as follows:  
CM78 is used to assign the forwarded destination when the destination No. 0-7 is specified.*

<p><i>Dial Access Code for Split Call Forwarding-Busy Line/No Answer.</i></p> <p><i>or</i></p> <p><i>Depress Split Call Forwarding-Busy Line/No Answer key.</i></p>	<p>+</p>	<p><i>Dial Destination No. X (0-9).</i></p> <p><i>0: BLOCK No. 0</i></p> <p><i>1: 1</i></p> <p><i>2: 2</i></p> <p><i>3: 3</i></p> <p><i>4: 4</i></p> <p><i>5: 5</i></p> <p><i>6: 6</i></p> <p><i>7: BLOCK No. 7</i></p> <p><i>8: Destination for Call Forwarding-Busy Line/No Answer</i></p> <p><i>9: Destination for Station Speed Dialing (BLOCK No. 0)</i></p>	<p><i>Destination assigned by CM78.</i></p>
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## HARDWARE REQUIRED

Multiline Terminal with LCD and DLC blade, if required

## SPLIT CALL FORWARDING-NO ANSWER

### PROGRAMMING

For Split Call Forwarding-No Answer with the timer on a system basis set by PCPro/CAT, do the following programming.

**NOTE:** *To activate Split Call Forwarding-No Answer feature, both Call Forwarding and Split Call Forwarding settings are required.*

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for this feature to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Forwarding-No Answer in Service Restriction Class A assigned by CM12 Y=02.  <b>NOTE:</b> <i>To provide this feature, set "1" (Allow) for CM15 Y=010, Y=027, Y=012, Y=029.</i>	<ul style="list-style-type: none"> <li>Y=010 Call Forwarding-No Answer</li> <li>Y=027 Call Forwarding-No Answer-Outside</li> <li>Y=012 Call Forwarding-Busy Line/No Answer</li> <li>Y=029 Call Forwarding-Busy Line-Outside/No Answer-Outside</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Call Forwarding-No Answer Set and Cancel, respectively.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A012: Call Forwarding-No Answer/Busy Line Set A013: Call Forwarding-No Answer/Busy Line Cancel</li> </ul>
	Assign the access code for Split Call Forwarding-No Answer Set and Cancel, respectively.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A182: Split Call Forwarding-Busy Line/No Answer Set A183: Split Call Forwarding-Busy Line/No Answer Cancel</li> </ul>
A		

A	DESCRIPTION	DATA
CM13	Specify the timing of Call Forwarding-No Answer.	<ul style="list-style-type: none"> <li>• Y=46</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 0 : As per CM41 Y=0&gt;100, 101 or CME6 Y=07, 08 <b>NOTE</b></li> <li>1◀: As per CM41 Y=0&gt;01, 15</li> </ul>
	<p><b>NOTE:</b> <i>Call Forwarding-No Answer Timing is as follows when the second data is set as 0.</i></p> <ul style="list-style-type: none"> <li>- <i>When the timer for each station is set up by CME6 Y=07, 08: The timer of CME6 Y=07, 08 is effective.</i></li> <li>- <i>When the timer for each station is not set up by CME6 Y=07, 08: The timer of CM41 Y=0&gt;100, 101 is effective.</i></li> </ul>	
CM41	Specify the timing of Call Forwarding-No Answer for a trunk incoming call.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 01 : Timing for a trunk incoming call</li> <li>100: Timing for a trunk incoming call</li> <li>(2) 01-30: 4-120 seconds</li> <li>(4 second increments)</li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
	Specify the timing of Call Forwarding-No Answer for an internal call or an assisted call.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 15 : Timing for an internal call or an assisted call</li> <li>101: Timing for an internal call or an assisted call</li> <li>(2) 01-30: 4-120 seconds</li> <li>(4 second increments)</li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
CM35	To apply this feature to incoming calls, set the trunk route combinations for Tandem Connection.	<ul style="list-style-type: none"> <li>• Y=005</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li> </ul>
CM36		<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=005</li> <li>(2) 0: Allow</li> </ul>
B		



B	DESCRIPTION	DATA
CM08	Specify the setting method for Call Forwarding-No Answer-Outside.	(1) 222 (2) 0 : Setting when the station goes on-hook/when receiving Service Set Tone (ORT time out) 1◀: Setting when receiving Service Set Tone (ORT time out)
	Assign whether an extension can set a destination of Split Call Forwarding-No Answer-Outside by entering only a trunk access code.	(1) 386 (2) 0 : Restricted 1◀: Allowed
	Select the trunk route seized for Split Call Forwarding-No Answer-Outside.	(1) 600 (2) 0 : By calling party's tenant/terminating trunk's tenant 1◀: By Call Forwarding setting station's tenant
	Select the Call Forwarding type when an incoming call terminates via CCIS.	(1) 608 (2) 0 : As per CM65 Y=37/38/39 1◀: As per CM65 Y=23/24/25
CM90	Assign Call Forwarding-No Answer keys to the Multiline Terminals, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0016: Call Forwarding-No Answer Set/Cancel</li> </ul>
		For setting the same key as Call Forwarding-Busy Line. (1) My Line No. + <input type="text"/> + Key No. (2) F0012: Call Forwarding-No Answer/Busy Line Set/Cancel
	Assign Split Call Forwarding-No Answer keys to the Multiline Terminals, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0A82: Split Call Forwarding-Busy Line/No Answer Set/Cancel</li> </ul>
CM65	Select the feature available in each tenant when an internal call and a Tie Line/C.O. incoming call are terminated.	<ul style="list-style-type: none"> <li>• Y=23 Internal Call or ATT assisted Call</li> <li>• Y=24 C.O. Incoming Call</li> <li>• Y=25 Tie Line Incoming Call</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : Split Call Forwarding-No Answer 1◀: Call Forwarding-No Answer</li> </ul>
C		

C

**DESCRIPTION**

**DATA**

CM65

Select the feature available in each tenant when an internal call via CCIS and a Tie Line/ C.O. incoming call via CCIS are terminated.

**NOTE:** *CM65 Y=37/38/39 are effective only when the second data of CM08>608 is set to 0.*

- Y=37 Internal Call or ATT assisted Call via CCIS
  - Y=38 C.O. Incoming Call via CCIS
  - Y=39 Tie Line Incoming Call via CCIS
- (1) 00-63: Tenant No.  
(2) 0 : Split Call Forwarding-No Answer  
1◀: Call Forwarding-No Answer

CM08

Specify the timing of Call Forwarding-No Answer for a tie line incoming call.

- (1) 126  
(2) 0 : As per timing for internal call or an assisted call  
1◀: As per timing for trunk incoming call

**NOTE:** *The timing for a tie line incoming call is set as following data. When CM08>126: 0 is set:*

◀: Default

2ND DATA OF CM13 Y=46	TIMING FOR TIE LINE INCOMING CALL
0	As per CM41 Y=0>101
1◀	As per CM41 Y=0>15

*When CM08>126: 1◀ is set:*

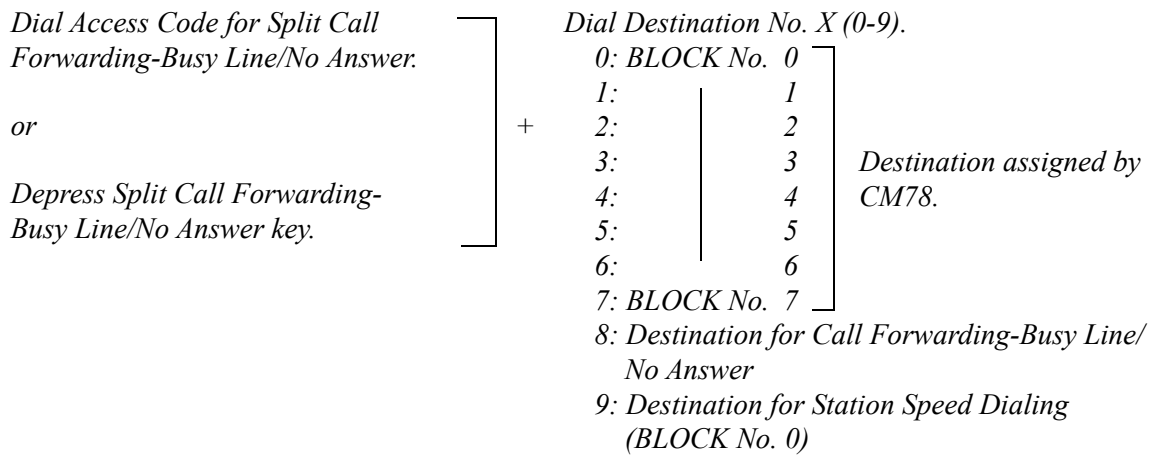
◀: Default

2ND DATA OF CM13 Y=46	TIMING FOR TIE LINE INCOMING CALL
0	As per CM41 Y=0>100
1◀	As per CM41 Y=0>01

D

D	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM78</div>	Assign the destination of Split Call Forwarding. (See <b>NOTE</b> below.)	(1) XX Y XX: 00-63: Tenant No. Y : 0-7: Block No. (2) X-XX + <span style="border: 1px solid black; padding: 0 2px;"> </span> + YY···Y X-XX : Trunk Access Code (1-2 digits) YY···Y: Called No. (Maximum 26 digits) X-XXXXXXXX: Station No. (1-8 digits)
END		

**NOTE:** *The operating procedure for Split Call Forwarding-Busy Line/No Answer is as follows:  
CM78 is used to assign the forwarded destination when the destination No. 0-7 is specified.*



For Split Call Forwarding-No Answer with the timer on a station basis set by PCPro/CAT, do the following programming in addition to the programming for Split Call Forwarding-No Answer with the timer on a system basis. [Page 1-147](#)

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM13</div>	<p>Specify the timing of Call Forwarding-No Answer to as per CM41 Y=0&gt;100, 101 or CME6 Y=07, 08.</p> <p><b>NOTE:</b> <i>Call Forwarding-No Answer Timing is as follows when the second data is set as 0.</i></p> <ul style="list-style-type: none"> <li>- <i>When the timer for each station is set up by CME6 Y=07, 08: The timer of CME6 Y=07, 08 is effective.</i></li> <li>- <i>When the timer for each station is not set up by CME6 Y=07, 08: The timer of CM41 Y=0&gt;100, 101 is effective.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Y=46</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 0: As per CM41 Y=0&gt;100, 101 or CME6 Y=07, 08 <b>NOTE</b></li> </ul>
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CME6</div>	<p>Specify the timing of Call Forwarding-No Answer for a trunk incoming call.</p> <p>Specify the timing of Call Forwarding-No Answer for an internal call or an assisted call.</p>	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 001-120 : 4-120 seconds (4 second increments) NONE◀: As per CM41 Y=0&gt;100</li> </ul> <ul style="list-style-type: none"> <li>• Y=08</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 001-120 : 1-120 seconds NONE◀: As per CM41 Y=0&gt;101</li> </ul>
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">A</div>		

A

CM08

**DESCRIPTION**

**DATA**

Specify the timing of Call Forwarding-No Answer for a tie line incoming call.

- (1) 126
- (2) 0 : As per timing for internal call or an assisted call
- 1 ◀: As per timing for trunk incoming call

**NOTE:** *The timing for a tie line incoming call is set as following data.  
When CM08>126: 0 is set:*

2ND DATA OF CM13 Y=46	TIMING ON A STATION BASIS (CME6 Y=08)	TIMING FOR TIE LINE INCOMING CALL
0	Set	As per CME6 Y=08
	Not set	As per CM41 Y=0>101

*When CM08>126: 1 ◀ is set:*

2ND DATA OF CM13 Y=46	TIMING ON A STATION BASIS (CME6 Y=07)	TIMING FOR TIE LINE INCOMING CALL
0	Set	As per CME6 Y=07
	Not set	As per CM41 Y=0>100

END

**HARDWARE REQUIRED**

Multiline Terminal with LCD and DLC blade, if required

## GROUP DIVERSION

### PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Group Diversion.	(1) 026: Group Diversion (2) 0: To provide
CM16	Assign the members to be included in each Group Diversion group.	<ul style="list-style-type: none"> <li>Y=2 Group Diversion group</li> </ul> (1) X-XXXXXXXX: Station No. to be included in a Group Diversion group (2) 00-30: Group Diversion group No.
CM19	Assign the destination for each Group Diversion group to the required stations.	<ul style="list-style-type: none"> <li>Y=6</li> </ul> (1) 00-30: Group Diversion group No. (2) X-XXXXXXXX: Diversion group No.
CM13	Specify the timing of Group Diversion.	<ul style="list-style-type: none"> <li>Y=46</li> </ul> (1) X-XXXXXXXX: My Line No. (2) 0 : As per CM41 Y=0>100, 101 or CME6 Y=07, 08 <b>NOTE</b> 1◀: As per CM41 Y=0>01, 15
	<p><b>NOTE:</b> <i>Group Diversion Timing is as follows when the second data is set as 0.</i></p> <ul style="list-style-type: none"> <li>- When the timer for each station is set up by CME6 Y=07, 08: The timer of CME6 Y=07, 08 is effective.</li> <li>- When the timer for each station is not set up by CME6 Y=07, 08: The timer of CM41 Y=0&gt;100, 101 is effective.</li> </ul>	
CM41	Specify the timing of Group Diversion for DIT/Tie Line incoming call.	<ul style="list-style-type: none"> <li>Y=0</li> </ul> (1) 01 : Timing for DIT/Tie Line incoming call 100: Timing for DIT/Tie Line incoming call (2) 01-30: 4-120 seconds (4 second increments) If no data is set, the default setting is 32-36 seconds.
A		

A	DESCRIPTION	DATA
CM41	Specify the timing of Group Diversion for an internal call or an assisted call.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 15 : Timing for an internal call or an assisted call</li> <li>101: Timing for an internal call or an assisted call</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
	Specify the timing for Group Diversion after second Call Forwarding.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 46</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
CME6	Specify the timing of Group Diversion for DIT/Tie Line incoming call.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXXX: My Line No.</li> <li>(2) 001-120 : 1-120 seconds</li> <li>NONE◀: As per CM41 Y=0&gt;100</li> </ul>
	Specify the timing of Group Diversion for an internal call or an assisted call.	<ul style="list-style-type: none"> <li>• Y=08</li> <li>(1) X-XXXXXXXXX: My Line No.</li> <li>(2) 001-120 : 4-120 seconds (4 second increments)</li> <li>NONE◀: As per CM41 Y=0&gt;101</li> </ul>
B		

B

CM08

**DESCRIPTION**

**DATA**

Specify the timing of Group Diversion for DIT/Tie Line incoming call.

- (1) 126
- (2) 0 : As per timing for internal call or an assisted call
- 1 ◀: As per timing for DIT/Tie Line incoming call

**NOTE:** *The timing for DIT/Tie Line incoming call is set as following data.  
When CM08>126:0 is set:*

2ND DATA OF CM13 Y=46	TIMING ON A STATION BASIS (CME6 Y=08)	TIMING FOR DIT/TIE LINE INCOMING CALL
0	Set	As per CME6 Y=08
	Not set	As per CM41 Y=0>101

*When CM08>126:1 ◀ is set:*

2ND DATA OF CM13 Y=46	TIMING ON A STATION BASIS (CME6 Y=07)	TIMING FOR DIT/TIE LINE INCOMING CALL
0	Set	As per CME6 Y=07
	Not set	As per CM41 Y=0>100

END

**NOTE:** *The number of stations that can be included in a Group Diversion is unlimited.*



## CALL HISTORY

### INCOMING CALL HISTORY (CID CALL BACK)

#### PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify Message Waiting Lamp indication on the Multiline Terminal to which Message Waiting/Message Reminder is set.	(1) 294 (2) 0 : Flashing 60 IPM 1◀: Steady Lighting
	Specify if CID Call Back is provided when an incoming call is Forwarded, Busy, Unanswered or in Do Not Disturb.	(1) 588 (2) 0 : To provide 1◀: Not provided
	<p><b>NOTE:</b> <i>CID Call Back by this command is available under the following conditions.</i></p> <ul style="list-style-type: none"> <li><i>The Multiline Terminal station is set to Call Forwarding-All Calls/ Call Forwarding-Busy Line/ Call Forwarding-No answer/ Call Forwarding-IP Station logout when a trunk call is terminated.</i></li> <li><i>The Multiline Terminal station is set to Do Not Disturb.</i></li> <li><i>The Multiline Terminal station received the incoming call is busy.</i></li> </ul>	
	Specify if Automatic idle return is provided after ROT is received when Incoming Call History is not operating.	(1) 172 (2) 0 : Not available 1◀: Available
A		

A	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Specify if MW lamp on Multiline Terminal when Incoming Call History (CID Call Back)/ Message Reminder is to be lit.	<ul style="list-style-type: none"> <li>• Y=284</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : Not lit 1◀: To light</li> </ul>
	Specify if MW lamp on Multiline Terminal when UM8000 Mail/Voice Mail Live Record is to be lit.	<ul style="list-style-type: none"> <li>• Y=285</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : Not lit 1◀: To light</li> </ul>
	Specify if MW lamp on Multiline Terminal when Message Waiting/Message Waiting Console/Message Center Interface (MCI)/Open Application Interface (OAI)/Voice Mail Live Record-CCIS is to be lit.	<ul style="list-style-type: none"> <li>• Y=286</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : Not lit 1◀: To light</li> </ul>
CM35	Provide the function of storing the call history (IC) when answering a trunk call/handling of an unanswered trunk call.	<ul style="list-style-type: none"> <li>• Y=150</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To store</li> </ul>
	Assign the trunk access code for CID Call Back. This trunk access code will be saved and sent with the calling number.	<ul style="list-style-type: none"> <li>• Y=044</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00-99: Trunk Access Code or</li> <li>• Y=189</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) X-XX: Trunk Access Code X=0-9, A (*), B (#)</li> </ul>
CM29	Assign a Numbering Plan Group number to each tenant.	<ul style="list-style-type: none"> <li>(1) 00-63: Tenant No.</li> <li>(2) 710-713 : Numbering Plan Group 0-3 NONE◀: Numbering Plan Group 0</li> </ul>
B		

B	DESCRIPTION	DATA
CM20	Assign the access code for Message Waiting/Message Reminder Search/Retrieve.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A146: Message Waiting/Message Reminder Search</li> <li>A147: Message Waiting/Message Reminder Retrieve</li> </ul>
CM13	Assign whether to store the call history (IC) on the Multiline Terminal when the station call is answered.	<ul style="list-style-type: none"> <li>• Y=41</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 0 : To store</li> <li>1◀: Not stored</li> </ul>
	Specify whether to store the call history (IC) when handling of unanswered call.	<ul style="list-style-type: none"> <li>• Y=49</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 0 : To store</li> <li>1◀: Not stored</li> </ul>
	Specify whether to store the call history (IC) when answering a trunk call.	<ul style="list-style-type: none"> <li>• Y=60</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 0 : To store</li> <li>1◀: Not stored</li> </ul>
	<p><b>NOTE:</b> The 2nd data of this command is automatically set to 0 (To store) when Digital Multiline terminal/IP station No. (FX-FXXXXXXXX) is assigned by CM10 Y=00/01.</p>	
	Specify whether to store the call history (IC) when handling of an unanswered trunk call.	<ul style="list-style-type: none"> <li>• Y=61</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 0 : To store</li> <li>1◀: Not stored</li> </ul>
	<p><b>NOTE:</b> The 2nd data of this command is automatically set to 0 (To store) when Digital Multiline terminal/IP station No. (FX-FXXXXXXXX) is assigned by CM10 Y=00/01.</p>	
C		

C	DESCRIPTION	DATA
CM13	<p>Specify whether to store the call record when answering a trunk call which transferred from other station. <b>[9300V4 software required]</b></p> <p><b>NOTE:</b> <i>When setting the second data of this command to 1 (To store), this command is effective when the second data of CM13 Y=60 and CM35 Y=150 are set to 0 (To store).</i></p>	<ul style="list-style-type: none"> <li>• Y=97</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Not stored 1◀: To store</li> </ul>
CM90	<p>Assign the Call History Screen Start key and MW Lamp key to the Multiline Terminals.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0A46: Call History Screen Start F1005 : MW Lamp</li> </ul>
CM08	<p>Specify if Call History-No Answer is deleted after initiating Call Back, even if the call is answered.</p> <p>Specify whether to delete all stored Call History-No Answer of the calling station when the call is answered.</p> <p>Specify whether to provide the Icon display on DT330/DT430/DT530/DT730/DT750/DT830/DT930.</p> <p>Specify whether to store the call record when answering DID Call Waiting. <b>[9300V4 software required]</b></p> <p><b>NOTE:</b> <i>When setting the second data of this command to 1 (To store), this command is effective when the second data of CM13 Y=60 and CM35 Y=150 is set to 0 (To store).</i></p>	<ul style="list-style-type: none"> <li>(1) 234</li> <li>(2) 0 : To delete 1◀: Not delete (To delete only when answering)</li> <li>(1) 235</li> <li>(2) 0 : To delete 1◀: Not delete</li> <li>(1) 1019</li> <li>(2) 0 : Not displayed 1◀: To display</li> <li>(1) 1053</li> <li>(2) 0 : Not stored 1◀: To store</li> </ul>
END		

To provide Incoming Call History (CID Call Back) when terminating a station call via CCIS/SIP trunk, do the following programming:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM08</div>	Assign the data for storing the calling number automatically when terminating a station call via CCIS/SIP trunk.	(1) 583 (2) 0: To store
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM35</div>	Assign the Pattern number for adding an access code for outgoing call to the calling number stored by Message Reminder when terminating a tandem call via CCIS/SIP trunk.  Assign the data for storing the call history (IC) when answering a trunk call/handling of an unanswered trunk call.	<ul style="list-style-type: none"> <li>• Y=279</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0-7 : Pattern No. 0-7 NONE◀: No data</li> </ul> <ul style="list-style-type: none"> <li>• Y=150</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To store</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM50</div>	Assign the Pattern number for adding an access code for outgoing call to the calling number stored by Message Reminder when terminating a tandem call via CCIS/SIP trunk.	<ul style="list-style-type: none"> <li>• Y=11</li> <li>(1) 0-7: Pattern No. 0-7 assigned by CM35 Y=279</li> <li>(2) X-XXXXXX: Access Code for outgoing call (1-6 digits) X : 0-9, A (*), B (#) NONE◀: No data</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">END</div>		

## HARDWARE REQUIRED

Multiline Terminal with LCD and DLC blade

## OUTGOING CALL HISTORY (STACK DIAL)

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to the required stations.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Assign the type of Multiline Terminal to service Restriction Class C assigned by CM12 Y=07.	<ul style="list-style-type: none"> <li>• Y=096</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : Without LCD 1◀: With LCD</li> </ul>
CM90	Assign the Stack Dial key to each Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F1000: Stack Dial</li> </ul>
CM08	Provide the system with Automatic Idle Return.  Specify whether the Automatic Idle Return is available or not, if the PBR time out occurs after the Redial/Speaker key is pressed with the Multiline Terminal in on-hook condition.	<ul style="list-style-type: none"> <li>(1) 172</li> <li>(2) 1◀: To provide</li> <li>(1) 567</li> <li>(2) 0 : Not available 1◀: Available</li> </ul>
END		

To provide DESKCON with this feature:

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
CM90	Assign the Stack Dial/Redial key to each DESKCON.	<ul style="list-style-type: none"><li>• Y=00</li><li>(1) DESKCON No. (E000-E007) + <input type="checkbox"/> + Key No.</li><li>(2) F6121: Stack Dial/Last Number Redial</li></ul>
<u>END</u>		

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### HARDWARE REQUIRED

Multiline Terminal with LCD and DLC blade  
DESKCON and DLC blade

# CALL PARK

## CALL PARK-SYSTEM

### PROGRAMMING

START	DESCRIPTION	DATA
<p>CM08</p>	<p>Specify whether a trunk line placed on Consultation Hold by Call Park-System can be retrieved by pressing a trunk line appearance key on a Multiline Terminal.</p>	<p>(1) 133 (2) 0 : Not available 1◀: Available</p>
<p>CM41</p>	<p>Specify the recall timing for the Call Park-System.</p>	<p>• Y=0 (1) 05 (2) 01-99: 4-396 seconds (4 second increments) If no data is set, the default setting is 60-64 seconds.</p>
<p>A</p>	<p>To provide Call Park-System with dialing a Park number</p>	
<p>B</p>	<p>To provide Call Park-System with dialing a station number</p>	



To provide Call Park-System with dialing a Park number

A	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Assign the type of Multiline Terminal to Service Restriction Class C assigned by CM12 Y=07.	<ul style="list-style-type: none"> <li>• Y=096</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 1◀: With LCD</li> </ul>
<p><b>NOTE:</b> <i>When using a programmable key to put a call on hold, set the 2nd data to 1 (With LCD) so that the holding call No. 00-19 can be displayed.</i></p>		
CM20	Assign the access code for Call Park-System set and retrieve.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A008: Call Park-System Set A009: Call Park-System Retrieve</li> </ul>
CM90	Assign a Call Park-System key to the Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F5000: Call Park-System</li> </ul>
	Assign a Call Park-System key to DESKCON, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) F6144: Call Park-System</li> </ul>
<u>END</u>		

To provide Call Park-System with dialing a station number

B	DESCRIPTION	DATA
CM20	Assign the access code for Call Park-System Set which retrieved by dialing station number/ Retrieve by dialing station number.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A198: Call Park-System Set which retrieved by dialing station number</li> <li>A199: Call Park-System Retrieve by dialing station number</li> </ul>
CM90	Assign a function key for Call Park-System which retrieved by dialing station number to the Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0A98: Call Park-System Set which retrieved by dialing station number</li> </ul>
<u>END</u>		

## HARDWARE REQUIRED

Multiline Terminal and DLC blade as required

## CALL PARK-TENANT

### PROGRAMMING

START	DESCRIPTION	DATA
CM20	Assign access codes for Call Park-Tenant set/retrieve.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A062: Call Park-Tenant Set/Retrieve
CM08	Specify whether a trunk line placed on Consultation Hold by Call Park-Tenant can be retrieved by pressing a trunk line appearance key on a Multiline Terminal.	(1) 133 (2) 0 : Not available 1◀: Available
CM41	Specify the recall timing for Call Park-Tenant.	<ul style="list-style-type: none"> <li>Y=0</li> </ul> (1) 05 (2) 01-99: 4-396 seconds (4 second increments) If no data is set, the default setting is 60-64 seconds.
CM90	Assign Call Park-Tenant Retrieve keys/Hold key to the Multiline Terminal, as required.  <b>NOTE:</b> Hold key (F1010) is set to the key number 97 as default setting.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. + <input type="text"/> + Key No. (2) F3XX Z: Call Park-Tenant XX : 00-63: Group No. (Station Tenant No.) Z : 1-8: Serial No. F1010: Hold
END		

### HARDWARE REQUIRED

Multiline Terminal and DLC blade, if required

# CALL PICKUP

## CALL PICKUP-DIRECT

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Pickup-Direct in the Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=014</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign an access code for Call Pickup-Direct.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A021: Call Pickup-Direct</li> </ul>
CM90	Assign a Call Pickup-Direct key to Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0021: Call Pickup-Direct</li> </ul>
END		

## CALL PICKUP-GROUP

### PROGRAMMING

START	DESCRIPTION	DATA
CM16	<p>Assign each Call Pickup group, by assigning station numbers within a group one by one with the following operation:</p> <p>1st Operation : (1) Station A (2) Station B            2nd Operation : (1) Station B (2) Station C                              }                                    }            Last Operation: (1) Station X (2) Station A</p>	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) X-XXXXXXXX: Station No. in Call Pickup group</li> <li>(2) X-XXXXXXXX: Another Station No. in same group</li> </ul>
CM20	Assign the access code for Call Pickup-Group.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A020: Call Pickup-Group</li> </ul>
CM90	Assign a Call Pickup-Group key to each Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0020: Call Pickup-Group</li> </ul>
END		

**NOTE 1:** *There is no limit to the amount of Call Pickup groups.*

**NOTE 2:** *The maximum number of stations within a group is 60. Individual stations can be assigned to only one Call Pickup group.*

To permit a station within the Call Pickup group to answer the calls to other lines, in the order from a specified pilot station (ringing search start position):

START	DESCRIPTION	DATA
CM16	<p>Assign each Call Pickup group, by assigning station numbers within a group one by one with the following operation:</p> <p>1st Operation : (1) Station A (2) Station B            2nd Operation : (1) Station B (2) Station C                              ?                                  ?            Last Operation: (1) Station X (2) Station A</p> <p>Specify a pilot station in Call Pickup group.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Station No. in Call Pickup group</li> <li>(2) X-XXXXXXXX: Another Station No. in same group</li> </ul> <ul style="list-style-type: none"> <li>• Y=8</li> <li>(1) X-XXXXXXXX: Station No. to be included in the Call Pickup group</li> <li>(2) 0 : Pilot Station                1◀: Member Station</li> </ul>
CM20	<p>Assign the access code for Call Pickup-Group (Pilot).</p>	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A234: Call Pickup-Group (Pilot)</li> </ul>
CM90	<p>Assign a Call Pickup-Group key to each Multiline Terminal, if required.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0B34: Call Pickup-Group (Pilot)</li> </ul>
END		

**NOTE 1:** *There is no limit to the amount of Call Pickup groups.*

**NOTE 2:** *The maximum number of stations within a group is 60. Individual stations can be assigned to only one Call Pickup group.*

## HARDWARE REQUIRED

Multiline Terminal and DLC blade, if required

## CALL PICKUP-DESIGNATED GROUP

### PROGRAMMING

START	DESCRIPTION	DATA
CM16	Assign each Call Pickup group, by assigning station numbers within a group one by one with the following operation: 1st Operation : (1) Station A (2) Station B 2nd Operation : (1) Station B (2) Station C }                                    } Last Operation: (1) Station X (2) Station A	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Station No. in Call Pickup Group</li> <li>(2) X-XXXXXXXX: Another station No. in same Call Pickup Group</li> </ul>
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ     XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Pickup-Direct in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=014</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign an access code for Call Pickup-Designated Group.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A037: Call Pickup-Designated Group</li> </ul>
END		

**NOTE 1:** *There is no limit to the amount of Call Pickup groups.*

**NOTE 2:** *The maximum number of stations within a group is 60. Individual station can be assigned to only one Call Pickup Group.*

# CALL REDIRECT

## PROGRAMMING

START	DESCRIPTION	DATA
CM90	Provide the Multiline Terminal with a Call Redirect key for transferring a call to a destination station or VMS.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F5011: Call Redirect for transferring to a station assigned by CM51 Y=22</li> <li>F5012: Call Redirect for transferring to a VMS assigned by CM51 Y=18</li> </ul>
CM51	<p>Specify the destination VMS station of Call Redirect, to each tenant.</p> <p>Specify the destination station of Call Redirect, to each tenant.</p>	<ul style="list-style-type: none"> <li>• Y=18</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXXXX: VMS Station No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=22</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXXXX: Station No.</li> </ul>
END		



# CALL TRANSFER

## CALL TRANSFER-ALL CALLS

**NOTE:** *As for the programming of Call Transfer-All Calls using a Standard SIP Terminal, refer to “(20) Operation settings when Standard SIP station with a held call goes on-hook” of “IP Single Line Telephone (SIP) Data Assignment” in the System Manual.*

### PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM08</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto; text-align: center;">A</div>	<p>Specify Call Transfer from a station before a called station answers.</p> <p><b>NOTE:</b> <i>Whether to allow Call Transfer-All Calls is as per CM08&gt;253, when a station holds another station or trunk such as Call Transfer-Destination/Call Transfer in Mobility Access.</i></p>	<p>(1) 062 (2) 0 : Not available 1◀: Available</p>
	<p>Specify whether the transferring station is recalled if the transferred call remains unanswered for a preprogrammed duration when the transferring station goes on-hook before the called station answers for Call Transfer-All Calls service.</p>	<p>(1) 185 (2) 0 : Not available 1◀: Available</p>
	<p>Provide the system with Ring Transfer for Call Transfer-All Calls to a trunk when a station holds another station or trunk.</p>	<p>(1) 253 (2) 0 : Available 1◀: Not available</p>
	<p>Specify the operation of Recall key when a station receives SPDT after hooking.</p>	<p>(1) 1000 (2) 0 : No operation 1◀: Return to the original call</p>
	<p>Provide the system with Trunk-to-Trunk Connection transferred by a station or an attendant between TRK-A (C.O./Tie line) and TRK-B (C.O./Tie line).</p>	<p>(1) 028 (2) 0: Available</p>

A	DESCRIPTION	DATA
CM08	Specify the system operation when the station, after holding call, has made a switch hook flash while talking with another call. <b>[9300V5 software required]</b>	(1) 1056 (2) 0 : As per CM12 Y=87 1◀: As per CM08>102/CM08>103/ CM08>1055
	Specify the system operation when the station (STA-A), after holding the other station (STA-C), has made a switch hook flash while talking with another station (STA-B).	(1) 102 (2) 0 : As per CM08>101 1◀: STA-B is held, and STA-A returns to the connection with STA-C (Broker's Call)
	Specify the system operation when CM08>102 is set to 0 for Single Line Telephone.	(1) 101 (2) 0 : The call with STA-B is disconnected, and STA-A returns to STA-C 1◀: Three Party Conference
	<b>NOTE 1:</b> <i>This command is valid when CM08&gt;102 is set to 0 (As per CM08&gt;101).</i>	
	<b>NOTE 2:</b> <i>For a Multiline Terminal, Broker's Call is applied regardless of this data setting.</i>	
	Specify the system operation when the station (STA-A), after holding a C.O. call, has made a switch hook flash while talking with another station (STA-B).	(1) 103 (2) 0 : As per CM08>104 1◀: STA-B is held, and STA-A returns to the connection with C.O. line (Broker's Call)
<b>NOTE:</b> <i>For a Multiline Terminal, Broker's Call is applied regardless of this data setting.</i>		
Specify the system operation when CM08>103 is set to 0.	(1) 104 (2) 0 : The call with STA-B is disconnected, and STA-A returns to the C.O. line 1◀: Three Party Conference	
<b>NOTE:</b> <i>This command is valid when CM08&gt;103 is set to 0 (As per CM08&gt;104).</i>		

B

B	DESCRIPTION	DATA
CM08	Specify the system operation when the station, after holding the other trunk (TRK-A), has made a switch hook flash while talking with another trunk (TRK-B). <b>[9300V5 software required]</b>	(1) 1055 (2) 0 : The call with TRK-A is disconnected, and returns to TRK-B 1◀: As per CM35 Y=148
CM35	System operation when the station, after holding the other trunk (TRK-A), has made a switch hook flash while talking with another trunk (TRK-B).	• Y=148 (1) 00-63: Trunk Route No. (2) 0 : Broker's Call (TRK-B is held, and station returns to the connection with TRK-A) 1◀: Three-way Calling
CM12	Specify the system operation when the station, after holding call, has made a switch hook flash while talking with another call. <b>[9300V5 software required]</b>  <b>NOTE:</b> <i>This command is valid when CM08&gt;1056 is set to "0".</i>	• Y=87 (1) X-XXXXXXXX: Station No. (2) 0 : The call is disconnected, and returns to the held call 1 : Broker's call 2 : Three-party conference 3◀: As per CM08>102/CM08>103/CM08>1055
CM90	Assign a Recall key on the Multiline Terminal.	• Y=00 (1) My Line No. + <input type="text"/> + Key No. (90) (2) F1015: Recall◀
CM41	Specify the duration of sending SPDT after a hooking operation for Call Transfer.  Specify the recall timing after station release for call transfer.	• Y=0 (1) 105 (2) 10-60: 10-60 seconds (1 second increment) If no data is set, the default setting is 15 seconds.  • Y=0 (1) 07 (2) 01-30: 4-120 seconds (4 seconds increment) If no data is set, the default setting is 24-28 seconds.
C		

To specify the system operation after the C.O./Tie line call (via TRK-B) is completed, when a station that has a C.O./Tie line call (via TRK-A) on Consultation Hold is talking with another C.O./Tie line call (via TRK-B):

C	DESCRIPTION	DATA
CM08	<p>When a station that has a C.O./Tie line call (via TRK-A) on Consultation Hold is talking with another C.O./Tie line call (via TRK-B), specify the system operation after the C.O./Tie line call (via TRK-B) is completed.</p> <p><b>NOTE:</b> <i>This command is not used for a Standard SIP Terminal.</i></p>	<p>(1) 534 (2) 0 : Return to the original call (via TRK-A) 1◀: ROT</p>
<u>END</u>		

## CALL TRANSFER-ATTENDANT

### PROGRAMMING

START	DESCRIPTION	DATA
CM20	Assign the Access code for operator calls.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) 800: Operator call
CM62	Specify the tenants to be handled by each ATT Group.  <b>NOTE:</b> <i>A reset by CM60 Y=90&gt;0: 0 is required after this data setting.</i>	<ul style="list-style-type: none"> <li>Y=0-3 ATT Group 0-3 assigned by CM60 Y=00</li> </ul> (1) 00-63: Tenant No. (2) 0: To be handled
CM08	Specify Call Transfer from a station before the called attendant answers.	(1) 063 (2) 0 : Available 1◀: Not available
END		

# CALLER ID

## CALLER ID CLASS

[For North America/Asia/EMEA]

### PROGRAMMING

#### (1) Trunk Assignment for CALLER ID CLASS

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CM30</div>	<p>Specify the Terminating System in Day Mode/ Night Mode/Mode A/Mode B for incoming calls.</p> <p><b>NOTE:</b> <i>The second data 13 (TAS) cannot be assigned for CM30 Y=40/41 (effective only for CM30 Y=02/03).</i></p>	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> </ul> <p>(1) 000-511: Trunk No.            (2) 02 : Trunk-Direct Appearances            03 : Trunk-Direct Appearances + TAS            04 : Direct-In Termination            08 : Dial-in            09 : Automated Attendant            10 : Attendant Console + TAS            11 : Attendant Console + Trunk-Direct Appearances            12 : Attendant Console + Trunk-Direct Appearances + TAS            13 : TAS <b>NOTE</b>            14 : Attendant Console            16 : Remote Access to System (DISA)            18 : ISDN Indial            31◀: DID, Tie Line and any call which is not handled by the PBX</p>
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CM35</div>	<p>Assign the kind of the trunk route for DDD (C.O./DID) trunk.</p> <p>Provide the trunk route with Caller ID.</p>	<ul style="list-style-type: none"> <li>• Y=000 Kind of Trunk Route</li> </ul> <p>(1) 00-63: Trunk Route No.            (2) 00: DDD (C.O./DID) trunk</p> <ul style="list-style-type: none"> <li>• Y=037 Caller ID</li> </ul> <p>(1) 00-63: Trunk Route No.            (2) 0: Available</p>
<div style="border: 1px solid black; padding: 2px; width: fit-content;">A</div>		

A	DESCRIPTION	DATA
CM35	<p>Specify the busy/idle status not to be sent to the network.</p> <p>Assign the sending method of calling number from the network, to each trunk route.</p>	<ul style="list-style-type: none"> <li>• Y=048 Busy/Idle Sending               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: Not sent</li> </ol> </li> <li>• Y=129 Calling No. Sending Method               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: CALLER ID (CLASS SM)</li> </ol> </li> </ul>
END		

(2) Other Relational Data Assignment

START	DESCRIPTION	DATA
CM35	<p>Assign the trunk access code for outgoing call sent to the SMDR.</p> <p><b>NOTE:</b> <i>For using Save &amp; Repeat feature, this Trunk Access Code will be saved and sent with the calling number.</i></p>	<ul style="list-style-type: none"> <li>• Y=044 Trunk Access Code for Save &amp; Repeat</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0-9/00-99: Trunk Access Code</li> </ul>
CM08	<p>Specify whether the calling number is sent to the OAI terminal or not.</p> <p>Specify whether the calling number is sent to the SMDR terminal or not.</p> <p>Specify the type of Single Data Message Frame Format.</p>	<ol style="list-style-type: none"> <li>(1) 462: Sending to OAI terminal</li> <li>(2) 0 : To send 1◀: Not sent</li> <li>(1) 463: Sending to SMDR terminal</li> <li>(2) 0 : To send 1◀: Not sent</li> <li>(1) 489: Single Data Message Frame Format</li> <li>(2) 0 : Without Time Parameter 1◀: With Time Parameter</li> </ol>
A		

A	DESCRIPTION	DATA
CM08	<p>Specify the Meaning of Parameter type 3 in Multiple Data Frame Message Format for Caller ID. <b>[For Asia]</b></p> <p><b>NOTE:</b> <i>When the Called Number is sent from the PSTN, set the 2nd data to 0.</i></p>	<p>(1) 736: Meaning of Parameter type 3 in Multiple Data Frame Message Format for Caller ID. (2) 0 : Called Number 1◀: Calling Number</p>
CM90	<p>Provide the Multiline Terminal with a select key of Calling Number Display or Calling Name Display.</p> <p>Provide the DESKCON with a select key of Calling Number Display or Calling Name Display.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F1099: Select Key of Calling Number Display or Calling Name Display</li> </ul> <ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) F6122: Select Key of Calling Number Display or Calling Name Display</li> </ul>
END		

## HARDWARE REQUIRED

COT blade

**NOTE:** *Caller ID Class is the feature that receives the calling subscriber's name and number sent from a public network using a MODEM and displays the name or number on an LCD of a Multiline Terminal or an Attendant Console.*



## CALLER ID DTMF

[For Asia/EMEA]

### PROGRAMMING

#### (1) Trunk Assignment for CALLER ID DTMF

START	DESCRIPTION	DATA
CM30	Specify the Terminating System in Day Mode/ Night Mode/Mode A/Mode B for incoming calls.	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> </ul> <p>(1) 000-511: Trunk No.            (2) 02 : Trunk-Direct Appearances            03 : Trunk-Direct Appearances + TAS            04 : Direct-In Termination            08 : Dial-in            09 : Automated Attendant            10 : Attendant Console + TAS            11 : Attendant Console + Trunk-Direct                Appearances            12 : Attendant Console + Trunk-Direct                Appearances + TAS            13 : TAS            14 : Attendant Console            16 : Remote Access to System (DISA)            18 : ISDN Indial            31◀: DID, Tie Line and any call which is                not handled by the PBX</p>
CM35	Assign the kind of the trunk route for DDD (C.O./DID) trunk.  Provide the trunk route with Caller ID.  Specify the busy/idle status not to be sent to the network.	<ul style="list-style-type: none"> <li>• Y=000 Kind of Trunk Route</li> </ul> <p>(1) 00-63: Trunk Route No.            (2) 00: DDD (C.O./DID) trunk</p> <ul style="list-style-type: none"> <li>• Y=037 Caller ID</li> </ul> <p>(1) 00-63: Trunk Route No.            (2) 0: Available</p> <ul style="list-style-type: none"> <li>• Y=048 Busy/Idle Sending</li> </ul> <p>(1) 00-63: Trunk Route No.            (2) 0: Not sent</p>
A		

A	DESCRIPTION	DATA
CM35	Assign the sending method of calling number from the network, to each trunk route.	<ul style="list-style-type: none"> <li>Y=129 Calling No. Sending Method</li> </ul> <div style="border: 1px solid black; border-radius: 10px; padding: 2px; display: inline-block;">BLADE RESET</div> <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 4: CALLER ID (DTMF)</li> </ul>
END		

(2) Other Relational Data Assignment

START	DESCRIPTION	DATA
CM35	Assign the trunk access code for outgoing call sent to the SMDR.  <b>NOTE:</b> <i>For using Save &amp; Repeat feature, this Trunk Access Code will be saved and sent with the calling number.</i>	<ul style="list-style-type: none"> <li>Y=044 Trunk Access Code for Save &amp; Repeat</li> </ul> <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0-9/00-99: Trunk Access Code</li> </ul>
CM08	Specify whether the calling number is sent to the OAI terminal or not.  Specify whether the calling number is sent to the SMDR terminal or not.  Provide the digit display that DTMF Caller ID received (For test).	<ul style="list-style-type: none"> <li>(1) 462: Sending to OAI terminal</li> <li>(2) 0 : To send 1 ◀: Not sent</li> </ul> <ul style="list-style-type: none"> <li>(1) 463: Sending to SMDR terminal</li> <li>(2) 0 : To send 1 ◀: Not sent</li> </ul> <ul style="list-style-type: none"> <li>(1) 1926: Digit display that DTMF Caller ID received</li> <li>(2) 0 : To provide 1 ◀: Not provided</li> </ul>
CM90	Provide the Multiline Terminal with a select key of Calling Number Display or Calling Name Display.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> <ul style="list-style-type: none"> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F1099: Select Key of Calling Number Display or Calling Name Display</li> </ul>
A		

A	DESCRIPTION	DATA
CM90	Provide the DESKCON with a select key of Calling Number Display or Calling Name Display.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) DESKCON No. (E000-E007) + <input type="checkbox"/> + Key No.</li> <li>(2) F6122: Select Key of Calling Number Display or Calling Name Display</li> </ul>
CM41	Specify the DTMF Caller ID received timer.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 163</li> <li>(2) 01-15: 0-60 seconds (4 seconds increments)</li> </ul> <p>If no data is set, the default setting is 4-8 seconds.</p>
CM42	Specify the number of deletion digits of received Caller ID for DTMF Caller ID Trunk.	<ul style="list-style-type: none"> <li>(1) 213</li> <li>(2) 00 : No digit deletion</li> <li>01-15 : 1-15 digits deletion</li> <li>NONE◀: No digit deletion</li> </ul>
<u>END</u>	<p><b>NOTE:</b> Assign this data to "01" in Saudi Arabia.</p>	

## HARDWARE REQUIRED

COT blade

**NOTE:** Caller ID DTMF is the feature that receives the calling subscriber's number sent from a public network using a DTMF and displays the number on LCD of a Multiline Terminal or an Attendant Console.

## CALLER ID DISPLAY

### PROGRAMMING

In addition to Automatic Number Identification (ANI) or Caller ID Class, assign the following data.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM90</div>	Provide the Multiline Terminal with a Caller ID Display key for displaying the ANI or Caller ID.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 5px;"> </span> + Key No.</li> <li>(2) F5010: Caller ID Display</li> </ul>
<u>END</u>		

### HARDWARE REQUIRED

Multiline Terminal with LCD and DLC blade

## CALLER ID-STATION

[For North America/Asia/EMEA]

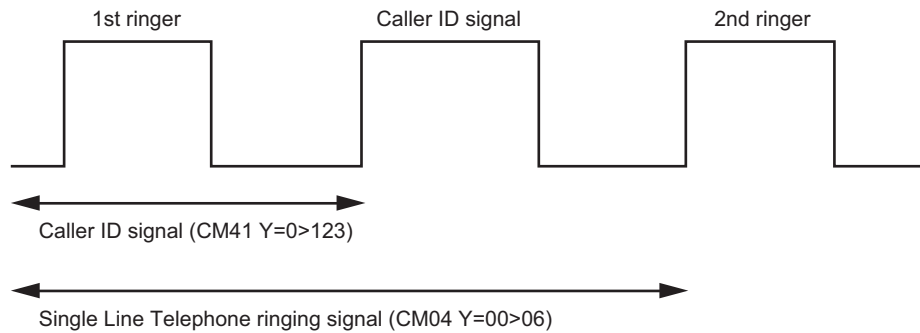
### PROGRAMMING

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the LC blade. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=0</li> </ul> (1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No. (2) 20: LC blade
CM10	Assign the station number of an analog telephone for Caller ID-Station to the required Physical Port number.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No. (2) X-XXXXXXXX: Station No.
CM04	Specify Caller ID-station as the purpose of the Caller ID sender.	<ul style="list-style-type: none"> <li>Y=01</li> </ul> (1) 02 (2) 7◀: Caller ID-Station
CM12	Specify the calling party information which is sent to the analog telephone for Caller ID-Station.	<ul style="list-style-type: none"> <li>Y=20</li> </ul> (1) X-XXXXXXXX: Station No. (2) 0: Calling Party Number 1: Calling Party Number and Calling Party Name
CM08	Specify whether the calling station number is sent to the analog telephone for Caller ID-Station when an internal call is terminated.	(1) 507 (2) 0 : Not sent 1◀: To send
CM50	To call back from the analog telephone for Caller ID-Station, assign the access code to be added to the calling station number when an internal call is terminated.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) 8 (2) X-XXXX: Access Code to be added (Maximum 4 digits) X: 0-9, A (*), B (#)
A		

A	DESCRIPTION	DATA
CM08	Assign the Caller ID information sending format.	(1) 592 (2) 0 : CCITT V.23 Modem (Data Format: ETSI) 1◀: Bell 202 Modem
	(RESET)	
CM04	Specify the Single Line Telephone ringing signal from a trunk.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 06</li> <li>(2) 01 : ON</li> <li>02 : 2 seconds ON-4 seconds OFF</li> <li>03 : 1 second ON-2 seconds OFF</li> <li>04 : 0.5 seconds ON-0.5 seconds OFF</li> <li>05 : 0.25 seconds ON-0.25 seconds OFF</li> <li>06 : 0.5 seconds ON-0.5 seconds OFF -0.5 seconds ON-1.5 seconds OFF</li> <li>07 : 0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-5.25 seconds OFF</li> <li>08 : 0.375 seconds ON-0.25 seconds OFF-0.375 seconds ON-2 seconds OFF</li> <li>09 : 0.25 seconds ON-0.125 seconds OFF-0.25 seconds ON-0.125 seconds OFF-0.25 seconds ON -2 seconds OFF</li> <li>10 : 1 second ON-4 seconds OFF</li> <li>11 : 0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-4.25 seconds OFF</li> <li>12 : 1 second ON-3 seconds OFF</li> <li>13 : 0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-2.25 seconds OFF</li> <li>31◀: 2 seconds ON-4 seconds OFF</li> </ul>
		<b>NOTE</b>
CM41	Specify the timing of Caller ID station until sending Caller ID signal after the first ringer begins to send.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 123</li> <li>(2) 00-25: 0-2500 ms. (100 ms. increments)</li> </ul> If no data is set, the default setting is 1500 ms. (CM08>592: 0)/2500 ms. (CM08>592: 1).
	(RESET)	<b>NOTE</b>
CM08	Restrict One hit ringing for Call Forwarding-All Calls. (To restrict all stations in the system)	(1) 266 (2) 0: Restricted
B		

B	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to each station. (To restrict per Station Class)	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Restrict One hit ringing for Call Forwarding-All Calls to Service Restriction Class C assigned by CM12 Y=07. (To restrict per Station Class)	<ul style="list-style-type: none"> <li>• Y=081</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0: Restricted</li> </ul>
CM35	Specify the Calling Name display for Caller ID-station received on Facility in ISDN message. <b>[North America Only]</b>	<ul style="list-style-type: none"> <li>• Y=318</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul>
END		

**NOTE:** *Adjust the Caller ID signal so that the Caller ID signal to be sent between the first ringer and the second ringer.*



By the following programming, the Calling Party Number and the Calling Party Name sent from the network over CCIS can be displayed on the LCD of the analog telephone for Caller ID-Station.

START	DESCRIPTION	DATA
CM12	Specify the calling party information which is sent to the analog telephone for Caller ID-Station.	<ul style="list-style-type: none"> <li>• Y=20</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: Calling Party Number 1: Calling Party Number and Calling Party Name</li> </ul>
CM08	Specify whether the calling station number is sent to the analog telephone for Caller ID-Station when an internal call is terminated.	<ul style="list-style-type: none"> <li>(1) 507</li> <li>(2) 0 : Not sent 1 ◀: To send</li> </ul>
	Specify whether the calling party name is sent to the analog telephone for Caller ID-Station when an internal call is terminated.	<ul style="list-style-type: none"> <li>(1) 524</li> <li>(2) 0 : To send (Calling Party Name is sent) 1 ◀: Not sent (Calling Party Number is sent)</li> </ul>
	<p><b>NOTE 1:</b> <i>This data is effective only when the 2nd data of CM12 Y=20 is set to 1.</i></p>	
	<p><b>NOTE 2:</b> <i>For the programming for Calling Number Display-CCIS and Calling Name Display-CCIS, refer to the Networking Manual.</i></p>	
	Specify whether the sending of calling station number or calling party number to the analog telephone for Caller ID-Station is provided when an incoming call is terminated via CCIS/SIP Trunk.	<ul style="list-style-type: none"> <li>(1) 603</li> <li>(2) 0 : To provide 1 ◀: Not provided</li> </ul>
	<p><b>NOTE:</b> <i>The sending of a calling station number to the analog telephone for Caller ID-Station is effective when CM08&gt;507 is set to 1.</i></p>	
<u>END</u>		



To provide the Call Back by Analog telephone:

START	DESCRIPTION	DATA
CM08	Provide the Access Code to be added to the calling party number when incoming call from C.O. (This assignment is required to call back from the analog telephone for Caller ID-Station).	(1) 1210 (2) 0 : To provide 1◀: Not to provide
CM35	Assign the Trunk access code for Trunk-Direct Appearances Multiline Operation.	<ul style="list-style-type: none"> <li>• Y=189</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) X-XX : Trunk Access Code</li> <li>NONE◀: No data</li> </ul>
<u>END</u>		

## HARDWARE REQUIRED

Analog telephone with LCD which supports Caller ID  
LC blade

## CALLER ID-STATION (ETSI-FSK)

[For EMEA]

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### PROGRAMMING

Refer to CALLER ID-STATION. [📄 Page 1-185.](#)

## CID CALL ROUTING

### PROGRAMMING

For DID on ISDN, T1-ANI incoming calls:

(See SAMPLE DATA PROGRAMMING 1. [Page 1-196](#))

START	DESCRIPTION	DATA
CM35	Provide the incoming trunk route with digit conversion.	<ul style="list-style-type: none"> <li>Y=018</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
	Specify the Development Table for digit conversion.	<ul style="list-style-type: none"> <li>Y=170</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Development Table 1</li> <li>3◀: Development Table 0</li> </ul>
CM76	Assign the Number Conversion Block number for Development Table 0.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) X-XXXX: DID No. /Called No.</li> <li>(2) 000-999: Number Conversion Block No.</li> </ul> <p><b>NOTE</b></p>
	<b>NOTE:</b> When the Number Conversion Block number is assigned for CID Call Routing, do not use the same Number Conversion Block number for the DID feature.	
	Assign the Number Conversion Block number for Development Table 1.	<ul style="list-style-type: none"> <li>Y=90</li> <li>(1) X-XXXXXXXX: DID No. /Called No.</li> <li>(2) 000-999: Number Conversion Block No.</li> </ul> <p><b>NOTE</b></p>
	<b>NOTE:</b> When the Number Conversion Block number is assigned for CID Call Routing, do not use the same Number Conversion Block number for the DID feature.	
A		

A	DESCRIPTION	DATA
CM76	<p>Provide the calling number development and specify its Development Pattern for each Number Conversion Block number assigned by CM76 Y=00/90.</p> <p><b>NOTE:</b> <i>For non-DID on ISDN, Caller ID calls, this data is not effective and the data setting of CM35 Y=174 is effective.</i></p>	<ul style="list-style-type: none"> <li>• Y=26</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 0: To provide (Using Development Pattern 0)</li> <li>1: To provide (Using Development Pattern 1)</li> <li>2: To provide (Using Development Pattern 2)</li> </ul>
CM2A	<p>Assign the Development Block number for each calling party number.</p>	<ul style="list-style-type: none"> <li>• Y=50 Development Pattern 0 assigned by CM76 Y=26</li> <li>• Y=51 Development Pattern 1 assigned by CM76 Y=26</li> <li>• Y=52 Development Pattern 2 assigned by CM76 Y=26</li> <li>(1) X-XX....XX: Calling Party No. (Maximum 16 digits) X: 0-9</li> <li>(2) 000-999: Development Block No. <b>NOTE</b></li> </ul> <p><b>NOTE:</b> <i>Set the different number from the Number Conversion Block number assigned by CM76 Y=00/90.</i></p>
CM65	<p>Select the two kinds of mode change or the four kinds of mode change per each tenant.</p>	<ul style="list-style-type: none"> <li>• Y=29</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : Two kinds of mode (Day Mode, Night Mode)</li> <li>1◀: Four kinds of mode (Day Mode, Night Mode, Mode A, Mode B)</li> </ul>
CM76	<p>Assign the station tenant for each calling party number.</p>	<ul style="list-style-type: none"> <li>• Y=09</li> <li>(1) 000-999: Development Block No. assigned by CM2A Y=50/51/52</li> <li>(2) 00-63: Station Tenant No.</li> </ul>
B		

B

CM76

**DESCRIPTION**

**DATA**

Assign the data for interpreting the digits received.

**NOTE:** *Day/Night Mode, Mode A/B can be specified according to following conditions.*  
*1st priority:*  
*Specified by tenant number for each calling party number (CM76 Y=09)*  
*2nd priority:*  
*Specified by trunk tenant number (CM30 Y=01)*  
*3rd priority:*  
*Specified by tenant number for each DID number (CM76 Y=09)*

When CM76 Y=01/02/03/04 is set to "D13" (TAS), assign the terminating tenant for Day/Night Mode, Mode A/B per each calling party number.

**NOTE:** *When you set the other CM76 data (Y=10, 11, 13-16, 18-25) for the Development Block number assigned by CM2A Y=50/51/52, these settings are also effective for each calling party number.*

- Y=01 Day Mode
- Y=02 Night Mode
- Y=03 Mode A
- Y=04 Mode B
- (1) 000-999: Development Block No. assigned by CM2A Y=50/51/52
- (2) X-XXXXXXXX: Station No. to be terminated
- DXX: Change Terminating System to:
  - D02: Trunk-Direct Appearances
  - D03: Trunk-Direct Appearances + TAS
  - D04: Direct-In Termination
  - D09: Automated Attendant
  - D10: Attendant Console + TAS
  - D11: Attendant Console + Trunk-Direct Appearances
  - D12: Attendant Console + Trunk-Direct Appearances + TAS
  - D13: TAS
  - D14: Attendant Console
  - D16: Remote Access to System (DI-SA)
- Y=05 Day Mode
- Y=06 Night Mode
- Y=07 Mode A
- Y=08 Mode B
- (1) 000-999: Development Block No. assigned by CM2A Y=50/51/52
- (2) 00-63: Trunk Tenant No.

END

For non-DID on ISDN, Caller ID incoming calls:  
(See SAMPLE DATA PROGRAMMING 2. [Page 1-198](#) )

**NOTE:** *When a Called Party Subaddress is received from ISDN subscriber, CID Call Routing is not effective.*

START	DESCRIPTION	DATA
CM35	<p>Provide the calling number development and specify its Development Pattern for each trunk route number.</p> <p><b>NOTE:</b> <i>For DID on ISDN, T1-ANI calls, this data is not effective and the data setting of CM76 Y=26 is effective.</i></p>	<ul style="list-style-type: none"> <li>• Y=174</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide (Using Development Pattern 0)</li> <li>1: To provide (Using Development Pattern 1)</li> <li>2: To provide (Using Development Pattern 2)</li> </ul>
CM2A	<p>Assign the Development Block number for each calling party number.</p>	<ul style="list-style-type: none"> <li>• Y=50 Development Pattern 0 assigned by CM35 Y=174</li> <li>• Y=51 Development Pattern 1 assigned by CM35 Y=174</li> <li>• Y=52 Development Pattern 2 assigned by CM35 Y=174</li> <li>(1) X-XX....XX: Calling Party No. (Maximum 16 digits) X: 0-9</li> <li>(2) 000-999: Development Block No.</li> </ul>
CM65	<p>Select the two kinds of mode change or the four kinds of mode change per each tenant.</p>	<ul style="list-style-type: none"> <li>• Y=29</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : Two kinds of mode (Day Mode, Night Mode)</li> <li>1◀: Four kinds of mode (Day Mode, Night Mode, Mode A, Mode B)</li> </ul>
CM76	<p>Assign the station tenant for each calling party number.</p>	<ul style="list-style-type: none"> <li>• Y=09</li> <li>(1) 000-999: Development Block No. assigned by CM2A Y=50/51/52</li> <li>(2) 00-63: Station Tenant No.</li> </ul>
A		

A

CM76

**DESCRIPTION**

**DATA**

Assign the data for interpreting the digits received.

**NOTE:** *Day/Night Mode, Mode A/B can be specified according to following conditions.*

*1st priority:*

*Specified by tenant number for each calling party number (CM76 Y=09)*

*2nd priority:*

*Specified by trunk tenant number (CM30 Y=01)*

When CM76 Y=01/02/03/04 is set to "D13" (TAS), assign the terminating tenant for Day/Night Mode, Mode A/B per each calling party number received on DID call.

**NOTE:** *When you set the other CM76 data (Y=10, 11, 13-16, 18-25) for the Development Block number assigned by CM2A Y=50/51/52, these settings are also effective for each calling party number.*

- Y=01 Day Mode
- Y=02 Night Mode
- Y=03 Mode A
- Y=04 Mode B
- (1) 000-999: Development Block No. assigned by CM2A Y=50/51/52
- (2) X-XXXXXXXX: Station No. to be terminated
- DXX: Change Terminating System to:
  - D02: Trunk-Direct Appearances
  - D03: Trunk-Direct Appearances + TAS
  - D04: Direct-In Termination
  - D09: Automated Attendant
  - D10: Attendant Console + TAS
  - D11: Attendant Console + Trunk-Direct Appearances
  - D12: Attendant Console + Trunk-Direct Appearances + TAS
  - D13: TAS
  - D14: Attendant Console
  - D16: Remote Access to System (DI-SA)

- Y=05 Day Mode
- Y=06 Night Mode
- Y=07 Mode A
- Y=08 Mode B
- (1) 000-999: Development Block No. assigned by CM2A Y=50/51/52
- (2) 00-63: Trunk Tenant No.

END

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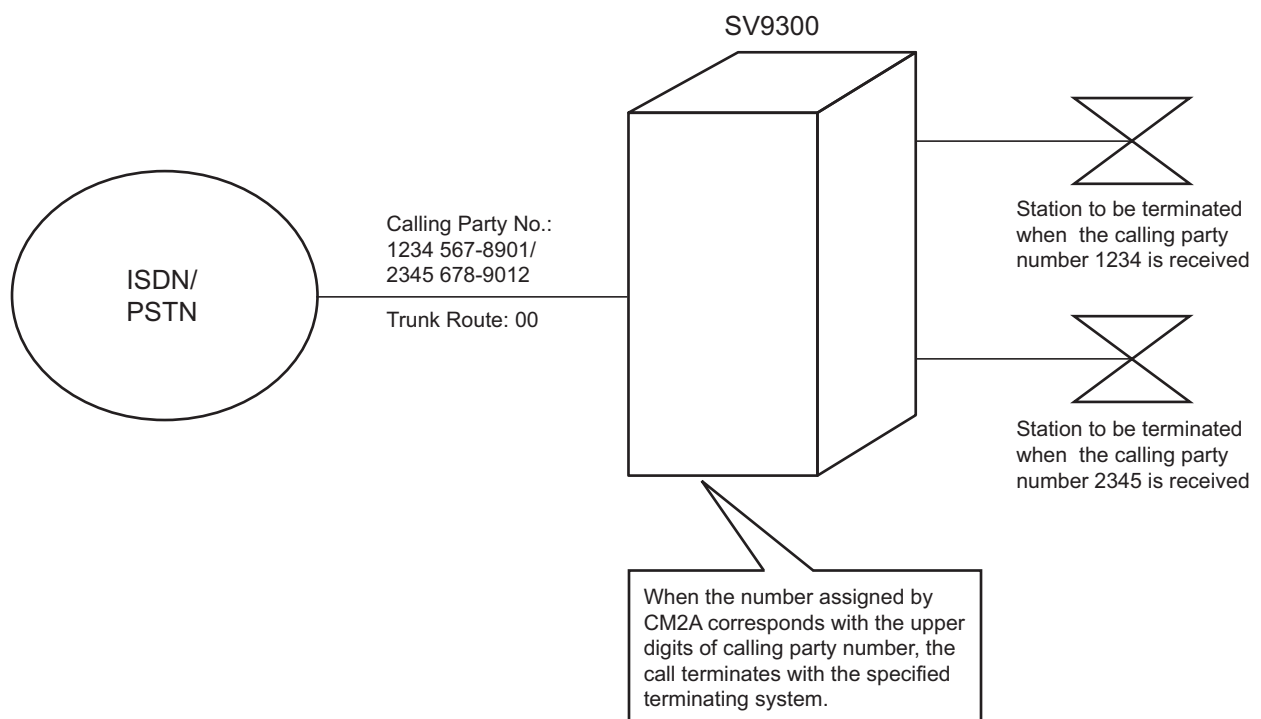
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## SAMPLE DATA PROGRAMMING 1

For DID on ISDN, T1-ANI incoming calls.

< Example >

- DID No. : 0123 456-7890
- Trunk Route No. : 00
- Calling Party No. : 1234 567-8901  
: 2345 678-9012
- Terminating System: TAS (Day Mode) when the number 1234 is received  
: Direct-In Termination (Day Mode) when the number 2345 is received
- Station Tenant No. : 01
- Trunk Tenant No. : 01





< Data Programming >

COMMAND	1st DATA	2nd DATA	REMARKS
CM30 Y=00	000	00	Assign the trunk route number 00 to the trunk number 000.
CM30 Y=02	000	18	Set the ISDN Indial for the incoming calls.
CM35 Y=012	00	3	Assign the number of digits to be received on DID to 4 digits.
CM35 Y=018	00	0	Provide the trunk route number 00 with digit conversion.
CM76 Y=00	7890	000	Assign the Number Conversion Block number 000 to the DID number 7890.
CM76 Y=26	000	0	Provide the calling number development with the Development Pattern 0 to the Number Conversion Block number 000.
CM2A Y=50	1234	010	Assign the Development Block number 010 for the calling party number 1234.
CM2A Y=50	2345	011	Assign the Development Block number 011 for the calling party number 2345.
CM76 Y=01	010	D13	Assign TAS in Day Mode to the Development Block number 010.
CM76 Y=01	011	D04	Assign Direct-In Termination in Day Mode to the Development Block number 011.
CM76 Y=09	010	01	Assign the station tenant number 01 to the Development Block number 010.
CM76 Y=05	010	01	Assign the trunk tenant number 01 to the Development Block number 010.

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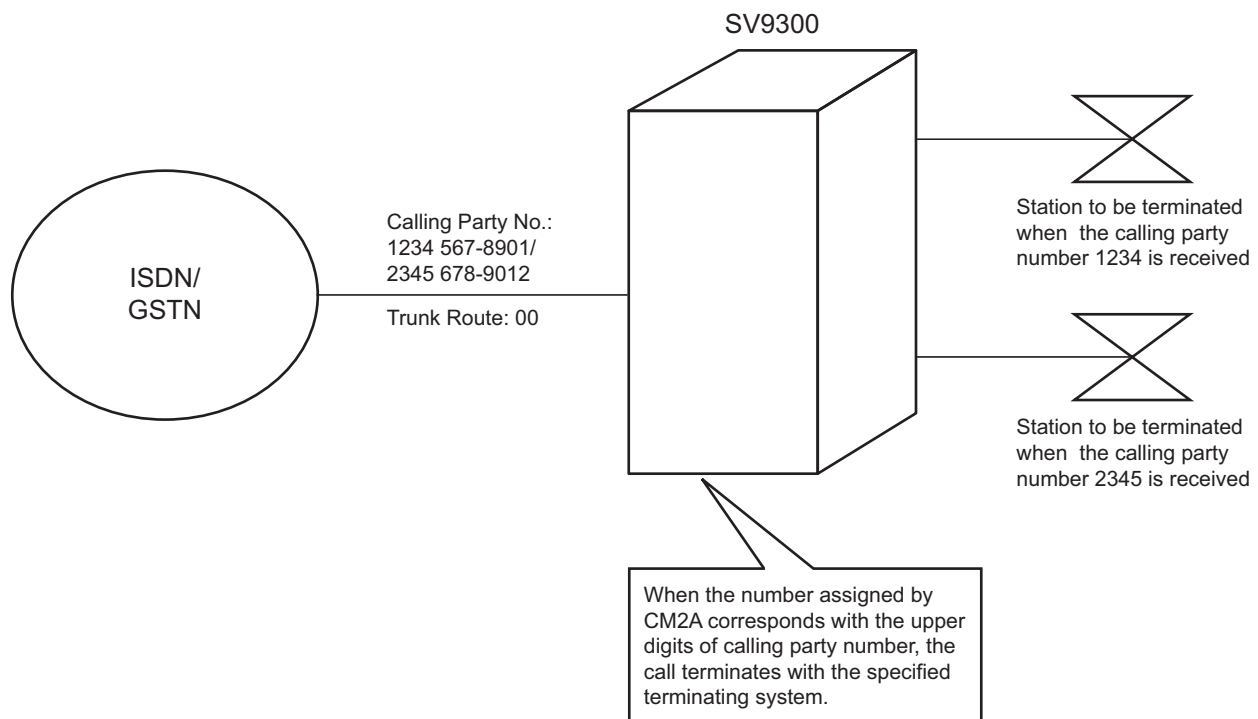
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## SAMPLE DATA PROGRAMMING 2

For non-DID on ISDN, Caller ID incoming calls.

< Example >

- Calling Party No. : 1234 567-8901  
                          : 2345 678-9012
- Trunk Route No. : 00
- Terminating System: TAS (Day Mode) when the number 1234 is received  
                          : Direct-In Termination (Day Mode) when the number 2345 is received
- Station Tenant No. : 01
- Trunk Tenant No. : 01



< Data Programming >

COMMAND	1st DATA	2nd DATA	REMARKS
CM35 Y=174	00	0	Provide the calling number development with the Development Pattern 0 for trunk route number 00.
CM2A Y=50	1234	020	Assign the Development Block number 020 for the calling party number 1234.
CM2A Y=50	2345	021	Assign the Development Block number 021 for the calling party number 2345.
CM76 Y=01	020	D13	Assign TAS in Day Mode to the Development Block number 020.
CM76 Y=01	021	D04	Assign Direct-In Termination in Day Mode to the Development Block number 021.
CM76 Y=09	020	01	Assign the station tenant number 01 to Development Block number 020.
CM76 Y=05	020	01	Assign the trunk tenant number 01 to Development Block number 020.

## NO CID CALL ROUTING

- For Direct Inward Dialing calls

START	DESCRIPTION	DATA
CM35	Provide the indication of reason why the calling number is not informed from network to trunk route.	<ul style="list-style-type: none"> <li>• Y=133</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To indicate</li> </ul>
CM76	<p>Specify whether the call terminating method is specified for DID incoming call with no CLI.</p> <p><b>NOTE:</b> <i>When the second data is set to 0, set the call termination method by CM76 Y=34, 65 and 66. When the second data is set to 1, set the call termination method by CM76 Y=34.</i></p> <p>Specify the call terminating method for all DID incoming call with no CLI or when reason of the incoming call with no CLI is "privacy".</p> <p><b>NOTE:</b> <i>Call terminating method is as follows.</i></p> <ul style="list-style-type: none"> <li>- When CM76 Y=33/35 is set to "0": <i>Specified for each reason of the incoming call with no CLI</i></li> <li>- When CM76 Y=33/35 is set to "1": <i>Specified for all incoming calls with no CLI</i></li> </ul>	<ul style="list-style-type: none"> <li>• Y=33 (For Day Mode)</li> <li>• Y=35 (For Night Mode/Mode A/Mode B)</li> <li>(1) 000-999: Block No.</li> <li>(2) 0 : Specified for each reason of the incoming call with no CLI</li> <li>1 : Specified for all incoming calls with no CLI</li> <li>3◀: Not specified</li> <li>• Y=34 (For Day Mode)</li> <li>• Y=36 (For Night Mode/Mode A/Mode B)</li> <li>(1) 000-999: Block No.</li> <li>(2) 0 : To transfer to the VRS/another station/Attendant console (assigned by CM51 Y=33)</li> <li>1 : To reject the call termination</li> <li>2 : To terminate the Multiline Terminal with Lamp indication/ringer tone/ringer pattern (assigned by CM76 Y=37, 38, 39)</li> <li>3◀: To terminate as usual</li> </ul>
A		

A	DESCRIPTION	DATA
CM76	<p>Specify the call terminating method when reason of the incoming call with no CLI is “Out of Area”.</p> <p><b>NOTE 1:</b> <i>This command is effective when 2nd data of CM76 Y=33/35 is set to 0 (Specified for each reason of the incoming call with no CLI).</i></p> <p><b>NOTE 2:</b> <i>Other reasons (the reason for absence of CLI is not received and CLI is not received) is in common with the setting of this command.</i></p>	<ul style="list-style-type: none"> <li>• Y=65 (For Day Mode)</li> <li>• Y=67 (For Night Mode/Mode A/Mode B)</li> </ul> <p>(1) 000-999: Block No.</p> <p>(2) 0 : To transfer to the VRS/another station/Attendant Console (assigned by CM51 Y=36)</p> <p>1 : To reject the call termination</p> <p>2 : To terminate Multiline Terminal with lamp indication/ringer tone/ringer pattern (assigned by CM76 Y=37/38/39)</p> <p>3◀: To terminate as usual</p>
B	<p>Specify the call terminating method when reason of the incoming call with no CLI is “Coin Box”.</p> <p><b>NOTE:</b> <i>This command is effective when 2nd data of CM76 Y=33/35 is set to 0 (Specified for each reason of the incoming call with no CLI).</i></p>	<ul style="list-style-type: none"> <li>• Y=66 (For Day Mode)</li> <li>• Y=68 (For Night Mode/Mode A/Mode B)</li> </ul> <p>(1) 000-999: Block No.</p> <p>(2) 0 : To transfer to the VRS/another station/Attendant Console (assigned by CM51 Y=36)</p> <p>1 : To reject the call termination</p> <p>2 : To terminate Multiline Terminal with lamp indication /ringer tone/ringer pattern (assigned by CM76 Y=37/38/39)</p> <p>3◀: To terminate as usual</p>

B

CM51

**DESCRIPTION**

**DATA**

Assign the destination of call forwarding when the calling number is not informed from network or when reason of the incoming call with no CLI is "privacy".

**NOTE 1:** *This command needs to be set when CM76 Y=34/36 is set to 0.*

**NOTE 2:** *Call terminating method for destination is as follows.*  
 - When CM76 Y=33/35 is set to "0": *Specified for each reason of the incoming call with no CLI*  
 - When CM76 Y=33/35 is set to "1": *Specified for all incoming calls with no CLI*

**NOTE 3:** *Assign the function of Voice Response System by CM49 Y=00 when this command is set to Voice Response System No.*

Assign the destination of call forwarding when reason of the incoming call with no CLI is "Out of Area".

**NOTE:** *This command is effective when 2nd data of CM76 Y=65/67 is set to 0.*

Assign the destination of call forwarding when reason of the incoming call with no CLI is "Coin Box".

**NOTE:** *This command is effective when 2nd data of CM76 Y=66/68 is set to 0.*

- Y=33
- (1) 00-63: Tenant No.
- (2) X-XXXXXXXXX: Station No.  
 E000 : Attendant  
 EB000-EB015: Voice Response System No.  
 NONE◀ : No data

- Y=36
- (1) 00-63: Tenant No.
- (2) X-XXXXXXXXX: Station No.  
 E000 : Attendant  
 EB000-EB015: Voice Response System No.  
 NONE◀ : No data

- Y=37
- (1) 00-63: Tenant No.
- (2) X-XXXXXXXXX: Station No.  
 E000 : Attendant  
 EB000-EB015: Voice Response System No.  
 NONE◀ : No data

C

C	DESCRIPTION	DATA
CM49	<p>Specify the function of Voice Response System.</p> <p><b>NOTE:</b> <i>This command is effective only when CM51 Y=33 is set to Voice Response System No.</i></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: Voice Response System No. assigned by CM51 Y=33</li> <li>(2) 2200 : Announcement Service for no Caller-ID</li> <li>NONE◀: No data</li> </ul>
CM76	<p>Specify a distinctive Lamp indication on Multiline Terminal for DID incoming call with no CLI.</p> <p><b>NOTE:</b> <i>This command is effective on the following conditions.</i></p> <ul style="list-style-type: none"> <li>• CM35 Y=032 is set to 1.</li> <li>• CM76 Y=34, 36, 65-68 are set to 0 or 2, and Multiline Terminal receives the incoming call.</li> </ul> <p>Specify the ringing tone interval of SLT or Multiline Terminal for DID incoming call with no CLI.</p> <p><b>NOTE 1:</b> <i>Assign this command when the terminal destination is SLT or Multiline Terminal.</i></p> <p><b>NOTE 2:</b> <i>This command is effective when CM76 Y=34, 36, 65-68 is set to 0 or 2.</i></p>	<ul style="list-style-type: none"> <li>• Y=37</li> <li>(1) 000-999: Block No.</li> <li>(2) 0 : Green (120 IPM)</li> <li>1◀: Red (120 IPM)</li> </ul> <ul style="list-style-type: none"> <li>• Y=38</li> <li>(1) 000-999: Block No.</li> <li>(2) 0 : 0.5 seconds ON-0.5 seconds OFF (Multiline Terminal)</li> <li>1 : 1 second ON-2 seconds OFF (SLT)</li> <li>1 : 0.5 seconds ON-0.5 seconds OFF - 0.5 seconds ON-1.5 seconds OFF (Multiline Terminal)</li> <li>0.4 seconds ON-0.2 seconds OFF - 0.4 seconds ON-2 seconds OFF (SLT)</li> <li>2 : 1 second ON-2 seconds OFF (Multiline Terminal or SLT)</li> <li>3◀: As per CM76 Y=22</li> </ul> <p><b>[For North America]</b></p>
D		

D

CM76

**DESCRIPTION**

**DATA**

Specify a Multiline Terminal Ringer Tone Pattern for DID incoming call with no CLI.

**NOTE 1:** *This command is effective when CM76 Y=34, 36, 65-68 is set to 0 or 2, and Multiline Terminal receives the incoming call.*

**NOTE 2:** *For details of the Ringer Tone Pattern, see CM64 Y=20-27 or CM65 Y=40.*

Specify a kind of call termination indicator key/lamp on Attendant console for DID incoming call with no CLI.

**NOTE:** *The command is effective when CM76 Y=34, 36, 65-68 is set to 0, and the destination of call forwarding is Attendant console.*

- Y=39
- (1) 000-999: Block No.
- (2) 0 : Ringer Tone Pattern 0
- 1 : Ringer Tone Pattern 1
- 2 : Ringer Tone Pattern 2
- 3 : Ringer Tone Pattern 3
- 4 : Ringer Tone Pattern 4
- 5 : Ringer Tone Pattern 5
- 6 : Ringer Tone Pattern 6
- 7◀: As per CM76 Y=23

- Y=40
- (1) 000-999: Block No.
- (2) 0 : C.O. Incoming Call 0
- 1 : C.O. Incoming Call 1
- 2 : C.O. Incoming Call 2
- 3 : C.O. Incoming Call 3
- 4 : C.O. Incoming Call 4
- 5 : C.O. Incoming Call 5
- 6 : C.O. Incoming Call 6
- 7◀: As per CM35 Y=015

END



- For Ring Down calls

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CM35</div>	<p>Provide the indication of reason why the calling number is not informed from network to trunk route.</p>	<ul style="list-style-type: none"> <li>• Y=133</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To indicate</li> </ul>
	<p>Specify whether the call terminating method is specified for incoming call with no CLI.</p>	<ul style="list-style-type: none"> <li>• Y=254 (For Day Mode)</li> <li>• Y=256 (For Night Mode/Mode A/Mode B)</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Specified for each reason of the incoming call with no CLI               <ul style="list-style-type: none"> <li>1 : Specified for all incoming call with no CLI</li> <li>3◀: Not specified</li> </ul> </li> </ul>
	<p><b>NOTE:</b> <i>To specify call terminating methods, use CM35 Y=255/257/343-346.</i></p>	
	<p>Specify the call terminating method for all DID incoming call with no CLI or when reason of the incoming call with no CLI is “privacy”.</p>	<ul style="list-style-type: none"> <li>• Y=255 (For Day Mode)</li> <li>• Y=257 (For Night Mode/Mode A/Mode B)</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : To transfer to the VRS/another station/Attendant console (assigned by CM51 Y=33)               <ul style="list-style-type: none"> <li>1 : To reject the call termination</li> <li>2 : To terminate the Multiline Terminal with unusual LED indication (assigned by CM35 Y=258)</li> <li>3◀: To terminate as usual</li> </ul> </li> </ul>
	<p><b>NOTE:</b> <i>Call terminating method for destination is as follows.</i></p> <ul style="list-style-type: none"> <li>- When CM35 Y=254/256 is set to “0”: Specified for each reason of the incoming call with no CLI</li> <li>- When CM35 Y=254/256 is set to “1”: Specified for all incoming calls with no CLI</li> </ul>	
	<p>Specify the call terminating method when reason of the incoming call with no CLI is “Out of Area”.</p>	<ul style="list-style-type: none"> <li>• Y=343 (For Day Mode)</li> <li>• Y=345 (For Night Mode/Mode A/Mode B)</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : To transfer to the VRS/another station/Attendant Console (assigned by CM51 Y=36)               <ul style="list-style-type: none"> <li>1 : To reject the call termination</li> <li>2 : To terminate the Multiline Terminal with unusual LED indication (assigned by CM35 Y=258)</li> <li>3◀: To terminate as usual</li> </ul> </li> </ul>
	<p><b>NOTE 1:</b> <i>This command is effective when 2nd data of CM35 Y=254/256 is set to 0 (Specified for each reason of the incoming call with no CLI).</i></p>	
	<p><b>NOTE 2:</b> <i>Other reasons (the reason for absence of CLI is not received and CLI is not received) are in common with the setting of this command.</i></p>	
<div style="border: 1px solid black; padding: 2px; width: fit-content; text-align: center;">A</div>		

A	DESCRIPTION	DATA
CM35	<p>Specify the call terminating method when reason of the incoming call with no CLI is “Coin Box”.</p> <p><b>NOTE:</b> <i>This command is effective when 2nd data of CM35 Y=254/256 is set to 0 (Specified for each reason of the incoming call with no CLI).</i></p>	<ul style="list-style-type: none"> <li>• Y=344 (For Day Mode)</li> <li>• Y=346 (For Night Mode/Mode A/Mode B)</li> </ul> <p>(1) 00-63: Trunk Route No.</p> <p>(2) 0 : To transfer to the VRS/another station/Attendant Console (assigned by CM51 Y=36)</p> <p>1 : To reject the call termination</p> <p>2 : To terminate the Multiline Terminal with unusual LED indication (assigned by CM35 Y=258)</p> <p>3◀: To terminate as usual</p>
CM51	<p>Assign the destination of call forwarding when the calling number is not informed from network or when reason of the incoming call with no CLI is “privacy”.</p> <p><b>NOTE 1:</b> <i>This command needs to be set when CM35 Y=255/257 is set to 0.</i></p> <p><b>NOTE 2:</b> <i>Call terminating method for destination is as follows.</i></p> <ul style="list-style-type: none"> <li>- When CM35 Y=254/256 is set to “0”: <i>Specified for each reason of the incoming call with no CLI</i></li> <li>- When CM35 Y=254/256 is set to “1”: <i>Specified for all incoming calls with no CLI</i></li> </ul> <p><b>NOTE 3:</b> <i>Assign the function of Voice Response System by CM49 Y=00 when this command is set to Voice Response System No.</i></p>	<ul style="list-style-type: none"> <li>• Y=33</li> </ul> <p>(1) 00-63: Tenant No.</p> <p>(2) X-XXXXXXXX: Station No.</p> <p>E000 : Attendant</p> <p>EB000-EB015: Voice Response System No.</p> <p>NONE◀ : No data</p>
B		

B	DESCRIPTION	DATA
CM51	<p>Assign the destination of call forwarding when reason of the incoming call with no CLI is "Out of Area".</p> <p><b>NOTE:</b> <i>This command is effective when 2nd data of CM35 Y=343/345 is set to 0.</i></p> <p>Assign the destination of call forwarding when reason of the incoming call with no CLI is "Coin Box".</p> <p><b>NOTE:</b> <i>This command is effective when 2nd data of CM35 Y=344/346 is set to 0.</i></p>	<ul style="list-style-type: none"> <li>• Y=36</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXXXXX: Station No. E000 : Attendant EB000-EB015: Voice Response System No. NONE◀ : No data</li> </ul> <ul style="list-style-type: none"> <li>• Y=37</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXXXXX: Station No. E000 : Attendant EB000-EB015: Voice Response System No. NONE◀ : No data</li> </ul>
CM49	<p>Specify the function of Voice Response System.</p> <p><b>NOTE:</b> <i>This command is effective only when CM51 Y=33 is set to Voice Response System No.</i></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015 : Voice Response System No. assigned by CM51 Y=33</li> <li>(2) 2200 : Announcement Service for no Caller-ID NONE◀: No data</li> </ul>
CM35	<p>Specify a distinctive Lamp indication on Multiline Terminal for incoming call with no CLI.</p> <p><b>NOTE:</b> <i>This command is effective on the following conditions.</i></p> <ul style="list-style-type: none"> <li>• CM35 Y=032 is set to 1.</li> <li>• CM35 Y=255, 257, 343-346 are set to 0 or 2, and Multiline Terminal receives the incoming call.</li> </ul>	<ul style="list-style-type: none"> <li>• Y=258</li> <li>(1) 0 : Green (120 IPM)</li> <li>(2) 1◀: Red (120 IPM)</li> </ul>
<u>END</u>		

## HARDWARE REQUIRED

Multiline Terminal with LCD and DLC blade  
CPU blade (VRS using a built-in Flash ROM)

# CAMP-ON/CALL WAITING

## PROGRAMMING

### Camp-On (Transfer Method)

START	DESCRIPTION	DATA
CM08	Provide the system with the Camp-On by Station feature.	<ul style="list-style-type: none"> <li>(1) 146: Automatic Camp-On</li> <li>(2) 0: Available</li> </ul>
CM12	Assign Service Restriction Class A for Camp-On to the required stations.	<ul style="list-style-type: none"> <li>(1) 147: Manual Camp-On (Result of Switch Hook-Flash while hearing Busy Tone)</li> <li>(2) 0: The station hears Special Dial Tone and use of Camp-On access code is allowed</li> </ul> <ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Camp-On (Transfer Method) in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=016 Transfer Method</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM08	Specify the Camp-On Tone sent to a busy station by Camp-On Transfer Method.	<ul style="list-style-type: none"> <li>(1) 068</li> <li>(2) 0 : Only once 1◀: Every 4 seconds</li> </ul>
CM41	Specify the timing for the Camp-On Recall Timer.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 26</li> <li>(2) 01-15: 16-128 seconds (8 second increments)</li> </ul> <p>If no data is set, the default setting is 24-32 seconds.</p>
CM20	Assign an access code for Camp-On by Station (Transfer method).	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A007: Camp-On by Station (Transfer method)</li> </ul>
END		

Camp-On (Call Waiting Method)

START	DESCRIPTION	DATA
CM08	Provide the system with the Camp-On by Station feature.	<ul style="list-style-type: none"> <li>(1) 146: Automatic Camp-On</li> <li>(2) 0: Available</li> </ul>
CM12	Assign Service Restriction Class A for Camp-On to the required stations.	<ul style="list-style-type: none"> <li>(1) 147: Manual Camp-On (Result of Switch Hook Flash while hearing Busy Tone)</li> <li>(2) 0: The station hears Special Dial Tone and use of Camp-On access code is allowed</li> </ul>
CM15	Allow Call Waiting in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM20	Assign the access code for Camp-On by Station (Call Waiting Method).	<ul style="list-style-type: none"> <li>• Y=043 Call Waiting Set from calling side</li> <li>• Y=044 Call Waiting Answer from called side</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM90	Assign a Call Waiting key to the Multiline Terminals, as required.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A125: Camp-On by Station (Call Waiting Method)</li> </ul>
CM48	Specify the hold tone sent to other party on answering Call Waiting.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F0A25: Call Waiting</li> </ul>
CM35	Provide DID Call Waiting to the trunk routes assigned by CM30.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 17</li> <li>(2) 0 : No Tone 1◀: Hold Tone</li> </ul>
CM35	Provide DID Call Waiting to the trunk routes assigned by CM30.	<ul style="list-style-type: none"> <li>• Y=059 Call Waiting for DID call</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
END		

**NOTE 1:** For the data assignment of the Answer key to answer a Camp-On call from a Multiline Terminal, refer to ANSWER KEY. [☞ Page 1-20](#)

**NOTE 2:** For data assignment of DID Call Waiting, refer to DID CALL WAITING. [☞ Page 1-299](#)

When using a Single Digit Feature Access Code for Camp-On, add the following system data.

START	DESCRIPTION	DATA
CM08	To activate the Single Digit Feature Access Code, set the data for 050, 051, 069 and 148 to "1".	(1) 050: * button as Switch Hook Flash (2) 1◀: Ineffective  (1) 051: # button as Switch Hook Flash (2) 1◀: Ineffective  (1) 069: Single Digit Dialing on BT Connection (2) 1◀: Step Call  (1) 148: Same Last Digit Redialing on BT Connection (2) 1◀: Ineffective
<u>END</u>	Provide the System with the Single Digit Feature Access Code on BT Connection.	(1) 208 (2) 0: Available

# CENTREX COMPATIBILITY

[For North America]

## PROGRAMMING

### (1) Basic Data Assignment

In addition to the programming of DIRECT OUTWARD DIALING (DOD) [Page 1-318](#), do the following programming.

START	DESCRIPTION	DATA
CM35	Provide the Centrex Trunk function to the required trunk routes.  Provide the capability for sending a hookflash signal to the Centrex.	<ul style="list-style-type: none"> <li>• Y=086</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: Centrex Trunk</li> </ul> <ul style="list-style-type: none"> <li>• Y=016</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Sending</li> </ul>
CM20	Assign the access code for sending a hookflash signal to the Centrex Line from a PB Single-Line Telephone.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A158</li> </ul>
CM93	Assign the Centrex Trunk as a Prime Line to the desired Multiline Terminal extension.	<ul style="list-style-type: none"> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) D000-D511: Trunk No.</li> </ul>
CM08	Specify the function that transfers a trunk line placed in Consultation Hold by Recall Key (Hold Transfer).	<ul style="list-style-type: none"> <li>(1) 1001</li> <li>(2) 0 : Available (Hold Transfer)</li> <li>1◀: Not available (Recall)</li> </ul>
END		

## (2) Data Assignment for Sending the Hooking Signal to T1 Network

To send the hooking signal to T1 network, do the following programming in addition to the programming of “(1) Basic Data Assignment”. [Page 1-211](#)

**[9300V5 software required]**

START	DESCRIPTION	DATA
CM35	Provide the capability for sending a Hook Flash Signal to the Centrex.	<ul style="list-style-type: none"> <li>• Y=016</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Sending</li> </ul>
CM90	Provide the Multiline Terminal Key Assignments.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1009: Hooking Signal sent to outside (SHF)</li> </ul>
CM41	Provide the capability for sending a Hook Flash Signal Transmit time.	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 57: 1.5M (T1: Loop Start) DTI Hook Flash Send Time</li> <li>(2) 01-99: 100-9900 ms. (100 ms. increments)</li> </ul> <p>If no data is set, the default setting is 600 ms.</p>
END	<b>BLADE RESET</b>	



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## CLASS OF SERVICE

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### PROGRAMMING

To assign the Telephone Class:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	<p>Assign the type of telephone to each station.</p> <p><b>NOTE:</b> <i>This data setting is not required for a Multiline Terminal.</i></p> <p>Assign the Telephone Class to each station.</p>	<ul style="list-style-type: none"> <li>• Y=00 Type of Telephone</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1 : DP (Rotary Dial Telephone)</li> <li>2 : DTMF (Push Button Telephone)</li> <li>3◀: DP/DTMF</li> </ul> <ul style="list-style-type: none"> <li>• Y=03 Telephone Class</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00 : House Phone 0/FAX Call Station Group No. 0</li> <li>01 : House Phone 1/FAX Call Station Group No. 1</li> <li>02 : House Phone 2/FAX Call Station Group No. 2</li> <li>03 : House Phone 3/FAX Call Station Group No. 3</li> <li>04 : Hot Line</li> <li>05 : Automatic Intercom</li> <li>06 : Manual Intercom</li> <li>07 : Dial Intercom</li> <li>08 : Attendant Position Loop Line</li> <li>09 : Delayed Hotline</li> <li>15◀: Ordinary Station</li> </ul>
<u>END</u>		

To assign the Trunk Restriction Class:

START	DESCRIPTION	DATA
CM12	Assign the Trunk Restriction Class to each station.	<ul style="list-style-type: none"> <li>• Y=01 Trunk Restriction Class</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X Z</li> <li style="padding-left: 20px;">X: 1◀-8: Trunk Restriction Class in Day Mode</li> <li style="padding-left: 20px;">Z: 1◀-8: Trunk Restriction Class in Night Mode</li> <li style="padding-left: 40px;">1: Unrestricted (RCA)</li> <li style="padding-left: 40px;">2: Non-Restricted 1 (RCB)</li> <li style="padding-left: 40px;">3: Non-Restricted 2 (RCC)</li> <li style="padding-left: 40px;">4: Semi-Restricted 1 (RCD)</li> <li style="padding-left: 40px;">5: Semi-Restricted 2 (RCE)</li> <li style="padding-left: 40px;">6: Restricted 1 (RCF)</li> <li style="padding-left: 40px;">7: Restricted 2 (RCG)</li> <li style="padding-left: 40px;">8: Fully-Restricted (RCH)</li> </ul>
CM35	Set the Outgoing/Incoming Trunk Route Restriction Data by Trunk Restriction Classes.	<ul style="list-style-type: none"> <li>• Y=051-058 Outgoing Trunk Restriction Data (RCA-RCH)</li> <li>• Y=061-068 Incoming Trunk Restriction Data (RCA-RCH)</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Restricted</li> <li style="padding-left: 20px;">1◀: Allow</li> </ul>
END		

To assign the Service Restriction Class:

START	DESCRIPTION	DATA
CM12	Assign the required Service Restriction Class to each station. Service Restriction categories for each class are specified by CM15.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ               <ul style="list-style-type: none"> <li>XX: 00-15◀: Service Restriction Class A</li> <li>ZZ : 00-15◀: Service Restriction Class B</li> </ul> </li> </ul>
CM15	Specify the services in each Service Class A, B, and C.  <b>NOTE:</b> <i>For details, refer to Command Manual.</i>	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul> <ul style="list-style-type: none"> <li>(1) 00-15: Service Restriction Class A, B, C</li> <li>(2) 0 : <b>NOTE</b></li> <li>1◀: <b>NOTE</b></li> </ul>
END		

# CODE RESTRICTION

## PROGRAMMING

- (1) To originate a call with Individual Trunk Access/Route Advance Block (CM20 Y=0-3: 1XX/2XX)

START	DESCRIPTION	DATA
<p>CM12</p>	<p>Assign a Trunk Restriction Class to each station.</p>	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X Z: Trunk Restriction Class               <ul style="list-style-type: none"> <li>X: 1◀-8: In Day Mode</li> <li>Z: 1◀-8: In Night Mode                   <ul style="list-style-type: none"> <li>1: Unrestricted (RCA)</li> <li>2: Non-Restricted 1 (RCB)</li> <li>3: Non-Restricted 2 (RCC)</li> <li>4: Semi-Restricted 1 (RCD)</li> <li>5: Semi-Restricted 2 (RCE)</li> <li>6: Restricted 1 (RCF)</li> <li>7: Restricted 2 (RCG)</li> <li>8: Fully-Restricted (RCH)</li> </ul> </li> </ul> </li> </ul>
<p>CM35</p>	<p>Provide the Toll Restriction feature to the required trunk routes.</p> <p>Assign the Area Code Development Pattern number for Toll Restriction and Maximum Digit Analysis to each trunk route.</p>	<ul style="list-style-type: none"> <li>• Y=011</li> <li>(1) 00-63: Trunk Route No. (00)</li> <li>(2) 0: To provide</li> <li>• Y=076</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00-04: Area Code Development Pattern No. 0-4</li> </ul>
<p>CM85</p>	<p>Specify the maximum number of sending digits to be dialed during an outgoing call. The maximum number of sending digits, including the area codes, should be assigned to each area code.</p>	<ul style="list-style-type: none"> <li>• Y=0-4 Area Code Development Pattern No. 0-4 assigned by CM35 Y=076</li> <li>(1) X-X...X: Area Code dialed, Maximum 8 digits</li> <li>(2) 01-24◀: 1 digit-24 digits 25-79 : 25-79 digits</li> </ul>
<p>A</p>		

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A	DESCRIPTION	DATA
CM8A	<p>Assign the area code to be restricted and the Trunk Restriction Pattern number assigned by CM81 to the Area Code Development Pattern number assigned by CM35 Y=076.</p> <p>For example, to provide the Trunk Restriction Class “RCB, RCC, RCD, and RCE” with the Toll Restriction for Area Code “00”:</p> <ul style="list-style-type: none"><li>• Area Code=00</li><li>• Trunk Restriction Pattern=05</li></ul> <p>(See Toll Restriction Pattern Table on CM81. <a href="#">Page 1-219</a>)</p>	<ul style="list-style-type: none"><li>• Y=4000-4004 Area Code Development No. 0-4</li><li>(1) Area Code (Maximum 8 digits)</li><li>(2) B000-B015: Trunk Restriction Pattern 00-15</li></ul>
<u>END</u>		

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(2) To use Least Cost Routing (CM20 Y=0-3: A126-A129)

START	DESCRIPTION	DATA
CM08	Provide the system with the Toll Restriction feature for an outgoing call by System Speed Dialing/Station Speed Dialing, if desired.	(1) 035: Station Speed Dialing (2) 0 : Not provided 1◀: To provide
	Provide the system with Toll Diversion or Toll Denial.	(1) 044: System Speed Dialing (2) 0 : Not provided 1◀: To provide  (1) 119 (2) 0 : Toll Diversion (Routed to the "ICPT" key on the DESKCON) 1◀: Toll Denial (Routed to Reorder Tone)
CM12	Assign a Trunk Restriction Class to each station.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X Z: Trunk Restriction Class                X: 1◀-8: In Day Mode                Z: 1◀-8: In Night Mode                    1: Unrestricted (RCA)                    2: Non-Restricted 1 (RCB)                    3: Non-Restricted 2 (RCC)                    4: Semi-Restricted 1 (RCD)                    5: Semi-Restricted 2 (RCE)                    6: Restricted 1 (RCF)                    7: Restricted 2 (RCG)                    8: Fully-Restricted (RCH)             </li> </ul>
CM35	Assign the data for Dial Pulse sending to the Route number assigned.	<ul style="list-style-type: none"> <li>• Y=008 Dial Pulse Sending</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 3◀: To send</li> </ul>
	Provide the Toll Restriction feature to the required trunk routes.	<ul style="list-style-type: none"> <li>• Y=011</li> <li>(1) 00-63: Trunk Route No. (00)</li> <li>(2) 0: To provide</li> </ul>
	Specify outgoing route access capability for each restriction class.	<ul style="list-style-type: none"> <li>• Y=051-058 (RCA-RCH)</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Restricted                1◀: Allow</li> </ul>
A		

A

**DESCRIPTION**

**DATA**

CM35

Assign the Area Code Development Pattern number for Toll Restriction and Maximum Digit Analysis to each trunk route.

- Y=076
- (1) 00-63: Trunk Route No.
- (2) 00-04: Area Code Development Pattern No. 0-4

CM81

Assign the Toll Restriction Pattern No. with eight kinds of Trunk Restriction Classes assigned by CM12 Y=01. Toll Restriction Patterns 00-15 are preassigned as shown below. If a new Restriction Pattern is required, change the data for Restriction Patterns 01-13 (00, 14 and 15 are fixed).

- Y=01-13 Toll Restriction Pattern No. 01-13
- (1) 1-8: Trunk Restriction Class
- (2) 0: Restricted  
3: Allowed

TRUNK RESTRICTION CLASS		Y															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
		TOLL RESTRICTION PATTERN NUMBER ON EACH TRUNK RESTRICTION CLASS															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
1	RCA	3	0	3	3	3	0	0	0	3	3	3	3	3	0	3	0
2	RCB	3	0	3	3	0	0	0	0	3	3	0	0	0	0	3	0
3	RCC	3	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0
4	RCD	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
5	RCE	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
6	RCF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
7	RCG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
8	RCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0

0: Restricted  
3: Allowed

CM85

Specify the maximum number of sending digits to be dialed during an outgoing call. The maximum number of sending digits, including the area codes, should be assigned to each area code.

- Y=0-4 Area Code Development Pattern No. 0-4 assigned by CM35 Y=076
- (1) X-X...X: Area Code dialed, Maximum 8 digits
- (2) 01-24 : 1 digit-24 digits  
25-79 : 25-79 digits

B

B	DESCRIPTION	DATA
CM8A	<p>Assign a Trunk Restriction Pattern number assigned by CM81 to the Area Code Development Pattern number assigned by CM35 Y=076.</p> <p>If the Toll Restriction Pattern for the same area code is changed according to the Tenant, Date, and Time, assign the required patterns (Tenant, Date, and Time) to the area code.</p>	<ul style="list-style-type: none"> <li>• Y=5000-5255 TR Pattern No.</li> <li>(1) 000</li> <li>(2) 00-15 ◀: Trunk Restriction Pattern No. 00-15</li> </ul>
C		



C	DESCRIPTION	DATA
CM8A	To add a Tenant Pattern:	
	<b>STEP1:</b> Assign the area code to be restricted and a Tenant Pattern number to the Area Code Development Pattern number assigned by CM35 Y=076.	<ul style="list-style-type: none"> <li>• Y=4000-4004 Area Code Development Pattern No. 0-4</li> <li>(1) Area Code (Maximum 8 digits)</li> <li>(2) 1000-1015: Tenant Pattern No. 00-15</li> </ul>
	<b>STEP2:</b> Assign a Tenant number and the Route Pattern number to the Tenant Pattern number assigned by Step1.	<ul style="list-style-type: none"> <li>• Y=1000-1015 Tenant Pattern No. 00-15</li> <li>(1) 00-63: Tenant No. 00-63</li> <li>(2) 0000-0255: Route Pattern No. 000-255</li> </ul>
	<b>STEP3:</b> Assign a TR Pattern number to the Route Pattern number assigned by Step 2.	<ul style="list-style-type: none"> <li>• Y=0000-0255 Route Pattern No. 000-255</li> <li>(1) 1</li> <li>(2) XXX 00 XXX: 000-255: TR Pattern No.</li> </ul>
	<b>STEP4:</b> Assign a Trunk Restriction Pattern number assigned by CM81 to the TR Pattern number assigned by Step 3.	<ul style="list-style-type: none"> <li>• Y=5000-5255 TR Pattern No.</li> <li>(1) 000</li> <li>(2) 00-15◀: Trunk Restriction Pattern No. 00-15</li> </ul>
	To add a Time and Date Pattern:	
	<b>STEP1:</b> Assign the area code to be restricted and a Date Pattern number to the Area Code Development Pattern number assigned by CM35 Y=076.	<ul style="list-style-type: none"> <li>• Y=4000-4004</li> <li>(1) Area Code (Maximum 8 digits)</li> <li>(2) 3000-3003: Date Pattern No. 0-3</li> </ul>
	<b>STEP2:</b> Assign a date and Time Pattern No. 0-7 to the Date Pattern number assigned by Step 1.	<ul style="list-style-type: none"> <li>• Y=3000-3003 Date Pattern No. 0-3</li> <li>(1) 0-6 (Date) 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday</li> <li>(2) 2000-2007: Time Pattern No. 0-7</li> </ul>
	Set the data for all dates, one by one, for which Toll Restriction is to be applied.	
D		

D	DESCRIPTION	DATA
CM8A	<p><b>STEP3:</b> Assign the starting time for the Toll Restriction and Route Pattern number to the Time Pattern number assigned by Step 2. Set the Starting Time as shown below.</p> <p><b>NOTE:</b> <i>Two times must be set. The first to start Toll Restriction and the second to stop it (or change it back).</i></p> <p><b>STEP4:</b> Assign the TR Pattern number to the Route Pattern number assigned by Step 3.</p> <p><b>STEP5:</b> Assign the Toll Restriction Pattern number assigned by CM81 to the TR Pattern number assigned by Step 4.</p>	<ul style="list-style-type: none"> <li>• Y=2000-2007 Time Pattern No. 0-7</li> <li>(1) HHMM (Time to Change) HH : 00-23: Hours MM: 00/30: Minutes</li> <li>(2) 0000-0255: Route Pattern No. 000-255 If Tenant Pattern is required, set 1000-1015 (Tenant Pattern No. 00-15).</li> </ul> <ul style="list-style-type: none"> <li>• Y=0000-0255 Route Pattern No. 000-255</li> <li>(1) 1</li> <li>(2) XXX 00 XXX: 000-255: TR Pattern No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=5000-5255 TR Pattern No. 000-255</li> <li>(1) 000</li> <li>(2) 00-15◀: Toll Restriction Pattern No. 00-15</li> </ul>
<u>END</u>		

## CONFERENCE (THREE/FOUR PARTY)

### PROGRAMMING

To provide a conference by calling another party as the third party of the conference:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CM08</div>	Provide the system with three-party conference.	(1) 101 (2) 1◀: Three Party Conference among stations
	Provide the system with a four-party conference.	(1) 102 (2) 0: As per CM08>101
		(1) 103 (2) 0: As per CM08>104
		(1) 104 (2) 1◀: Three Party Conference among stations and trunk call
		(1) 246 (2) 1◀: Four Party Conference
	<p><b>NOTE:</b> <i>This feature can only be activated from a Multiline Terminal.</i></p>	
<u>END</u>		

To provide a conference by adding a held call as the third party of the conference:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B for Conference leader.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	Allow Privacy Release in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=063 Privacy Release</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM65	Allow adding the held call on Multiline Terminal as a third party of the conference.	<ul style="list-style-type: none"> <li>• Y=41</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0: Allow</li> </ul>
<u>END</u>		

## CONFERENCE (16 PARTY)

**NOTE:** *This feature is not available because PVA blade is not available any more.*

### PROGRAMMING

To provide Meet-Me Conference (16-Party) with PVA blade, do the following programming.

(1) PVA Port Assignment

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM05</div>	Assign a Unit and Slot number to the PVA blade. <div style="text-align: center; margin-top: 10px;"> <div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; display: inline-block;">BLADE RESET</div> </div>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX YY                          XX: 01-50: Unit No.                          YY: 01-18: Slot No.</li> <li>(2) 71: Conference blade (PVA blade)</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM10</div>	Assign the station number for the Conference trunk (PVA blade) to the associated Physical Port Number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No.                          XX: 01-50: Unit No.                          YY: 01-18: Slot No.                          ZZ : 01-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
<div style="text-align: center;"><u>END</u></div>		

(2) Station Hunting Assignment

START	DESCRIPTION	DATA
CM11	Assign the Virtual Line station number for Conference Pilot Station to the required Virtual Port number.	(1) 0000-0999: Virtual Port No. (2) X-XXXXXXXX: Virtual Line Station No.
CME5	Set or cancel make-busy to stations.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Virtual Line Station No.</li> <li>(2) 0: Make-busy set</li> </ul>
CM18	To set up each Station Hunting group, assign station numbers, one by one, as shown below.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Station No. to be included in Station Hunting Group</li> <li>(2) X-XXXXXXXX: Another Station No. to be included in the Same Hunting Group</li> </ul>
	1st Operation [ (1) Station A (2) Station B 2nd Operation [ (1) Station B (2) Station C	
	Assign the pilot station to required station number within the Hunting group. For the member stations, set the data to "0".	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0◀: Member Station                          1 : Pilot Station</li> </ul>
	<p><b>NOTE 1:</b> Station number within a same PVA blade must be assigned as the station to be included in one Hunting Group because the conference is available only for station within a same PVA blade.</p>	
	<p><b>NOTE 2:</b> The maximum number of stations that can be included in one Station Hunting group is 16 including the Pilot Station.</p>	
END		

(3) Network Data Assignment for PVA Blade

START	DESCRIPTION	DATA	
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CMEE</div>	Assign the IP Address for the Conference blade (PVA).	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) XX ZZ                          XX: 01-50: Unit No.                          ZZ : 01-18: Slot No.</li> <li>(2) XXX.XXX.XXX.XXX:                          0.0.0.1-255.255.255.254:                          IP Address (Maximum 15digits)                          NONE◀: 192.168.0.71</li> </ul>	
	<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px;">BLADE RESET</div>	<p><b>NOTE:</b> <i>The second data must be entered including the periods (.).</i></p>	
	Assign the Subnet Mask for the Conference blade (PVA).	<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px;">BLADE RESET</div>	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) XX ZZ                          XX: 01-50: Unit No.                          ZZ : 01-18: Slot No.</li> <li>(2) XXX.XXX.XXX.XXX:                          255.0.0.0-255.255.255.252:                          Subnet Mask (Maximum 15 digits)                          NONE◀: 255.255.255.0</li> </ul>
<p><b>NOTE:</b> <i>The second data must be entered including the periods (.).</i></p>	Assign the Default Gateway Address for the Conference blade (PVA).	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) XX ZZ                          XX: 01-50: Unit No.                          ZZ : 01-18: Slot No.</li> <li>(2) XXX.XXX.XXX.XXX:                          0.0.0.1-255.255.255.254:                          Default Gateway Address (Maximum 15 digits)                          NONE◀: 0.0.0.0</li> </ul>	
<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px;">BLADE RESET</div>	<p><b>NOTE:</b> <i>The second data must be entered including the periods (.).</i></p>		
<div style="border: 1px solid black; padding: 2px;">END</div>			

**HARDWARE REQUIRED**

PVA blade

## CONFERENCE (32 PARTY)

### PROGRAMMING

To provide Group Call or Meet-Me Conference (32-Party) built-in on CPU, do the following programming.

#### (1) Group Call/Sequential Call-up/Meet-Me Conference Assignment

START	DESCRIPTION	DATA
CM04	Specify the Conference trunk partition.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 11</li> <li>(2) 0 : Four 8-Party Conference groups (8 + 8 + 8 + 8)</li> <li>2 : Two 16-Party Conference groups (16 + 16)</li> <li>3◀: One 32-Party Conference group (32)</li> </ul>
CM12	Assign Service Restriction Class A to a station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	<p>Allow Conference (built-in on CPU) in Service Restriction Class A assigned by CM12 Y=02.</p> <p><b>NOTE:</b> <i>This data is effective for the station of Conference participants from own office. The station of Conference participants from the different offices via CCIS/IPT (P2P CCIS) is allowed to participate in Conference regardless of this data.</i></p>	<ul style="list-style-type: none"> <li>• Y=223</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM11	Assign the Virtual Line station number for Conference Pilot station to the required Virtual Port number.	<ul style="list-style-type: none"> <li>(1) 0000-9999: Virtual Port No.</li> <li>(2) X-XXXXXXXX: Virtual Line Station No.</li> </ul>
A		



A	DESCRIPTION	DATA
CM12	Specify the type of Pilot Station number.	<ul style="list-style-type: none"> <li>• Y=69</li> <li>(1) X-XXXXXXXX: Pilot Station No.</li> <li>(2) 0 : Group Call</li> <li>1 : Meet-Me Conference</li> <li>2 : Sequential Call-up</li> <li>3◀: Ordinary Station (Not Pilot Station)</li> </ul>
	Assign the Conference group number for Conference Pilot Station number.	<ul style="list-style-type: none"> <li>• Y=70</li> <li>(1) X-XXXXXXXX: Pilot Station No.</li> <li>(2) 00-15 : Conference group No.</li> <li>NONE◀: No data</li> </ul>
CM77	Specify the desired conference name for the pilot station number by CM77 Y=0/1/5/D/E.	<ul style="list-style-type: none"> <li>• Y=0 By Character Code</li> <li>(1) X-XXXXXXXX: Pilot Station No.</li> <li>(2) Character Code 20-7F (Maximum 32 digits) See APPENDIX A: Character Code Table. <a href="#">Page A-2</a></li> <li>• Y=1 By Character using PCPro</li> <li>(1) X-XXXXXXXX: Pilot Station No.</li> <li>(2) A-Z, 0-9: Character (Maximum 16 characters)</li> <li>• Y=5 By Character Code</li> <li>(1) X-XXXXXXXX: Pilot Station No.</li> <li>(2) Character Code 00-FE: Maximum 32 digits (for Russian) See APPENDIX A: Character Code Table for Russian. <a href="#">Page A-3</a></li> <li>• Y=D By Character using PCPro (Simplified Chinese)</li> <li>• Y=E By Character using PCPro (Traditional Chinese)</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) Character: Maximum 16 characters NONE◀: No data</li> </ul>
CM41	Specify the Conference (built-in on CPU) forced release timer.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 141</li> <li>(2) 01-24: 1-24 hours (1 hour increment)</li> <li>If no data is set, the default setting is 7 hours.</li> </ul>
B		

B	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM45</div>	<p>Make busy the (Three/Four Party-) Conference Trunk (CFT) on the CPU card in service.</p> <p><b>NOTE:</b> <i>Set this command when CPU built-in CFT is secured for Conference.</i></p>	<ul style="list-style-type: none"> <li>• Y=6</li> <li>(1) 00-15: CPU built-in CFT Circuit No.</li> <li>(2) 0: Make busy</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

(2) Assignment of Group Call by Pilot Number Dialing

(a) When The Called Terminal is a Station/Trunk

This programming should be set after setting the program “(1) Group Call/Sequential Call-up/Meet-Me Conference Assignment”.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM57</div>	<p>Assign the station numbers which are to be included in the Conference group, their Conference group numbers and Conference numbers within the group.</p> <p><b>NOTE 1:</b> <i>If you assign the outgoing trunk, you set Call Forwarding-All Calls-Outside to the Virtual Line station number assigned by CM11.</i></p> <p><b>NOTE 2:</b> <i>Maximum of 32 stations per Group Call can be assigned.</i></p>	<ul style="list-style-type: none"> <li>• Y=31</li> <li>(1) XX YY                      XX: 00-15: Conference Group No.                      ZZ : 00-30: Conference number within the group</li> <li>(2) X-XXXXXXXX: Station No.                      NONE◀ : No data</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM41</div>	<p>Specify the timing of Group Call Conference-No Answer.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 140</li> <li>(2) 01-99: 4-396 seconds                      (4 second increments)</li> </ul> <p>If no data is set, the default setting is 36 seconds.</p>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		



A	DESCRIPTION	DATA
CM18	Assign the Pilot Station to required station number within the Station Hunting group.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) X-XXXXXXXX: Group Call Pilot Station No.</li> <li>(2) 0◀: Member station 1 : Pilot station</li> </ul>
CM11	Assign the Virtual Line station number for Call Forwarding-All Calls-Outside.	<ul style="list-style-type: none"> <li>(1) 0000-0999: Virtual Port No.</li> <li>(2) X-XXXXXXXX: Virtual Line Station No.</li> </ul>
CME6	Assign the destination number for Call Forwarding-All Calls-Outside to the Virtual Line station number assigned by CM11.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11</li> <li>(2) Destination No.: X-XXXX + [ ] + YY...Y X-XXXX: Outgoing Trunk/LCR Group Access Code (1-4 digits) [ ] : Separate Mark YY...Y : Called No. (Maximum 26 digits)</li> </ul>
END		

(3) Assignment of SST/Restriction of Additional Participants to Conference

This programming should be set after setting the program “(1) Group Call/Meet-Me Conference Assignment”.

START	DESCRIPTION	DATA
CM08	Specify whether Service Set Tone is sent to participants when a new participant attends the Conference.	<ul style="list-style-type: none"> <li>(1) 728</li> <li>(2) 0 : Not sent 1◀: To send</li> </ul>
CM90	Assign Restriction of additional participants to Conference keys to the Multiline Terminals, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F0B54: Restriction of additional participants to Conference Set/Cancel</li> </ul>
END		

(4) Assignment of Meet-Me conference with password protection

This programming should be set after setting the program “(1) Group Call/Sequential Call-up/Meet-Me Conference Assignment”.

START	DESCRIPTION	DATA
CM04	<p>Allow the Conference (32 Party) with password protection.</p> <p><b>NOTE:</b> <i>The conference group assigned this data to “0” cannot be used for Group Call Conference/Meet-Me conference without password protection.</i></p>	<ul style="list-style-type: none"> <li>• Y=04</li> <li>(1) 00-15: Conference group No.</li> <li>(2) 0: With password protection</li> </ul>
CM13	<p>Assign the Pilot Station of Conference (32 Party) with password protection.</p> <p><b>NOTE 1:</b> <i>This data is effective only to the pilot station for the Conference group assigned by CM04 Y=04: 0 (with password protection).</i></p> <p><b>NOTE 2:</b> <i>The type of pilot station number for Conference assigned by CM12 Y=69 becomes ineffective when the pilot station number is set by this data.</i></p>	<ul style="list-style-type: none"> <li>• Y=73</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Pilot Station 1◀: Ordinary station</li> </ul>
CM12	<p>Assign the Conference group number for Conference Pilot Station number.</p> <p><b>NOTE:</b> <i>Do not overlap the conference group numbers among Group Call, Meet-Me Conference, Sequential Call-up.</i></p>	<ul style="list-style-type: none"> <li>• Y=70</li> <li>(1) X-XXXXXXXX: Pilot Station No.</li> <li>(2) 01-15 : Conference group No. NONE◀: No data</li> </ul>
<u>END</u>		

(5) Conference Connection by Call Transfer

This programming should be set after setting the program Meet-Me Conference Assignment in “(1) Group Call/Sequential Call-up/Meet-Me Conference Assignment”.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ                XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow the Conference (32 Party) by Call Transfer.  <b>NOTE 1:</b> <i>Set this data for the station number of Call Transfer operator.</i>  <b>NOTE 2:</b> <i>This data is effective for the station of Call Transfer operator from own office. The station of Conference participants from the different offices via CCIS/IPT (P2P CCIS) is allowed to participate in Conference regardless of this data.</i>	<ul style="list-style-type: none"> <li>• Y=228</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
<u>END</u>		

### HARDWARE REQUIRED

Built-in Conference Trunk (CFT) on CPU blade

## CONFERENCE (WEB SCHEDULE)

[9300V3 software required]

**NOTE:** *This feature is not available because RGA blade is not available any more.*

### PROGRAMMING

To provide Meet-Me Conference (32-Party) with RGA blade, do the following programming.

(1) RGA Port Assignment

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the RGA blade.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX YY                XX: 01-50: Unit No.                YY: 01-18: Slot No.</li> <li>(2) 73: Conference blade (RGA blade)</li> </ul>
	<b>BLADE RESET</b>	
CM10	Assign the station number for the Conference trunk (RGA blade) to the associated Physical Port Number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No.                XX: 01-50: Unit No.                YY: 01-18: Slot No.                ZZ : 01-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
	<p><b>NOTE:</b> <i>Set the Circuit No. continuously from the Circuit No. 01 in unit of 8 stations.</i></p>	
END		

(2) Station Hunting Assignment

START	DESCRIPTION	DATA
CM11	Assign the Virtual Line station number for Conference Pilot Station to the required Virtual Port number.	(1) 0000-0999: Virtual Port No. (2) X-XXXXXXXX: Virtual Line Station No.
CME5	Set or cancel make-busy to stations.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Virtual Line Station No.</li> <li>(2) 0: Make-busy set</li> </ul>
CM18	To set up each Station Hunting group, assign station numbers, one by one, as shown below.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Station No. to be included in Station Hunting Group</li> <li>(2) X-XXXXXXXX: Another Station No. to be included in the Same Hunting Group</li> </ul>
	1st Operation [ (1) Station A (2) Station B 2nd Operation [ (1) Station B (2) Station C	
	Assign the pilot station to required station number within the Hunting group. For the member stations, set the data to "0".	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0◀: Member Station                1 : Pilot Station</li> </ul>
	<p><b>NOTE 1:</b> <i>Station number within a same RGA blade must be assigned as the station to be included in one Hunting Group because the conference is available only for station within a same RGA blade.</i></p>	
	<p><b>NOTE 2:</b> <i>The maximum number of stations that can be included in one Station Hunting group is 32 including the Pilot Station.</i></p>	
END		



(3) Network Data Assignment for RGA Blade

START	DESCRIPTION	DATA	
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CMEE</div>	Assign the IP Address for the Conference blade (RGA).	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: IP Address (Maximum 15digits) NONE◀: 192.168.1.72</li> </ul>	
	<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px;">BLADE RESET</div>	<p><b>NOTE:</b> <i>The second data must be entered including the periods (.).</i></p>	
	Assign the Subnet Mask for the Conference blade (RGA).	<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px;">BLADE RESET</div>	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) XXX.XXX.XXX.XXX: 255.0.0.0-255.255.255.252: Subnet Mask (Maximum 15 digits) NONE◀: 255.255.255.0</li> </ul>
<p><b>NOTE:</b> <i>The second data must be entered including the periods (.).</i></p>	Assign the Default Gateway Address for the Conference blade (RGA).	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: Default Gateway Address (Maximum 15 digits) NONE◀: 0.0.0.0</li> </ul>	
<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px;">BLADE RESET</div>	<p><b>NOTE:</b> <i>The second data must be entered including the periods (.).</i></p>		
<div style="border: 1px solid black; padding: 2px;">END</div>			

**HARDWARE REQUIRED**

RGA blade

# CONSECUTIVE SPEED DIALING

## PROGRAMMING

To provide Consecutive Station Speed Dialing from Single Line Telephone or Multiline Terminal:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Station Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=007</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign access codes for Station Speed Dialing Origination, Entry and Cancel, respectively.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A064: Origination A065: Entry A066: Cancel</li> </ul>
CM08	Specify whether to provide Toll Restriction for an outgoing call by Station Speed Dialing.	<ul style="list-style-type: none"> <li>(1) 035</li> <li>(2) 0 : Not provided 1◀: Provided</li> </ul>
	Specify whether to set “#” dialing as paused data (1.5 seconds) or dialed digit when Multiline Terminal dials “#” in the setting of the Station Speed Dialing feature.	<ul style="list-style-type: none"> <li>(1) 168</li> <li>(2) 0 : Paused data (1.5 seconds) 1◀: Dialed digit</li> </ul>
	Specify “*” dialing is set as programmable pause by CM41 Y=0>38 or dialed digit when Multiline Terminal dials “*” in the setting of the Station Speed Dialing feature.	<ul style="list-style-type: none"> <li>(1) 171</li> <li>(2) 0 : Programmable pause by CM41 Y=0&gt;38 1◀: Dialed digit</li> </ul>
A		

A	DESCRIPTION	DATA
CM73	Specify the usage of Speed Dialing memory for each 1000-Slot Memory Block.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00-99: 1000-Slot Memory Block No.</li> <li>(2) 0 : System Speed Dialing (for individual tenants)</li> <li>1 : System Speed Dialing (for all tenants) (Up to 10 blocks)</li> <li>NONE◀: Station Speed Dialing/One-touch Memory</li> </ul>
	Allocate a memory area for Station Speed Dialing to each station when using Consecutive Speed Dialing.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) WW XX YYY Z</li> <li>WW : 00-99: 1000-Slot Memory Block No.</li> <li>XX : 00-99: 10-Slot Memory Start Block No.</li> <li>YYY : 001-100: Number of 10-Slot Memory Blocks</li> <li>Z : Facility for programming for the dialed No. from the station: 0 : Allowed 1 : Not allowed</li> <li>NONE◀: Station Speed Dialing/One-touch Memory</li> </ul>
B		

B

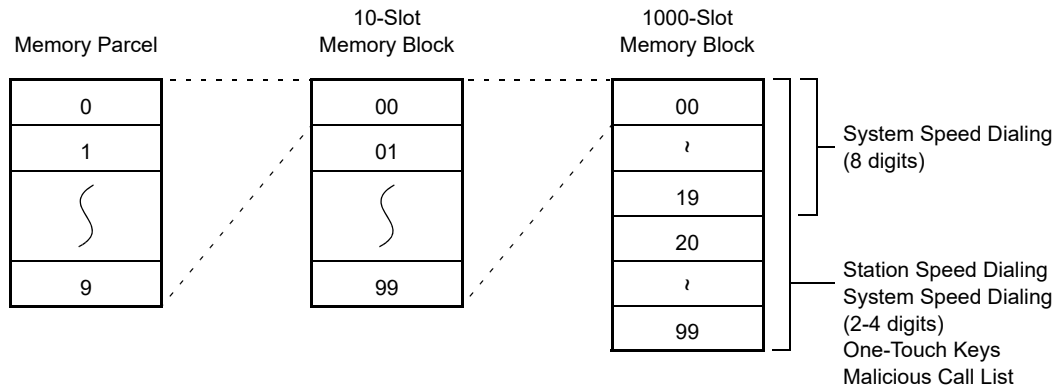
**DESCRIPTION**

**DATA**

CM73

- The relation among memory areas

The memory area for storing one called number of Speed Dialing is called a “Memory Parcel”. An assembly of 10 Memory Parcels is called a “10-Slot Memory Block,” and one hundred 10-Slot Memory Blocks are called a “1000-Slot Memory Block”.



- How to assign a 10-Slot Memory Start Block No.

**Example:** If the desired number of Speed Dialing numbers is 10 for Station No. 300, 20 for Station No. 301, 30 for Station No. 302 and 10 for Station No. 303, respectively, assign the memory areas as below.

Station No.	1000-Slot Memory Block No.	10-Slot Memory Start Block No.	Number of 10-Slot Memory Block
300	00	00	1
301	00	01	2
302	00	03	3
303	00	06	1

C

C

**DESCRIPTION**

**DATA**

CM73

- About abbreviated codes

The abbreviated codes for this feature are automatically determined by assigning this command, on a station basis.

If the number of Memory Parcels per station does not exceed 10, then Abbreviated Code=0-9.

If the number of Memory Parcels per station exceeds 10, then Abbreviated Code=00-99.

The following figure shows the relation between Abbreviated Codes and Memory Parcels.

In the case of 10 Memory Parcels

Memory Parcel Number	(Abbreviated Code)
0	0
1	1
2	2
3	3
4	4
5	5
∴	∴
9	9

10-Slot Memory Block

In the case of 20 Memory Parcels

Memory Parcel Number	(Abbreviated Code)
0	00
1	01
∴	∴
9	09
0	10
1	11
∴	∴
9	19

10-Slot Memory Block

D

D

CM74

**DESCRIPTION**

**DATA**

Assign the number to be dialed to each Memory Slot number.

**NOTE:** *The numbers to be called are usually set from individual stations by their station users.*

Assign the Called Party Name to be displayed on Multiline Terminal, if required.

- Y=0
  - (1) XX YY Z  
 XX: 00-99: 1000-Slot Memory Block No.  
 YY: 00-99: 10-Slot Memory Block No.  
 Z : 0-9: Memory Parcel No.
  - (2) Called Party No.:  
 Trunk Access Code (Maximum 4 digits) +  + Called Party No. (Maximum 26 digits)  
 To set a pause into the Called Party No., enter “C” (Fixed Pause=1.5 seconds) or “D” (Programmable Pause specified by CM41 Y=0>38) after desired digits.  
 NONE◀: No data
- Y=1
  - (1) XX YY Z  
 XX: 00-99: 1000-Slot Memory Block No.  
 YY: 00-99: 10-Slot Memory Block No.  
 Z : 0-9: Memory Parcel No.
  - (2) XX...XX: Called Party Name by entering with character codes (Maximum 32 digits, 16 characters)  
 NONE◀: No data  
 See APPENDIX A: Character Code Table.  
[Page A-2](#)
- Y=2
  - (1) XX YY Z  
 XX: 00-99: 1000-Slot Memory Block No.  
 YY: 00-99: 10-Slot Memory Block No.  
 Z : 0-9: Memory Parcel No.
  - (2) XX...XX: Called Party Name by entering with characters from PCPro/CAT (Maximum 16 characters)  
 NONE◀: No data

E

E	DESCRIPTION	DATA
CM74	Assign a Called Party Name to be displayed on Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=4</li> <li>(1) XX YY Z            XX: 00-99: 1000-Slot Memory Block No.            YY: 00-99: 10-Slot Memory Block No.            Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name in Russian (Maximum 16 characters) by entering with Russian character codes.            See APPENDIX A: Character Code Table for Russian.  <a href="#">Page A-3</a></li> </ul> <p>NONE◀: No data</p>
		<ul style="list-style-type: none"> <li>• Y=6</li> <li>(1) XX YY Z            XX: 00-99: 1000-Slot Memory Block No.            YY: 00-99: 10-Slot Memory Block No.            Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name in Simplified Chinese (Maximum 8 two-byte characters)</li> </ul> <p>NONE◀: No data</p>
		<ul style="list-style-type: none"> <li>• Y=7</li> <li>(1) XX YY Z            XX: 00-99: 1000-Slot Memory Block No.            YY: 00-99: 10-Slot Memory Block No.            Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name in Traditional Chinese (Maximum 8 two-byte characters)</li> </ul> <p>NONE◀: No data</p>
CM90	Assign Station Speed Dialing keys on each Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;">,</span> + Key No.</li> <li>(2) F11XX            XX: 00-99: Station Speed Dialing 00-99</li> </ul>
<u>END</u>		<p><b>NOTE:</b> For detail of Multiline Terminal key layout set by CM12 Y=24, refer to the Command Manual.</p>

To provide Consecutive Station Speed Dialing from Multiline Terminal with One Touch keys:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Station Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=007</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM08	Specify whether to provide Toll Restriction for an outgoing call by Station Speed Dialing.	<ul style="list-style-type: none"> <li>(1) 035</li> <li>(2) 0 : Not provided 1◀: Provided</li> </ul>
	Specify whether to set “#” dialing as paused data (1.5 seconds) or dialed digit when the Multiline Terminal dials “#” in the setting of the Station Speed Dialing feature.	<ul style="list-style-type: none"> <li>(1) 168</li> <li>(2) 0 : Paused data (1.5 seconds) 1◀: Dialed digit</li> </ul>
	Specify whether to set “*” dialing as programmable pause by CM41 Y=0>38 or dialed digit when Multiline Terminal dials “*” in the setting of the Station Speed Dialing feature.	<ul style="list-style-type: none"> <li>(1) 171</li> <li>(2) 0 : Programmable pause by CM41 Y=0&gt;38 1◀: Dialed digit</li> </ul>
	Send additional DTMF signals when called station answers, if assigning station number or outside number and additional DTMF signals to One-Touch key on Multiline Terminal.	<ul style="list-style-type: none"> <li>(1) 427</li> <li>(2) 0 : To send 1◀: Not sent</li> </ul>
	When Multiline Terminal station dials “*#” during setting of One-Touch keys.	<ul style="list-style-type: none"> <li>(1) 448</li> <li>(2) 0 : “*#” is set as dialed digit 1◀: “*#” is set as a delimiter mark between dialed number and DTMF signal</li> </ul>
A		



A

CM94

**DESCRIPTION**

Allocate the memory area for Station Speed Dialing to each station when using Consecutive Speed Dialing for One Touch Keys.

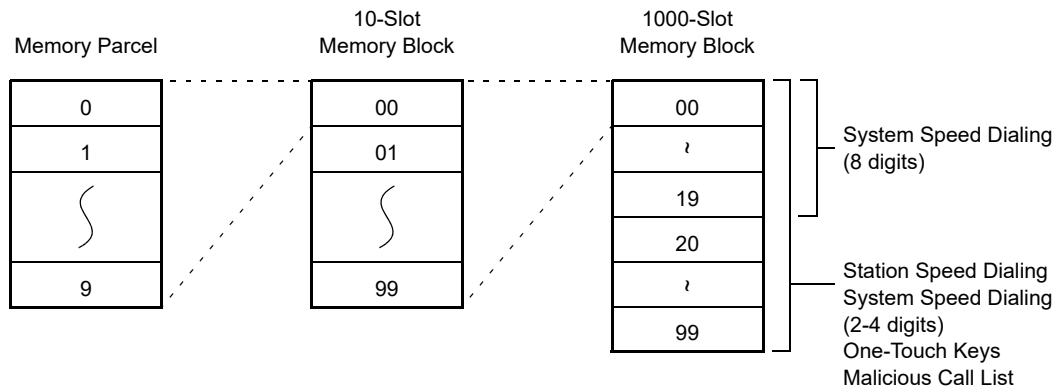
**DATA**

- (1) X-XXXXXXXX: My Line No.
- (2) WW XX YYY Z
  - WW : 00-99: 1000-Slot Memory Block No.
  - XX : 00-99: 10-Slot Memory Start Block No.
  - YYY : 001-010: Number of 10-Slot Memory Blocks
  - Z : 0/1: Facility for programming the dialed number from the station Effective/Ineffective
- NONE◀: No data

**NOTE:** When Consecutive Speed Dialing is provided using the One Touch Keys, the same memory area must be assigned by CM73 and CM94.

- The relation among memory areas

The memory area for storing one called number of Speed Dialing is called a “Memory Parcel”. An assembly of 10 Memory Parcels is called a “10-Slot Memory Block,” and one hundred 10-Slot Memory Blocks are called a “1000-Slot Memory Block”.



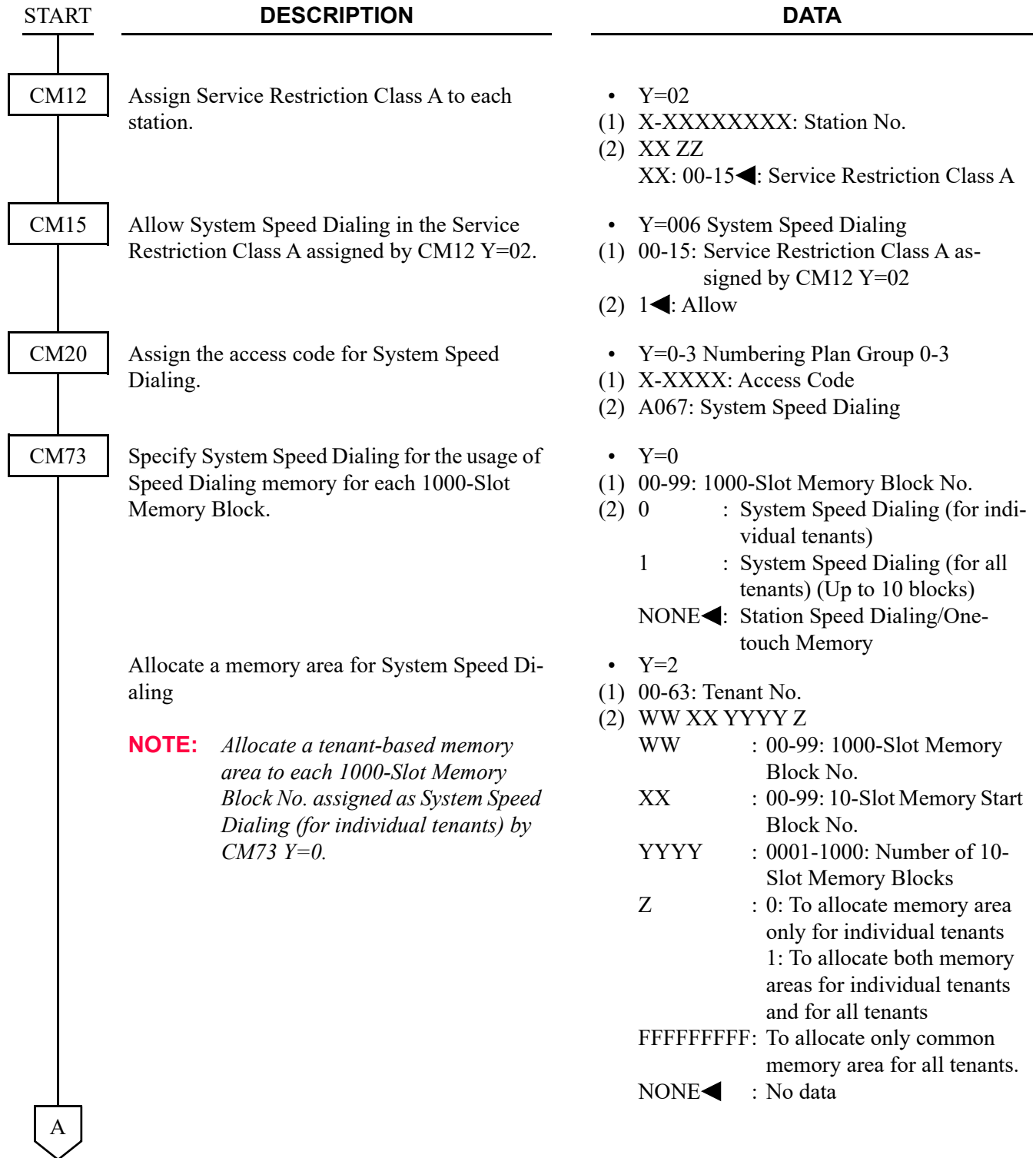
- How to assign a 10-Slot Memory Start Block No.

**Example:** If the desired number of Speed Dialing numbers is 10 for Station No. 300, 20 for Station No. 301, 30 for Station No. 302 and 10 for Station No. 303, respectively, assign the memory areas as below.

Station No.	1000-Slot Memory Block No.	10-Slot Memory Start Block No.	Number of 10-Slot Memory Block
300	00	00	1
301	00	01	2
302	00	03	3
303	00	06	1

END

To provide Consecutive System Speed Dialing:



**NOTE:** *Allocate a tenant-based memory area to each 1000-Slot Memory Block No. assigned as System Speed Dialing (for individual tenants) by CM73 Y=0.*

A	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM74</div>	Assign a storing Called Party Number for each Memory Slot number.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX YY Z                XX: 00-99: 1000-Slot Memory Block No.                YY: 00-99: 10-Slot Memory Block No.                Z : 0-9: Memory Parcel No.</li> <li>(2) Called Party No.:                Trunk Access Code (Maximum 1-4 digits) + <span style="border: 1px solid black; padding: 0 2px;">,</span> + Called Party No. (Maximum 26 digits) To set a pause into the Storing Called Party No., enter “C” (Fixed Pause=1.5 seconds) or “D” (Programmable Pause specified by CM41 Y=0&gt;38) after desired digits.                NONE◀: No data</li> </ul>
	Assign a Called Party Name to be displayed on Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) XX YY Z                XX: 00-99: 1000-Slot Memory Block No.                YY: 00-99: 10-Slot Memory Block No.                Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX : Called Party Name (Maximum 16 characters) by entering with character codes. See APPENDIX A: Character Code Table.  <a href="#">Page A-2</a>                NONE◀: No data</li> </ul>
		<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) XX YY Z                XX: 00-99: 1000-Slot Memory Block No.                YY: 00-99: 10-Slot Memory Block No.                Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX : Called Party Name (MAX. 16 characters) by entering from PCPro/CAT.                NONE◀: No data</li> </ul>
B		

B	DESCRIPTION	DATA
CM74	Assign a Called Party Name to be displayed on Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=4</li> <li>(1) XX YY Z            XX: 00-99: 1000-Slot Memory Block No.            YY: 00-99: 10-Slot Memory Block No.            Z : C0-9: Memory Parcel No.</li> <li>(2) XX...XX : Called Party Name in Russian (Maximum 16 characters) by entering with Russian character codes. See APPENDIX A: Character Code Table for Russian. <a href="#">Page A-3</a></li> </ul> <p>NONE◀: No data</p>
CM08	Specify the System Speed Dialing security. (Stored number displays on Multiline Terminal for an outgoing call by System Speed Dialing.)	<ul style="list-style-type: none"> <li>• Y=6 <b>[For Asia]</b></li> <li>(1) XX YY Z            XX: 00-99: 1000-Slot Memory Block No.            YY: 00-99: 10-Slot Memory Block No.            Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX : Called Party Name in Simplified Chinese (Maximum 8 two-byte characters)</li> </ul> <p>NONE◀: No data</p>
	Specify Toll Restriction for an outgoing call by System Speed Dialing.	<ul style="list-style-type: none"> <li>• Y=7 <b>[For Asia]</b></li> <li>(1) XX YY Z            XX: 00-99: 1000-Slot Memory Block No.            YY: 00-99: 10-Slot Memory Block No.            Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX : Called Party Name in Traditional Chinese (Maximum 8 two-byte characters)</li> </ul> <p>NONE◀: No data</p>
<u>END</u>		<p>(1) 043</p> <p>(2) 0 : Not displayed            1◀: Display</p> <p>(1) 044</p> <p>(2) 0 : Not provided            1◀: Provided</p>

To provide Consecutive Speed Dialing when making ISDN call:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	Specify whether to provide the Consecutive Speed Dialing when making ISDN call.	(1) 405 (2) 0 : Available 1◀: Not available
<u>END</u>		

# CONSULTATION HOLD

## PROGRAMMING

START	DESCRIPTION	DATA
CM08	Select the ringing pattern on station calls with a trunk line placed in Consultation Hold.	(1) 137 (2) 0 : Change from Internal Ringing (CM08>138/CM04 Y=00>05) to External Ringing (CM35 Y=033) when transferring a call 1◀: External Ringing (CM35 Y=033)
CM12	Assign Service Restriction Class C to each station.	• Y=07 (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM15	Allow the Switch Hook Flash capability in Service Restriction Class C assigned by CM12 Y=07.	• Y=088, 089 Switch Hook Flash on Internal Call • Y=090, 091 Switch Hook Flash on External Call (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 1◀: Available (Special Dial Tone Connection)
END		

To make a three party conference on Consultation Hold, do the programming of CONFERENCE (THREE/FOUR PARTY). [Page 1-223](#)

# CUSTOMER ADMINISTRATION TERMINAL (CAT)

## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B for CAT to the required Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=02</li> </ul> (1) X-XXXXXXXX: My Line No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow change of mode for CAT in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=056</li> </ul> (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 1◀: Allow
CME7	Specify the command codes accessible to each Password Level.	<ul style="list-style-type: none"> <li>Y=00: Password Level 0-6</li> <li>Y=01: Password Level 1-6</li> <li>Y=02: Password Level 2-6</li> <li>Y=03: Password Level 3-6</li> <li>Y=04: Password Level 4-6</li> <li>Y=05: Password Level 5-6</li> <li>Y=06: Password Level 6</li> <li>Y=10: Password Level 0</li> <li>Y=11: Password Level 1</li> <li>Y=12: Password Level 2</li> <li>Y=13: Password Level 3</li> <li>Y=14: Password Level 4</li> <li>Y=15: Password Level 5</li> <li>Y=16: Password Level 6</li> </ul> (1) 00-FB: Command Code exclusive of 03, E7, E9 (2) 0 : Allowed 1◀: Restricted
CME9	Allow the setting/changing of the password.	(1) 8 (2) 0◀: Allowed
A		

A

**DESCRIPTION**

**DATA**

CME9

Assign a password to each Password Level.

- (1) 0-7: Password Level 0-7
- (2) X-X...X : Maximum 8 digits Password  
 CCC : Password clear  
 NONE◀: No data

A password for Password Level 7 should be assigned in advance because of providing the password service by Function No. 9 of CME9. The following passwords are not available.  
 "CCCCCCCC"  
 "FFFFFFFF"

The setting/changing of the password is available only when the second data of CME9>8 is set to "0 (Allowed)".  
 If CME9>8 is set to "1 (Restricted)", "DATA ERROR" is displayed when you set/change the password.

Provide the system with Password Service. After setting this data, access to system programming will be available with password entry only.

- (1) 9: Password Service
- (2) 0: Provided

CM08

Specify the key assignment on CAT mode.

- (1) 911
- (2) 0 : Old layout  
 1◀: Standard layout

**NOTE 1:** Refer to "Command Manual" about the key assignment on CAT mode.

**NOTE 2:** When using DT300/DT400/DT700/DT800 Series DESI-less, DT900 Series (Self-Labeling) or DT750, CAT key assignment can be performed only on Standard layout.

END



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**NOTE 1:** *To use the CAT after clearing all system data, perform the following operations on the system.*

1. *Plug a DLC blade into Slot 01 accommodated in Unit01 (for Multiline Terminal).*
2. *Connect the CAT (Multiline Terminal) to Physical Port No. 010101 at the MDF or Virtual Port No. 0000.*
3. *Set SENSE switch on the CPU blade accommodated in Unit01 to “A”.*
4. *Press RESET switch on the CPU blade accommodated in Unit01.*
5. *Check the LED status.*
  - *RUN LED lights and SYSD LED flashes while loading the standard system data.*
  - *RUN LED and SYSD LED go off and S2 LED lights when the standard system data is loaded normally.*
  - *RUN LED and SYSD LED go off and ALM LED lights if the loading of the standard system data fails.*
6. *Set SENSE switch on the CPU blade accommodated in Unit01 to “1”.*
7. *Press RESET switch on the CPU blade accommodated in Unit01.*

*CPU will reset automatically after SENSE switch is set to “1”.*

**NOTE 2:** *If Password Service is activated, enter the predetermined password (assigned by CME9>0-7) by CM03 before programming from a CAT.*

**[ST]** + 03 + **[DE]** + Password Level number (0-7) + **[DE]** + Password + **[EXE]**

– “OK” will be displayed, if accepted.

– “DATA ERROR” will be displayed if the password is incorrect.

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## DATA LINE SECURITY

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### PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM13</div>	Assign the function of Analog Data station (Single Line Station with FAX or MODEM) to the required stations.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: Data station</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>	<p><b>NOTE:</b> When 0 is specified to the second data, the ringing interval of the station shall be a ringing signal for FAX as assigned by CM04 Y=00&gt;09 (if no data is set, it follows the default setting, i.e. As per CM04 Y=00&gt;05).</p>	

# DELAYED HOTLINE

## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign a Delayed Hotline to the required stations.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 09: Delayed Hotline</li> </ul>
CM41	Specify the Delayed Hotline activation timer (i.e. Duration from off-hook to automatic call origination).	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 119</li> <li>(2) 01-30: 1-30 seconds (1 second increment)</li> </ul> <p>If no data is set, the default setting is 10 seconds.</p>
CM52	Define the Delayed Hotline pairs.  <b>NOTE 1:</b> <i>When assigning a station number to a calling side, the second data of CM12 Y=03 must be set to "04".</i>	<ul style="list-style-type: none"> <li>• Y=00-99 Delayed Hotline Pair No.</li> <li>(1) 0: Calling Side</li> <li>(2) X-XXXXXXXX: Station No.</li> <li>(1) 1: Called Side</li> <li>(2) X-XXXXXXXX: Station No.</li> <li>E000-E007 : DESKCON No.</li> <li>CXX: : Trunk outgoing call</li> <li>XX: Abbreviated Code exclusively for Delayed Hotline-Outside call assigned by CM71&gt;65</li> </ul> <p><b>NOTE 2:</b> <i>Do not assign station number with first digit "0".</i></p>
A		

A

**DESCRIPTION**

**DATA**

CM71

Allocate the memory area for the Delayed Hotline-Outside call. For example, to assign the 10 Delayed Hotline-Outside calls into No. 100 through No. 109 Memory Slots, 2nd data is "100010". Abbreviated Codes are automatically assigned as shown below:

- (1) 65: For Delayed Hotline-Outside
- (2) XXX YYY  
 XXX: 000-299: Starting Memory Slot No. in blocks  
 YYY: 001-300: Number of Memory Slots to be assigned in blocks

	<u>Abbreviated Code</u>
Memory Slot 100	00
⋮	⋮
Memory Slot 109	09

CM72

Set the Called Party number to each Memory Slot number for Delayed Hotline.

- Y=0
  - (1) 000-299: Memory Slot No.
  - (2) XXXX + [ ] + YY...Y: Called Party No.  
 XXXX : Access Code (Maximum 4 digits)  
 [ ] : Separator Mark  
 YY...Y : Called Party No. (Maximum 26 digits)  
 NONE◀: No data
- Y=1
  - (1) 000-299: Memory Slot No.
  - (2) XXX...X: Called Party Name Character Code (Maximum 32 digits: 16 characters)  
 NONE◀: No data  
 See APPENDIX A: Character Code Table.  
[Page A-2](#)
- Y=2
  - (1) 000-299: Memory Slot No.
  - (2) XXX...X: Called Party Name Character by PCPro/CAT (Maximum 16 characters)  
 NONE◀: No data

B

B

**DESCRIPTION**

**DATA**

CM72

Set the Called Party number to each Memory Slot number for Delayed Hotline.

- Y=4
- (1) 000-299: Memory Slot No.
- (2) XX...XX: Called Party Name in Russian (Maximum 16 characters) by entering with Russian character codes. See APPENDIX A: Character Code Table for Russian.

 [Page A-3](#)

NONE◀: No data

- Y=5 **[For Asia]**
- (1) 000-299: Memory Slot No.
- (2) XX...XX: Called Party Name in Simplified Chinese (Maximum 8 two-byte characters)

NONE◀: No data

- Y=6 **[For Asia]**
- (1) 000-299: Memory Slot No.
- (2) XX...XX: Called Party Name in Traditional Chinese (Maximum 8 two-byte characters)

NONE◀: No data

END

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# DELAYED RINGING

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## PROGRAMMING

START	DESCRIPTION	DATA
CM90	Assign the Delayed Ringing feature to each line key on a Multiline Terminal.  <b>NOTE:</b> <i>The Delayed Ringing feature can be assigned to the first 16 line/trunk keys (Key 01-16)/24 line/trunk keys (Key 01-24).</i>	<ul style="list-style-type: none"><li>• Y=02</li></ul> <ol style="list-style-type: none"><li>(1) My Line No. + <input type="text"/> + Key No. <b>NOTE</b></li><li>(2) 0: Delayed Ringing</li></ol>
CM41	Specify the timing for Delayed Ringing.	<ul style="list-style-type: none"><li>• Y=1</li></ul> <ol style="list-style-type: none"><li>(1) 09</li><li>(2) 01-20: 2048-40960 ms. (2048 ms. increments)</li></ol> <p>If no data is set, the default setting is 10240 ms.</p>
END		

# ***DIAGNOSTICS***

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## **PROGRAMMING**

Refer to the System Maintenance Manual.

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# DIAL BY NAME

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## PROGRAMMING

(1) Assignment for Soft Key

START	DESCRIPTION	DATA
CM12	Provide Soft Key feature to each Multiline Terminal.  Assign Soft Key Pattern number to each Multiline Terminal.	<ul style="list-style-type: none"><li>• Y=22</li><li>(1) X-XXXXXXXX: My Line No.</li><li>(2) 1◀: Available</li></ul> <ul style="list-style-type: none"><li>• Y=23</li><li>(1) X-XXXXXXXX: My Line No.</li><li>(2) 0 : Pattern No. 0</li><li>1 : Pattern No. 1</li><li>2 : Pattern No. 2</li><li>3◀: Pattern No. 3</li></ul>
A		



A

CM9A

B

## DESCRIPTION

Assign the Dial By Name function to each Soft Key on idle status of the Multiline Terminal.

The LCD shows a maximum of 4 Soft Keys at a time. If assigning more than 4 Soft Keys on one status, it is necessary to assign Scroll key at every 4 keys (on 1st through 4th display).

**NOTE 1:** *Scroll key must be assigned as a key for each active display.*

**NOTE 2:** *Help key is only available in Pattern No. 3.*

**NOTE 3:** *For the Pattern No. 3, the reset Soft Key data for Dial By Name are assigned as follows:*

CM9A Y=03	
1st Data	2nd Data
0001	F5014
0002	F5015

**NOTE 4:** *When no data is registered, “Search in Dial By Name data for System Speed Dialing and Station Speed Dialing” is assigned to Soft Key No. 01 of Soft Key Pattern No. 3.*

**NOTE 5:** *Pattern No. 3 is fixed.*

**NOTE 6:** *Dial By Name is available only when the Multiline Terminal is in idle state.*

## DATA

- Y=00-03 Soft Key Pattern No. 0-3 assigned by CM12 Y=23
- (1) 00 bb  
 00: Status No. (Idle state) **NOTE 5**  
 bb: 00-15: Soft Key No.  
     00-03: Indicated on 1st display  
     04-07: Indicated on 2nd display  
     08-11: Indicated on 3rd display  
     12-15: Indicated on 4th display
- (2) F5002 : Scroll key to change Soft Key Indication  
 F5014 : Dial By Name for System Speed Dialing  
 F5015 : Dial By Name for Station Speed Dialing  
 F5038 : Search in Dial By Name data for System Speed Dialing and Station Speed Dialing  
 NONE◀: No data

B	DESCRIPTION	DATA								
CM9A	Assign the Characters indicated on each status of the Multiline Terminal, corresponding to the Soft Key function assigned by CM9A Y=00-03. For the Pattern No. 3, the reset Soft Key data for Dial By Name are assigned as follows:	<ul style="list-style-type: none"> <li>• Y=10-13 Soft Key Pattern No. 0-3 assigned by CM12 Y=23</li> <li>(1) Same as CM9A Y=00-03</li> <li>(2) XX...XX: Soft Key name indicated on LCD (2-12 characters)</li> </ul> NONE◀: No data See APPENDIX A: Character Code Table. <a href="#">Page A-2</a>								
<table border="1"> <thead> <tr> <th colspan="2">CM9A Y=13</th> </tr> <tr> <th>1st Data</th> <th>2nd Data</th> </tr> </thead> <tbody> <tr> <td>0001</td> <td>SYS.</td> </tr> <tr> <td>0002</td> <td>STA.</td> </tr> </tbody> </table>			CM9A Y=13		1st Data	2nd Data	0001	SYS.	0002	STA.
CM9A Y=13										
1st Data	2nd Data									
0001	SYS.									
0002	STA.									
<p><b>NOTE:</b> When no data is registered, "Dial By Name" is assigned to Soft Key No. 01 of Soft Key Pattern No. 3.</p>										
CM08	Specify whether the system sends SPDT when entering the name/number for Dial by name.	(1) 519 (2) 0 : Not sent 1◀: To send								
END										

## (2) Assignment for the Memory Allocation and the Station Name

- When using Dial By Name for System Speed Dialing:

START	DESCRIPTION	DATA
CM73	Specify System Speed Dialing for each 1000 Slot memory Block of Speed Dialing memory.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00-99: 1000-Slot Memory Block No.</li> <li>(2) 0 : System Speed Dialing (for individual tenants)</li> <li>1 : System Speed Dialing (for all tenants) (Up to 10 blocks)</li> <li>NONE◀: Station Speed Dialing/One-touch Memory</li> </ul>
	Allocate a memory area for System Speed Dialing	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 00-63: Tenant No.</li> <li>(2) WW XX YYYY Z</li> <li>WW : 00-99: 1000-Slot Memory Block No.</li> <li>XX : 00-99: 10-Slot Memory Start Block No.</li> <li>YYYY : 0001-1000: Number of 10-Slot Memory Blocks</li> <li>Z : 0: To allocate memory area only for individual tenants</li> <li>1: To allocate both memory areas for individual tenants and for all tenants</li> <li>FFFFFFFF: To allocate only common memory area for all tenants.</li> <li>NONE◀ : No data</li> </ul>
	<p><b>NOTE:</b> <i>Allocate a tenant-based memory area to each 1000-Slot Memory Block No. assigned as System Speed Dialing (for individual tenants) by CM73 Y=0.</i></p>	
A		

A	DESCRIPTION	DATA
CM74	Assign a Called Party number to be stored for each Memory Slot number.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX YY Z XX: 00-99: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No.</li> <li>(2) Called Party No.: Trunk Access Code (Maximum 1-4 digits) + <input type="text"/> + Called Party No. (Maximum 26 digits) To set a pause into the Called Party No., enter "C" (Fixed Pause=1.5 seconds) or "D" (Programmable Pause specified by CM41 Y=0&gt;38) after desired digits. NONE◀: No data</li> </ul>
	Assign a Called Party Name for the Memory Slot number allocated by CM74 Y=0.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) XX YY Z XX: 00-99: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name (Maximum 16 characters) by entering with character codes. See APPENDIX A: Character Code Table. <a href="#">Page A-2</a> NONE◀: No data</li> </ul>
		<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) XX YY Z XX: 00-99: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name (MAX. 16 characters) by entering from PC-Pro/CAT. NONE◀: No data</li> </ul>
B		

B

CM74

## DESCRIPTION

Assign a Called Party Name for the Memory Slot number allocated by CM74 Y=0.

## DATA

- Y=4
  - (1) XX YY Z  
 XX: 00-99: 1000-Slot Memory Block No.  
 YY: 00-99: 10-Slot Memory Block No.  
 Z : 0-9: Memory Parcel No.
  - (2) XX...XX: Called Party Name in Russian (Maximum 16 characters) by entering with Russian character codes.  
 See APPENDIX A: Character Code Table for Russian.  
[Page A-3](#)  
 NONE◀: No data
- Y=6
  - (1) XX YY Z  
 XX: 00-99: 1000-Slot Memory Block No.  
 YY: 00-99: 10-Slot Memory Block No.  
 Z : 0-9: Memory Parcel No.
  - (2) XX...XX: Called Party Name in Simplified Chinese (Maximum 8 two-byte characters)  
 NONE◀: No data
- Y=7
  - (1) XX YY Z  
 XX: 00-99: 1000-Slot Memory Block No.  
 YY: 00-99: 10-Slot Memory Block No.  
 Z : 0-9: Memory Parcel No.
  - (2) XX...XX: Called Party Name in Traditional Chinese (Maximum 8 two-byte characters)  
 NONE◀: No data

END

- When using Dial By Name for Station Speed Dialing, Multiline Terminal One Touch Keys:

START	DESCRIPTION	DATA
CM73	Specify Station Speed Dialing/One touch for each 1000 Slot memory Block of Speed Dialing memory.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00-99: 1000-Slot Memory Block No.</li> <li>(2) 0 : System Speed Dialing (for individual tenants)</li> <li>1 : System Speed Dialing (for all tenants) (Up to 10 blocks)</li> <li>NONE◀: Station Speed Dialing/One-touch Memory</li> </ul>
	Allocate a memory area for Station Speed Dialing/One Touch Memory to each station when using Speed Dialing.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) WW XX YYY Z</li> <li>WW : 00-99: 1000-Slot Memory Block No.</li> <li>XX : 00-99: 10-Slot Memory Start Block No.</li> <li>YYY : 001-100: Number of 10-Slot Memory Blocks</li> <li>Z : Availability of programming for the dialed No. from the station: 0: Allowed 1: Not allowed</li> <li>NONE◀: No data</li> </ul>

A

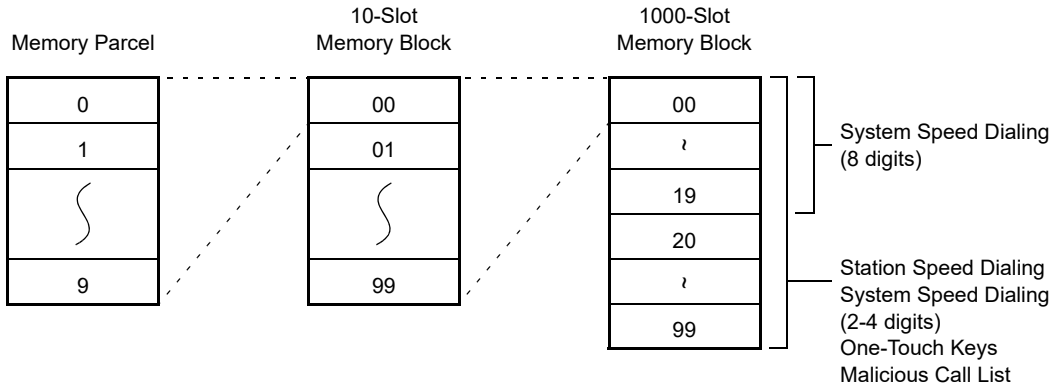
A

**DESCRIPTION**

**DATA**

CM73

- The relation among memory areas  
The memory area for storing a called number for Speed Dialing is called a “Memory Parcel”. An assembly of 10 Memory Parcels is called a “10-Slot Memory Block”, and one hundred 10-Slot Memory Blocks are called a “1000-Slot Memory Block”.



- How to assign a 10-Slot Memory Start Block No.  
**Example:** If the desired number of Speed Dialing numbers is 10 for Station No. 300, 20 for Station No. 301, 30 for Station No. 302 and 10 for Station No. 303, respectively, assign the memory areas as below.

Station No.	1000-Slot Memory Block No.	10-Slot Memory Start Block No.	Number of 10-Slot Memory Block
300	00	00	1
301	00	01	2
302	00	03	3
303	00	06	1

B

B	DESCRIPTION	DATA
CM94	<p>Allocate the memory area for Station Speed Dialing to each station when using Dial By Name for Multiline Terminal One Touch Keys. The same memory area must be assigned on CM73 and CM94.</p>	<p>(1) X-XXXXXXXX: My Line No.            (2) WW XX YYY Z            WW : 00-99: 1000-Slot Memory Block No.            XX : 00-99: 10-Slot Memory Start Block No.            YYY : 001-010: Number of 10-Slot Memory Blocks            Z : 0/1: Facility for programming the dialed number from the station Effective/Ineffective            NONE◀: No data</p>
CM74	<p>Assign the number to be dialed to each Memory Slot number.</p>	<p>• Y=0            (1) XX YY Z            XX: 00-99: 1000-Slot Memory Block No.            YY: 00-99: 10-Slot Memory Block No.            Z : 0-9: Memory Parcel No.            (2) Called Party No.:            Trunk Access Code (Maximum 4 digits) + [ ] + Called Party No. (Maximum 26 digits)            To set a pause into the Called Party No., enter "C" (Fixed Pause=1.5 seconds) or "D" (Programmable Pause specified by CM41 Y=0&gt;38) after desired digits.            NONE◀: No data</p>
C		

**NOTE:** When Dial By Name is provided using the One Touch Keys, the same memory area must be specified by CM73 and CM94.

**NOTE:** The numbers to be called are usually set by the individual station user.



C	DESCRIPTION	DATA
CM74	Assign the station name to be displayed on Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) XX YY Z            XX: 00-99: 1000-Slot Memory Block No.            YY: 00-99: 10-Slot Memory Block No.            Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name by entering with character codes (Maximum 32 digits, 16 characters)</li> </ul> <p>NONE◀: No data            See APPENDIX A: Character Code Table.  <a href="#">Page A-2</a></p> <ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) XX YY Z            XX: 00-99: 1000-Slot Memory Block No.            YY: 00-99: 10-Slot Memory Block No.            Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name by entering with PCPro/CAT (Maximum 16 characters)</li> </ul> <p>NONE◀: No data</p>
<u>END</u>		

## HARDWARE REQUIRED

Multiline Terminal with LCD and Soft Key, and DLC blade

# DIAL CONVERSION

## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign the type of telephone set to DTMF stations.  <b>NOTE:</b> <i>This data assignment is not required for Multiline Terminal stations.</i>	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 2: DTMF Telephone set</li> </ul>
CM35	For a DP trunk, assign the type of signaling for Outgoing and Bothway trunk routes to DP.  <b>BLADE RESET</b>  Specify the DP Sender characteristics to match the Central Office.  <b>BLADE RESET</b>  <b>NOTE:</b> <i>This command is available for LDT/ODT.</i>  For a DTMF trunk, assign the type of signaling for Outgoing and Bothway trunk routes to DTMF.  <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=001</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) &lt;Incoming&gt; &lt;Outgoing&gt; 2: DP DP</li> <li>Y=023 DP Inter-Digital Pause</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : 300 ms. 1 : 400 ms. 2 : 500 ms. 3 : 600 ms. 4 : 700 ms. 5 : 900 ms. 6 : 1100 ms. 7◀: 800 ms.</li> <li>Y=025 DP Make Ratio <b>NOTE</b></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : 39 % 1◀: 33 %</li> <li>Y=001</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) &lt;Incoming&gt; &lt;Outgoing&gt; 7◀: DP/DTMF DTMF</li> </ul>
A		

A	DESCRIPTION	DATA
CM35	Specify the DTMF Sender characteristics to match the Central Office.	<ul style="list-style-type: none"> <li>• Y=024 DTMF Inter-Digital Pause               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : 32 ms.</li> <li>1 : 64 ms.</li> <li>2 : 80 ms.</li> <li>3 : 96 ms.</li> <li>4 : 160 ms.</li> <li>5 : 192 ms.</li> <li>6 : 240 ms.</li> <li>7◀: 128 ms.</li> </ol> </li> <li>• Y=026 DTMF Signal Width               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : 64 ms.</li> <li>1◀: 128 ms.</li> </ol> </li> <li>• Y=046 DP/DTMF Release Timing               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : 2 seconds</li> <li>1 : 4 seconds</li> <li>2 : 6 seconds</li> <li>3 : 8 seconds</li> <li>4 : 12 seconds</li> <li>5 : 14 seconds</li> <li>6 : 16 seconds</li> <li>7◀: 10 seconds</li> </ol> </li> </ul>
CM08	Assign whether “*” or “#” button from a DTMF Telephone is used as a Switch Hook Flash while hearing Busy Tone.	<ol style="list-style-type: none"> <li>(1) 050: * button is used as Switch Hook Flash</li> <li>(2) 0 : Effective</li> <li>1◀: Ineffective</li> </ol> <ol style="list-style-type: none"> <li>(1) 051: # button is used as Switch Hook Flash</li> <li>(2) 0 : Effective</li> <li>1◀: Ineffective</li> </ol>
<u>END</u>		

# DIAL MASK FOR TRUNK CALL

To provide the Dial Mask on LCD during talk with trunk:

## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to the required stations.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Allow the Dial Mask for Trunk Call in service Restriction Class C assigned by CM12 Y=07.	<ul style="list-style-type: none"> <li>• Y=289</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0: Allow</li> </ul>
	<b>NOTE:</b> Set the second data of both CM15 Y=289 and CM35 Y=314 to "0" to be effective for Dial Mask on LCD.	
CM35	Allow the Dial Mask for Trunk Call for the trunk route number.	<ul style="list-style-type: none"> <li>• Y=314</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: Allow</li> </ul>
	<b>NOTE:</b> Set the second data of both CM15 Y=289 and CM35 Y=314 to "0" to be effective for Dial Mask on LCD.	
END		

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## ***DIRECT DIGITAL INTERFACE***

### **SYSTEM OUTLINE**

The PBX is equipped with Direct Digital Interface which can be interfaced with a Tie Line or Public Network of

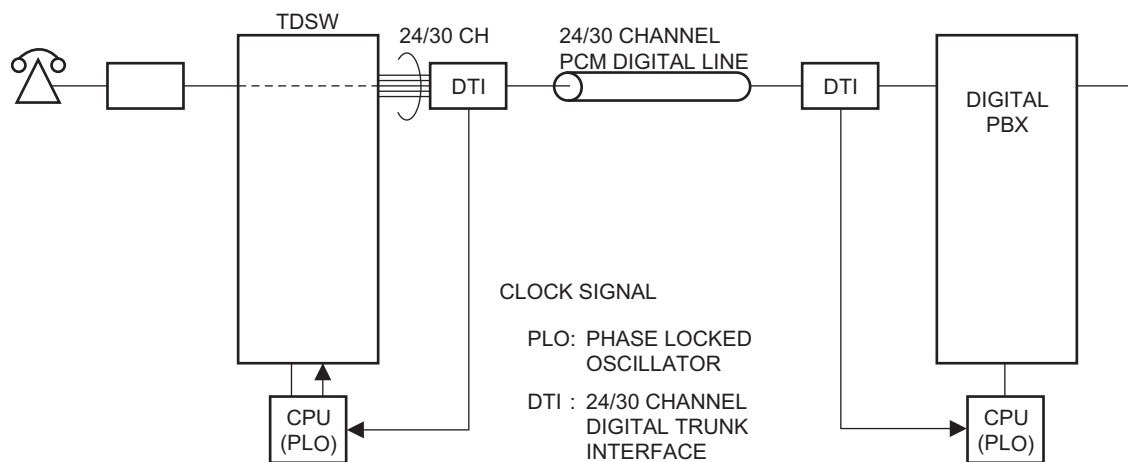
- 24-channel PCM Digital Line (1.544 MHz)
- 30-channel PCM Digital Line (2.048 MHz)

**[Brazil]**

**[Australia/EMEA/Asia/Latin America]**

To add a Direct Digital Interface to the system, it is necessary to install a DTI (Digital Trunk Interface) blade (GCD-PRTA). Figure below shows the system outline of the Direct Digital Interface of the PBX.

**System Outline of Direct Digital Interface**



## PROGRAMMING

- (1) 24DTI Assignment
  - (a) Tie Line Interface (E&M Tie Trunk)

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM05</div>	<p>Assign a Unit and Slot number to the DTI blade.</p> <p style="text-align: right;"><b>BLADE RESET</b></p> <p><b>NOTE:</b> <i>When PRT blade is used as a DTI blade for the first time, the PRI firmware program needs to be changed to the DTI firmware program by executing the blade firmware program update. For details, refer to the PC Programming Manual.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 43: DTI(T1) blade</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM10</div>	<p>Assign a Trunk blade number to the DTI blade.</p> <p style="text-align: right;"><b>BLADE RESET</b></p>	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 000-127: Trunk blade No.</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>	<p>Assign trunk numbers to Physical Port number on the DTI blade.</p> <p style="text-align: right;"><b>BLADE RESET</b></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-24: Circuit No.</li> <li>(2) D000-D511: Trunk No.</li> </ul>

A	DESCRIPTION	DATA
CM04	Assign the destination to receive the synchronous signal for DTI.	<ul style="list-style-type: none"> <li>• Y=10-59</li> <li>(1) 01: First priority 02: Second priority</li> <li>(2) 01-18: Slot No.</li> </ul>
	BLADE RESET	
	<p><b>NOTE:</b> Assign this data when the system is a slave office and receives the check synchronization signal from the master office. This data assignment is not required when the office is the master office.</p>	
CMAA	Assign the necessary functions to the DTI blade.	<ul style="list-style-type: none"> <li>• Y=00 Data Mode</li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 1◀: Based on AT&amp;T Specifications</li> </ul>
	BLADE RESET	
	<p><b>NOTE:</b> Because SV9300 supports the AT&amp;T Specifications, the system data setting in accordance with the AT&amp;T specifications is required for SV9300 as well as the opposite office.</p>	<ul style="list-style-type: none"> <li>• Y=01 Frame Configuration</li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 0 : 12-Multi Frame (D4) 1◀: 24-Multi Frame (ESF)</li> </ul>
	Select the cable length for DTI.	<ul style="list-style-type: none"> <li>• Y=09 Idle Code on ISDN B channels</li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 0 : Send 7F to PSTN 1◀: Send FF to PSTN</li> </ul>
	BLADE RESET	
	<ul style="list-style-type: none"> <li>• Y=19 Cable Length</li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 0 : 0-40 m (0-131.2 ft) 1 : 41-81 m (134.5-265.7 ft) 2 : 82-122 m (269.0-400.2 ft) 3 : 123-162 m (403.4-531.4 ft) 4 : 163-200 m (534.6-656 ft) 7◀: 0-40 m (0-131.2 ft)</li> </ul>	
B		

B	DESCRIPTION	DATA
CM30	Assign a trunk route number for tie line interface to each DTI.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) 00-63: Trunk Route No.</li> </ul>
	<b>BLADE RESET</b>	
	<b>NOTE:</b> <i>The DTI route must be separated from any analog trunk route.</i>	
CM35	Assign trunk route data to each DTI trunk route.	<ul style="list-style-type: none"> <li>• Y=000 Kind of Trunk Route</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 04: Tie line trunk</li>   <li>• Y=001 Dialing signal type</li> <li style="text-align: right;"><b>BLADE RESET</b></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 7◀: DP/DTMF (Incoming) DTMF (Outgoing)</li>   <li>• Y=004 Answer signal from distant office</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 2: Answer signal arrives</li>   <li>• Y=005 Release signal from distant office</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li>   <li>• Y=009 Incoming connection signaling</li> <li style="text-align: right;"><b>BLADE RESET</b></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 03: Wink Start 04: Delay Dial 05: Immediate Start 06: 2nd DT/Timing Start-Tie line</li>   <li>• Y=020 Sender start condition</li> <li style="text-align: right;"><b>BLADE RESET</b></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00 : Wink Start 01 : Delay Dial 02 : Ground Start 15◀: Timing Start</li> </ul>
C		



C	DESCRIPTION	DATA
CM41	Specify the various timing, if required. <div style="border: 1px solid black; border-radius: 15px; padding: 2px; display: inline-block;">BLADE RESET</div>	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 20: Answer Signal Detect Timing on DTI trunk</li> <li>(2) 01-98: 8-784 ms. (8 ms. increments) 99 : 1020 ms.</li> <li>If no data is set, the default setting is 60 ms.</li> <li>• Y=3</li> <li>(1) 21: Release Signal Detect Timing on DTI trunk</li> <li>(2) 01-98: 200-19600 ms. (200 ms. increments) 99 : 25500 ms.</li> <li>If no data is set, the default setting is 600 ms.</li> <li>• Y=3</li> <li>(1) 22: Ring Signal Detect Timing for DTI Trunk</li> <li>(2) 01-98: 16-1568 ms. (16 ms. increments) 99 : 2040 ms.</li> <li>If no data is set, the default setting is 80 ms.</li> <li>• Y=3</li> <li>(1) 23: DTI Wink signal sending time for connection check</li> <li>(2) 01-98: 16-1568 ms. (16 ms. increments) 99 : 2040 ms.</li> <li>If no data is set, the default setting is 200 ms.</li> <li>• Y=3</li> <li>(1) 24: DTI Trunk Wink/Delay Signal Timeout</li> <li>(2) 01-98: 16-1568 ms. (16 ms. increments) 99 : 2040 ms.</li> <li>If no data is set, the default setting is 200 ms.</li> <li>• Y=3</li> <li>(1) 25: DTI Receive Wink/Delay signal duration minimum time <b>NOTE</b></li> <li>(2) 01-98: 16-1568 ms. (16 ms. increments) 99 : 2040 ms.</li> <li>If no data is set, the default setting is 200 ms.</li> </ul>
D	<p><b>NOTE:</b> When providing Delay Dial, set the second data of CM41 Y=3&gt;25 to 01 (16ms).</p>	

D	DESCRIPTION	DATA
CM41		
CM20	Assign an access code for the DTI trunk route.	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 26: DTI Receive Wink/Delay signal duration maximum time</li> <li>(2) 01-98: 16-1568 ms. (16 ms. increments)</li> <li>99 : 2040 ms.</li> </ul> <p>If no data is set, the default setting is 500 ms.</p>
	<p><b>NOTE:</b> <i>The Least Cost Routing or Route Advance feature is available for call origination via the DTI. Refer to the following feature programming.</i></p> <p><i>LEAST COST ROUTING-3/6</i>  <i>DIGIT</i> <a href="#">☞ Page 1-448</a>  <i>ROUTE ADVANCE</i>  <a href="#">☞ Page 1-724</a></p>	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) 100-163: Trunk Route 00-63</li> </ul>
<u>END</u>		

- When the setting of more than 16 Highway Channels are required for a DTI blade, reassignment of the Highway Channel (108 ch) allocation is required to each physical slot (slot01-06/07-12/13-18). The programming for Highway Channel reassignment is as follows. For the details of Highway Channel reassignment, refer to “CMF7 Y=9” in Command Manual.

START	DESCRIPTION	DATA
CMF7	Reassign Highway Channel.	<ul style="list-style-type: none"> <li>• Y=9</li> <li>(1) XX YY XX: 01-50: Unit No. YY: 01/07/13: Lowest slot No. in each Line/Trunk chassis (2U)</li> <li>(2) XX YY XX: 01-50: Unit No. YY: 06/12/18: Highest slot No. in each Line/Trunk chassis (2U)</li> </ul>
CME0	Execute the blade reset for all slots of the Unit accommodated the DTI blade.  <b>NOTE 1:</b> <i>Set the same Unit No. and Slot No. assigned by the first data.</i>  <b>NOTE 2:</b> <i>“00000000-FFFFFFFF” is displayed as the second data when this command is executed. You can confirm the port status of the blade which is accommodated to the specified slot by this data display. 00000000: All ports are not in use Other than 00000000: Ports in use are included.</i>  <b>NOTE 3:</b> <i>For the blade reset while the system is operating, be sure to check the port status. The blade reset must be executed when all ports are not in use.</i>	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) XX YY XX: 01-50: Unit No. YY: 01-18: Slot No.</li> <li>(2) XX YY XX: 01-50: Unit No. YY: 01-18: Slot No.</li> </ul>
<u>END</u>		

(b) C.O. Line Interface (Loop Start Trunk)

**[9300V5 software required]**

START	DESCRIPTION	DATA
<p>CM05</p>	<p>Assign a Unit and Slot number to the DTI blade.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ                XX: 01-50: Unit No.                ZZ : 01-18: Slot No.</li> <li>(2) 43: DTI(T1) blade</li> </ul>
	<p><b>NOTE:</b> <i>When PRT blade is used as a DTI blade for the first time, the PRI firmware program needs to be changed to the DTI firmware program by executing the blade firmware program update. For details, refer to the PC Programming Manual.</i></p>	
	<p>Assign a Trunk blade number to the DTI blade.</p>	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) XX ZZ                XX: 01-50: Unit No.                ZZ : 01-18: Slot No.</li> <li>(2) 000-127: Trunk blade No.</li> </ul>
<p>CM04</p>	<p>Assign the destination to receive the synchronous signal for DTI.</p>	<ul style="list-style-type: none"> <li>• Y=10-59</li> <li>(1) 01: First priority                02: Second priority</li> <li>(2) 01-18: Slot No.</li> </ul>
	<p><b>NOTE:</b> <i>Assign this data when the system is a slave office and receives the check synchronization signal from the master office. This data assignment is not required when the office is the master office.</i></p>	
<p>A</p>		

A	DESCRIPTION	DATA
CMAA	Assign the necessary functions to the DTI blade.	<ul style="list-style-type: none"> <li>• Y=00 Data Mode (1.5M (T1) DTI)               <ul style="list-style-type: none"> <li>(1) 000-127: Trunk blade No.</li> <li>(2) 0: As per CM35 Y=369</li> </ul> </li> <li>• Y=01 Frame Configuration (1.5M (T1) DTI)               <ul style="list-style-type: none"> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 0 : 12-Multi Frame (D4) 1◀: 24-Multi Frame (ESF)</li> </ul> </li> <li>• Y=09 Idle Code on 1.5M (T1) DTI channels               <ul style="list-style-type: none"> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 0 : Send 7F to PSTN 1◀: Send FF to PSTN</li> </ul> </li> </ul>
	BLADE RESET	
	<p><b>NOTE:</b> <i>Because SV9300 supports the AT&amp;T Specifications, the system data setting in accordance with the AT&amp;T specifications is required for SV9300 as well as the opposite of-fice.</i></p>	
	Select the cable length for DTI.	<ul style="list-style-type: none"> <li>• Y=19 Cable Length               <ul style="list-style-type: none"> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 0 : 0-40 m (0-131.2 ft) 1 : 41-81 m (134.5-265.7 ft) 2 : 82-122 m (269.0-400.2 ft) 3 : 123-162 m (403.4-531.4 ft) 4 : 163-200 m (534.6-656 ft) 7◀: 0-40 m (0-131.2 ft)</li> </ul> </li> </ul>
	BLADE RESET	
CM10	Assign trunk numbers to Physical Port number on the DTI blade.	<ul style="list-style-type: none"> <li>• Y=00               <ul style="list-style-type: none"> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-24: Circuit No.</li> <li>(2) D000-D511: Trunk No.</li> </ul> </li> </ul>
	BLADE RESET	
B		

B	DESCRIPTION	DATA
CM30	Assign a trunk route number for tie line interface to each DTI.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) 00-63 : Trunk Route No. NONE◀: No data</li> </ul>
CM35	Assign trunk route data to each DTI trunk route.	<ul style="list-style-type: none"> <li>• Y=000 Kind of Trunk Route</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00: DDD (C.O., DID) trunk</li> <li>• Y=001 Dialing signal type</li> <li style="text-align: right;">BLADE RESET</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 2 : DP10 PPS (Incoming) DP10 PPS (Outgoing)</li> <li>3 : DP10/20PPS (Incoming) DP20 PPS (Outgoing)</li> <li>4 : DTMF (Incoming) DTMF (Outgoing)</li> <li>7◀: DP/DTMF (Incoming) DTMF (Outgoing)</li> <li>• Y=004 Answer signal from distant office</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 2 : Answer signal arrives 7◀: Answer signal does not arrives</li> <li>• Y=005 Release signal from distant office</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Release signal does not arrives 1◀: Release signal arrives</li> <li>• Y=009 Incoming connection signaling</li> <li style="text-align: right;">BLADE RESET</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 15◀: Ring Down</li> <li>• Y=020 Sender start condition</li> <li style="text-align: right;">BLADE RESET</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 15◀: Timing Start</li> </ul>
C		

C	DESCRIPTION	DATA
CM35		<ul style="list-style-type: none"> <li>• Y=369 Data Mode for Trunk Route (1.5M (T1) DTI)</li> </ul>
CM41	Specify the various timing, if required. <div style="border: 1px solid black; border-radius: 15px; padding: 2px; display: inline-block; margin-top: 5px;">BLADE RESET</div>	<div style="border: 1px solid black; border-radius: 15px; padding: 2px; display: inline-block; margin-bottom: 10px;">BLADE RESET</div> <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 01: Loop Start Trunk (FXS)</li> </ul> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 52: 1.5M (T1: Loop Start) DTI Answer Signal Detect Timing</li> <li>(2) 01-98: 8-784 ms. (8 ms. increments) 99 : 1020 ms.</li> </ul> <p>If no data is set, the default setting is 544 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 53: 1.5M (T1: Loop Start) DTI Release Signal Detect Timing</li> <li>(2) 01-99: 100-9900 ms. (100 ms. increments)</li> </ul> <p>If no data is set, the default setting is 500 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 54: 1.5M (T1: Loop Start) DTI Ring Signal Detect Timing</li> <li>(2) 01-98: 16-1568 ms. (16 ms. increments) 99 : 2040 ms.</li> </ul> <p>If no data is set, the default setting is 176 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 55: 1.5M (T1: Loop Start) DTI Ringing Signal Stop Detection Time</li> <li>(2) 01-99: 100-9900 ms. (100 ms. increments)</li> </ul> <p>If no data is set, the default setting is 6800 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 56: 1.5M (T1: Loop Start) DTI Guard Time</li> <li>(2) 01-99: 100-9900 ms. (100 ms. increments)</li> </ul> <p>If no data is set, the default setting is 500 ms.</p>
D		

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D	DESCRIPTION	DATA
CM20	Assign an access code for the DTI trunk route.  <b>NOTE:</b> <i>The Least Cost Routing or Route Advance feature is available for call origination via the DTI. Refer to the following feature programming. LEAST COST ROUTING-3/6 DIGIT <a href="#">Page 1-448</a> ROUTE ADVANCE <a href="#">Page 1-724</a></i>	<ul style="list-style-type: none"><li>• Y=0-3 Numbering Plan Group 0-3</li><li>(1) X-XXXX: Access Code</li><li>(2) 100-163: Trunk Route 00-63</li></ul>
<u>END</u>		

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- When the setting of more than 16 Highway Channels are required for a DTI blade, reassignment of the Highway Channel (108 ch) allocation is required to each physical slot (slot01-06/07-12/13-18). The programming for Highway Channel reassignment is as follows. For the details of Highway Channel reassignment, refer to “CMF7 Y=9” in Command Manual.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CMF7</div>	Reassign Highway Channel.	<ul style="list-style-type: none"> <li>Y=9</li> </ul> (1) XX YY XX: 01-50: Unit No. YY: 01/07/13: Lowest slot No. in each Line/Trunk chassis (2U) (2) XX YY XX: 01-50: Unit No. YY: 06/12/18: Highest slot No. in each Line/Trunk chassis (2U)
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CME0</div>	Execute the blade reset for all slots of the Unit accommodated the DTI blade.  <p><b>NOTE 1:</b> <i>Set the same Unit No. and Slot No. assigned by the first data.</i></p> <p><b>NOTE 2:</b> <i>“00000000-FFFFFFFF” is displayed as the second data when this command is executed.</i>  <i>You can confirm the port status of the blade which is accommodated to the specified slot by this data display.</i>  <i>00000000: All ports are not in use</i>  <i>Other than 00000000: Ports in use are included.</i></p> <p><b>NOTE 3:</b> <i>For the blade reset while the system is operating, be sure to check the port status. The blade reset must be executed when all ports are not in use.</i></p>	<ul style="list-style-type: none"> <li>Y=3</li> </ul> (1) XX YY XX: 01-50: Unit No. YY: 01-18: Slot No. (2) XX YY XX: 01-50: Unit No. YY: 01-18: Slot No.
<div style="border: 1px solid black; padding: 2px; width: fit-content;">END</div>		

30DTI Assignment

[Brazil]

[Australia/EMEA/Asia/Latin America]

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CM05</div>	<p>Assign a Unit and Slot number to the DTI blade.</p> <p style="text-align: center;"><b>BLADE RESET</b></p> <p><b>NOTE 1:</b> <i>When PRT blade is used as a DTI blade for the first time, the PRI firmware program needs to be changed to the DTI firmware program by executing the blade firmware program update. For details, refer to the PC Programming Manual.</i></p> <p><b>NOTE 2:</b> <i>When the setting of more than 16 Highway Channels are required for a DTI blade, reassign the Highway Channel (108 ch) allocation by CMF7 Y=9. <a href="#">Page 1-294</a></i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 47: DTI (E1 2 Mbps) blade</li> </ul>
	<p>Assign a Trunk blade number to the DTI blade.</p> <p style="text-align: center;"><b>BLADE RESET</b></p>	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 000-127: Trunk blade No.</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CM08</div>	<p>Set the Level diagram setting (System) to Standard Pattern.</p>	<ul style="list-style-type: none"> <li>(1) 739</li> <li>(2) 1◀: Standard Pattern</li> </ul>
	<div style="border: 1px solid black; padding: 2px; width: fit-content;">CM10</div>	<p>Assign trunk numbers to Physical Port number on the DTI blade. Circuit No. 16 cannot be assigned.</p> <p style="text-align: center;"><b>BLADE RESET</b></p>
<div style="border: 1px solid black; padding: 2px; width: fit-content; text-align: center;">A</div>		

A	DESCRIPTION	DATA
CM04	<p>Assign the destination to receive the synchronous signal for DTI.</p> <p style="text-align: center;"><b>BLADE RESET</b></p>	<ul style="list-style-type: none"> <li>• Y=10-59</li> <li>(1) 01: First priority</li> <li>    02: Second priority</li> <li>(2) 01-18: Slot No.</li> </ul>
	<p><b>NOTE 1:</b> Assign this data when the system is a slave office and receives the clock synchronization signal from the master office (this data assignment is not required when the office is the master office). When receiving the clock signal only from DTI blade of the first priority within a same Unit, set the Slot No. of the appropriate DTI blade only for the first data 01 (first priority). In addition, if the system is unable to receive the clock signal from DTI blade of the first priority due to the line failure, to automatically switch the reception route to the DTI blade of the second priority, set the Slot No. of the appropriate DTI blade for the first data 01 (first priority) and 02 (second priority).</p> <p><i>Setting Example:</i>            When assigning the first DTI blade (for Slot01) of Unit01 to the first priority and the second DTI blade (for Slot02) of Unit02 to the second priority:            - CM04 Y=10&gt;01: 01 (first priority)            - CM04 Y=10&gt;01: 02 (second priority)</p>	
	<p><b>NOTE 2:</b> For multiple Unit configurations, specify the blade to receive the synchronization signal for each Unit accommodating DTI.</p>	
CMAA	<p>Assign the necessary functions to the DTI blade.</p> <p style="text-align: center;"><b>BLADE RESET</b></p>	<ul style="list-style-type: none"> <li>• Y=00 Data Mode</li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 1◀: Based on AT&amp;T Specifications</li> </ul>
	<p><b>NOTE:</b> Because SV9300 supports the AT&amp;T Specifications, the system data setting in accordance with the AT&amp;T specifications is required for SV9300 as well as the opposite office.</p>	
B		

B	DESCRIPTION	DATA
CMAA	Assign the necessary functions to the DTI blade.	<ul style="list-style-type: none"> <li>• Y=01 Frame Configuration               <ol style="list-style-type: none"> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 0 : Double Frame (no CRC-4) 1◀: CRC-4 multiframe structure <b>NOTE</b></li> </ol> </li> <li>• Y=09 Encoding Selection               <ol style="list-style-type: none"> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 0 : AMI 1◀: HDB3</li> </ol> </li> <li>• Y=19 Cable Length               <ol style="list-style-type: none"> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 0 : 0-40 m (0-131.2 ft) 1 : 41-81 m (134.5-265.7 ft) 2 : 82-122 m (269.0-400.2 ft) 3 : 123-162 m (403.4-531.4 ft) 4 : 163-200 m (534.6-656 ft) 7◀: 0-40 m (0-131.2 ft)</li> </ol> </li> <li>• Y=21 Receiving pulse level               <ol style="list-style-type: none"> <li>(1) 000-127: Trunk Blade No. assigned by CM05 Y=1</li> <li>(2) 00 : 0.91/1.70 V 01 : 0.74/0.84 V 02 : 0.59/0.84 V 03 : 0.42/0.45 V 04 : 0.32/0.45 V 05 : 0.21/0.20 V 06 : 0.16/0.10 V 07 : 0.10/not defined 15◀: 0.91/1.70 V</li> </ol> </li> <li>• Y=25 Type of Trunk               <ol style="list-style-type: none"> <li>(1) 000-127: Trunk Blade No. assigned by CM05 Y=1</li> <li>(2) 08 : Brazil Code for correct call blocking trunk 15◀: ITU-T Q421 Standard trunk</li> </ol> </li> </ul>
C	<p style="text-align: center;"><b>BLADE RESET</b></p> <p><b>NOTE:</b> <i>Cyclic redundancy checking (CRC) for DTI (CM35 Y=089) is not effective when the DTI (E1 2 Mbps) is used.</i></p>	

C	DESCRIPTION	DATA
CM30	Assign a trunk route number for tie line interface to each DTI.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) 00-63: Trunk Route No.</li> </ul>
	<b>BLADE RESET</b>	
	<b>NOTE:</b> <i>The DTI route must be separated from any analog trunk route.</i>	
CM35	Assign trunk route data to each DTI trunk route.	<ul style="list-style-type: none"> <li>• Y=000 Kind of Trunk Route</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 04: Tie line trunk</li> <li>• Y=001 Dialing signal type</li> <li style="text-align: right;"><b>BLADE RESET</b></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 4: DTMF (Incoming) DTMF (Outgoing)</li> <li>• Y=004 Answer signal from distant office</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 2: Answer signal arrives</li> <li>• Y=005 Release signal from distant office</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li> <li>• Y=009 Incoming connection signaling</li> <li style="text-align: right;"><b>BLADE RESET</b></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 05: Immediate Start 06: 2nd DT/Timing Start-Tie line</li> <li>• Y=020 Sender start condition</li> <li style="text-align: right;"><b>BLADE RESET</b></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 15◀: Timing Start</li> </ul>
D		

D	DESCRIPTION	DATA
CM41	Specify the various timing, if required.	<ul style="list-style-type: none"> <li>• Y=3               <ol style="list-style-type: none"> <li>(1) 30: Loop Current Detect Timing</li> <li>(2) 01-98: 16-1568 ms. (16 ms. increments) 99 : 4080 ms.</li> </ol>               If no data is set, the default setting is 48 ms.             </li> <li>• Y=3               <ol style="list-style-type: none"> <li>(1) 31: Clear Signal Detect Timing</li> <li>(2) 01-98: 16-1568 ms. (16 ms. increments) 99 : 2040 ms.</li> </ol>               If no data is set, the default setting is 400 ms.             </li> <li>• Y=3               <ol style="list-style-type: none"> <li>(1) 32: Transmit clear signal time for Forced Release</li> <li>(2) 01-98: 32-3136 ms. (32 ms. increments) 99 : 4080 ms.</li> </ol>               If no data is set, the default setting is 800 ms.             </li> <li>• Y=3               <ol style="list-style-type: none"> <li>(1) 33: Transmit Answer duration time</li> <li>(2) 01-98: 16-1568 ms. (16 ms. increments) 99 : 2040 ms.</li> </ol>               If no data is set, the default setting is 304 ms.             </li> <li>• Y=3               <ol style="list-style-type: none"> <li>(1) 34: Transmit Double Answer duration time</li> <li>(2) 01-98: 128-12544 ms. (128 ms. increments) 99 : 16320 ms.</li> </ol>               If no data is set, the default setting is 2048 ms.             </li> <li>• Y=3               <ol style="list-style-type: none"> <li>(1) 35: Receive Answer minimum time</li> <li>(2) 01-98: 16-1568 ms. (16 ms. increments) 99 : 2040 ms.</li> </ol>               If no data is set, the default setting is 200 ms.             </li> </ul>
E	BLADE RESET	

E	DESCRIPTION	DATA
CM41		<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 36: Receive Answer maximum time</li> <li>(2) 01-98: 128-12544 ms. (128 ms. increments)</li> <li>99 : 16320 ms.</li> </ul> <p>If no data is set, the default setting is 400 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 37: Receive Double Answer minimum time</li> <li>(2) 01-98: 128-12544 ms. (128 ms. increments)</li> <li>99 : 16320 ms.</li> </ul> <p>If no data is set, the default setting is 1536 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 38: Receive Double Answer maximum time</li> <li>(2) 01-98: 28-12544 ms. (128 ms. increments)</li> <li>99 : 16320 ms.</li> </ul> <p>If no data is set, the default setting is 3008 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 39: Transmit Seizure Acknowledge duration time</li> <li>(2) 01-98: 8-784 ms. (8 ms. increments)</li> <li>99 : 1020 ms.</li> </ul> <p>If no data is set, the default setting is 100 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 40: Receive Seizure Acknowledge minimum time</li> <li>(2) 01-98: 8-784 ms. (8 ms. increments)</li> <li>99 : 1020 ms.</li> </ul> <p>If no data is set, the default setting is 100 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 41: Receive Seizure Acknowledge maximum time</li> <li>(2) 01-98: 8-784 ms. (8 ms. increments)</li> <li>99 : 1020 ms.</li> </ul> <p>If no data is set, the default setting is 300 ms.</p>
F		

F	DESCRIPTION	DATA
CM41		<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 42: Transmit Digit Acknowledge duration time</li> <li>(2) 01-98: 8-784 ms. (8 ms. increments) 99 : 1020 ms.</li> </ul> <p>If no data is set, the default setting is 100 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 43: Receive Digit Acknowledge minimum time</li> <li>(2) 01-98: 8-784 ms. (8 ms. increments) 99 : 1020 ms.</li> </ul> <p>If no data is set, the default setting is 100 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 44: Receive Digit Acknowledge maximum time</li> <li>(2) 01-98: 8-784 ms. (8 ms. increments) 99 : 1020 ms.</li> </ul> <p>If no data is set, the default setting is 300 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 49: Transmit Remove Ring time</li> <li>(2) 00-98: 0-784 ms. (8 ms. increments) 99 : 2040 ms.</li> </ul> <p>If no data is set, the default setting is 0 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 50: Transmit Clear Signal Send time</li> <li>(2) 01-98: 32-3136 ms. (32 ms. increments) 99 : 4080 ms.</li> </ul> <p>If no data is set, the default setting is 1008 ms.</p> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 51: Transmit Seizure Signal time</li> <li>(2) 01-98: 16-1568 ms. (16 ms. increments) 99 : 2040 ms.</li> </ul> <p>If no data is set, the default setting is 800 ms.</p>
G		



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G	DESCRIPTION	DATA
CM20	Assign an access code for the DTI trunk route.  <b>NOTE:</b> <i>The Least Cost Routing or Route Advance feature is available for call origination via the DTI. Refer to the following feature programming. LEAST COST ROUTING-3/6 DIGIT <a href="#">Page 1-448</a> ROUTE ADVANCE <a href="#">Page 1-724</a></i>	<ul style="list-style-type: none"><li>• Y=0-3 Numbering Plan Group 0-3</li><li>(1) X-XXXX: Access Code</li><li>(2) 100-163: Trunk Route 00-63</li></ul>
<u>END</u>		

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- When the setting of more than 16 Highway Channels are required for a DTI blade, reassignment of the Highway Channel (108 ch) allocation is required to each physical slot (slot01-06/07-12/13-18). The programming for Highway Channel reassignment is as follows. For the details of Highway Channel reassignment, refer to “CMF7 Y=9” in Command Manual.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CMF7</div>	Reassign Highway Channel.	<ul style="list-style-type: none"> <li>• Y=9</li> <li>(1) XX YY                          XX: 01-50: Unit No.                          YY: 01/07/13: Lowest slot No. in each Line/Trunk chassis (2U)</li> <li>(2) XX YY                          XX: 01-50: Unit No.                          YY: 06/12/18: Highest slot No. in each Line/Trunk chassis (2U)</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CME0</div>	Execute the blade reset for all slots of the Unit accommodated the DTI blade.  <b>NOTE 1:</b> <i>Set the same Unit No. and Slot No. assigned by the first data.</i>  <b>NOTE 2:</b> <i>“00000000-FFFFFFFF” is displayed as the second data when this command is executed. You can confirm the port status of the blade which is accommodated to the specified slot by this data display. 00000000: All ports are not in use Other than 00000000: Ports in use are included.</i>  <b>NOTE 3:</b> <i>For the blade reset while the system is operating, be sure to check the port status. The blade reset must be executed when all ports are not in use.</i>	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) XX YY                          XX: 01-50: Unit No.                          YY: 01-18: Slot No.</li> <li>(2) XX YY                          XX: 01-50: Unit No.                          YY: 01-18: Slot No.</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content;">END</div>		

## DIRECT INWARD DIALING (DID)

### PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM08</div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100px; margin-left: 10px;"></div>	Assign the ring cadence on a Direct Inward Dialing.	(1) 180 (2) 0 : For Multiline Terminal: 0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-2 seconds OFF <b>[For North America]</b> Special Ringing (See Interval of Ringing Tones for Multiline Terminal by CM08>392/396/397) <a href="#">Page 1-344</a> <b>[For other than North America]</b> For Single Line Telephone: As per CM04 Y=00>06 (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00>05/06/07) <a href="#">Page 1-345</a> 1◀: As per CM35 Y=033 or CM76 Y=22
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM05</div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100px; margin-left: 10px;"></div>	Assign a Unit and Slot number to the Direct Inward Dialing blade.	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> (1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No. (2) 32: Direct Inward Dialing blade
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM10</div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100px; margin-left: 10px;"></div>	Assign the trunk numbers to the required Physical Port number.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No. (2) D000-D511: Trunk No.
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">A</div>		

BLADE RESET

A	DESCRIPTION	DATA
CM30	Assign the data for DID to the trunk numbers assigned by CM10 Y=00.	<ul style="list-style-type: none"> <li>• Y=00 Trunk Route Allocation <b>BLADE RESET</b></li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00-63: Trunk Route No.</li> <li>• Y=01 Tenant Allocation</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00-63: Tenant No.</li> <li>01◀ : Tenant No.</li> </ul>
	Assign the data for DID to the trunk numbers assigned by CM10 Y=00.	<ul style="list-style-type: none"> <li>• Y=02 Terminating System in Day Mode</li> <li>• Y=03 Terminating System in Night Mode</li> <li>• Y=40 Terminating System in Mode A</li> <li>• Y=41 Terminating System in Mode B</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 31◀: DID, Tie Line and any call which is not handled by the PBX</li> </ul>
CM35	Assign the data for DID to the trunk routes assigned by CM30 Y=00.	<ul style="list-style-type: none"> <li>• Y=000 Kind of Trunk Route</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00: DID trunk</li> <li>• Y=002 Call direction</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1: Incoming trunk</li> <li>• Y=005 Release Signal from distant office</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release Signal arrives</li> <li>• Y=009 Incoming connection signaling <b>BLADE RESET</b></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 06: 2nd DT/Timing Start-Tie Line</li> <li>• Y=075 DID incoming LDN display on Multiline Terminal/DESKCON</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Available</li> <li>1◀: Not available <b>NOTE</b></li> </ul>
	<p><b>NOTE:</b> When 2nd data is set to "1", the Trunk ID number assigned by CM30 Y=19 is displayed.</p>	
B		

B	DESCRIPTION	DATA
CM49	Assign the function of each Voice Response System, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 0D00: Announcement Service when the called station does not answer the DID/Tie Line call</li> <li>0E00: Announcement Service when the DID/Tie Line call terminates to the busy station</li> </ul>
CM51	Assign the destination of DID call transferred when the station is no answer/busy/unassigned.  <b>NOTE:</b> <i>When Announcement Service is provided for No Answer (CM51 Y=00) or Busy (CM51 Y=03), see ANNOUNCEMENT SERVICE.</i> <a href="#">Page 1-12</a> <i>When Announcement Service is provided for unassigned (CM51 Y=06), see INTERCEPT ANNOUNCEMENT.</i> <a href="#">Page 1-437</a>	<ul style="list-style-type: none"> <li>• Y=00 No Answer</li> <li>• Y=03 Busy</li> <li>• Y=06 Unassigned</li> <li>(1) 00-63: Tenant No.</li> <li>(2) Destination:               <ul style="list-style-type: none"> <li>X-XXXXXXXX: Station No.</li> <li>E000 : Attendant Console</li> <li>EB000-EB015 : Voice Response System No.</li> </ul> </li> </ul>
END		

To assign the destination tenant for Day/Night Mode and Mode A/B, when DID call terminates (When CM76 Y=01/02/03/04 is set to "D13" (TAS)):

START	DESCRIPTION	DATA
CM76	Assign the tenant for Day/Night Mode and Mode A/B per station number received on DID call.	<ul style="list-style-type: none"> <li>• Y=05 Day Mode</li> <li>• Y=06 Night Mode</li> <li>• Y=07 Mode A</li> <li>• Y=08 Mode B</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 00-63: Trunk Tenant No.</li> </ul>
END		

To assign the destination tenant for Day/Night Mode and Mode A/B, when DID call terminates (When CM76 Y=01/02/03/04 is set to “station number to be terminated”):

START	DESCRIPTION	DATA
CM12	Assign a tenant number to each station assigned by CM76 Y=01/02/03/04.	<ul style="list-style-type: none"> <li>• Y=04</li> <li>(1) X-XXXXXXXX: Station No. assigned by CM76 Y=01/02/03/04</li> <li>(2) 00-63: Tenant No. 01◀: Tenant No.</li> </ul>
CM76	Assign the terminating station tenant for each DID number during Day/Night Mode and Mode A/B.	<ul style="list-style-type: none"> <li>• Y=18 Day Mode</li> <li>• Y=19 Night Mode</li> <li>• Y=20 Mode A</li> <li>• Y=21 Mode B</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 00-63 : Station Tenant No. NONE◀: Trunk Tenant</li> </ul>
END		

### HARDWARE REQUIRED

Direct Inward Dialing blade (DID Trunk)  
 CPU blade (VRS using a built-in Flash ROM)

## DID CALL WAITING

### PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify the Camp-On tone sent to a busy station by Camp-On Call Waiting Method.	<ul style="list-style-type: none"> <li>(1) 367</li> <li>(2) 0 : Every 4 seconds</li> <li>1◀: Only once</li> </ul>
CM12	Assign Service Restriction Class A for the Call Waiting feature to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ</li> <li>XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Waiting Answer from called side in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=044 Call Waiting Answer from called side</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM35	Provide DID Call Waiting to the trunk routes assigned by CM30.	<ul style="list-style-type: none"> <li>• Y=059 Call Waiting for DID call</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
CM76	Specify Call Waiting for DID call per incoming LDN number, if required.	<ul style="list-style-type: none"> <li>• Y=10</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 0 : Restricted</li> <li>1◀: Allow</li> </ul>
	<p><b>NOTE:</b> <i>CM76 Y=10 is effective when the 2nd data of CM35 Y=018 is "0" (Received Digits Conversion is to be provided).</i></p>	
END		

## DID DIGIT CONVERSION

### PROGRAMMING SUMMARY FOR DID DIGIT CONVERSION

- (1) Specify whether the DID Digit Conversion is provided for each trunk route by CM35 Y=018.
- (2) To provide the DID Digit Conversion, set the following data.

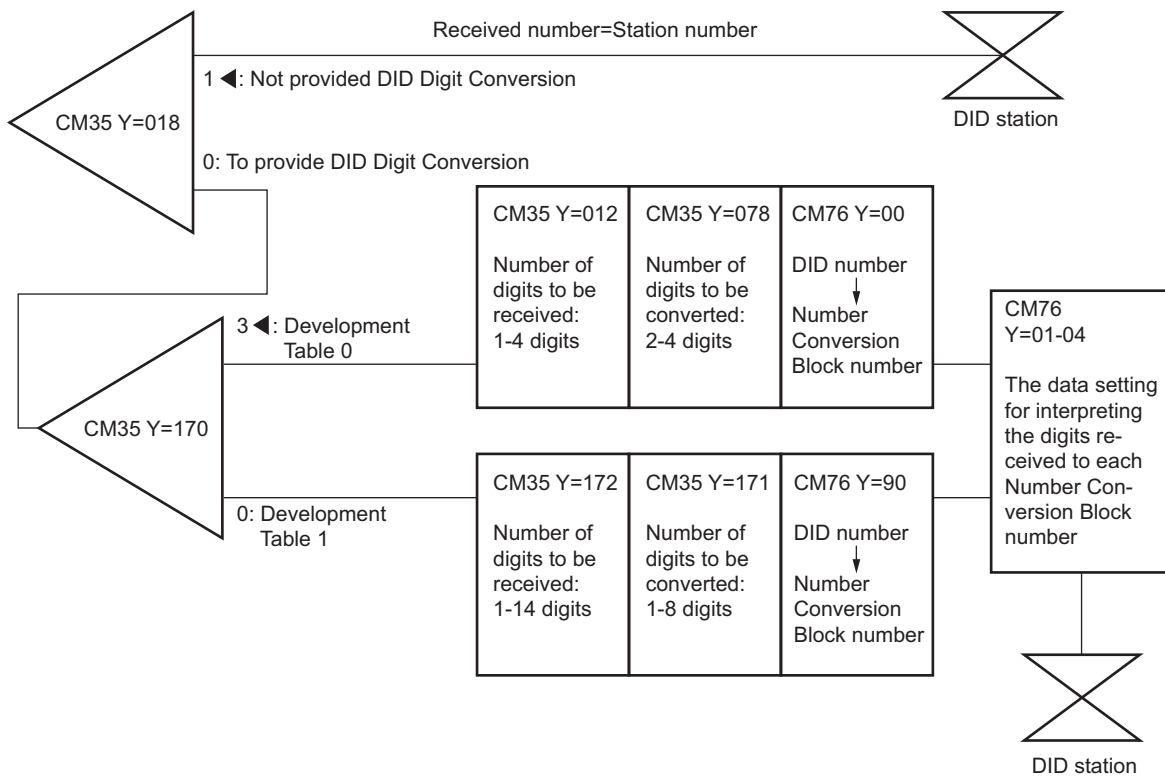
STEP1: Specify the Development Table for DID Digit Conversion to each trunk route by CM35 Y=170.

STEP2: Assign the number of digits to be received on DID and the number of digits to be converted on DID to each trunk route/each Development Table by CM35 Y=012, 078/CM35 Y=171, 172.

STEP3: Set the Number Conversion Block number for each Development Table by CM76 Y=00, 90.


STEP4: Assign the data for interpreting the received digits to each Number Conversion Block number by CM76 Y=01-04.

### DID Digit Conversion Programming Procedure





**PROGRAMMING**

START	DESCRIPTION	DATA
CM35	Provide DID Digit Conversion to the trunk route number assigned by CM30 Y=00.	<ul style="list-style-type: none"> <li>• Y=018</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
	Specify the Development Table for DID Digit Conversion.	<ul style="list-style-type: none"> <li>• Y=170</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Development Table 1</li> <li>3◀: Development Table 0</li> </ul>
	<p><b>NOTE:</b> <i>When using the Development Table 1, see SAMPLE DATA PROGRAMMING.</i></p> <p> <a href="#">Page 1-303</a></p>	
	Specify the number of digits to be received on DID for Development Table 0.	<ul style="list-style-type: none"> <li>• Y=012</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) Number of digits</li> <li>0 : 1 digit</li> <li>1 : 2 digits</li> <li>2 : 3 digits</li> <li>3◀: 4 digits</li> </ul>
	Specify the number of digits to be converted on DID for Development Table 0.	<ul style="list-style-type: none"> <li>• Y=078</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Leading 2-4 digits</li> <li>1◀: All digits of DID number are converted by CM76</li> </ul>
	Specify the number of digits to be received on DID for Development Table 1.	<ul style="list-style-type: none"> <li>• Y=172</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) Number of digits</li> <li>01-14: 1-14 digits</li> <li>15◀: 4 digits</li> </ul>
	Specify the number of digits to be converted on DID for Development Table 1.	<ul style="list-style-type: none"> <li>• Y=171</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 01-08: 1-8 digits</li> <li>15◀: 4 digits</li> </ul>
A		

A	DESCRIPTION	DATA
CM76	Assign the Number Conversion Block number for Development Table 0.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXX: DID No.</li> <li>(2) 000-999: Number Conversion Block No.</li> </ul>
	Assign the Number Conversion Block number for Development Table 1.	<ul style="list-style-type: none"> <li>• Y=90</li> <li>(1) X-XXXXXXXX: DID No.</li> <li>(2) 000-999: Number Conversion Block No.</li> </ul>
	Assign the data for interpreting the digits received.	<ul style="list-style-type: none"> <li>• Y=01 Day Mode</li> <li>• Y=02 Night Mode</li> <li>• Y=03 Mode A</li> <li>• Y=04 Mode B</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) X-XXXXXXXX: Station No. to be terminated</li> </ul> <p>DXX: Change Terminating System to:</p> <ul style="list-style-type: none"> <li>D02: Trunk-Direct Appearances</li> <li>D03: Trunk-Direct Appearances + TAS</li> <li>D04: Direct-In Termination</li> <li>D09: Automated Attendant</li> <li>D10: Attendant Console + TAS</li> <li>D11: Attendant Console + Trunk-Direct Appearances</li> <li>D12: Attendant Console + Trunk-Direct Appearances + TAS</li> <li>D13: TAS</li> <li>D14: Attendant Console</li> <li>D16: Remote Access to System (DISA)</li> </ul>
<u>END</u>		

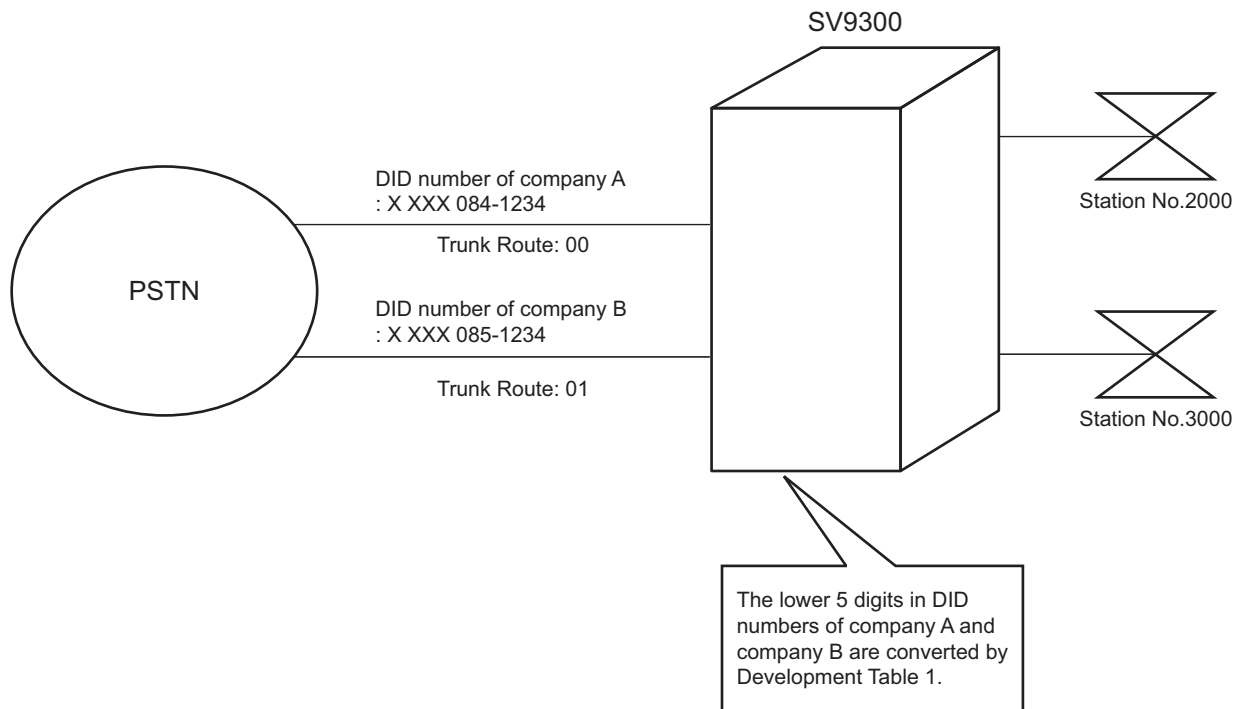
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## SAMPLE DATA PROGRAMMING

< Example >

- The PBX provides DID lines of multiple telecommunication companies (company A, company B), and when the PBX receives the calls that have the same lower 4 digits of DID number from each telecommunication company, the calls are terminated to each station which have been specified.
- DID No. : X XXX 084-1234 (DID number of company A)  
: X XXX 085-1234 (DID number of company B)
- Trunk Route No.: 00 (for DID line of company A)  
: 01 (for DID line of company B)
- Station No. : 2000 (for DID line of company A)  
: 3000 (for DID line of company B)



< Data Programming >

COMMAND	1st DATA	2nd DATA	REMARKS
CM35 Y=018	00	0	Provide DID Digit Conversion to the trunk route number 00.
CM35 Y=018	01	0	Provide DID Digit Conversion to the trunk route number 01.
CM35 Y=170	00	0	Specify the Development Table 1 for DID digit conversion to the trunk route number 00.
CM35 Y=170	01	0	Specify the Development Table 1 for DID digit conversion to the trunk route number 01.
CM35 Y=172	00	07	Specify the number of digits to be received on DID for Development Table1 as 7 digits to trunk route number 00.
CM35 Y=172	01	07	Specify the number of digits to be received on DID for Development Table1 as 7 digits to the trunk route number 01.
CM35 Y=171	00	05	Specify the number of digits to be converted on DID for Development Table1 as 5 digits to the trunk route number 00.
CM35 Y=171	01	05	Specify the number of digits to be converted on DID for Development Table1 as 5 digits to the trunk route number 01.
CM76 Y=90	41234	000	Assign the Number Conversion Block number 000 to the DID number 41234.
CM76 Y=90	51234	001	Assign the Number Conversion Block number 001 to the DID number 51234.
CM76 Y=01	000	2000	Assign the station number 2000 to the Number Conversion Block number 000.
CM76 Y=01	001	3000	Assign the station number 3000 to the Number Conversion Block number 001.

## DID NAME DISPLAY

### PROGRAMMING

START	DESCRIPTION	DATA
<p>CM76</p>	<p>Assign the DID name to the Number Conversion Block number assigned by CM76 Y=00/90 with character or character code.</p> <p><b>NOTE:</b> <i>Number Conversion Block No. 200-999 cannot be used for this assignment.</i></p>	<ul style="list-style-type: none"> <li>• Y=24</li> <li>(1) 000-199: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) XX...XX: Character (Maximum 16 characters) X: 0-9, A-Z</li> </ul>
<p>CM12</p>	<p>Assign Service Restriction Class A to the required stations.</p>	<ul style="list-style-type: none"> <li>• Y=25</li> <li>(1) 000-199: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 20-7F: Character Code (Maximum 32 digits, 16 characters) See APPENDIX A: Character Code Table. <a href="#">Page A-2</a></li> </ul>
<p>CM15</p>	<p>Provide Calling Name Display for trunk incoming calls in Service Restriction Class A assigned by CM12 Y=02.</p>	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
<p>CM08</p>	<p>Specify the duration of displaying the Caller information (Calling number/name) on Multiline Terminal when the incoming trunk call is answered.</p>	<ul style="list-style-type: none"> <li>• Y=136</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Calling Name Display</li> </ul>
<p>CM90</p>	<p>Provide the Multiline Terminal with a select key of Calling Number Display or Calling Name Display, if required.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1099: Select Key of Calling Number Display or Calling Name Display</li> </ul>
<p>A</p>		

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A	DESCRIPTION	DATA
CM90	Provide the DESKCON with a select key of Calling Number Display or Calling Name Display, if required.	<ul style="list-style-type: none"><li>• Y=00</li><li>(1) DESKCON No. (E000-E007) + [ ] + Key No.</li><li>(2) F6122: Select Key of Calling Number Display or Calling Name Display</li></ul>
	Provide the Multiline Terminal with a Caller ID Display key for displaying the Caller ID, if required.	<ul style="list-style-type: none"><li>• Y=00</li><li>(1) My Line No. + [ ] + Key No.</li><li>(2) F5010: Caller ID Display</li></ul>
<u>END</u>		

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## ***DIRECT INWARD SYSTEM ACCESS (DISA)***

### **PROGRAMMING**

START	DESCRIPTION	DATA
CM35	Assign the data for DDD to the trunk routes assigned by CM30 Y=00.	<ul style="list-style-type: none"> <li>• Y=000</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00: DDD trunk</li> </ul>
CM08	Assign the method to check Remote Access to System (DISA) Code.	<ul style="list-style-type: none"> <li>(1) 217</li> <li>(2) 0: By PBX (Related to CM2A)</li> </ul>
	<p><b>NOTE:</b> <i>If no setting has been performed for OAI, the default setting of this data (2nd data=1) means the same as 2nd data=0 (By PBX).</i></p> <p>Assign the ring cadence on a DISA.</p>	<ul style="list-style-type: none"> <li>(1) 180</li> <li>(2) 0 : For Multiline Terminal: 0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-2 seconds OFF <b>[For North America]</b> Special Ringing (See Interval of Ringing Tones for Multiline Terminal by CM08&gt;392/396/397) <a href="#">Page 1-344</a> <b>[For other than North America]</b> For Single Line Telephone: As per CM04 Y=00&gt;06 (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00&gt;05/06/07) <a href="#">Page 1-345</a> 1◀: As per CM35 Y=033 or CM76 Y=22</li> </ul>
A		

A	DESCRIPTION	DATA
CM30	Assign the data for DISA to the required trunks.	<ul style="list-style-type: none"> <li>• Y=02 Terminating System in Day Mode</li> <li>• Y=03 Terminating System in Night Mode</li> <li>• Y=40 Terminating System in Mode A</li> <li>• Y=41 Terminating System in Mode B</li> </ul> (1) 000-511: Trunk No. (2) 16: DISA  <ul style="list-style-type: none"> <li>• Y=30 Handling of DISA destination in Day Mode</li> <li>• Y=31 Handling of busy/not available DISA destination in Night Mode</li> </ul> (1) 000-511: Trunk No. (2) 00 : C.O. line release 01 : Forwarded to TAS indicator 03 : Forwarded to Attendant Console 04 : Forwarded to DIT station assigned by CM30 Y=04, 05 06 : DT connection for redial 08 : C.O. line release 15◀: C.O. line release
CM41	Specify the time before answering by Automated Attendant.	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> (1) 59 (2) 00 : 0 second 01 : 0.5-4 seconds 02-04: 4-8 seconds to 12-16 seconds (4 second increments) 05-08: 4-8 seconds If no data is set, the default setting is 4-8 seconds.
CM76	When providing DISA to the DID calls, assign the data for converting the received digits to DISA. See DID DIGIT CONVERSION. <a href="#">Page 1-300</a>	<ul style="list-style-type: none"> <li>• Y=01 Day Mode</li> <li>• Y=02 Night Mode</li> <li>• Y=03 Mode A</li> <li>• Y=04 Mode B</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) D16: DISA
B		



B	DESCRIPTION	DATA
CM2A	Assign the ID Code Development number for DISA.	<ul style="list-style-type: none"> <li>• Y=A0</li> <li>(1) 2: DISA Code</li> <li>(2) 0-9: ID Code Development No. 00-09</li> </ul>
	<b>NOTE:</b> <i>CM2A Y=00-09 is determined by this data.</i>	
	Assign the ID Code for DISA.	<ul style="list-style-type: none"> <li>• Y=00-09 ID Code Development No. 00-09</li> <li>(1) X-XX...XX (Maximum 16 digits): ID Code for DISA</li> <li>(2) 0000-2999: ID Code Pattern No.</li> </ul>
	Assign the desired Trunk Restriction Class for each ID Code Pattern number.	<ul style="list-style-type: none"> <li>• Y=11</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 1◀: Unrestricted (RCA)</li> <li>2 : Non-Restricted-1 (RCB)</li> <li>3 : Non-Restricted-2 (RCC)</li> <li>4 : Semi-Restricted-1 (RCD)</li> <li>5 : Semi-Restricted-2 (RCE)</li> <li>6 : Restricted-1 (RCF)</li> <li>7 : Restricted-2 (RCG)</li> <li>8 : Fully-Restricted (RCH)</li> </ul>
	Assign the desired Service Restriction Class A to each ID Code Pattern number.	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class A</li> </ul>
	Assign the desired Service Restriction Class B to each ID Code Pattern number.	<ul style="list-style-type: none"> <li>• Y=13</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class B</li> </ul>
	Assign the desired Service Restriction Class C to each ID Code.	<ul style="list-style-type: none"> <li>• Y=14</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
Assign the valid range of ID Code for DISA.	<ul style="list-style-type: none"> <li>• Y=10</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 0: Authorization Code/Forced Account Code/Remote Access to System (DISA)</li> <li>2: Remote Access to System (DISA)</li> </ul>	
C		

C	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">CM42</div>	Specify the maximum number of digits for DISA Code with CPU.	(1) 13 (2) 01-16 : 1-16 digits NONE◀: 16 digits
<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">END</div>		

**NOTE:** *Approximately 3000 DISA codes including Authorization Codes and Forced Account Codes can be defined.*

*Number of the codes varies with the number of digits assigned to each code.  
For details, refer to "BUSINESS/HOTEL/DATA FEATURES AND SPECIFICATIONS".*

To access the Voice Response System (VRS) via DISA, add the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">CM2A</div>	Assign Service Restriction Class A for Voice Response System access to the required ID Code Pattern number.	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) 0000-2999: ID Code Pattern No. assigned by CM2A Y=00-09</li> <li>(2) 00-15◀: Service Restriction Class A</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">CM15</div>	Allow Voice Response System access in Service Restriction Class A assigned by CM2A Y=12.	<ul style="list-style-type: none"> <li>• Y=033</li> <li>(1) 00-15: Service Restriction Class A assigned by CM2A Y=12</li> <li>(2) 1◀: Allow</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">CM20</div>	To record and replay a message from an outside user, assign the Voice Response System access code, respectively.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A100: Record A101: Replay</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">END</div>		

## CALL FORWARDING SET BY DISA

### PROGRAMMING

In addition to the DISA programming, do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for this feature to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Manual Call Forwarding set by DISA in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=134</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>
CM08	Assign the method to check Remote Access to System (DISA) Code.	<ul style="list-style-type: none"> <li>(1) 217</li> <li>(2) 0: By PBX (Related to CM2A)</li> </ul>
	<p><b>NOTE:</b> <i>If no setting has been performed for OAI, the default setting of this data (2nd data=1) means the same as 2nd data=0 (By PBX).</i></p>	
CM20	Assign the access code for Call Forwarding-All Calls Set and Cancel, respectively.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A010: Call Forwarding-All Calls Set A011: Call Forwarding-All Calls Cancel</li> </ul>
		<p>Without ID Code entry when digit conversion on DID call is not provided (CM35 Y=018 is set to "1"): <a href="#">Page 1-314</a></p>
		<p>Without ID Code entry when digit conversion on DID call is provided (CM35 Y=018 is set to "0"): <a href="#">Page 1-313</a></p>
A		

With ID Code entry: [Page 1-312](#)

A	DESCRIPTION	DATA
CM2A	Assign the ID Code Development number for DISA.	<ul style="list-style-type: none"> <li>• Y=A0</li> <li>(1) 2: DISA Code</li> <li>(2) 0-9: ID Code Development No. 00-09</li> </ul>
	Assign the ID Code for DISA.	<ul style="list-style-type: none"> <li>• Y=00-09 ID Code Development No. 00-09</li> <li>(1) X-XX...XX: ID Code for DISA (Maximum 16 digits)</li> <li>(2) 0000-2999: ID Code Pattern No.</li> </ul>
	Assign the valid range of ID Code for DISA.	<ul style="list-style-type: none"> <li>• Y=10</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 0: Authorization Code/Forced Account Code/Remote Access to System (DISA) 2: Remote Access to System (DISA)</li> </ul>
	Assign Service Restriction Class A assigned by CM15 Y=134 to the ID Code Pattern number.	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class A</li> </ul>
	Specify the setting station of Manual Call Forwarding set by DISA, if required.	<ul style="list-style-type: none"> <li>• Y=16</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) X-XXXXXXXX: Station No. NONE◀ : All stations</li> </ul>
	<p><b>NOTE:</b> <i>If the station number is set by this command, Call Forward setting is not available for the other stations.</i></p>	
END		

To abbreviate the ID Code entry when digit conversion on DID call is provided (CM35 Y=018 is set to "0"):

B	DESCRIPTION	DATA
CM35	Allow the use of the calling party number as the ID Code for DISA, to the trunk route.	<ul style="list-style-type: none"> <li>• Y=155</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: Available</li> </ul>
CM2A	Assign the ID Code Development number for Call Forwarding set by DISA.	<ul style="list-style-type: none"> <li>• Y=A0</li> <li>(1) 3: Automatic service setting by DISA</li> <li>(2) 0-9: ID Code Development No. 00-09</li> </ul>
	Assign the calling party number as the ID Code for DISA.	<ul style="list-style-type: none"> <li>• Y=00-09 ID Code Development No. 00-09</li> <li>(1) X-XX...XX: ID Code for DISA (Maximum 16 digits)</li> <li>(2) 0000-2999: ID Code Pattern No.</li> </ul>
	Assign the valid range of ID Code for DISA.	<ul style="list-style-type: none"> <li>• Y=10</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 0: Authorization Code/Forced Account Code/Remote Access to System (DISA) 2: Remote Access to System (DISA)</li> </ul>
	Assign Service Restriction Class A assigned by CM15 Y=134 to the ID Code Pattern number.	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class A</li> </ul>
	Allow the use of the calling party number as the ID Code for DISA, to the ID Code Pattern number.	<ul style="list-style-type: none"> <li>• Y=15</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 0: Available</li> </ul>
	Specify the setting station of Manual Call Forwarding set by DISA, if required.	<ul style="list-style-type: none"> <li>• Y=16</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) X-XXXXXXXX: Station No. NONE◀ : All stations</li> </ul>
	<b>NOTE:</b> <i>If the station number is set by this command, Call Forward setting is not available for the other stations.</i>	
END		

To abbreviate the ID Code entry when digit conversion on DID call is not provided (CM35 Y=018 is set to "1"):

C	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">CM76</div>	<p>Assign the Number Conversion Block number to the DID number.</p> <p>Specify the terminating system as DISA.</p> <p>Allow the use of the calling party number as the ID Code for DISA when the DID number assigned by CM76 Y=00 is sent.</p> <p>Allow the service setting by DISA without dialing the ID Code.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXX: DID No.</li> <li>(2) 000-999: Number Conversion Block No. 000-999</li> </ul> <ul style="list-style-type: none"> <li>• Y=01 Day Mode</li> <li>• Y=02 Night Mode</li> <li>• Y=03 Mode A</li> <li>• Y=04 Mode B</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00</li> <li>(2) D16: DISA</li> </ul> <ul style="list-style-type: none"> <li>• Y=14</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00</li> <li>(2) 0: Available</li> </ul> <ul style="list-style-type: none"> <li>• Y=15</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00</li> <li>(2) 15◀: Service setting without dialing the ID Code</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">CM2A</div>	<p>Assign the ID Code Development number, for Call Forwarding set by DISA.</p> <p>Assign the calling party number as the ID Code for DISA.</p>	<ul style="list-style-type: none"> <li>• Y=A0</li> <li>(1) 3: Automatic service setting by DISA</li> <li>(2) 0-9: ID Code Development No. 00-09</li> </ul> <ul style="list-style-type: none"> <li>• Y=00-09 ID Code Development No. 00-09</li> <li>(1) X-XX...XX: ID Code for DISA (Maximum 16 digits)</li> <li>(2) 0000-2999: ID Code Pattern No.</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">D</div>		

D	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM2A</div>	<p>Assign the valid range of ID Code for DISA.</p> <p>Assign Service Restriction Class A assigned by CM15 Y=134 to the ID Code Pattern number.</p> <p>Allow the use of the calling party number as the ID Code for DISA, to the ID Code Pattern number.</p> <p>Specify the setting station of Manual Call Forwarding set by DISA, if required.</p> <p><b>NOTE:</b> <i>If the station number is set by this command, Call Forward setting is not available for the other stations.</i></p>	<ul style="list-style-type: none"> <li>• Y=10               <ol style="list-style-type: none"> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 0: Authorization Code/Forced Account Code/Remote Access to System (DISA) 2: Remote Access to System (DISA)</li> </ol> </li> <li>• Y=12               <ol style="list-style-type: none"> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class A</li> </ol> </li> <li>• Y=15               <ol style="list-style-type: none"> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 0: Available</li> </ol> </li> <li>• Y=16               <ol style="list-style-type: none"> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) X-XXXXXXXX: Station No. NONE◀ : All stations</li> </ol> </li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

## ***DIRECT INWARD TERMINATION (DIT)***

### **PROGRAMMING**

START	DESCRIPTION	DATA
CM30	<p>Assign the data for terminating system in Day Mode/Night Mode/Mode A/Mode B, to each Loop/Ground Start trunk, respectively.</p> <p>Assign the station number to be terminated by DIT in Day Mode/Night Mode/Mode A/Mode B respectively.</p> <p>Assign the destination to be rerouted when the DIT station is busy/not available in Day Mode and Night Mode respectively.</p> <p>Assign the transfer destination for an unanswered DIT call in Day Mode and Night Mode, respectively.</p>	<ul style="list-style-type: none"> <li>• Y=02 Day Mode/03 Night Mode/40 Mode A/41 Mode B               <ol style="list-style-type: none"> <li>(1) 000-511: Trunk No.</li> <li>(2) 04: Direct-In Termination</li> </ol> </li> <li>• Y=04 Day Mode/05 Night Mode/42 Mode A/43 Mode B               <ol style="list-style-type: none"> <li>(1) 000-511: Trunk No.</li> <li>(2) X-XXXXXXXX: Station No.</li> </ol> </li> <li>• Y=13 Day Mode/14 Night Mode               <ol style="list-style-type: none"> <li>(1) 000-511: Trunk No.</li> <li>(2) 01 : TAS BUZZER 04 : Attendant Console 06 : Automatic Camp-On 15◀: Waiting until the DIT station becomes idle</li> </ol> </li> <li>• Y=15 Day Mode/16 Night Mode               <ol style="list-style-type: none"> <li>(1) 000-511: Trunk No.</li> <li>(2) 01 : Attendant Console 03 : TAS 15◀: To be continued DIT</li> </ol> </li> </ul>
CM41	Specify the timing for an unanswered call to a DIT destination.	<ul style="list-style-type: none"> <li>• Y=0               <ol style="list-style-type: none"> <li>(1) 01</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ol> <p>If no data is set, the default setting is 32-36 seconds.</p> </li> </ul>
A		



A	DESCRIPTION	DATA
CM08	Assign the ring cadence on a DIT call.	<p>(1) 179</p> <p>(2) 0 : As per CM35 Y=033</p> <p>1◀: For Multiline Terminal:  0.25 seconds ON-0.125 seconds OFF  -0.25 seconds ON-0.125 seconds OFF  -0.25 seconds ON-2 seconds OFF  <b>[For North America]</b></p> <p>Special Ringing  (See Interval of Ringing Tones for  Multiline Terminal by CM08&gt;392/  396/397) <a href="#">Page 1-344</a>  <b>[For other than North America]</b></p> <p>For Single Line Telephone:  As per CM04 Y=00&gt;07  (See Interval of Ringing Tones for  Single Line Telephone by CM04  Y=00&gt;05/06/07) <a href="#">Page 1-345</a></p>
<u>END</u>		

## DIRECT OUTWARD DIALING (DOD)

### PROGRAMMING

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the COT/Direct Inward Dialing blade. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 30: COT blade 32: Direct Inward Dialing blade</li> </ul>
CM10	Assign the trunk numbers to the required Physical Port number.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) D000-D511: Trunk No.</li> </ul>
CM30	Assign the data for Direct Outward Dialing to the trunk number assigned by CM10 Y=00. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=00 Trunk Route allocation</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00-63: Trunk Route No.</li> <li>Y=01 Tenant Allocation</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00-63: Tenant No. 01◀ : Tenant No.</li> <li>Y=08 Restriction on Night Mode</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 0 : Restricted 1◀: Allow</li> </ul>
A		

A	DESCRIPTION	DATA
CM35	Assign the data for Direct Outward Dialing to the Route number assigned by CM30 Y=00.	<ul style="list-style-type: none"> <li>• Y=000 Kind of Route               <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00: DDD                   <ul style="list-style-type: none"> <li>01: FX <b>[North America Only]</b></li> <li>02: WATS <b>[North America Only]</b></li> <li>03: CCSA <b>[North America Only]</b></li> </ul> </li> </ul> </li>   <li>• Y=001 Type of Signal               <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No. <span style="border: 1px solid black; border-radius: 15px; padding: 2px;">BLADE RESET</span></li> <li>(2) 2 : DP                   <ul style="list-style-type: none"> <li>4 : DTMF</li> <li>7◀: DTMF</li> </ul> </li> </ul> </li>   <li>• Y=002 OG/IC               <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 2 : Outgoing                   <ul style="list-style-type: none"> <li>3◀: Bothway</li> </ul> </li> </ul> </li>   <li>• Y=004 Answer Signal Condition               <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1 : Answer Signal by Battery Reversal                   <ul style="list-style-type: none"> <li>7◀: No Answer Signal arrives</li> </ul> </li> </ul> <p>In case of no Answer Signal, system recognizes the answer in timing set by CM41 Y=0&gt;03.</p> </li>   <li>• Y=005 Release Signal Condition               <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : No Release Signal arrives                   <ul style="list-style-type: none"> <li>1◀: Release Signal arrives</li> </ul> </li> </ul> </li>   <li>• Y=008 Dial Pulse Sending               <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 3◀: To send</li> </ul> </li>   <li>• Y=009 Incoming Connection Signalling               <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No. <span style="border: 1px solid black; border-radius: 15px; padding: 2px;">BLADE RESET</span></li> <li>(2) 01 : Ring Down (Ground Start)                   <ul style="list-style-type: none"> <li>15◀: Ring Down (Loop Start)</li> </ul> </li> </ul> </li> </ul>
B		

B	DESCRIPTION	DATA
CM35	<p>According to the characteristics of each C.O. line, assign the data for DP/DTMF Sender to each route.</p> <p>For the details of the command, refer to the Command Manual.</p> <p><b>NOTE:</b> <i>This command is available for LDT/ODT.</i></p>	<ul style="list-style-type: none"> <li>• Y=020 Sender start condition <span style="border: 1px solid black; border-radius: 15px; padding: 2px;">BLADE RESET</span></li> <li>• Y=021 Sender Prepause Timing</li> <li>• Y=023 DP Inter-Digital Pause <span style="border: 1px solid black; border-radius: 15px; padding: 2px;">BLADE RESET</span></li> <li>• Y=024 DTMF Inter-Digital Pause</li> <li>• Y=025 DP Make Ratio <b>NOTE</b> <span style="border: 1px solid black; border-radius: 15px; padding: 2px;">BLADE RESET</span></li> <li>• Y=026 DTMF Signal Width</li> <li>• Y=046 DP/DTMF Release Timing</li> </ul>
CM41	Specify the timing for Interdigit Pause on outgoing C.O. call.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 27</li> <li>(2) 03-14: 3-14 seconds (1 second increment)</li> <li>If no data is set, the default setting is 7 seconds.</li> </ul>
CM20	Assign the access code to each route.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) 100-163: Trunk Route No. 00-63</li> </ul>
CM90	Assign the trunk appearance line key on a Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 5px;"> </span> + Key No.</li> <li>(2) D000-D511: Trunk No.</li> </ul>
<u>END</u>		

**NOTE:** *For the Trunk Restriction Class, refer to CLASS OF SERVICE.* [📄 Page 1-213](#)

# DIRECT STATION SELECTION/BUSY LAMP FIELD (DSS/BLF) CONSOLE

## PROGRAMMING

START	DESCRIPTION	DATA
CM04	Specify the control method of Hotel Feature.	<ul style="list-style-type: none"> <li>Y=01</li> </ul> (1) 10 (2) 1: DSS console
	Specify Handling of CPU call information.	<ul style="list-style-type: none"> <li>Y=01</li> </ul> (1) 03 (2) 2: Available
CM08	Specify the Hotel Features.	(1) 835 (2) 0: To allow
CM05	Assign a Unit and Slot number to the DLC blade.	<ul style="list-style-type: none"> <li>Y=0</li> </ul> (1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No. (2) 10: DLC blade
<b>BLADE RESET</b>		
CM10	Assign the DSS Console number to its associated Physical Port number.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No. (2) E100-E131: DSS Console No.
	Assign the DSS Console to be equipped with the DT700/DT800/DT900 Series through the LAN connection (Side Connection).	<ul style="list-style-type: none"> <li>Y=01</li> </ul> (1) 0000-1499: Virtual Port No. (For IP terminal) (2) E100-E131: DSS Console No.
CM96	Assign a single line station, Multiline Terminal, or DESKCON to work in conjunction with the DSS Console.	(1) 00-31: DSS Console No. (Last two digits of E100-E131 assigned by CM10 Y=00) (2) X-XXXXXXXX: Station No./My Line No. of Multiline Terminal E000-E007 : DESKCON No.
A		

A	DESCRIPTION	DATA
CM97	Assign the station and trunk numbers, as needed, to the keys on each DSS Console.	(1) DSS Console No. (00-31) + <input type="checkbox"/> + DSS Key No. (00-59) (2) X-XXXXXXXX: Station No. D000-D511 : Trunk No.
	Assign function keys on each DSS Console, if required.	(1) DSS Console No. (00-31) + <input type="checkbox"/> + DSS Key No. (57-59) (2) F1300-F1363: Day/Night Mode Change by Tenant 00-63 Tenant F1048 : Room Cutoff-Set/Reset F1049 : Message Waiting Set/Reset F1050 : Call Recording F1051 : Check-In/Out F1053 : Do Not Disturb Set/Reset F1054 : No Answer Indication for Wake Up Call F1055 : Function Button used for busy out display from UCD Group
	Assign a changing Function key on each DSS Console.	(1) DSS Console No. (00-31) + <input type="checkbox"/> + DSS Key No. (56) (2) F1052: Function Change
CM08	Specify the type of busy indication on the BLF of the DSS console as station base or extension base.	(1) 269 (2) 0 : Station base 1◀: Extension base
<u>END</u>		

**HARDWARE REQUIRED**

DSS Console  
 DLC blade

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## ***DISTINCTIVE RINGING***

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### **PROGRAMMING**

#### **[For North America]**

(1) For Station-to-Station calls

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	Specify the interval of ringing tones for station-to-station calls.	<p>(1) 138</p> <p>(2) For Multiline Terminal:            0 : 2 seconds ON-4 seconds OFF            1◀: 1 second ON-2 seconds OFF</p> <p>For Single Line Telephone:            0 : As per CM04 Y=00&gt;06            1◀: As per CM04 Y=00&gt;05            (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00&gt;05/06/07) <a href="#">Page 1-345</a></p>
<u>END</u>		

(2) For C.O./Tie line calls (except for Direct-in Termination/Direct Inward Dialing/DISA/CCIS calls)

START	DESCRIPTION	DATA
CM35	<p>Specify the interval of ringing tones for station on incoming calls.</p> <p><b>NOTE:</b> <i>For incoming calls to a Trunk-Direct Appearances key on Multiline Terminals, the special ringing; 0.2 seconds ON-0.2 seconds OFF will be applied.</i></p>	<ul style="list-style-type: none"> <li>• Y=033</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) For Multiline Terminal:               <ul style="list-style-type: none"> <li>0 : 0.4 seconds ON-0.2 seconds OFF -0.4 seconds ON-2 seconds OFF</li> <li>1 : 0.4 seconds ON-0.2 seconds OFF -0.4 seconds ON-2 seconds OFF</li> <li>2 : 1 second ON-2 seconds OFF</li> <li>3◀: 2 seconds ON-4 seconds OFF</li> </ul> </li> <li>For Single Line Telephone:               <ul style="list-style-type: none"> <li>0 : As per CM04 Y=00&gt;05</li> <li>1 : As per CM04 Y=00&gt;07</li> <li>2 : As per CM04 Y=00&gt;05</li> <li>3◀: As per CM04 Y=00&gt;06</li> </ul> </li> <li>(See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00&gt;05/06/07) <a href="#">Page 1-345</a></li> </ul>
END		

(3) For Direct-in Termination calls

START	DESCRIPTION	DATA
CM08	<p>Specify the interval of ringing tones for Direct-in Termination calls.</p>	<ul style="list-style-type: none"> <li>(1) 179</li> <li>(2) 0 : As per CM35 Y=033</li> <li>1◀: For Multiline Terminal:               <ul style="list-style-type: none"> <li>0.25 seconds ON-0.125 seconds OFF</li> <li>-0.25 seconds ON-0.125 seconds OFF</li> <li>-0.25 seconds ON-2 seconds OFF</li> </ul> </li> <li>For Single Line Telephone:               <ul style="list-style-type: none"> <li>As per CM04 Y=00&gt;07</li> </ul> </li> <li>(See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00&gt;05/06/07) <a href="#">Page 1-345</a></li> </ul>
END		



- (4) For Direct Inward Dialing calls
- To distinguish by the trunk route

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for Direct Inward Dialing calls.	(1) 180 (2) 0 : For Multiline Terminal: 0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-2 seconds OFF  For Single Line Telephone: As per CM04 Y=00>06 (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00>05/06/07) <a href="#">Page 1-345</a> 1◀: As per CM35 Y=033
END		

- To distinguish by the terminating DID number

START	DESCRIPTION	DATA
CM08	Assign the interval of ringing tones as “As per CM76 Y=22”.	(1) 180 (2) 1◀: As per CM76 Y=22
CM76	Specify the ringing tone interval of SLT or Multiline Terminal on DID calls. For this assignment, do not set CM76 Y=22 to 3 (As per CM35 Y=033 (Multiline Terminal) or As per CM04 Y=00>06 (SLT)).	<ul style="list-style-type: none"> <li>Y=22</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) For Multiline Terminal: 0 : 0.5 seconds ON-0.5 seconds OFF 1 : 0.5 seconds ON-0.5 seconds OFF -0.5 seconds ON-1.5 seconds OFF 2 : 1 second ON-2 seconds OFF  For Single Line Telephone: 0 : As per CM04 Y=00>05 1 : As per CM04 Y=00>07 2 : As per CM04 Y=00>05 (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00>05/06/07) <a href="#">Page 1-345</a>
END		

## (5) For DISA/Automated Attendant calls

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for DISA/Automated Attendant calls.	(1) 180 (2) 0 : For Multiline Terminal: 0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-2 seconds OFF  For Single Line Telephone: As per CM04 Y=00>06 (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00>05/06/07) <a href="#">Page 1-345</a> 1◀: As per CM35 Y=033
END		

## (6) For C.O. calls transferred to another station from a station/Attendant Console

START	DESCRIPTION	DATA
CM08	Select the kind of the ringing for station/attendant calls with trunk lines placed on Consultation Hold.	(1) 137 (2) 0 : Change from Internal Ringing (CM08>138/CM04 Y=00>05) to External Ringing (CM35 Y=033) when caller goes on-hook or presses RLS key 1◀: External Ringing (CM35 Y=033)
END		

- (7) For ISDN Indial calls
- To distinguish by the trunk route

START	DESCRIPTION	DATA
CM35	<p>Specify the interval of ringing tones for station on incoming calls.</p> <p><b>NOTE:</b> <i>For incoming calls to a Trunk-Direct Appearances key on Multi-line Terminals, the special ringing; 0.2 seconds ON-0.2 seconds OFF will be applied.</i></p>	<ul style="list-style-type: none"> <li>Y=033</li> </ul> <p>(1) 00-63: Trunk Route No.</p> <p>(2) For Multiline Terminal:</p> <p>0 : 0.4 seconds ON-0.2 seconds OFF -0.4 seconds ON-2 seconds OFF</p> <p>1 : 0.4 seconds ON-0.2 seconds OFF -0.4 seconds ON-2 seconds OFF</p> <p>2 : 1 second ON-2 seconds OFF</p> <p>3◀: 2 seconds ON-4 seconds OFF</p> <p>For Single Line Telephone:</p> <p>0 : As per CM04 Y=00&gt;05</p> <p>1 : As per CM04 Y=00&gt;07</p> <p>2 : As per CM04 Y=00&gt;05</p> <p>3◀: As per CM04 Y=00&gt;06</p> <p>(See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00&gt;05/06/07) <a href="#">Page 1-345</a></p>
END		

- To distinguish by the terminating ISDN Indial number

START	DESCRIPTION	DATA
CM08	Assign the interval of ringing tones as “As per CM76 Y=22”.	(1) 180 (2) 1◀: As per CM76 Y=22
CM76	Specify the ringing tone interval of SLT or Multiline Terminal on ISDN Indial calls. For this assignment, do not set CM76 Y=22 to 3 (As per CM35 Y=033 (Multiline Terminal) or As per CM04 Y=00>06 (SLT)).	<ul style="list-style-type: none"> <li>• Y=22</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) For Multiline Terminal: 0 : 0.5 seconds ON-0.5 seconds OFF 1 : 0.5 seconds ON-0.5 seconds OFF -0.5 seconds ON-1.5 seconds OFF 2 : 1 second ON-2 seconds OFF For Single Line Telephone: 0 : As per CM04 Y=00>05 1 : As per CM04 Y=00>07 2 : As per CM04 Y=00>05 (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00>05/06/07) <a href="#">Page 1-345</a>
END		

To provide a distinctive lamp indication for Multiline Terminals during a call termination, do the following programming:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM35</div>	Specify the lamp color for an incoming external call.	<ul style="list-style-type: none"> <li>• Y=032</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Green (120 IPM)</li> <li>1 ◀: Red (120 IPM)</li> </ul>
END	<p><b>NOTE:</b> <i>The lamp color for incoming internal calls is red (120 IPM flashing). For indicating the termination of a transferred external incoming call, the flashing lamp color depends on CM08&gt;137.</i></p>	

To provide the distinctive ringing patterns to Multiline Terminals in behind PBX, in order to distinguish between an internal call from the main PBX and an external incoming call:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	Specify the interval of Multiline Terminal ringing tones for station-to-station calls.	(1) 138 (2) 0 : 2 seconds ON-4 seconds OFF 1◀: 1 second ON-2 seconds OFF
	Specify the interval of ringing tones until detecting a ringing frequency from the main PBX (Centrex). Ringing is sent from Multiline Terminal until detection of the ringing frequency.	(1) 380 (2) 0 : As per CM08>381 1◀: As per CM35 Y=033
	Specify the lamp indication of Multiline Terminal until detecting the kind of incoming call from the main PBX (Centrex). The lamp is lit until detection of the ringing frequency.	(1) 381 (2) 0 : No Ringer 1◀: Ringing Tone (0.5 seconds) is sent once
	Specify the lamp indication of Multiline Terminal until detecting the kind of incoming call from the main PBX (Centrex). The lamp is lit until detection of the ringing frequency.	(1) 382 (2) 0 : Red Steady Light 1◀: 120 IPM Flash (As per CM35 Y=032)
<p><b>NOTE 1:</b> <i>When the ringer is for an internal call:</i>  <i>Interval of ringing signal : CM08&gt;138</i>  <i>Multiline Terminal lamp color : Change to red</i>  <i>Multiline Terminal tone ringer : CM35 Y=034, 164, CM64 Y=20-27, CM65 Y=40</i></p>		
<p><b>NOTE 2:</b> <i>When the ringer is for an external call:</i>  <i>Interval of ringing signal : CM35 Y=033</i>  <i>Multiline Terminal lamp color : CM35 Y=032</i>  <i>Multiline Terminal tone ringer : CM35 Y=034, 164, CM64 Y=20-27, CM65 Y=40</i></p>		
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		

A

CM35

## DESCRIPTION

Specify the lamp color for an incoming external call.

**NOTE 1:** *The lamp color for incoming internal calls is red (120 IPM flashing).*

**NOTE 2:** *For indicating the termination of a transferred external incoming call, the flashing lamp color depends on CM08>137.*

Specify the interval of ringing tones to a Multiline Terminal on an incoming call.

**NOTE:** *For incoming calls to Trunk Line Appearance Key on Multiline Terminal, the special ringing; 0.2 seconds ON-0.2 seconds OFF will be applied.*

Specify the Ringer Tone Pattern of the Multiline Terminal to each trunk route.

## DATA

- Y=032
- (1) 00-63: Trunk Route No.
- (2) 0 : Green (120 IPM)
- 1◀: Red (120 IPM)

- Y=033
- (1) 00-63: Trunk Route No.
- (2) 0 : 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF
- 1 : 0.4 seconds ON-0.2 seconds OFF-0.4 seconds ON-2 seconds OFF
- 2 : 1 second ON-2 seconds OFF
- 3◀: 2 seconds ON-4 seconds OFF

- Y=034, 164
- (1) 00-63: Trunk Route No.
- (2) See the table below.

◀: Default

Y=034	Y=164: 0	Y=164: 1◀
0	Ringer Tone Pattern 3	Ringer Tone Pattern 0
1	Ringer Tone Pattern 6	Ringer Tone Pattern 1
2	Ringer Tone Pattern 5	Ringer Tone Pattern 2
3◀	Ringer Tone Pattern 4	Ringer Tone Pattern 7

B

B

CM65

## DESCRIPTION

Specify the ring frequency of the Multiline Terminal corresponding with the ringer tone pattern number.

## DATA

- Y=40
- (1) 00-63: Tenant No. assigned by CM30 Y=01/CM12 Y=04
- (2) See the table below.

◀: Default

Ringer Tone Pattern No.	Y=40: 0	Y=40: 1 ◀
1	Ringer Tone 1	520 + 660 [Hz]/8 [Hz] Modulating Signal
2	Ringer Tone 2	660 + 760 [Hz]/16 [Hz] Modulating Signal
3	Ringer Tone 3	1100 [Hz] Envelop
4	Ringer Tone 4	540 [Hz]
5	Ringer Tone 5	1100 [Hz]
6	Not used	1400 + 1100 [Hz]
7	Not used	520 + 660 [Hz]/16 [Hz] Modulating Signal

**NOTE 1:** When using music ring with DT500/DT900 Series, use CM13 Y=99 and CM64 Y=20-27.

**NOTE 2:** When this data is set or changed, a reset of the terminal is required to reflect the settings of CM64 Y=20-27 for DT500/DT900 Series.

CM64

Specify the ring frequency of DT500/DT900 Series corresponding with the ringer tone pattern number.

**[9300V7 software required]**

- Y=20-27
- (1) 00-63: Tenant No.
- (2) 15 : Music Ring 1 **Note 2**
- 16 : Music Ring 2 **Note 2**
- 17 : Music Ring 3 **Note 2**
- NONE◀ : As per CM65 Y=40

**NOTE 1:** This command is effective only for DT500/DT900 Series. For other Multiline Terminals, use CM65 Y=40.

**NOTE 2:** For music ring unsupported terminals, follow the setting of CM65 Y=40.

**NOTE 3:** A reset of the terminal is required when this data is set or changed for DT500/DT900 Series.

C



C	DESCRIPTION	DATA
CM13	Assign the music ring feature to each station. <b>[9300V7 software required]</b>	<ul style="list-style-type: none"> <li>• Y=99</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul>
	<p><b>NOTE 1:</b> This command is effective only for DT500/DT900 Series.</p> <p><b>NOTE 2:</b> Be sure to set this data to "1" (Not available) for music ring unsupported terminals.</p> <p><b>NOTE 3:</b> When music ring is not used, set this data to "1" (Not available) even for music ring supported terminals.</p> <p><b>NOTE 4:</b> Music ring can be used regardless of this command when music ring is set by the terminal operation (<b>Feature</b> key + 3) or on a terminal menu.</p>	
CM35	Provide the distinctive ringing patterns to a Multiline Terminal in behind PBX.	<ul style="list-style-type: none"> <li>• Y=087</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
CM30	Specify the terminating system for incoming C.O. calls.	<ul style="list-style-type: none"> <li>• Y=02 in Day Mode</li> <li>• Y=03 in Night Mode</li> <li>• Y=40 in Mode A</li> <li>• Y=41 in Mode B</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 02: Trunk-Direct Appearances</li> <li>03: Trunk-Direct Appearances + TAS</li> </ul>
	Provide the Trunk-Direct Appearances on Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=18</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 0: To provide</li> </ul>
CM41	Assign the ringing detect timer for incoming trunk calls.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 50</li> <li>(2) 01-99: 8-792 ms. (8 ms. increments)</li> </ul> <p>If no data is set, the default setting is 224 ms.</p>
	<b>BLADE RESET</b>	
CM90	Assign the Trunk Line Appearance key to a Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) D000-D511: Trunk No.</li> </ul>
<u>END</u>		

**[For other than North America]**

## (1) For Station-to-Station calls

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for station-to-station calls	<p>(1) 138</p> <p>(2) For Multiline Terminal:            0 : External Ringing            1◀: Internal Ringing            (See Interval of Ringing Tones for Multiline Terminal by CM08&gt;392/396/397) <a href="#">Page 1-344</a></p> <p>For Single Line Telephone:            0 : As per CM04 Y=00&gt;06            1◀: As per CM04 Y=00&gt;05            (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00&gt;05/06/07) <a href="#">Page 1-345</a></p>
END		

## (2) For C.O./Tie line calls (except for Direct-in Termination/Direct Inward Dialing/DISA/CCIS calls)

START	DESCRIPTION	DATA
CM35	<p>Specify the interval of ringing tones for station on incoming calls.</p> <p><b>NOTE:</b> <i>For Multiline Terminal, the special ringing; 0.25 seconds ON-0.25 seconds OFF-0.25 seconds ON-0.25 seconds OFF is applied.</i></p>	<ul style="list-style-type: none"> <li>• Y=033</li> </ul> <p>(1) 00-63: Trunk Route No.</p> <p>(2) For Multiline Terminal:            0 : Ringing <b>NOTE</b>            1 : Special Ringing            2 : Internal Ringing            3◀: External Ringing            (See Interval of Ringing Tones for Multiline Terminal by CM08&gt;392/396/397) <a href="#">Page 1-344</a></p> <p>For Single Line Telephone:            0 : As per CM04 Y=00&gt;05            1 : As per CM04 Y=00&gt;07            2 : As per CM04 Y=00&gt;05            3◀: As per CM04 Y=00&gt;06            (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00&gt;05/06/07) <a href="#">Page 1-345</a></p>
END		

## (3) For Direct-in Termination calls

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for Direct-in Termination calls.	(1) 179 (2) 0 : As per CM35 Y=033 1◀: For Multiline Terminal: Special Ringing (See Interval of Ringing Tones for Multiline Terminal by CM08>392/ 396/397) <a href="#">Page 1-344</a> For Single Line Telephone: As per CM04 Y=00>07 (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00>05/06/07) <a href="#">Page 1-345</a>
END		

## (4) For Direct Inward Dialing calls

- To distinguish by the trunk route:

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones for Direct Inward Dialing calls.	(1) 180 (2) 0 : For Multiline Terminal: Special Ringing (See Interval of Ringing Tones for Multiline Terminal by CM08>392/ 396/397) <a href="#">Page 1-344</a> For Single Line Telephone: As per CM04 Y=00>06 (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00>05/06/07) <a href="#">Page 1-345</a> 1◀: As per CM35 Y=033
END		

- To distinguish by the terminating DID number:

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones as “As per CM76 Y=22”.	(1) 180 (2) 1◀: As per CM76 Y=22
CM76	Specify the ringing tone interval of SLT or Multiline Terminal on DID calls. For this assignment, do not set CM76 Y=22 to 3 (As per CM35 Y=033 (Multiline Terminal) or As per CM04 Y=00>06 (SLT)).  <b>NOTE:</b> <i>For Multiline Terminal, the special ringing; 0.25 seconds ON-0.25 seconds OFF-0.25 seconds ON-0.25 seconds OFF is applied.</i>	<ul style="list-style-type: none"> <li>Y=22</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) For Multiline Terminal: 0 : Rering <b>NOTE</b> 1 : Special Ringing 2 : Internal Ringing (See Interval of Ringing Tones for Multiline Terminal by CM08>392/396/397) <a href="#">Page 1-344</a> For Single Line Telephone: 0 : As per CM04 Y=00>05 1 : As per CM04 Y=00>07 2 : As per CM04 Y=00>05 (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00>05/06/07) <a href="#">Page 1-345</a>
END		

## (5) For DISA/Automated Attendant calls

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	Specify the interval of ringing tones for DISA/Automated Attendant calls.	(1) 180 (2) 0 : For Multiline Terminal: Special Ringing (See Interval of Ringing Tones for Multiline Terminal by CM08>392/ 396/397) <a href="#">Page 1-344</a> For Single Line Telephone: As per CM04 Y=00>06 (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00>05/06/07) <a href="#">Page 1-345</a> 1◀: As per CM35 Y=033
<u>END</u>		

## (6) For C.O. calls transferred to another station from a station/Attendant Console

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	Select the kind of the ringing for station/attendant calls with trunk lines placed on Consultation Hold.	(1) 137 (2) 0 : Change from Internal Ringing (CM08>138/CM04 Y=00>05) to Ex- ternal Ringing (CM35 Y=033) when caller goes on-hook or presses RLS key 1◀: External Ringing (CM35 Y=033)
<u>END</u>		

- (7) For ISDN Indial calls
- To distinguish by the trunk route:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CM35</div>	<p>Specify the interval of ringing tones for station on incoming calls.</p> <p><b>NOTE:</b> <i>For Multiline Terminal, the special ringing; 0.25 seconds ON-0.25 seconds OFF-0.25 seconds ON-0.25 seconds OFF is applied.</i></p>	<ul style="list-style-type: none"> <li>Y=033</li> </ul> <p>(1) 00-63: Trunk Route No.</p> <p>(2) For Multiline Terminal:</p> <p>0 : Ringing <b>NOTE</b></p> <p>1 : Special Ringing</p> <p>2 : Internal Ringing</p> <p>3◀: External Ringing</p> <p>(See Interval of Ringing Tones for Multiline Terminal by CM08&gt;392/396/397)</p> <p><a href="#">Page 1-344</a></p> <p>For Single Line Telephone:</p> <p>0 : As per CM04 Y=00&gt;05</p> <p>1 : As per CM04 Y=00&gt;07</p> <p>2 : As per CM04 Y=00&gt;05</p> <p>3◀: As per CM04 Y=00&gt;06</p> <p>(See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00&gt;05/06/07)</p> <p><a href="#">Page 1-345</a></p>
END		

- To distinguish by the terminating ISDN Indial number:

START	DESCRIPTION	DATA
CM08	Specify the interval of ringing tones as “As per CM76 Y=22”.	(1) 180 (2) 1◀: As per CM76 Y=22
CM76	Specify the ringing tone interval of SLT or Multiline Terminal on ISDN Indial calls. For this assignment, do not set CM76 Y=22 to 3 (As per CM35 Y=033 (Multiline Terminal) or As per CM04 Y=00>06 (SLT)).  <b>NOTE:</b> <i>For Multiline Terminal, the special ringing; 0.25 seconds ON-0.25 seconds OFF-0.25 seconds ON-0.25 seconds OFF is applied.</i>	<ul style="list-style-type: none"> <li>Y=22</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) For Multiline Terminal: 0 : Rering <b>NOTE</b> 1 : Special Ringing 2 : Internal Ringing (See Interval of Ringing Tones for Multiline Terminal by CM08>392/396/397) <a href="#">Page 1-344</a> For Single Line Telephone: 0 : As per CM04 Y=00>05 1 : As per CM04 Y=00>07 2 : As per CM04 Y=00>05 (See Interval of Ringing Tones for Single Line Telephone by CM04 Y=00>05/06/07) <a href="#">Page 1-345</a>
END		

To provide the distinctive ringing patterns to Multiline Terminals in behind PBX, in order to distinguish between an internal call from the main PBX and an external incoming call:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div> <div style="border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black; height: 500px; margin: 0 auto;"></div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto; text-align: center;">A</div>	Specify the interval of Multiline Terminal ringing tones for station-to-station calls.	(1) 138 (2) 0 : External Ringing 1 ◀: Internal Ringing (See Interval of Ringing Tones for Multiline Terminal by CM08>392/396/397) <a href="#">Page 1-344</a>
	Specify the interval of ringing tones until detecting a ringing frequency from the main PBX (Centrex). Ringing is sent from Multiline Terminal until detection of the ringing frequency.	(1) 380 (2) 0 : As per CM08>381 1 ◀: As per CM35 Y=033
	<b>NOTE:</b> <i>This data is effective when the second data of CM08&gt;380 is set to "0".</i>	(1) 381 <b>NOTE</b> (2) 0 : No Ringer 1 ◀: Ringing Tone (0.5 seconds) is sent once
	Specify the lamp indication of Multiline Terminal until detecting the kind of incoming call from the main PBX (Centrex). The lamp is lit until detection of the ringing frequency.	(1) 382 (2) 0 : Red Steady Light 1 ◀: 120 IPM Flash (As per CM35 Y=032)
	<b>NOTE 1:</b> <i>When the ringer is for an internal call:            Interval of ringing signal : CM08&gt;138            Multiline Terminal lamp color : Change to red            Multiline Terminal tone ringer : CM35 Y=034, 164, CM64 Y=20-27, CM65 Y=40</i>	
<b>NOTE 2:</b> <i>When the ringer is for an external call:            Interval of ringing signal : CM35 Y=033            Multiline Terminal lamp color : CM35 Y=032            Multiline Terminal tone ringer : CM35 Y=034, 164, CM64 Y=20-27, CM65 Y=40</i>		



A

CM35

## DESCRIPTION

Specify the lamp color for an incoming external call.

**NOTE 1:** *The lamp color for incoming internal calls is red (120 IPM flashing).*

**NOTE 2:** *For indicating the termination of a transferred external incoming call, the flashing lamp color depends on CM08>137.*

Specify the interval of ringing tones to a Multiline Terminal on an incoming call.

**NOTE:** *For SLT, Internal Ringing is applied. For Multiline Terminal, the special ringing; 0.25 seconds ON-0.25 seconds OFF-0.25 seconds ON-0.25 seconds OFF is applied.*

Specify the Ringer Tone Pattern of the Multiline Terminal to each trunk route.

## DATA

- Y=032
- (1) 00-63: Trunk Route No.
- (2) 0 : Green (120 IPM)
- 1◀: Red (120 IPM)

- Y=033
- (1) 00-63: Trunk Route No.
- (2) 0 : Ringing **NOTE**
- 1 : Special Ringing
- 2 : Internal Ringing
- 3◀: External Ringing
- (See Interval of Ringing Tones for Multiline Terminal by CM08>392/396/397) [Page 1-344](#)

- Y=034, 164
- (1) 00-63: Trunk Route No.
- (2) See the table below.

◀: Default

Y=034	Y=164: 0	Y=164: 1◀
0	Ringer Tone Pattern 3	Ringer Tone Pattern 0
1	Ringer Tone Pattern 6	Ringer Tone Pattern 1
2	Ringer Tone Pattern 5	Ringer Tone Pattern 2
3◀	Ringer Tone Pattern 4	Ringer Tone Pattern 7

B

B

CM65

## DESCRIPTION

Specify the ring frequency of the Multiline Terminal corresponding with the ringer tone pattern number.

## DATA

- Y=40
- (1) 00-63: Tenant No. assigned by CM30 Y=01/CM12 Y=04
- (2) See the table below.

◀: Default

Ringer Tone Pattern No.	Y=40: 0	Y=40: 1◀
1	Ringer Tone 1	520 + 660 [Hz]/8 [Hz] Modulating Signal
2	Ringer Tone 2	660 + 760 [Hz]/16 [Hz] Modulating Signal
3	Ringer Tone 3	1100 [Hz] Envelop
4	Ringer Tone 4	540 [Hz]
5	Ringer Tone 5	1100 [Hz]
6	Not used	1400 + 1100 [Hz]
7	Not used	520 + 660 [Hz]/16 [Hz] Modulating Signal

**NOTE 1:** When using music ring with DT500/DT900 Series, use CM13 Y=99 and CM64 Y=20-27.

**NOTE 2:** When this data is set or changed, a reset of the terminal is required to reflect the settings of CM64 Y=20-27 for DT500/DT900 Series.

CM64

Specify the ring frequency of DT500/DT900 Series corresponding with the ringer tone pattern number.

**[9300V7 software required]**

- Y=20-27
- (1) 00-63: Tenant No.
- (2) 15 : Music Ring 1 **Note 2**
- 16 : Music Ring 2 **Note 2**
- 17 : Music Ring 3 **Note 2**
- NONE◀ : As per CM65 Y=40

**NOTE 1:** This command is effective only for DT500/DT900 Series. For other Multiline Terminals, use CM65 Y=40.

**NOTE 2:** For music ring unsupported terminals, follow the setting of CM65 Y=40.

**NOTE 3:** A reset of the terminal is required when this data is set or changed for DT500/DT900 Series.

C

C	DESCRIPTION	DATA
CM13	Assign the music ring feature to each station. <b>[9300V7 software required]</b>	<ul style="list-style-type: none"> <li>• Y=99</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul>
	<p><b>NOTE 1:</b> This command is effective only for DT500/DT900 Series.</p> <p><b>NOTE 2:</b> Be sure to set this data to "1" (Not available) for music ring unsupported terminals.</p> <p><b>NOTE 3:</b> When music ring is not used, set this data to "1" (Not available) even for music ring supported terminals.</p> <p><b>NOTE 4:</b> Music ring can be used regardless of this command when music ring is set by the terminal operation (<b>Feature</b> key + 3) or on a terminal menu.</p>	
CM35	Provide the distinctive ringing patterns to a Multiline Terminal in behind PBX.	<ul style="list-style-type: none"> <li>• Y=087</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
CM30	Specify the terminating system for incoming C.O. calls.	<ul style="list-style-type: none"> <li>• Y=02 in Day Mode</li> <li>• Y=03 in Night Mode</li> <li>• Y=40 in Mode A</li> <li>• Y=41 in Mode B</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 02: Trunk-Direct Appearances</li> <li>03: Trunk-Direct Appearances + TAS</li> </ul>
	Provide the Trunk-Direct Appearances on Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=18</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 0: To provide</li> </ul>
CM41	Assign the ringing detect timer for incoming trunk calls.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 50</li> <li>(2) 01-99: 8-792 ms. (8 ms. increments)</li> </ul> <p>If no data is set, the default setting is 224 ms.</p>
	<b>BLADE RESET</b>	
CM90	Assign the Trunk Line Appearance key to a Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) D000-D511: Trunk No.</li> </ul>
<u>END</u>		

**Interval of Ringing Tones for Multiline Terminal  
by CM08>392/396/397**

Unit: seconds ◀: Default

Pattern	1	2	3	4	5	6	7	8
CM08>392	1◀	0	1◀	0	1◀	0	0	1◀
CM08>396	1◀	1◀	0	0	1◀	0	1◀	0
CM08>397	1◀	1◀	1◀	1◀	0	0	0	0
Internal Ringing	1 ON -2 OFF	1 ON -2 OFF	2 ON -4 OFF	2 ON -4 OFF	0.375 ON -0.25 OFF -0.375 ON -2 OFF	0.375 ON -0.25 OFF -0.375 ON -2 OFF	1 ON -4 OFF	0.25 ON -0.25 OFF -0.25 ON -4.25 OFF
External Ringing	0.375 ON -0.25 OFF -0.375 ON -2 OFF	2 ON -4 OFF	0.375 ON -0.25 OFF -0.375 ON -2 OFF	2 ON -4 OFF	2 ON -4 OFF	2 ON -4 OFF	0.25 ON -0.25 OFF -0.25 ON -4.25 OFF	1 ON -4 OFF
Special Ringing	0.25 ON -0.125 OFF -0.25 ON -0.125 OFF -0.25 ON -2 OFF	0.5 ON -0.5 OFF -0.5 ON -1.5 OFF	0.25 ON -0.125 OFF -0.25 ON -0.125 OFF -0.25 ON -2 OFF	0.5 ON -0.5 OFF -0.5 ON -1.5 OFF	0.25 ON -0.125 OFF -0.25 ON -0.125 OFF -0.25 ON -2 OFF	0.25 ON -0.125 OFF -0.25 ON -0.125 OFF -0.25 ON -2 OFF	0.25 ON -0.125 OFF -0.25 ON -0.125 OFF -0.25 ON -2 OFF	0.25 ON -0.125 OFF -0.25 ON -0.125 OFF -0.25 ON -2 OFF

**NOTE 1:** The above ringer patterns (5-8) are effective only when CM31 Y=0>0: 04, 15.

**NOTE 2:** Pattern 5 is standard setting for Brazil.

**NOTE 3:** Pattern 6 is standard setting for France.

**NOTE 4:** Pattern 7 and 8 are standard setting for EMEA.

**Interval of Ringing Tones for Single Line Telephone  
by CM04 Y=00>05/06/07**

◀: Default

2nd Data	CM04 Y=00		
	1st Data=05 (Single Line Telephone ringing signal for Station-to-Station connection)	1st Data=06 (Single Line Telephone ringing signal from a trunk)	1st Data=07 (Special ringing signal for Single Line Telephone ring)
01	ON	ON	ON
02	2 seconds ON-4 seconds OFF	2 seconds ON-4 seconds OFF	2 seconds ON-4 seconds OFF
03	1 second ON-2 seconds OFF	1 second ON-2 seconds OFF	1 second ON-2 seconds OFF
04	0.5 seconds ON-0.5 seconds OFF	0.5 seconds ON-0.5 seconds OFF	0.5 seconds ON-0.5 seconds OFF
05	0.25 seconds ON-0.25 seconds OFF	0.25 seconds ON-0.25 seconds OFF	0.25 seconds ON-0.25 seconds OFF
06	0.5 seconds ON-0.5 seconds OFF -0.5seconds ON-1.5 seconds OFF	0.5 seconds ON-0.5 seconds OFF -0.5 seconds ON-1.5 seconds OFF	0.5 seconds ON-0.5 seconds OFF -0.5seconds ON-1.5 seconds OFF
07	0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-5.25 seconds OFF	0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-5.25 seconds OFF	0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-5.25 seconds OFF
08	0.375 seconds ON-0.25 seconds OFF -0.375 seconds ON-2 seconds OFF	0.375 seconds ON-0.25 seconds OFF -0.375 seconds ON-2 seconds OFF	0.375 seconds ON-0.25 seconds OFF -0.375 seconds ON-2 seconds OFF
09	0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-2 seconds OFF	0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-2 seconds OFF	0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-2 seconds OFF
10	1 second ON-4 seconds OFF	1 second ON-4 seconds OFF	1 second ON-4 seconds OFF
11	0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-4.25 seconds OFF	0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-4.25 seconds OFF	0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-4.25 seconds OFF
12	1 second ON-3 seconds OFF	1 second ON-3 seconds OFF	1 second ON-3 seconds OFF
13	0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-2.25 seconds OFF	0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-2.25 seconds OFF	0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-2.25 seconds OFF
31◀	1 second ON-2 seconds OFF	2 seconds ON-4 seconds OFF	0.375 seconds ON-0.25 seconds OFF -0.375 seconds ON-2 seconds OFF

# DO NOT DISTURB

## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Do Not Disturb in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=019</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM13	Provide the group of stations in Do Not Disturb. Do Not Disturb is set to these stations (assigned by this command) simultaneously by operation from an Attendant Console.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To provide</li> </ul>
CM20	Assign the access code for Do Not Disturb Set/Cancel.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A022: Do Not Disturb Set A023: Do Not Disturb Cancel</li> </ul>
CM51	Assign the transfer destination of incoming call when Do Not Disturb is set to the called station (for DID/DIT/Tie line/station call).	<ul style="list-style-type: none"> <li>Y=10</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXXXX: Station No. E000 : Attendant Console</li> </ul>
	<b>NOTE:</b> This data is available when CM08> 240 is set to 1.	
CM90	Assign a Do Not Disturb function key to the Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F0022: Do Not Disturb Set/Reset F1080: Do Not Disturb Override</li> </ul>
	Assign Do Not Disturb and Do Not Disturb Override function keys to the DESKCON.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) F6102: Do Not Disturb F6103: Do Not Disturb Override F6104: Reset F6108: Do Not Disturb Override</li> </ul>
A		

A	DESCRIPTION	DATA
CM08	Specify the operation of Call Forwarding-Busy Line for a station with Do Not Disturb set (for DID/DIT/Tie Line/Station call).	(1) 240 (2) 0 : Call Forwarding-Busy Line 1◀: To transfer to the another station (assigned by CM51 Y=10)
	<b>NOTE:</b> <i>Regardless of this data, Do Not Disturb is available for Direct-In Termination when a Pilot station of Station Hunting group is set Do Not Disturb.</i>	
	For a system with multiple-tenant, specify the destination of a call transferred in CM51 Y=10.	(1) 241 (2) 0 : Tenant of called station 1◀: Tenant of calling station or DID/Tie Line trunk
CM48	Select the Dial Tone on setting Do Not Disturb.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 14: Dial Tone on setting Do Not Disturb</li> <li>(2) 0 : Special Dial Tone (Stutter Dial Tone)</li> <li>1◀: Dial Tone</li> </ul>
<u>END</u>		

To set an outside party as a destination of transferred call:

START	DESCRIPTION	DATA
CM11	Assign the Virtual Line station number to the required Virtual Port number.	(1) 0000-0999: Virtual Port No. (2) X-XXXXXXXX: Virtual Line Station No.
CM12	Assign Service Restriction Class A to each station.	• Y=02 (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 (2) XXZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Call Forwarding-All Calls-Outside to Service Restriction Class A assigned by CM12 Y=02.	• Y=026 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CME6	Assign the destination of Call Forwarding-All Calls-Outside to the Virtual Line station number assigned by CM11.	• Y=00 Call Forwarding-All Calls (1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11 (2) Destination No.: X-XXXX + [ ] + YY...Y X-XXXX: Outgoing Trunk/LCR Group Access Code (1-4 digits) [ ] : Separate Mark YY...Y : Called No. (Maximum 26 digits)
CM08	For system with multiple-tenant, specify the tenant of calling station as the destination of a call transferred in CM51 Y=10.	(1) 241 (2) 1◀: Tenant of calling station
CM51	Assign the transfer destination of incoming call when Do Not Disturb is set to the called station as Virtual Line station assigned by CM11 (for DID/DIT/Tie line/station call).	• Y=10 (1) 00-63: Tenant No. (2) X-XXXXXXXX: Virtual Line Station No. assigned by CM11
	<b>NOTE:</b> This data is available when CM08> 240 is set to 1.	
END		



To provide timer for Do Not Disturb group set/cancel:

START	DESCRIPTION	DATA
CM13	Provide the group of stations in Do Not Disturb.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To provide</li> </ul>
CM90	Assign a Do Not Disturb function key to the Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0022: Do Not Disturb Set/Reset</li> </ul>
CM97	Assign a Do Not Disturb function key on each DSS Console, if required.	<ul style="list-style-type: none"> <li>(1) DSS Console No. (00-31) + <input type="text"/> + DSS Key No. (57-59)</li> <li>(2) F1053: Do Not Disturb Set/Reset</li> </ul>
<u>END</u>		

To set the Do Not Disturb feature to the stations of SLT/sub line of Multiline Terminal/Virtual line stations that are accommodated to the Multiline Terminal multiline as the sub line, and to display the Do Not Disturb Set/Reset status of the stations on the lamp of Multiline Terminal:

**NOTE:** *To make this feature available, do the programming both of the setting side (Multiline Terminal) and the set side (stations of SLT, sub line of Multiline Terminal or virtual line stations).*

- For Setting Side (Multiline Terminal)

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to the required stations.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Allow Do Not Disturb Setting to be set in Service Restriction Class C assigned by CM12 Y=07.	<ul style="list-style-type: none"> <li>• Y=188</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0: Allow</li> </ul>
CM08	Provide the system with Message Waiting indication on both My Line and Sub Line of Multiline Terminal.	<ul style="list-style-type: none"> <li>(1) 140</li> <li>(2) 0: Available</li> </ul>
CM12	Assign the Do Not Disturb lamp indication on Line/Trunk/Feature keys of Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=62</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Not indicated</li> <li>2 : Do Not Disturb lamp indication</li> <li>3◀: Message Waiting lamp indication</li> </ul>
END		

- For Set Side (stations of SLT, sub line of Multiline Terminal or virtual line stations)

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> (1) X-XXXXXXXX: Station No./Sub Line No./Virtual Line Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Do Not Disturb in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=019</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM12	Assign Service Restriction Class C to the required stations.	<ul style="list-style-type: none"> <li>• Y=07</li> </ul> (1) X-XXXXXXXX: Station No./Sub Line No./Virtual Line Station No. (2) 00-15◀: Service Restriction Class C
CM15	Allow Do Not Disturb to be set in Service Restriction Class C assigned by CM12 Y=07.	<ul style="list-style-type: none"> <li>• Y=189</li> </ul> (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 0: Allow
CM65	Provide Do Not Disturb feature to each tenant.	<ul style="list-style-type: none"> <li>• Y=19</li> </ul> (1) 00-63: Tenant No. (2) 1◀: To provide
CM08	Provide the system with Message Waiting indication on both My Line and Sub Line of Multiline Terminal.	(1) 140 (2) 0: Available
CM12	Assign the Do Not Disturb lamp indication on Line/Trunk/Feature keys of Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=62</li> </ul> (1) X-XXXXXXXX: Station No./Sub Line No./Virtual Line Station No. (2) 0 : Not indicated 2 : Do Not Disturb lamp indication 3◀: Message Waiting lamp indication
END		

To provide the speech synthesis language feature for the calling party when calling a called party set Do Not Disturb, do the following programming in addition to the programming of Do Not Disturb.

START	DESCRIPTION	DATA
CM04	<p>Specify the combination of Language Indicated number and speech synthesis language.</p> <p><b>NOTE:</b> <i>This command is required when changing the speech synthesis language (default: English). When the language is changed by this command, the operation for setting speech synthesis language from the Multiline Terminal is required for individual station. For the operation, refer to OPERATING PROCEDURE FOR SETTING SPEECH SYNTHESIS LANGUAGE.</i></p> <p><a href="#">Page 1-355</a></p>	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) 1-9: Language Indicated No.</li> <li>(2) 01 : Japanese announcement</li> <li>02 : English announcement</li> <li>06 : Chinese announcement</li> <li>08 : Korean announcement</li> <li>CCC : Clear</li> <li>NONE◀: English announcement</li> </ul>
CM08	<p>Specify whether to replay the announcement in English after replaying the first announcement assigned by CM04 Y=02.</p> <p>Allow the speech synthesis language feature for the Do Not Disturb.</p>	<ul style="list-style-type: none"> <li>(1) 894</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> <li>(1) 1400</li> <li>(2) 0: Allow</li> </ul>
CM90	<p>Assign the speech synthesis language setting function keys on Multiline Terminal.</p> <p><b>NOTE:</b> <i>This command is required when setting the speech synthesis language from the Multiline Terminal for individual station. For the operation, refer to OPERATING PROCEDURE FOR SETTING SPEECH SYNTHESIS LANGUAGE.</i></p> <p><a href="#">Page 1-355</a></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1074 : Set</li> <li>F1076 : Cancel</li> <li>F1079 : Language</li> <li>NONE◀: No data</li> </ul>
A		

A

**DESCRIPTION**

**DATA**

CM08

Specify whether to print out the language information from Printer, when the language indicated number is entered by the Multiline Terminal.

- 895
- (1) 0 : Not available
- (2) 1◀: Available

CM04

Specify the combination of Language Indicated number and language information display of the Multiline Terminal/language information to be printed out by the printer.

- Y=03
- (1) 1-9: Language Indicated No.
- (2) 01 : JPN (Japanese)
- 02 : ENG (English)
- 06 : CHI (Chinese)
- 08 : KOR (Korean)
- CCC : Clear
- NONE◀: See **NOTE 2**

**NOTE 1:** *The Language Indicated number (1-9) means the number entered by the Multiline Terminal.*

**NOTE 2:** *When the second data is set to "NONE", the following language information (fixed sentence) is displayed or printed out according to the Language Indicated number entered by the Multiline Terminal.*  
*Language Indicated number 1: JPN*  
*Language Indicated number 2: ENG*  
*Language Indicated number 3: GER*  
*Language Indicated number 4: FR*  
*Language Indicated number 5: SP*  
*Language Indicated number 6: CHI*  
*Language Indicated number 7: RUS*  
*Language Indicated number 8: KOR*  
*\* For language information other than listed above, Display/Print-out is not provided.*

END

To provide the Preset Do Not Disturb Override by Station dialing/Function key on Multiline terminal, do the following programming in addition to the programming of Do Not Disturb.

START	DESCRIPTION	DATA
CM08	Select the function to Override by preset Station dialing/Function key on Multiline terminal.	<ul style="list-style-type: none"> <li>(1) 1014</li> <li>(2) 0 : Do Not Disturb (DND), Call Forwarding-All Calls</li> <li style="padding-left: 20px;">1◀: Do Not Disturb (DND)</li> </ul>
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ</li> <li style="padding-left: 20px;">XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow the Preset Do Not Disturb-Override.	<ul style="list-style-type: none"> <li>• Y=226</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign an access code for Do Not Disturb-Override.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A260: Do Not Disturb-Override</li> </ul>
CM90	Assign the Do Not Disturb-Override function key on the Multiline terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F1080: Do Not Disturb-Override</li> </ul>
	Assign the Do Not Disturb-Override function keys on the DESKCON.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) F6103: Wake Up/Do Not Disturb-Override</li> <li style="padding-left: 20px;">F6108: Do Not Disturb-Override</li> </ul>
END		

## HARDWARE REQUIRED

CPU blade (Speech Synthesis using a built-in Flash ROM)

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## OPERATING PROCEDURE FOR SETTING SPEECH SYNTHESIS LANGUAGE

When setting the speech synthesis language for individual station (Default: English), do the following operation.

To set speech synthesis language from a Multiline Terminal/Front Desk Terminal (with Check In):

1. Press the **Check In** key.
2. Dial the desired station number.
3. Press the **SET** key.
4. Press the **LANGUAGE** key.
5. Dial the language indicated number 1-9 assigned by command (CM04 Y=02).
6. Press the **SET** key.

or

1. Press the **Check In** key.
2. Dial the desired station number.
3. Press the **SET** key.
4. Press the **LANGUAGE** key.
5. Dial the language indicated number 1-9 assigned by command (CM04 Y=02).
6. Press the **SET** key. Repeat Step 2-5 for additional station.

To set speech synthesis language from a Multiline Terminal/Front Desk Terminal (without Check In):

1. Press the **LANGUAGE** key.
2. Dial the desired station number.
3. Press the **SET** key.
4. Press the **LANGUAGE** key.
5. Dial the language indicated number 1-9 assigned by command (CM04 Y=02).
6. Press the **SET** key.

or

1. Press the **LANGUAGE** key.
2. Dial the desired station number.
3. Press the **SET** key.
4. Press the **LANGUAGE** key.
5. Dial the language indicated number 1-9 assigned by command (CM04 Y=02).
6. Press the **SET** key. Repeat Step 2-5 for additional station.

To confirm speech synthesis language from Multiline Terminal/Front Desk Terminal:

1. Press the **LANGUAGE** key.
2. Dial the desired station number.
3. Press the **SET** key.



# DO NOT DISTURB-GROUP

## PROGRAMMING

START	DESCRIPTION	DATA
CM4A	Assign the calendar number to each system.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 100</li> <li>(2) 00 : Calendar No. 1</li> <li>01 : Calendar No. 2</li> <li>02 : Calendar No. 3</li> <li>03 : Calendar No. 4</li> <li>CCC : Data clear</li> <li>NONE◀: Ineffective</li>   <li>• Y=01 Calendar No. 1</li> <li>• Y=02 Calendar No. 2</li> <li>• Y=03 Calendar No. 3</li> <li>• Y=04 Calendar No. 4</li> <li>(1) XX ZZ: Date</li> <li>XX : 01-12: Month</li> <li>ZZ : 01-31: Date</li> <li>(2) 10 : Week Schedule No. 0</li> <li>11 : Week Schedule No. 1</li> <li>12 : Week Schedule No. 2</li> <li>13 : Week Schedule No. 3</li> <li>20 : Peculiar Day Time Schedule No. 0</li> <li>21 : Peculiar Day Time Schedule No. 1</li> <li>22 : Peculiar Day Time Schedule No. 2</li> <li>23 : Peculiar Day Time Schedule No. 3</li> <li>24 : Peculiar Day Time Schedule No. 4</li> <li>25 : Peculiar Day Time Schedule No. 5</li> <li>26 : Peculiar Day Time Schedule No. 6</li> <li>27 : Peculiar Day Time Schedule No. 7</li> <li>CCC : Data clear</li> <li>NONE◀: Week Schedule No. 0</li> </ul>
	Assign the week schedule number to the date to change schedule, in each calendar number assigned by CM4A Y=00.	
	<p><b>NOTE 1:</b> <i>The schedule not related to the weekly schedule (such as no-business day) shall be “Peculiar Day”, and the time schedule can be set directory for the month and the date.</i></p>	
	<p><b>NOTE 2:</b> <i>This command is shared by Automatic Day/Night Mode Change, Automatic RC Mode Select, Room Cutoff-Group, Timed Notification and Ecology Mode.</i></p>	
A		

	DESCRIPTION	DATA
A		
CM4A	<p>Assign the time schedule number to each day in the week schedule assigned by CM4A Y=01-04.</p> <p><b>NOTE:</b> <i>This command is shared by Automatic Day/Night Mode Change, Automatic RC Mode Select, Room Cutoff-Group, Timed Notification and Ecology Mode.</i></p>	<ul style="list-style-type: none"> <li>• Y=10 (Week Schedule No. 0)</li> <li>• Y=11 (Week Schedule No. 1)</li> <li>• Y=12 (Week Schedule No. 2)</li> <li>• Y=13 (Week Schedule No. 3)</li> </ul> <p>(1) 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday</p> <p>(2) 20 : Time Schedule No. 0 21 : Time Schedule No. 1 22 : Time Schedule No. 2 23 : Time Schedule No. 3 24 : Time Schedule No. 4 25 : Time Schedule No. 5 26 : Time Schedule No. 6 27 : Time Schedule No. 7 NONE◀: Time Schedule No. 0</p>
	<p>Assign the time and the kind of system service for the time schedule assigned by CM4A Y=10-13 or Y=01-04.</p> <p><b>NOTE 1:</b> <i>The time of time schedule is specified in units of 5 minutes. Set the last one digit of the "Minute" of the first data in units of 0 or 5 (truncation).</i></p> <p><b>NOTE 2:</b> <i>Actually, the mode is changed after 4-8 seconds of the assigned time.</i></p> <p><b>NOTE 3:</b> <i>This command is shared by Automatic Day/Night Mode Change, Automatic RC Mode Select, Room Cutoff-Group and Ecology Mode.</i></p>	<ul style="list-style-type: none"> <li>• Y=20 (Time Schedule No. 0)</li> <li>• Y=21 (Time Schedule No. 1)</li> <li>• Y=22 (Time Schedule No. 2)</li> <li>• Y=23 (Time Schedule No. 3)</li> <li>• Y=24 (Time Schedule No. 4)</li> <li>• Y=25 (Time Schedule No. 5)</li> <li>• Y=26 (Time Schedule No. 6)</li> <li>• Y=27 (Time Schedule No. 7)</li> </ul> <p>(1) XX ZZ: Time XX : 00-23: Hour ZZ : 00-55: Minute <b>NOTE 1, NOTE 2</b></p> <p>(2) 50 : System Service No. 0 51 : System Service No. 1 52 : System Service No. 2 53 : System Service No. 3 54 : System Service No. 4 55 : System Service No. 5 56 : System Service No. 6 57 : System Service No. 7 CCC : Data clear NONE◀: No system service</p>
B		

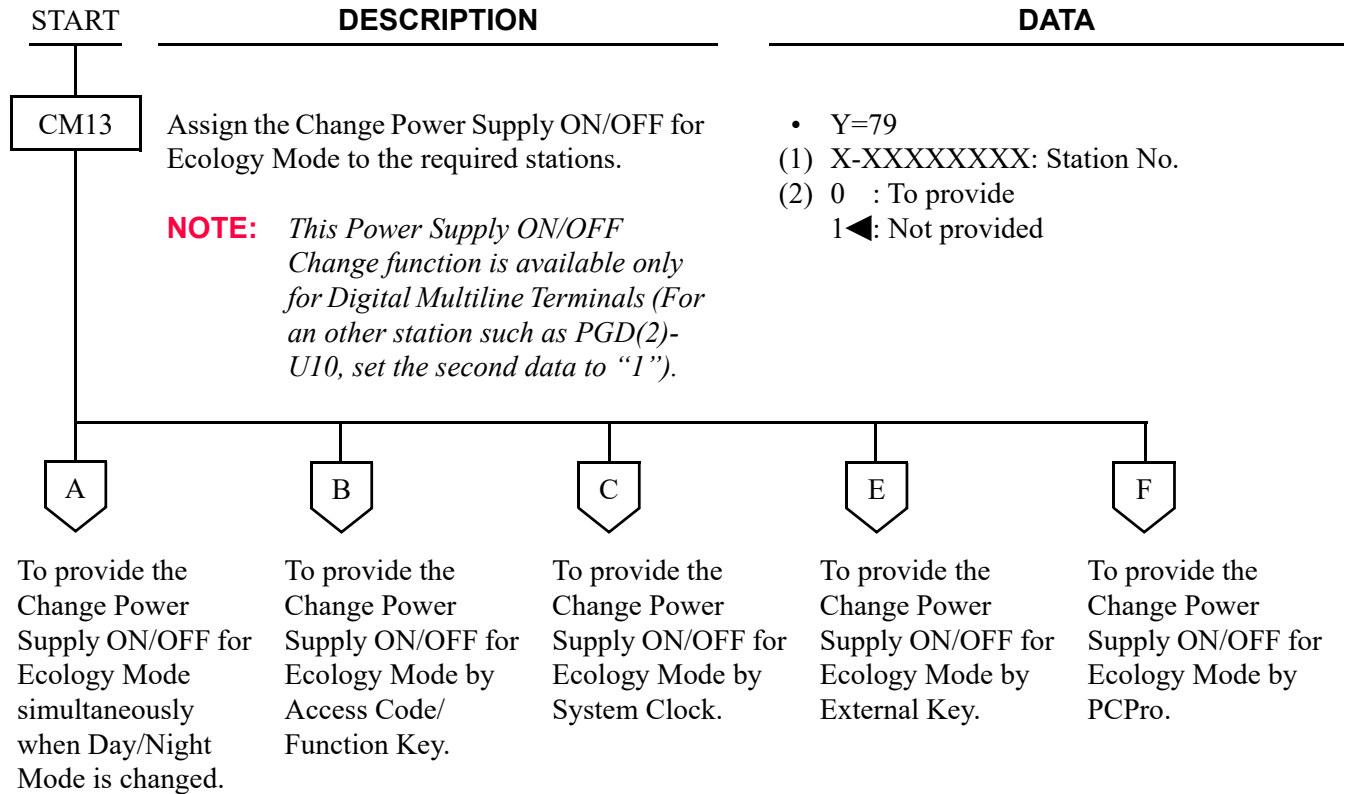
B	DESCRIPTION	DATA
CM4A	Set the Do Not Disturb-Group for the system service assigned by CM4A Y=20-27.	<ul style="list-style-type: none"> <li>• Y=50 (System Service No. 0)</li> <li>• Y=51 (System Service No. 1)</li> <li>• Y=52 (System Service No. 2)</li> <li>• Y=53 (System Service No. 3)</li> <li>• Y=54 (System Service No. 4)</li> <li>• Y=55 (System Service No. 5)</li> <li>• Y=56 (System Service No. 6)</li> <li>• Y=57 (System Service No. 7)</li> </ul> (1) 01: Do Not Disturb (2) 0: To set
CM12	Assign Service Restriction Class A to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Do Not Disturb-Group in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=019</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM13	Provide Do Not Disturb-Group to required stations. Do Not Disturb-Group is set to these stations (assigned by this command) simultaneously by operation from an Attendant Console.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) X-XXXXXXXX: Station No. (2) 0: To provide
<u>END</u>		

To provide the Preset Do Not Disturb-Group Override by Station dialing/Programmable key on Multiline terminal, refer to “To provide the Preset Do Not Disturb Override by Station dialing/Function key on Multiline terminal”. [📄 Page 1-354](#)

## ECOLOGY

### ECOLOGY MODE (POWER SUPPLY ON/OFF MODE)

(1) To provide the Change Power Supply ON/OFF for Ecology Mode to each tenant:



	DESCRIPTION	DATA
<div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">A</div> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 5px auto; display: flex; align-items: center; justify-content: center;">CM65</div> <div style="border-bottom: 1px solid black; width: 100%; height: 200px; margin-top: 5px;"></div> <div style="text-align: center; margin-top: 5px;"><u>END</u></div>	<p>Specify whether to provide the Change Power Supply ON/OFF for Ecology Mode to each tenant simultaneously when Day/Night Mode is changed.</p> <p>Assign the setting of Power Supply ON/OFF to each tenant for Day Mode/Night Mode/Mode A/Mode B.</p>	<ul style="list-style-type: none"> <li>• Y=55</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : To provide</li> <li style="padding-left: 20px;">1 ◀: Not provided</li> </ul> <ul style="list-style-type: none"> <li>• Y=56 Day Mode</li> <li>• Y=57 Night Mode</li> <li>• Y=58 Mode A</li> <li>• Y=59 Mode B</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : Power Supply OFF</li> <li style="padding-left: 20px;">1 ◀: Power Supply ON</li> </ul>

**NOTE:** For the data assignment of the Ecology Mode by Day/Night Mode, refer to “DAY/NIGHT MODE CHANGE BY STATION DIALING” [☞ Page 1-663](#) and “DAY/NIGHT MODE CHANGE BY SYSTEM CLOCK”. [☞ Page 1-665](#)

B	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Change Power Supply ON/OFF for Ecology Mode to each station by Access Code/ Function Key.	<ul style="list-style-type: none"> <li>• Y=231</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>
CM08	Allow Change Power Supply ON/OFF for Ecology Mode to Attendant by Access Code.	<ul style="list-style-type: none"> <li>(1) 1041</li> <li>(2) 0: Allow</li> </ul>
CM20	Assign an access code for Ecology Mode.	<ul style="list-style-type: none"> <li>• Y=0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A272: Ecology mode for the own tenant A273: Ecology mode for the specified tenant</li> </ul>
CM90	Assign the Ecology Mode Function Key on the Digital Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F1700-F1763: Ecology Mode for the Tenant 00-63</li> </ul>
CM65	Assign the password for Ecology Mode.	<ul style="list-style-type: none"> <li>• Y=100</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXXXX: Password for Ecology Mode X : 0-9, A (*), B (#) NONE◀: No data</li> </ul>
<u>END</u>		

	DESCRIPTION	DATA
C		
CM4A	<p>Assign the Ecology Mode Switching Pattern to each time schedule.</p> <p><b>NOTE 1:</b> <i>The time of time schedule is specified in units of 5 minutes. Set the last one digit of the "Minute" of the first data in units of 0 or 5 (truncation).</i></p> <p><b>NOTE 2:</b> <i>Usually, the mode is changed after 4-8 seconds of the assigned time.</i></p> <p><b>NOTE 3:</b> <i>This command is shared by Automatic Day/Night Mode Change, Timed Notification, Do Not Disturb-Group and Room Cutoff-Group.</i></p> <p><b>NOTE 4:</b> <i>When the target of Calendar selection is "System" (set by CM4A Y=00&gt;100), this data is not effective.</i></p>	<ul style="list-style-type: none"> <li>• Y=20 Time Schedule No. 0</li> <li>• Y=21 Time Schedule No. 1</li> <li>• Y=22 Time Schedule No. 2</li> <li>• Y=23 Time Schedule No. 3</li> <li>• Y=24 Time Schedule No. 4</li> <li>• Y=25 Time Schedule No. 5</li> <li>• Y=26 Time Schedule No. 6</li> <li>• Y=27 Time Schedule No. 7</li> </ul> <p>(1) XX ZZ: Time            XX : 00-23: Hour            ZZ : 00-55: Minute <b>NOTE 1, NOTE 2</b></p> <p>(2) 10 : Ecology Mode Switching Pattern 0            11 : Ecology Mode Switching Pattern 1            12 : Ecology Mode Switching Pattern 2            13 : Ecology Mode Switching Pattern 3            14 : Ecology Mode Switching Pattern 4            15 : Ecology Mode Switching Pattern 5            16 : Ecology Mode Switching Pattern 6            17 : Ecology Mode Switching Pattern 7            18 : Ecology Mode Switching Pattern 8            19 : Ecology Mode Switching Pattern 9            NONE◀: No system service</p>
D		

D	DESCRIPTION	DATA
CM65	Set the Power Supply ON/OFF for the Ecology Mode Switching Pattern assigned by CM4A Y=20-27: 10-19.	<ul style="list-style-type: none"><li>• Y=60 Ecology Mode Switching Pattern 0</li><li>• Y=61 Ecology Mode Switching Pattern 1</li><li>• Y=62 Ecology Mode Switching Pattern 2</li><li>• Y=63 Ecology Mode Switching Pattern 3</li><li>• Y=64 Ecology Mode Switching Pattern 4</li><li>• Y=65 Ecology Mode Switching Pattern 5</li><li>• Y=66 Ecology Mode Switching Pattern 6</li><li>• Y=67 Ecology Mode Switching Pattern 7</li><li>• Y=68 Ecology Mode Switching Pattern 8</li><li>• Y=69 Ecology Mode Switching Pattern 9</li></ul> <p>(1) 00-63: Tenant No. (2) 0 : Power Supply OFF 1◀: Power Supply ON</p>
<u>END</u>		



E	DESCRIPTION	DATA
CM12	Specify the External Key group number.	<ul style="list-style-type: none"> <li>• Y=66</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-63◀: External Key Group No.</li> </ul>
CM61	<p>To provide External Keys for the Change Power Supply ON/OFF for Ecology Mode, assign a Tenant number to the External Key.</p> <p>Assign the Change Power Supply ON/OFF for Ecology Mode by the External Key.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX Z                XX: 00-63: External Key Group No. assigned by CM12 Y=66                Z : 0/1: Circuit No.</li> <li>(2) 00-63: Tenant No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=08</li> <li>(1) XX Z                XX: 00-63: External Key Group No. assigned by CM12 Y=66                Z : 0/1: Circuit No.</li> <li>(2) 0 : Effective                1◀: Ineffective</li> </ul>
<u>END</u>		

	DESCRIPTION	DATA
<div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto; text-align: center; line-height: 30px;">F</div> <div style="border: 1px solid black; width: 60px; height: 25px; margin: 5px auto; text-align: center;">CMEC</div>	<p>Specify whether to provide Change Power Supply ON/OFF for Ecology Mode to each tenant by PCPro.</p>	<ul style="list-style-type: none"> <li>• Y=C</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : Power Supply OFF</li> <li style="padding-left: 20px;">1◀: Power Supply ON</li> </ul>
<div style="border: 1px solid black; width: 60px; height: 25px; margin: 5px auto; text-align: center;">END</div>		

If you want to cancel the Ecology Mode of the all terminals in a system, do the following programming. When press the External Key, all Digital Multiline Terminal in a system is changed to Power Supply ON. And the following method becomes ineffective to change Power Supply OFF.

- Power Supply ON/OFF Change for Ecology Mode simultaneously when Day/Night Mode is changed
- Power Supply ON/OFF Change for Ecology Mode by Access Code/Function Key
- Power Supply ON/OFF Change for Ecology Mode by System Clock
- Power Supply ON/OFF Change for Ecology Mode by External Key
- Power Supply ON/OFF Change for Ecology Mode by PCPro

	DESCRIPTION	DATA
<div style="border: 1px solid black; width: 60px; height: 25px; margin: 5px auto; text-align: center;">START</div> <div style="border: 1px solid black; width: 60px; height: 25px; margin: 5px auto; text-align: center;">CM61</div>	<p>To cancel the Ecology Mode of the all terminals in a system, assign the External Key as the Ecology Mode Cancel Key.</p> <p><b>NOTE:</b> <i>When this data is set, the power supply of the all terminals in a system can be returned to Power ON by the operation of the External Key. However, Power ON/OFF Change is ineffective at a power failure.</i></p>	<ul style="list-style-type: none"> <li>• Y=30</li> <li>(1) XX Z <ul style="list-style-type: none"> <li>XX: 00-63: External Key Group No. assigned by CM12 Y=66</li> <li>Z : 0/1: Circuit No.</li> </ul> </li> <li>(2) 02: Ecology Mode Cancel Key</li> </ul>
<div style="border: 1px solid black; width: 60px; height: 25px; margin: 5px auto; text-align: center;">END</div>		

**NOTE:** For data assignment of External Keys for Ecology Mode, refer to TENANT SERVICE.

[📄 Page 1-793](#)

(2) To provide Power Supply OFF for Ecology Mode at a power failure:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM13</div>	<p>Provide Power Supply ON/OFF Change for Ecology Mode when switching to battery powered at a power failure.</p> <p><b>NOTE:</b> <i>Assign this data to only for the station number of Digital Multiline Terminal to Change Power Supply ON/OFF (The other station such as PGD(2)-U10, set the second data to "1").</i></p>	<ul style="list-style-type: none"> <li>• Y=80</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To provide</li> </ul>
<u>END</u>		

## POWER SAVING MODE

If the D<sup>term</sup>85 (D<sup>term</sup> Series i)/DT300/DT400/DT500 Series are not used for a certain time, the luminosity of a lamp on the Multiline Terminal can be lower automatically for the power saving.

To provide the power saving for the D<sup>term</sup>85 (D<sup>term</sup> Series i)/DT300/DT400/DT500 Series, do the following programming.

**NOTE:** *This data is effective only for the D<sup>term</sup>85 (D<sup>term</sup> Series i)/DT300/DT400/DT500 Series. For IP Station, this data is not effective.*

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	Assign the time to start the power saving to the required stations.	<ul style="list-style-type: none"> <li>• Y=44</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : 1 minute later</li> <li>1 : 2 minutes later</li> <li>2 : 4 minutes later</li> <li>3 : 8 minutes later</li> <li>4 : 16 minutes later</li> <li>5 : 32 minutes later</li> <li>6 : 64 minutes later</li> <li>7◀: Not use the power saving</li> </ul>
<u>END</u>		

## TIMER FOR LCD BACKLIGHT

To specify the LCD backlight for DT300/DT400/DT500/DT700/DT800/DT900 Series, do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Assign the time that LCD backlight for DT300/DT400/DT500/DT700/DT800/DT900 Series.	<ul style="list-style-type: none"> <li>• Y=485</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : Always off</li> <li>1 : Always on</li> <li>2 : 5 seconds</li> <li>3 : 10 seconds</li> <li>4 : 15 seconds</li> <li>5 : 30 seconds</li> <li>6 : 60 seconds</li> <li>NONE◀: 10 seconds</li> </ul>
	<p><b>NOTE 1:</b> After this data setting, the assigned data is reflected to each terminal by resetting the terminal or executing CM12 Y=29.</p> <p><b>NOTE 2:</b> When the second data is set to 0 (Always off), the LCD backlight setting of terminal side is set to disable. To change the time for LCD backlight again, it is necessary to set the LCD backlight setting of terminal to enable after resetting the time for LCD backlight and applying the settings to each terminal.</p> <p><b>NOTE 3:</b> For DT750, DT730CG, DT830CG, DT930CG, DT920, DT920 (Self-Labeling) and DT930 (Touch Panel) when the second data is set to 0 (Always off), the backlight setting of terminal side is fixed to “Level 4 (dark)”, the screen is lit by the lowest brightness without shut-off of the screen. To change the time for LCD backlight or the brightness again, it is necessary to set the LCD backlight setting of terminal to other than “Level 4 (dark)” after resetting the time for LCD backlight and applying the settings to each terminal.</p>	
CM12	Make the LCD display setting to be applied to Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=29</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 0: To execute</li> </ul>
	<p><b>NOTE:</b> When this data is set to 0 (To execute) after changing any system data relating to the LCD display of Multiline Terminal, the changes are reflected to the Multiline Terminal. After the reflection is completed, this data returns to 1 (Not executed).</p>	
END		

## BRIGHTNESS REDUCTION IN NUMERICAL KEYPAD BACKLIGHT FOR DT800/DT900 SERIES

**[9300V3 STEP2 software required]**

To allow the brightness reduction in numerical keypad backlight for DT800 Series (except DT820) and DT900 Series (except DT920), do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM15</div>	Allow Brightness reduction in numerical keypad backlight for DT830/DT830CG/DT830DG/DT930CG in Service Restriction Class A assigned by CM12 Y=07.	<ul style="list-style-type: none"> <li>• Y=493</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0: Allow</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>	<p><b>NOTE:</b> <i>A reset of the terminal (CM12 Y=89) is required when this command is set/changed.</i></p>	

# EMERGENCY CALL NOTIFICATION

## PROGRAMMING

In addition to the programming of ISDN-PRI/ISDN-BRI/TIE LINE, do the following programming.

As for the ISDN-PRI/ISDN-BRI programming, refer to ISDN FEATURES. [Page 3-1](#)

As for the TIE LINE programming, refer to TIE LINES. [Page 1-797](#)

### (1) Programming for Emergency Notification per system

START	DESCRIPTION	DATA
CM8A	<p>Assign an Area Code Development Pattern number to each LCR Group.</p> <p>Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.</p> <p>Provide Emergency Notification on the Multiline Terminal/DESKCON.</p>	<ul style="list-style-type: none"> <li>• Y=A000</li> <li>(1) 0-2: LCR Group 0-2</li> <li>(2) 4005-4007: Area Code Development Pattern No. 5-7</li> </ul> <ul style="list-style-type: none"> <li>• Y=4005-4007 Area Code Development Pattern No. 5-7</li> <li>(1) X...X: Area Code, Maximum 8 digits</li> <li>(2) 0000-0255: Route Pattern No. 000-255</li> </ul> <ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>LCR Pattern No. 000-255</li> <li>(1) 166: Emergency Notification on Multiline Terminal/DESKCON</li> <li>(2) 0: To provide</li> </ul>
CM51	<p>Assign the destination Multiline Terminal/DESKCON of Emergency Notification.</p> <p><b>NOTE:</b> <i>Emergency Notification can be provided on the maximum two Multiline Terminals/DESKCONs per system.</i></p>	<ul style="list-style-type: none"> <li>• Y=16</li> <li>(1) 04: Multiline Terminal/DESKCON No. 1 for Emergency Notification</li> <li>05: Multiline Terminal/DESKCON No. 2 for Emergency Notification</li> <li>(2) X-XXXXXXXX: Station No. E000-E007: ATTCON No. 0-7</li> </ul>
A		

A	DESCRIPTION	DATA
CM90	Assign the Emergency Notification key.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) For Multiline Terminal: My Line No. + <input type="text"/> + Key No. For DESKCON: DESKCON No. (E000-E007) + <input type="text"/> + Key No.</li> <li>(2) For Multiline Terminal: F5025: Emergency Notification For DESKCON: F6124: Emergency Notification <b>NOTE</b></li> </ul>
	To allow a station/attendant to interrupt the emergency call, assign the Executive Override/Busy Verification key on the Multiline Terminal/DESKCON.	<p><b>NOTE:</b> Do not assign this data to the Multi-Function keys.</p> <ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) For Multiline Terminal: My Line No. + <input type="text"/> + Key No. For DESKCON: DESKCON No. (E000-E007) + <input type="text"/> + Key No.</li> <li>(2) For Multiline Terminal: F0006: Executive Override For DESKCON: F6107: Busy Verification</li> </ul>
CM08	Specify whether to stop the Emergency Notification on Multiline Terminal/DESKCON when the emergency call is finished. <b>[9300V5 software required]</b>	<ul style="list-style-type: none"> <li>(1) 1413</li> <li>(2) 0 : To stop 1 ◀: To continue (30 sec.)</li> </ul>
CM30	To display the local office code on the Multiline Terminal/DESKCON when an emergency call is made in tandem connection, assign the local office code to the incoming trunk.	<ul style="list-style-type: none"> <li>• Y=19</li> <li>(1) 000-511: Trunk No.</li> <li>(2) XXXX: Trunk ID Code (Local Office Code)</li> </ul>
<u>END</u>		



## (2) Programming for Emergency Notification per location

START	DESCRIPTION	DATA
CM8A	Assign an Area Code Development Pattern number to each LCR Group.	<ul style="list-style-type: none"> <li>• Y=A000</li> <li>(1) 0-2: LCR Group 0-2</li> <li>(2) 4005-4007: Area Code Development Pattern No. 5-7</li> </ul>
	Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.	<ul style="list-style-type: none"> <li>• Y=4005-4007 Area Code Development Pattern No. 5-7</li> <li>(1) X...X: Area Code, Maximum 8 digits</li> <li>(2) 0000-0255: Route Pattern No. 000-255</li> </ul>
	Provide Emergency Notification on the Multiline Terminal/DESKCON.	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 166: Emergency Notification on Multiline Terminal/DESKCON</li> <li>(2) 0: To provide</li> </ul>
CM0B	Assign the location number for stations/VoIPDB (calling station).	<ul style="list-style-type: none"> <li>• Y=1XX (VOIP Port [1] + Unit No. [01-50])</li> <li>(1) 10</li> <li>(2) 00-63: Location No. 00-63 for calling station</li> </ul>
	<b>NOTE:</b> <i>This data is effective when the location number is not assigned by CM12 Y=39, 50.</i>	
CM12	Assign the location number of IP Station for local connection.	<ul style="list-style-type: none"> <li>• Y=39</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-63 : Location No. 00-63 for calling station</li> <li>NONE◀: Location No. 00</li> </ul>
	Assign the location number of IP Station for Remote Connection, if required.	<ul style="list-style-type: none"> <li>• Y=50</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-63 : Location No. 00-63 for calling station</li> <li>NONE◀: Location No. 00</li> </ul>
A		

A	DESCRIPTION	DATA
CM67	<p>Assign the destination Multiline Terminal/DESKCON of Emergency Notification.</p> <p><b>NOTE:</b> <i>Emergency Notification can be provided on the maximum two Multiline Terminals/DESKCONs per location.</i></p>	<ul style="list-style-type: none"> <li>• Y=32</li> <li>(1) 00-63: Location No. 00-63 assigned by CM0B Y=1XX&gt;10/CM12 Y=39/50</li> <li>(2) X-XXXXXXXX: Station No. E000-E007: ATTCON No. 0-7</li> <li>• Y=33</li> <li>(1) 00-63: Location No. 00-63 assigned by CM0B Y=1XX&gt;10/CM12 Y=39/50</li> <li>(2) X-XXXXXXXX: Station No. E000-E007: ATTCON No. 0-7</li> </ul>
CM90	<p>Assign the Emergency Notification key.</p> <p>To allow a station/attendant to interrupt the call, assign the Executive Override/Busy Verification key on the Multiline Terminal/DESKCON.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) For Multiline Terminal: My Line No. + [ ] + Key No. For DESKCON: DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) For Multiline Terminal: F5025: Emergency Notification For DESKCON: F6124: Emergency Notification <b>NOTE</b></li> <li><b>NOTE:</b> <i>Do not assign this data to the Multi-Function keys.</i></li> <li>• Y=00</li> <li>(1) For Multiline Terminal: My Line No. + [ ] + Key No. For DESKCON: DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) For Multiline Terminal: F0006: Executive Override For DESKCON: F6107: Busy Verification</li> </ul>

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	DESCRIPTION	DATA
B		
CM08	Specify whether to stop the Emergency Notification to each location of Multiline Terminal/DESKCON assigned by CM67 Y=32/33 when the emergency call is finished. <b>[9300V5 software required]</b>	(1) 1413 (2) 0 : To stop 1◀: To continue (30 sec.)
CM30	To display the local office code on the Multiline Terminal/DESKCON when an emergency call is made in tandem connection, assign the local office code to the incoming trunk.	• Y=19 (1) 000-511: Trunk No. (2) XXXX: Trunk ID Code (Local Office Code)
<u>END</u>		

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# ENHANCED 911

[For North America]

## PROGRAMMING

In addition to the programming of ISDN-PRI/ISDN-BRI/TIE LINE, do the following programming.

As for the ISDN-PRI/ISDN-BRI programming, refer to ISDN FEATURES. [☞ Page 3-1](#)

As for the TIE LINE programming, refer to TIE LINES. [☞ Page 1-797](#)

**NOTE:** *In the Tie Line programming, Unit No. 01 must be assigned to CM05 Y=0, CM10 Y=00 for ODT blade because the ODT trunk for Enhanced 911 can be accommodated in Unit01 only.*

- (1) Programming for transmitting a caller's emergency service identification information to an Enhanced 911 Emergency system

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM35</div>	<p>Provide the trunk route with Enhanced 911.</p>	<ul style="list-style-type: none"> <li>• Y=038</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: Available</li> </ul>
	<p>Specify the sending method of calling number to the network with Enhanced 911.</p>	<ul style="list-style-type: none"> <li>• Y=129</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 3: Enhanced 911</li> </ul>
	<p>Set the trunk route that no answer signal arrives from the distant office for outgoing connection.</p>	<ul style="list-style-type: none"> <li>• Y=004</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 3: No Answer Signal arrives (Polarity Reversal is ignored)</li> </ul>
	<p>Specify incoming connection signaling.</p> <p><b>NOTE:</b> <i>To provide Enhanced 911, the incoming connection signaling for ODT blade must be set to Ring Down.</i></p>	<ul style="list-style-type: none"> <li>• Y=009</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 15◀: Ring Down</li> </ul>
	<p>Provide SMDR/Centralized Billing for outgoing call.</p>	<ul style="list-style-type: none"> <li>• Y=014</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: To provide</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		<div style="border: 1px solid black; border-radius: 10px; padding: 2px; display: inline-block;">BLADE RESET</div>

A	DESCRIPTION	DATA
CM35	<p>Specify sender start condition.</p> <p><b>NOTE:</b> <i>To provide Enhanced 911, the sender start condition for ODT blade must be set to Wink Start.</i></p>	<ul style="list-style-type: none"> <li>• Y=020</li> </ul> <p>(1) 00-63: Trunk Route No.            (2) 15◀: Timing Start</p>
	<p>Specify the trunk seizure pattern for this feature.</p>	<ul style="list-style-type: none"> <li>• Y=036</li> </ul> <p>(1) 00-63: Trunk Route No.            (2) 0: After dialing maximum number of digits</p>
	<p>Assign the Area Code Development Pattern number for maximum digit analysis.</p>	<ul style="list-style-type: none"> <li>• Y=076</li> </ul> <p>(1) 00-63: Trunk Route No.            (2) 00-07: Area Code Development Pattern No. 0-7</p>
CM85	<p>Define the maximum number of sending digits which can be sent to the network.</p>	<ul style="list-style-type: none"> <li>• Y=0-7</li> </ul> <p>(1) X-XXX...: Area Code/Office Code or its part (Maximum 8 digits)            (2) 01-24◀: 1-24 digits                25-79 : 25-79 digits</p>
CM20	<p>Assign the access code for LCR Group 0-3.</p>	<ul style="list-style-type: none"> <li>• Y=0-3</li> </ul> <p>(1) X-XXXX: Access Code (Maximum 4 digits)            (2) A126-A129: Access Code for LCR Group 0-3</p>
CM8A	<p>Assign the LCR data, as needed.</p>	<ul style="list-style-type: none"> <li>• Y=XXXX</li> </ul> <p>(1) See CM8A in the Command Manual            (2) See CM8A in the Command Manual</p>
B		

BLADE RESET

B	DESCRIPTION	DATA												
CM12	Assign the calling party number (station number) sent to the network.	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) X-XXXXX: Calling Party No. (Station No.)</li> </ul>												
	<b>NOTE 1:</b> “*”, “#” are not available for the sending number.													
	<b>NOTE 2:</b> The calling party number is sent to the network as follows.													
	<table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><u>XXX.....XXX</u></td> <td style="text-align: center;">+</td> <td style="text-align: center;"><u>YYYY</u></td> </tr> <tr> <td style="text-align: center;"><i>Local office code</i></td> <td></td> <td style="text-align: center;"><i>Station No.</i></td> </tr> <tr> <td style="text-align: center;"><i>assigned by</i></td> <td></td> <td style="text-align: center;"><i>assigned by</i></td> </tr> <tr> <td style="text-align: center;"><i>CM50 Y=05</i></td> <td></td> <td style="text-align: center;"><i>CM12 Y=12</i></td> </tr> </table>	<u>XXX.....XXX</u>	+	<u>YYYY</u>	<i>Local office code</i>		<i>Station No.</i>	<i>assigned by</i>		<i>assigned by</i>	<i>CM50 Y=05</i>		<i>CM12 Y=12</i>	
<u>XXX.....XXX</u>	+	<u>YYYY</u>												
<i>Local office code</i>		<i>Station No.</i>												
<i>assigned by</i>		<i>assigned by</i>												
<i>CM50 Y=05</i>		<i>CM12 Y=12</i>												
	Assign the Local Office Code Table number for sending the calling office code to the network.	<ul style="list-style-type: none"> <li>• Y=13</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 00-14: Local Office Code Table No. 00-14</li> <li>15◀: No data</li> </ul>												
CM08	Send ANI signal to the network on Enhanced 911.	<ul style="list-style-type: none"> <li>(1) 474: Enhanced 911</li> <li>(2) 0: To send</li> </ul>												
	Specify whether the Sender Tone will be sent when a call originated, or not.	<ul style="list-style-type: none"> <li>(1) 475: Sending of Sender Tone</li> <li>(2) 0 : Not sent (No tone)</li> <li>1◀: To send</li> </ul>												
C														



(2) Programming for 911 Notification to DESKCON/Multiline Terminal

To provide 911 Notification per system:

START	DESCRIPTION	DATA
CM8A	Assign an Area Code Development Pattern number to each LCR Group.	<ul style="list-style-type: none"> <li>• Y=A000</li> <li>(1) 0-2: LCR Group 0-2</li> <li>(2) 4005-4007: Area Code Development Pattern No. 5-7</li> </ul>
	Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.	<ul style="list-style-type: none"> <li>• Y=4005-4007 Area Code Development Pattern No. 5-7</li> <li>(1) X...X: Area Code, Maximum 8 digits</li> <li>(2) 0000-0255: Route Pattern No. 000-255</li> </ul>
	Provide 911 Notification on the Multiline Terminal/DESKCON.	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 166: Emergency Notification on Multiline Terminal/DESKCON</li> <li>(2) 0: To provide</li> </ul>
CM51	Assign the destination Multiline Terminal/DESKCON of 911 Notification.	<ul style="list-style-type: none"> <li>• Y=16</li> <li>(1) 04: Multiline Terminal/DESKCON No. 1 for Emergency Notification 05: Multiline Terminal/DESKCON No. 2 for Emergency Notification</li> <li>(2) X-XXXXXXXX: Station No. E000-E007: ATTCO No. 0-7</li> </ul>
	<b>NOTE:</b> 911 Notification can be provided on the maximum two Multiline Terminals/DESKCONs per system.	
CM90	Assign the 911 Notification key.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) For Multiline Terminal: My Line No. + [ ] + Key No. For DESKCON: DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) For Multiline Terminal: F5025: Emergency Notification For DESKCON: F6124: Emergency Notification <b>NOTE</b></li> </ul>
		<b>NOTE:</b> Do not assign this data to the Multi-Function keys.
A		



	DESCRIPTION	DATA
A		
CM90	To allow a station/attendant to interrupt the 911 call, assign the Executive Override/Busy Verification key on the Multiline Terminal/DESKCON.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) For Multiline Terminal: My Line No. + [ ] + Key No. For DESKCON: DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) For Multiline Terminal: F0006: Executive Override For DESKCON: F6107: Busy Verification</li> </ul>
CM08	Specify whether to stop the 911 Notification on Multiline Terminal/DESKCON when the 911 call is finished. <b>[9300V5 software required]</b>	<ul style="list-style-type: none"> <li>(1) 1413</li> <li>(2) 0 : To stop 1◀: To continue (30 sec.)</li> </ul>
CM30	To display the local office code on the Multiline Terminal/DESKCON when the 911 call is made in tandem connection, assign the local office code to the incoming trunk.	<ul style="list-style-type: none"> <li>• Y=19</li> <li>(1) 000-511: Trunk No.</li> <li>(2) XXXX: Trunk ID Code (Local Office Code)</li> </ul>
END		

To provide 911 Notification per location:

START	DESCRIPTION	DATA
CM8A	Assign an Area Code Development Pattern number to each LCR Group.	<ul style="list-style-type: none"> <li>• Y=A000</li> <li>(1) 0-2: LCR Group 0-2</li> <li>(2) 4005-4007: Area Code Development Pattern No. 5-7</li> </ul>
A		

A	DESCRIPTION	DATA
CM8A	<p>Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.</p> <p>Provide 911 Notification on the Multiline Terminal/DESKCON.</p>	<ul style="list-style-type: none"> <li>• Y=4005-4007 Area Code Development Pattern No. 5-7</li> <li>(1) X...X: Area Code, Maximum 8 digits</li> <li>(2) 0000-0255: Route Pattern No. 000-255</li> </ul> <ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 166: Emergency Notification on Multiline Terminal/DESKCON</li> <li>(2) 0: To provide</li> </ul>
CM0B	<p>Assign the location number for station/VoIPDB (calling station).</p> <p><b>NOTE:</b> <i>This data is effective when the location number is not assigned by CM12 Y=39, 50.</i></p>	<ul style="list-style-type: none"> <li>• Y=1XX (VOIP Port [1] + Unit No. [01-50])</li> <li>(1) 10</li> <li>(2) 00-63: Location No. 00-63 for calling station</li> </ul>
CM12	<p>Assign the location number of IP Station for local connection.</p> <p>Assign the location number of IP Station for Remote Connection, if required.</p>	<ul style="list-style-type: none"> <li>• Y=39</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 00-63 : Location No. 00-63 for calling station NONE◀: Location No. 00</li> </ul> <ul style="list-style-type: none"> <li>• Y=50</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 00-63 : Location No. 00-63 for calling station NONE◀: Location No. 00</li> </ul>
CM67	<p>Assign the destination Multiline Terminal/DESKCON of 911 Notification.</p> <p><b>NOTE:</b> <i>911 Notification can be provided on the maximum two Multiline Terminals/DESKCONs per location.</i></p>	<ul style="list-style-type: none"> <li>• Y=32</li> <li>(1) 00-63: Location No. 00-63 assigned by CM0B Y=1XX&gt;10/CM12 Y=39/50</li> <li>(2) X-XXXXXXXXX: Station No. E000-E007: ATTCO No. 0-7</li> </ul> <ul style="list-style-type: none"> <li>• Y=33</li> <li>(1) 00-63: Location No. 00-63 assigned by CM0B Y=1XX&gt;10/CM12 Y=39/50</li> <li>(2) X-XXXXXXXXX: Station No. E000-E007: ATTCO No. 0-7</li> </ul>
B		

B	DESCRIPTION	DATA
CM90	Assign the 911 Notification key.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) For Multiline Terminal: My Line No. + [ ] + Key No. For DESKCON: DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) For Multiline Terminal: F5025: Emergency Notification For DESKCON: F6124: Emergency Notification <b>NOTE</b></li> </ul>
	To allow a station/attendant to interrupt the 911 call, assign the Executive Override/Busy Verification key on the Multiline Terminal/DESKCON.	<p><b>NOTE:</b> Do not assign this data to the Multi-Function keys.</p> <ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) For Multiline Terminal: My Line No. + [ ] + Key No. For DESKCON: DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) For Multiline Terminal: F0006: Executive Override For DESKCON: F6107: Busy Verification</li> </ul>
CM08	Specify whether to stop the 911 Notification to each location of Multiline Terminal/DESKCON assigned by CM67 Y=32/33 when the 911 call is finished. <b>[9300V5 software required]</b>	<ul style="list-style-type: none"> <li>(1) 1413</li> <li>(2) 0 : To stop 1◀: To continue (30 sec.)</li> </ul>
CM30	To display the local office code on the Multiline Terminal/DESKCON when the 911 call is made in tandem connection, assign the local office code to the incoming trunk.	<ul style="list-style-type: none"> <li>• Y=19</li> <li>(1) 000-511: Trunk No.</li> <li>(2) XXXX: Trunk ID Code (Local Office Code)</li> </ul>
<u>END</u>		

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## *EXECUTIVE CALLING*

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### PROGRAMMING

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
CM13	Provide VIP class for Executive calling feature to the required stations.	<ul style="list-style-type: none"><li>• Y=21</li><li>(1) X-XXXXXXXX: Station No.</li><li>(2) 0: To provide</li></ul>
<u>END</u>		

# EXECUTIVE OVERRIDE

## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Executive Override in Service Restriction Class A assigned by CM12 Y=02.  <b>NOTE:</b> <i>The setting of data for both called side and calling side of Executive Override (CM15 Y=005 and CM15 Y=009) are required.</i>	<ul style="list-style-type: none"> <li>Y=005 Calling Side</li> <li>Y=009 Called Side</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Executive Override.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A006: Executive Override</li> </ul>
CM90	Assign an Executive Override key to the Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0006: Executive Override</li> </ul>
CM08	Specify the Waiting Tone sent to connected parties during Executive Override.  Specify whether the Warning Tone is sent to C.O. line, when a station overrides a busy station which is connected to a C.O. line.  <b>NOTE:</b> <i>Set this data when using the Executive Override feature, if necessary.</i>	<ul style="list-style-type: none"> <li>(1) 045</li> <li>(2) 0 : Only once 1◀: Every 4 seconds</li> <li>(1) 076</li> <li>(2) 0 : To send 1◀: Not send</li> </ul>
END		

# EXTERNAL PAGING WITH MEET-ME

## PROGRAMMING

START	DESCRIPTION	DATA
CM05	<p>Assign a Unit and Slot number to the DLC blade.</p> <p style="text-align: center;"><b>BLADE RESET</b></p> <p><b>NOTE:</b> <i>When the PGD(2)-U10 ADP is accommodated to the Remote Unit, execute the system data copy by CMEC Y=8 before executing the blade reset.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
CM10	<p>Assign the station number connected to PGD(2)-U10 ADP to its associated Physical Port number.</p> <p style="text-align: center;"><b>BLADE RESET</b></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-16: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
CM13	<p>For the station connected to PGD(2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.</p> <p>For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a station call.</p> <p>For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.</p> <p>For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a trunk call.</p> <p>For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.</p>	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> </ul> <ul style="list-style-type: none"> <li>• Y=41</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul> <ul style="list-style-type: none"> <li>• Y=49</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul> <ul style="list-style-type: none"> <li>• Y=60</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul> <ul style="list-style-type: none"> <li>• Y=61</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
A		

A	DESCRIPTION	DATA
CM13	Allow the accommodation of PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=63</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To accommodate</li> </ul>
	<b>BLADE RESET</b>	
	<b>NOTE 1:</b> Set this data only for a Base Port No. (Circuit No. 01) of DLC blade.	
	<b>NOTE 2:</b> Whether the following equipment can be accommodated to the same DLC blade or not depends on this data.	
	- When the second data is set to "0"	
	Accommodatable : DT300/DT400/DT500/D <sup>term</sup> 85/PGD(2)-U10 ADP	
	Unaccommodatable: DESKCON	
	- When the second data is set to "1"	
	Accommodatable : DT300/DT400/DT500/D <sup>term</sup> 85/DESKCON	
	Unaccommodatable: PGD(2)-U10 ADP	
	<b>NOTE 3:</b> When the second data is set to 0, and accommodating DT300/DT400 series DESI-less to the same DLC blade to which PGD(2)-U10 ADP is accommodated, the Line Key of the DT300/DT400 series DESI-less does not light up (however, Character Display or Icon Display on the DESI-less screen is provided).	
CM12	Assign the kind of PGD(2)-U10 station (CH1) for Paging.	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Paging</li> </ul>
	<b>NOTE:</b> After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.	
	Assign the kind of paging to the PGD(2)-U10 station (CH1).	<ul style="list-style-type: none"> <li>• Y=67</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Calling only (not using paging answer)</li> <li>1 : Non-delay answer</li> <li>2 : Non-delay and delay answer</li> <li>3◀: Ordinary station</li> </ul>
	<b>NOTE:</b> This data is valid when 2nd data: 1 (Paging) is assigned in CM12 Y=65.	
	Specify the Paging Zone to the PGD(2)-U10 station (CH1).	<ul style="list-style-type: none"> <li>• Y=68</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-09 : Paging Zone No. assigned by CM20 Y=0-3: A070-A079</li> <li>NONE◀: No data</li> </ul>
	<b>NOTE:</b> This data is valid when 2nd data: 1 (Paging) is assigned in CM12 Y=65.	
B		

B	DESCRIPTION	DATA
CM08	Specify whether the SST is sent to a paging trunk when a speaker paging is seized.	(1) 732 (2) 0 : To send 1◀: Not sent
	Specify whether to provide the Paging Answer by PGD(2)-U10 Station Dialing (only in the case of Delay and Non-delay answer).	(1) 157 (2) 0 : To provide 1◀: Not provided
	<p><b>NOTE:</b> <i>The Paging Answer by the following methods is applied depending on the setting of this command.</i></p> <ul style="list-style-type: none"> <li>- <i>When the second data is set to "0": PGD(2)-U10 station number assigned by CM10 Y=00.</i></li> <li>- <i>When the second data is set to "1": Paging Zone 0-9 assigned by CM20 Y=0-3: A070-A079.</i></li> </ul>	
CM20	Assign the access code for Paging Answer.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A070-A079: For Paging Answer (Zone 0-9)
CM44	Assign the paging function to the PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) XX Y XX: 00-31: Relay Group No. Y : 0-3: Circuit No. of PGD(2)-U10 ADP (2) 02XX: Speaker Paging Start XX : 00-09: Speaker Paging Zone 0-9
	Associate the PGD(2)-U10 station number with the Relay Group number.	<ul style="list-style-type: none"> <li>• Y=01</li> </ul> (1) 00-31: Relay Group No. (2) X-XXXXXXXX: PGD(2)-U10 Station No. NONE◀ : No data
CM12	Assign Service Restriction Class A for Paging Access to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
C		



C	DESCRIPTION	DATA
CM15	Allow Paging Access in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=08</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM35	Allow Paging Access from trunk.	<ul style="list-style-type: none"> <li>• Y=302</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Allow</li> </ul>
CM41	Assign the forced release timer when the Paging Trunk is not released after seizing the trunk.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 120</li> <li>(2) 00-99: 0-396 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 180 seconds.</p>
	<b>NOTE:</b> <i>If the 2nd data is set to 00, forced release is not performed.</i>	
	Assign the time to start the Chime for Speaker Paging.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 212</li> <li>(2) 01-20 : 1-20 seconds (1 second increment)</li> <li>NONE◀: Immediate start</li> </ul>
	<b>NOTE:</b> <i>In a normal operation, leave this command default because this timer does not require any setting change. Depending on the paging equipment, the beginning of a chime sound may not be heard because it takes time from “Calling” to “Answer”. In such cases, make an adjustment using this timer.</i>	
<u>END</u>		

To use the dual port mode, do the following programming (the following programming is not required when using the single port mode).

START	DESCRIPTION	DATA
CM10	<p>Assign the station number connected to PGD(2)-U10 ADP (CH2) to its associated Physical Port number.</p> <p style="text-align: center;"><b>BLADE RESET</b></p> <p><b>NOTE:</b> <i>The setting of the Dual port mode is required when using 2 paging equipment on the PGD(2)-U10 ADP. For details, refer to "Setting Method of Port number/Station number in Dual port mode" in CM10 of the Command Manual.</i></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 17-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
CM13	<p>For the station connected to PGD(2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.</p> <p>For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a station call.</p> <p>For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.</p> <p>For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when answering a trunk call.</p> <p>For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.</p>	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> <li>• Y=41</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> <li>• Y=49</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> <li>• Y=60</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> <li>• Y=61</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
A		

A	DESCRIPTION	DATA
CM12	Assign the kind of PGD(2)-U10 station (CH2) for Paging.	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Paging</li> </ul>
	<b>NOTE:</b> <i>After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</i>	
	Assign the kind of paging to the PGD(2)-U10 station (CH2).	<ul style="list-style-type: none"> <li>• Y=67</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Calling only (not using paging answer)</li> <li>1 : Non-delay answer</li> <li>2 : Non-delay and delay answer</li> <li>3◀: Ordinary station</li> </ul>
	<b>NOTE:</b> <i>This data is valid when 2nd data: 1 (Paging) is assigned in CM12 Y=65.</i>	
	Specify the Paging Zone to the PGD(2)-U10 station (CH2).	<ul style="list-style-type: none"> <li>• Y=68</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-09 : Paging Zone No. assigned by CM20 Y=0-3: A070-A079</li> <li>NONE◀: No data</li> </ul>
	<b>NOTE:</b> <i>This data is valid when 2nd data: 1 (Paging) is assigned in CM12 Y=65.</i>	
CM20	Assign the access code for Paging Answer.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A070-A079: For Paging Answer (Zone 0-9)</li> </ul>
CM44	Assign the paging function to the PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX Y XX: 00-31: Relay Group No. Y : 0-3: Circuit No. of PGD(2)-U10 ADP</li> <li>(2) 02XX: Speaker Paging Start XX : 00-09: Speaker Paging Zone 0-9</li> </ul>
	Associate the PGD(2)-U10 station number with the Relay Group number.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 00-31: Relay Group No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No. NONE◀ : No data</li> </ul>
B		

B	DESCRIPTION	DATA
CM13	Provide the connection with Dual port mode to the PGD(2)-U10 ADP (CH1).	<ul style="list-style-type: none"> <li>• Y=32</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 0: To connect</li> </ul>
	Assign the port mode of the PGD(2)-U10 ADP (CH1) to Dual port mode.	<ul style="list-style-type: none"> <li>• Y=33</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 0: Dual port mode</li> </ul>
	<b>BLADE RESET</b>	
	Assign the station connected to Dual port mode of the PGD(2)-U10 ADP (CH2).	<ul style="list-style-type: none"> <li>• Y=34</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 0 : Station connected to Dual port mode of the PGD(2)-U10 ADP</li> <li>1 ◀: Station not connected to the PGD(2)-U10 ADP</li> </ul>
<u>END</u>		

■ Setting Example

- Only when using the single port mode
- \* PGD(2)-U10 station number (CH1) shall be “350”.

CM	Y No.	1 ST DATA	2ND DATA	REMARKS
05	0	0101	10	DLC blade accommodation setting.
10	00	010101	F350	Assign the PGD(2)-U10 station number to “350”.
13	03	350	1	Set the Message Waiting/Stored Call Record lamps not to be lit.
13	41	350	1	Set the call history not to be stored when answering a station call.
13	49	350	1	Set the call history not to be stored when handling an unanswered station call.
13	60	350	1	Set the call history not to be stored when answering a trunk call.
13	61	350	1	Set the call history not to be stored when handling an unanswered trunk call.
13	63	350	0	Allow the accommodation of PGD(2)-U10 ADP. <b>NOTE:</b> <i>Set this data only for a Base Port of DLC blade.</i>
12	65	350	1	Assign the kind of PGD(2)-U10 station to “Paging”.
12	68	350	00	Assign the Paging Zone No. to “00”.
44	00	000	0200	Assign the Speaker Paging Zone 0.
44	01	00	350	Assign the PGD(2)-U10 station number to Relay Group number.
08	-	732	0	Set the SST to paging trunk.
E0	3	0101	0101	DLC blade reset.
• When not using the Paging Answer				
12	67	350	0	Assign the kind of paging to “Calling only”.
20	0	3	803	Assign the Access Code for Paging.

Continued on next page

CM	Y No.	1 ST DATA	2ND DATA	REMARKS
• When using the Paging Answer				
12	67	350	1/2	Assign the kind of paging to “Non-delay answer” or “Non-delay and delay answer”.
08	-	157	0/1	Specify whether provide the Paging Answer by dialing PGD(2)-U10 station number.
20	0	3	803	Assign the Access Code for Paging. <b>NOTE:</b> <i>This Access Code is used for Paging/Paging Answer when providing the Paging Answer with PGD(2)-U10 station number (CM08&gt;157: 0).</i>
20	0	XX <b>NOTE 2</b>	A070	Assign the Access Code for Paging Answer (Paging Zone 0). <b>NOTE 1:</b> <i>Assign this data when not providing the Paging Answer with PGD(2)-U10 station number (CM08&gt;157: 1).</i> <b>NOTE 2:</b> <i>Assign an arbitrary number for the first data.</i>

- When using the single port mode and dual port mode
  - \* PGD(2)-U10 station number (CH1) shall be “350” (CH1) and “370” (CH2).

CM	Y No.	1 ST DATA	2ND DATA	REMARKS
Setting for “350” (CH1)				
05	0	0101	10	DLC blade accommodation setting.
10	00	010101	F350	Assign the PGD(2)-U10 station number (CH1) to “350”.
13	03	350	1	Set the Message Waiting/Stored Call Record lamps not to be lit.
13	41	350	1	Set the call history not to be stored when answering a station call.
13	49	350	1	Set the call history not to be stored when handling an unanswered station call.
13	60	350	1	Set the call history not to be stored when answering a trunk call.
13	61	350	1	Set the call history not to be stored when handling an unanswered trunk call.
13	63	350	0	Allow the accommodation of PGD(2)-U10 ADP. <b>NOTE:</b> <i>Set this data only for a Base Port of DLC blade.</i>
12	65	350	1	Assign the kind of PGD(2)-U10 station (CH1) to “Paging”.
12	68	350	00	Assign the Paging Zone No. to “00”.
44	00	000	0200	Assign the Speaker Paging Zone 0.
44	01	00	350	Assign the PGD(2)-U10 station number to Relay Group number.
08	-	732	0	Set the SST to paging trunk.
E0	3	0101	0101	DLC blade reset.

Continued on next page

CM	Y No.	1 ST DATA	2ND DATA	REMARKS
• When not using the Paging Answer				
12	67	350	0	Assign the kind of paging to “Calling only”.
20	0	3	803	Assign the Access Code for Paging.
• When using the Paging Answer				
12	67	350	1/2	Assign the kind of paging to “Non-delay answer” or “Non-delay and delay answer”.
08	-	157	0/1	Specify whether provide the Paging Answer by dialing PGD(2)-U10 station number.
20	0	3	803	Assign the Access Code for Paging. <b>NOTE:</b> <i>This Access Code is used for Paging/Paging Answer when providing the Paging Answer with PGD(2)-U10 station number (CM08&gt;157: 0).</i>
20	0	XX <b>NOTE 2</b>	A070	Assign the Access Code for Paging Answer (Paging Zone 0). <b>NOTE 1:</b> <i>Assign this data when not providing the Paging Answer with PGD(2)-U10 station number (CM08&gt;157: 1).</i> <b>NOTE 2:</b> <i>Assign an arbitrary number for the first data.</i>

Continued on next page



CM	Y No.	1 ST DATA	2ND DATA	REMARKS
Setting for "370" (CH2)				
10	00	010117	F370	Assign the PGD(2)-U10 station number (CH2) to "370".
13	03	370	1	Set the Message Waiting/Stored Call Record lamps not to be lit.
13	41	370	1	Set the call history not to be stored when answering a station call.
13	49	370	1	Set the call history not to be stored when handling an unanswered station call.
13	60	370	1	Set the call history not to be stored when answering a trunk call.
13	61	370	1	Set the call history not to be stored when handling an unanswered trunk call.
12	65	370	1	Assign the kind of PGD(2)-U10 station (CH2) to "Paging".
12	68	370	01	Assign the Paging Zone No. to "01".
44	00	011	0201	Assign the Speaker Paging Zone 1.
44	01	01	370	Assign the PGD(2)-U10 station number to Relay Group number.
13	32	350	0	Provide the connection with dual port mode to the PGD(2)-U10 station number (CH1).
13	33	350	0	Assign the port mode of the PGD(2)-U10 station number (CH1) to dual port mode.
13	34	370	0	Set the PGD(2)-U10 station number (CH2) as the station connected to the PGD(2)-U10 ADP.
E0	3	0101	0101	DLC blade reset.
• When not using the Paging Answer				
12	67	370	0	Assign the kind of paging to "Calling only".
20	0	3	803	Assign the Access Code for Paging.

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CM	Y No.	1 ST DATA	2ND DATA	REMARKS
• When using the Paging Answer				
12	67	370	1/2	Assign the kind of paging to “Non-delay answer” or “Non-delay and delay answer”.
20	0	3	803	Assign the Access Code for Paging. <b>NOTE:</b> <i>This Access Code is used for Paging/Paging Answer when providing the Paging Answer with PGD(2)-U10 station number (CM08&gt;157: 0).</i>
20	0	XX <b>NOTE 2</b>	A071	Assign the Access Code for Paging Answer (Paging Zone 1). <b>NOTE 1:</b> <i>Assign this data when not providing the Paging Answer with PGD(2)-U10 station number (CM08&gt;157: 1).</i> <b>NOTE 2:</b> <i>Assign an arbitrary number for the first data.</i>

To use the relay circuit with an amplifier (Multiple Zone Relay), do the following programming.

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the DLC blade. <div style="text-align: center; border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin: 10px auto;">BLADE RESET</div> <p><b>NOTE:</b> <i>When the PGD(2)-U10 ADP is accommodated to the Remote Unit, execute the system data copy by CMEC Y=8 before executing the blade reset.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
CM10	Assign the station number connected to PGD(2)-U10 ADP to its associated Physical Port number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-16: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
CM13	For the station connected to PGD(2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.  For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a station call.  For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.  For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a trunk call.  For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> <li>• Y=41</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> <li>• Y=49</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> <li>• Y=60</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> <li>• Y=61</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
A		

A	DESCRIPTION	DATA
CM13	Allow the accommodation of PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=63</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To accommodate</li> <li>1◀: Not accommodated</li> </ul>
	<b>BLADE RESET</b>	
	<b>NOTE 1:</b> Set this data only for a Base Port No. (Circuit No. 01) of DLC blade.	
	<b>NOTE 2:</b> Whether the following equipment can be accommodated to the same DLC blade or not depends on this data.	
	<ul style="list-style-type: none"> <li>- When the second data is set to "0"</li> <li>Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/PGD(2)-U10 ADP</li> <li>Unaccommodatable: DESKCON</li> </ul>	
	<ul style="list-style-type: none"> <li>- When the second data is set to "1"</li> <li>Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/DESKCON</li> </ul>	
	<b>NOTE 3:</b> When the second data is set to 0, and accommodating DT300/DT400 series DESI-less to the same DLC blade to which PGD(2)-U10 ADP is accommodated, the Line Key of the DT300/DT400 series DESI-less does not light up (however, Character Display or Icon Display on the DESI-less screen is provided).	
CM11	Assign the Virtual Line station number to the required Port number.	<ul style="list-style-type: none"> <li>(1) 0000-0999: Virtual Port No.</li> <li>(2) X-XXXXXXXX: Virtual Line Station No.</li> </ul>
CM44	Assign the paging function to the PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX Y</li> <li>XX: 00-31: Relay Group No.</li> <li>Y : 0-3: Circuit No. of PGD(2)-U10 ADP</li> <li>(2) 02XX: Speaker Paging Start</li> <li>XX : 00-09: Speaker Paging Zone 0-9</li> </ul>
	Associate the PGD(2)-U10 station number with the Relay Group number.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 00-31: Relay Group No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No.</li> <li>NONE◀ : No data</li> </ul>
CM12	Assign the PGD(2)-U10 Station number to control the relay specified by an intervening Virtual Line Station.	<ul style="list-style-type: none"> <li>• Y=71</li> <li>(1) X-XXXXXXXX: Virtual Line Station No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No.</li> <li>NONE◀ : No data</li> </ul>
B		

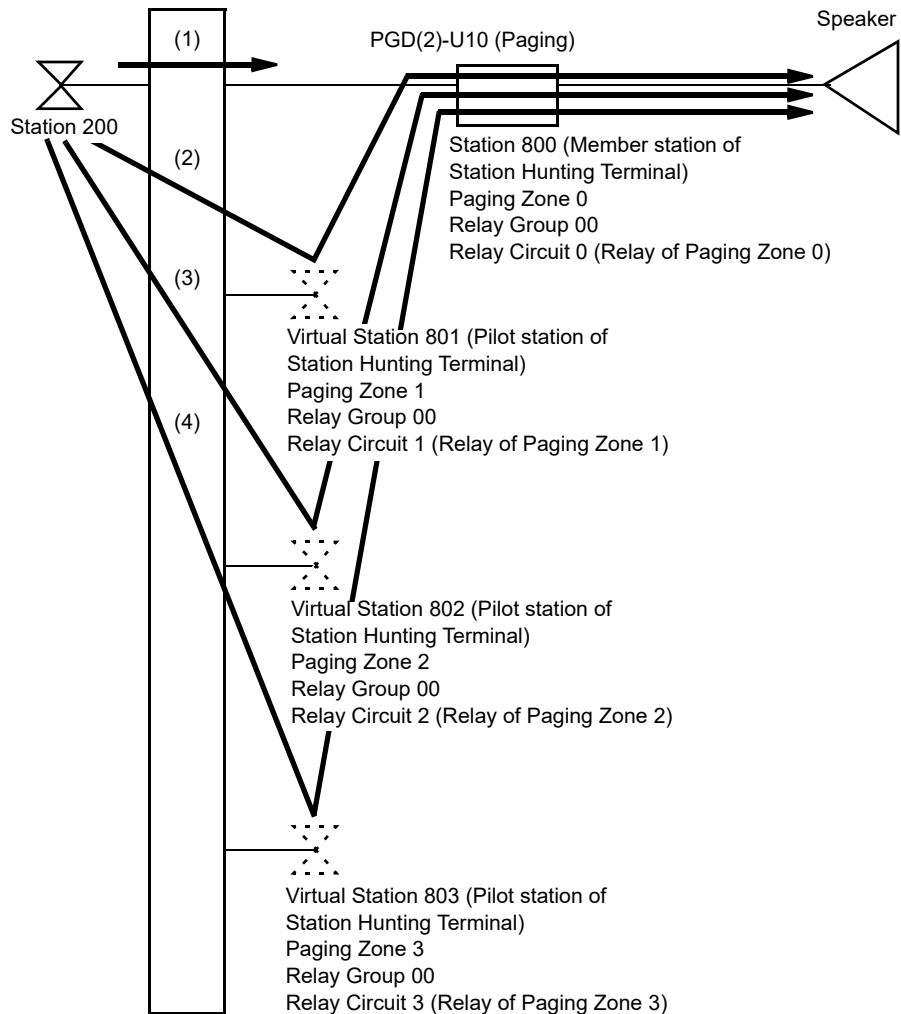
B	DESCRIPTION	DATA
CM08	<p>Assign the relay when using a Paging on Call Forwarding.</p> <p><b>NOTE:</b> <i>This data is effective only when the intervening station is a Virtual Line Station.</i></p>	<p>(1) 898</p> <p>(2) 0 : To operate the relay specified by the intervening station</p> <p>1◀: To operate the relay of the PGD(2)-U10 Station (to use a Paging)</p>
CM18	<p>Assign the station numbers included in the station hunting group, one by one, as shown below.</p> <p><u>Station Hunting-Terminal</u> 1st Operation : (1) Station A (2) Station B 2nd Operation: (1) Station B (2) Station C</p> <p><u>Station Hunting-Circular</u> 1st Operation : (1) Station A (2) Station B 2nd Operation: (1) Station B (2) Station C 3rd Operation : (1) Station C (2) Station A</p> <p>Specify the kind of station included in the station hunting group.</p>	<p>• Y=0</p> <p>(1) X-XXXXXXXX: Station No. assigned by CM11</p> <p>(2) X-XXXXXXXX: Station No. assigned by CM11</p> <p>• Y=1</p> <p>(1) X-XXXXXXXX: Station No. assigned by CM11</p> <p>(2) 0 : Member station of Station Hunting-Terminal</p> <p>1◀: Pilot station of Station Hunting-Terminal, all stations of Station Hunting-Circular</p>
CME5	Set make-busy to the Virtual Line Station.	<p>(1) Y=0</p> <p>(2) X-XXXXXXXX: Virtual Line Station No.</p> <p>0 : Make-busy set</p> <p>1◀: Make-busy cancel</p>
C		

C	DESCRIPTION	DATA
CM12	<p>Assign the kind of PGD(2)-U10 station.</p> <p><b>NOTE:</b> <i>After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</i></p> <p>Assign the kind of paging to the PGD(2)-U10 station.</p> <p><b>NOTE:</b> <i>This data is valid when 2nd data: 1 (Paging) is assigned in CM12 Y=65.</i></p> <p>Specify the Paging Zone to the PGD(2)-U10 station.</p> <p><b>NOTE:</b> <i>This data is valid when 2nd data: 1 (Paging) is assigned in CM12 Y=65.</i></p>	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Paging 3: External relay/External key only</li> </ul> <ul style="list-style-type: none"> <li>• Y=67</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Calling only (not using paging answer) 1 : Non-delay answer 2 : Non-delay and delay answer 3◀: Ordinary station</li> </ul> <ul style="list-style-type: none"> <li>• Y=68</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-09 : Paging Zone No. assigned by CM20 Y=0-3: A070-A079 NONE◀: No data</li> </ul>
CM08	<p>Specify whether the SST is sent to a paging trunk when a speaker paging is seized.</p> <p>Specify whether provide the Paging Answer by PGD(2)-U10 Station Dialing (only in the case of Delay and Non-delay answer).</p>	<ul style="list-style-type: none"> <li>(1) 732</li> <li>(2) 0 : To send 1◀: Not sent</li> </ul> <ul style="list-style-type: none"> <li>(1) 157</li> <li>(2) 0 : To provide 1◀: Not provided</li> </ul>
CM20	<p>Assign the access code for Paging Access and Answer.</p>	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A070-A079: For Paging Answer (Zone 0-9)</li> </ul>
END		

### ■ Setting Example

Connect one PGD(2)-U10 to use each connection as the “Paging” and “Relay Circuit” and specify the relay circuit using the Station Hunting feature.

The setting example is as follows.



- (1) If dialing to Station 800 from Station 200, the Relay Circuit 0 (Paging Zone 0) of Station 800 functions.
- (2) If dialing to Virtual Station 801 from Station 200, the Relay Circuit 1 (Paging Zone 1) of Station 800 functions.
- (3) If dialing to Virtual Station 802 from Station 200, the Relay Circuit 2 (Paging Zone 2) of Station 800 functions.
- (4) If dialing to Virtual Station 803 from Station 200, the Relay Circuit 3 (Paging Zone 3) of Station 800 functions.

<b>CM</b>	<b>Y No.</b>	<b>1 ST DATA</b>	<b>2ND DATA</b>	<b>REMARKS</b>
05	0	0101	10	DLC blade accommodation setting.
10	00	010101	F800	Assign the PGD(2)-U10 station number to "800".
13	03	800	1	Set the Message Waiting/Stored Call Record lamps not to be lit.
13	41	800	1	Set the call history not to be stored when answering a station call.
13	49	800	1	Set the call history not to be stored when handling an unanswered station call.
13	60	800	1	Set the call history not to be stored when answering a trunk call.
13	61	800	1	Set the call history not to be stored when handling an unanswered trunk call.
13	63	800	0	Allow the accommodation of PGD(2)-U10 ADP.
E0	3	0101	0101	DLC blade reset.
12	65	800	1	Assign the kind of PGD(2)-U10 station number 800 to "Paging".
12	67	800	0	Assign the kind of paging of PGD(2)-U10 station number 800 to "Calling only".
12	68	800	00	Assign the PGD(2)-U10 station number 800 to "Paging Zone 0".
12	68	801	01	Assign the Virtual station number 801 to the Paging Zone 1.
12	68	802	02	Assign the Virtual station number 802 to the Paging Zone 2.
12	68	803	03	Assign the Virtual station number 803 to the Paging Zone 3.
11	–	0001	801	Assign the Virtual station number 801.
11	–	0002	802	Assign the Virtual station number 802.

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<b>CM</b>	<b>Y No.</b>	<b>1 ST DATA</b>	<b>2ND DATA</b>	<b>REMARKS</b>
11	–	0003	803	Assign the Virtual station number 803.
44	01	00	800	Assign the PGD(2)-U10 station number 800 to the Relay Group number 00.
44	00	000	0200	Assign the Paging Zone 0 to the Circuit number 0 of the Relay Group number 00.
44	00	001	0201	Assign the Paging Zone 1 to the Circuit number 1 of the Relay Group number 00.
44	00	002	0202	Assign the Paging Zone 2 to the Circuit number 2 of the Relay Group number 00.
44	00	003	0203	Assign the Paging Zone 3 to the Circuit number 3 of the Relay Group number 00.
12	71	801	800	Assign to use the relay of the PGD(2)-U10 station number 800 to the Virtual station number 801.
12	71	802	800	Assign to use the relay of the PGD(2)-U10 station number 800 to the Virtual station number 802.
12	71	803	800	Assign to use the relay of the PGD(2)-U10 station number 800 to the Virtual station number 803.
08	–	898	0	Set to operate the relay assigned to the intervening station.
18	0	801	800	Assign the Station Hunting Group.
18	0	802	800	Assign the Station Hunting Group.
18	0	803	800	Assign the Station Hunting Group.
18	1	800	0	Set the Member station of Station Hunting-Terminal to the PGD(2)-U10 station number 800.
18	1	801	1	Set the Pilot station of Station Hunting-Terminal to the Virtual station number 801.

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<b>CM</b>	<b>Y No.</b>	<b>1 ST DATA</b>	<b>2ND DATA</b>	<b>REMARKS</b>
18	1	802	1	Set the Pilot station of Station Hunting-Terminal to the Virtual station number 802.
18	1	803	1	Set the Pilot station of Station Hunting-Terminal to the Virtual station number 803.
E5	0	801	0	Make busy the Virtual station number 801.
E5	0	802	0	Make busy the Virtual station number 802.
E5	0	803	0	Make busy the Virtual station number 803

## **HARDWARE REQUIRED**

PGD(2)-U10 ADP/External Relay Interface on CPU  
Paging Equipment provided locally

# FAX ARRIVAL INDICATOR

## PROGRAMMING

Hotlines or House Phone feature assignment is used to implement this feature.

The number of facsimile station numbers and facsimile call station numbers that can be assigned varies with each of the following cases.

- When Hotlines-Inside/Outside are used, a maximum of 100 facsimile stations can be assigned. In addition, a maximum of 100 facsimile call stations can be assigned.
- When House Phone groups are used, a maximum of four facsimile stations can be assigned. In addition, there is no limit to the number of facsimile call stations that can be assigned to each facsimile station.

### (1) Hotlines

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the DLC/LC blade.  <div style="border: 1px solid black; border-radius: 15px; padding: 2px 10px; display: inline-block;">BLADE RESET</div>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade 20: LC blade</li> </ul>
CM10	Assign the fax call station number.  <b>NOTE:</b> <i>This number is used as the fax call indicator button on the Multiline Terminal. Also this is the number to which the incoming fax call is directed.</i>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) X-XXXXXXXX : Single Line Station No. FX-FXXXXXXXX: My Line No.</li> </ul>
CM11	Assign a virtual number to be used as a fax call station number. (Similar to CM10 Y=00 above but using a virtual extension instead of a real station number.)	<ul style="list-style-type: none"> <li>(1) 0000-0999: Virtual Port No.</li> <li>(2) X-XXXXXXXX: Virtual Extension No.</li> </ul>
CM13	Assign the function of fax call station to the station or extension assigned above in either CM10 Y=00 or CM11.	<ul style="list-style-type: none"> <li>• Y=29</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Fax call station 1◀: Ordinary station</li> </ul>
A		

A	DESCRIPTION	DATA
CM52	Assign the fax call station and fax station using Hotlines feature.	<ul style="list-style-type: none"> <li>• Y=00-99</li> <li>(1) 0: Fax Call Station (calling side) <b>NOTE1</b></li> <li>(2) X-XXXXXXXX: Station No.</li> </ul>
	<b>NOTE 1:</b> <i>Fax Call Station is the extension to which the call is directed and will be the fax call indicator on the Multiline Terminal.</i>	
	<b>NOTE 2:</b> <i>Fax Station is the actual single line port to be connected to the facsimile machine.</i>	<ul style="list-style-type: none"> <li>(1) 1: Fax Station (called side) <b>NOTE2</b></li> <li>(2) X-XXXXXXXX: Station No.</li> </ul>
CM12	Specify whether to accommodate the fax call station to the Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) X-XXXXXXXX: Fax Call Station No.</li> <li>(2) 0 : Accommodated</li> <li>1 ◀: Not accommodated</li> </ul>
	<b>NOTE:</b> <i>This data setting is required when assigning a single line station as a fax call station number by CM10 Y=00.</i>	
CM90	Assign the fax call station number as the arrival indicator to the Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;">.</span> + key No.</li> <li>(2) X-XXXXXXXX: Fax Call Station No.</li> </ul>
<u>END</u>		

(2) House Phone

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the DLC/LC blade.  <div style="text-align: center; border: 1px solid black; border-radius: 15px; padding: 2px 10px;">BLADE RESET</div>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade 20: LC blade</li> </ul>
CM10	Assign the fax call station number.  <b>NOTE:</b> <i>This number is used as the fax call indicator button on the Multiline Terminal. Also this is the number to which the incoming fax call is directed.</i>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) X-XXXXXXXX : Single Line Station No. FX-FXXXXXXXX: My Line No.</li> </ul>
CM11	Assign a virtual number to be used as a fax call station number. (Similar to CM10 Y=00 above but using a virtual extension instead of a real station number.)	<ul style="list-style-type: none"> <li>(1) 0000-0999: Virtual Port No.</li> <li>(2) X-XXXXXXXX: Virtual Extension No.</li> </ul>
CM13	Assign the function of fax call station to the station or extension assigned above in either CM10 Y=00 or CM11.	<ul style="list-style-type: none"> <li>• Y=29</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Fax call station 1◀: Ordinary station</li> </ul>
CM12	Assign the fax call station numbers to a House Phone group.  Specify whether to accommodate the fax call station to the Multiline Terminal.  <b>NOTE:</b> <i>This data setting is required when assigning a single line station as a fax call station number by CM10 Y=00.</i>	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXX: Fax Call Station No.</li> <li>(2) 00-03: Fax Call Group No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) X-XXXXXXXX: Fax Call Station No.</li> <li>(2) 0 : Accommodated 1◀: Not accommodated</li> </ul>
A		

A	DESCRIPTION	DATA
CM51	Assign fax station using House Phone feature.  <b>NOTE:</b> <i>Fax Station is the actual single line port to be connected to the facsimile machine.</i>	<ul style="list-style-type: none"> <li>• Y=14</li> <li>(1) 00-03: Fax Station <b>NOTE</b></li> <li>(2) X-XXXXXXXX: Station No.</li> </ul>
CM90	Assign the fax call station number as the arrival indicator to the Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + key No.</li> <li>(2) X-XXXXXXXX: Fax Call Station No.</li> </ul>
<u>END</u>		

# ***FLEXIBLE LINE KEY ASSIGNMENT***

## **PROGRAMMING**

For the applicable feature programming on Flexible Line Key, refer to each feature:

- DO NOT DISTURB ☞ [Page 1-346](#)
- HOTLINE-INSIDE/OUTSIDE ☞ [Page 1-431](#)
- INTERCOM ☞ [Page 1-438](#)
- MULTILINE TERMINAL ☞ [Page 1-571](#)
- SAVE AND REPEAT ☞ [Page 1-725](#)
- STATION SPEED DIALING ☞ [Page 1-770](#)
- TRUNK-DIRECT APPEARANCES ☞ [Page 1-829](#)

To indicate the busy/idle status of the extensions accommodated to the Flexible Line Keys on a Terminal without the One Touch Speed Dial Keys, assign the following data. Station Speed Dialing memory and One Touch Key memory assignment are used to implement this feature.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15☛: Service Restriction Class A</li> </ul>
CM15	Allow Station Speed Dialing in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=007</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1☛: Allow</li> </ul>
CM73	Specify the usage of Speed Dialing memory for each 1000-Slot Memory Block.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00-99: 1000-Slot Memory Block No.</li> <li>(2) 0 : System Speed Dialing (for individual tenants)</li> <li>1 : System Speed Dialing (for all tenants) (Up to 10 blocks)</li> <li>NONE☛: Station Speed Dialing/One-touch Memory</li> </ul>
A		

A

CM73

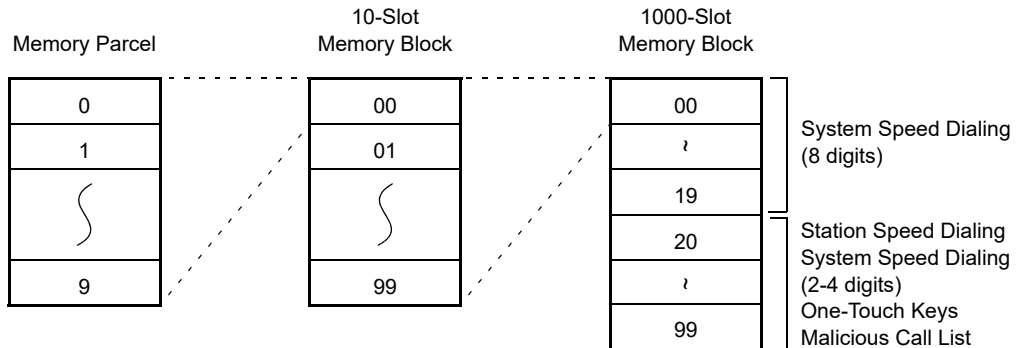
**DESCRIPTION**

Allocate a memory area for Station Speed Dialing to each station when using Speed Dialing.

**DATA**

- Y=1
- (1) X-XXXXXXXX: Station No.
- (2) WW XX YYY Z
  - WW : 00-99: 1000-Slot Memory Block No.
  - XX : 00-99: 10-Slot Memory Start Block No.
  - YYY : 001-100: Number of 10-Slot Memory Blocks
  - Z : Facility for programming for the dialed No. from the station:
    - 0: Allowed
    - 1: Not allowed
- NONE◀: No data

- The relation among memory areas  
 The memory area for storing one called number of Station Speed Dialing is called a “Memory Parcel”.  
 An assembly of 10 Memory Parcels is called a “10-Slot Memory Block,” and one hundred 10-Slot Memory Blocks are called a “1000-Slot Memory Block”.



**NOTE:** 1000-Slot Memory Block number 04-19 (16000 Memory Parcels) cannot be used to provide BLF function on Multiline Terminal line key.

B



B

CM73

**DESCRIPTION**

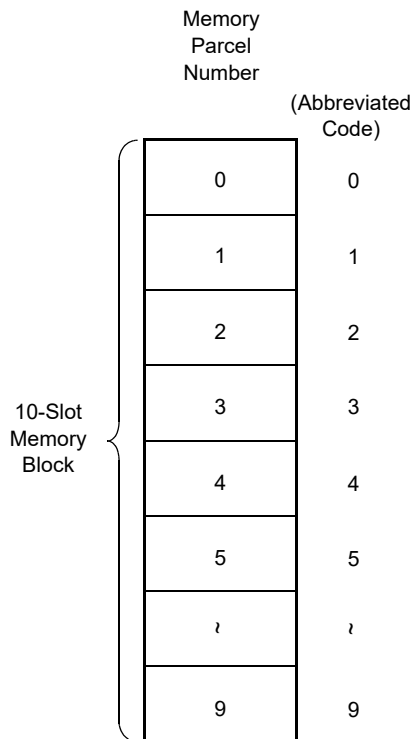
**DATA**

- How to assign a 10-Slot Memory Start Block No.  
**Example:** If the desired number of Speed Dialing numbers is 10 for Station No. 300, 20 for Station No. 301, 30 for Station No. 302 and 10 for Station No. 303, respectively, assign the memory areas as below.

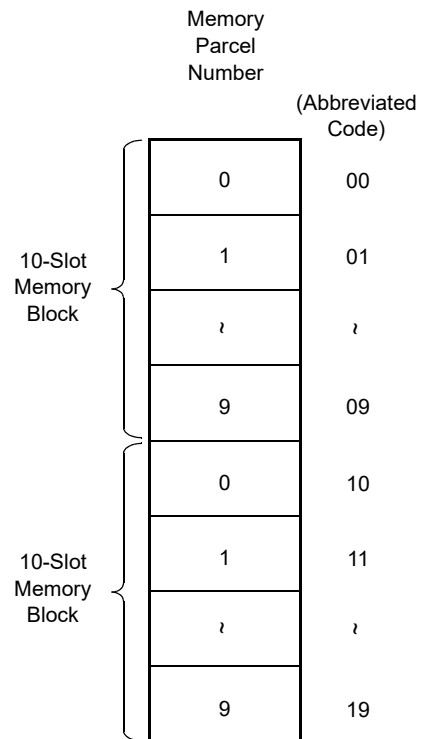
Station No.	1000-Slot Memory Block No.	10-Slot Memory Start Block No.	Number of 10-Slot Memory Block
300	00	00	1
301	00	01	2
302	00	03	3
303	00	06	1

- About abbreviated codes  
 The abbreviated codes for this feature are automatically determined by assigning this command, on a station basis.  
 If the number of Memory Parcels per station does not exceed 10, then Abbreviated Code=0-9.  
 If the number of Memory Parcels per station exceeds 10, then Abbreviated Code=00-99.  
 The following figure shows the relation between Abbreviated Codes and Memory Parcels.

In the case of 10 Memory Parcels



In the case of 20 Memory Parcels



C

C

**DESCRIPTION**

**DATA**

CM94

Allocate the memory area for Station Speed Dialing to each station.  
The same memory area must be assigned on CM73 and CM94, to provide BLF function on Multiline Terminal line key.

**NOTE:** 1000-Slot Memory Block number 04-19 (16000 Memory Parcels) cannot be used to provide BLF function on Multiline Terminal line key.

- (1) X-XXXXXXXX: My Line No.
  - (2) WW XX YYY Z
    - WW : 00-99: 1000-Slot Memory Block No. **NOTE**
    - XX : 00-99: 10-Slot Memory Start Block No.
    - YYY : 001-010: Number of 10-Slot Memory Blocks
    - Z : 0/1: Facility for programming the dialed number from the station Effective/Ineffective
- NONE◀: No data

CM90

Assign Station Speed Dialing keys on each Multiline Terminal.

For the key number and the last two digits of the second data, assign the same number as follows.

1st Data	2nd Data
XXXXXXXX, 01	F1101
XXXXXXXX, 02	F1102
XXXXXXXX, 03	F1103
⋮	⋮
XXXXXXXX, 16	F1116

- Y=00
- (1) My Line No. +   + Key No.
- (2) F11XX
  - XX: 00-99: Station Speed Dialing 00-99

**NOTE 1:** For detail of Multiline Terminal key layout set by CM12 Y=24, refer to the Command Manual.

**NOTE 2:** A station user should set the required extension number to the line key on Multiline Terminal.

CM08

Specify the type of busy indication on the BLF of the Multiline Terminal line key as station base or extension base.

- (1) 269
- (2) 0 : Station base  
1◀: Extension base

END

# FLEXIBLE NUMBERING PLAN

## PROGRAMMING

START	DESCRIPTION	DATA
CM29	Assign a Numbering Plan Group to each Tenant.	<ul style="list-style-type: none"> <li>(1) 00-63: Tenant No.</li> <li>(2) 710-713 : Numbering Plan Group 0-3</li> <li>NONE◀: Numbering Plan Group 0</li> </ul>
CM20	<p>Specify the number of digits for station numbers.</p> <p><b>Example:</b> For setting Station No. "2XXX"</p> <ul style="list-style-type: none"> <li>(1) 2</li> <li>(2) 804</li> </ul> <p><b>NOTE:</b> <i>Maximum of 6 digits station number should be assigned when providing PMS.</i></p>	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X: 1st digit of Station No.</li> <li>(2) 801: 1 digit</li> <li>802: 2 digits</li> <li>803: 3 digits</li> <li>804: 4 digits</li> <li>805: 5 digits</li> <li>806: 6 digits</li> <li>807: 7 digits</li> <li>808: 8 digits</li> </ul>
CM05	<p>Assign a Unit and Slot number to the LC blade.</p> <p style="text-align: center;"><b>BLADE RESET</b></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ</li> <li>XX: 01-50: Unit No.</li> <li>ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> <li>20: LC blade</li> </ul>
CM10	<p>Assign station numbers to the required Physical Port number according to the Numbering Plan specified by CM20. For feature and trunk access codes, refer to the programming of individual features.</p> <p><b>NOTE:</b> <i>When Digital Multiline terminal is assigned by this command, the second data of each office data below is automatically set to "0" (To provide/To store).</i></p> <ul style="list-style-type: none"> <li>- CM13 Y=41: 0 (To store the call record when answering a station call.)</li> <li>- CM13 Y=49: 0 (To store the call record when handling an unanswered call.)</li> <li>- CM13 Y=60: 0 (To store the call record when answering a trunk call.)</li> <li>- CM13 Y=61: 0 (To store the call record when handling an unanswered trunk call)</li> </ul>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No.</li> <li>XX: 01-50: Unit No.</li> <li>YY: 01-18: Slot No.</li> <li>ZZ : 01-32: Circuit No.</li> <li>(2) X-XXXXXXXXX : Station No.</li> <li>FX-FXXXXXXXXX: Digital Multiline Terminal Station No.</li> </ul>
END		

To provide Single-Digit Feature Access Code:

START	DESCRIPTION	DATA
CM08	To activate this feature, set the data for 050, 051, 069 and 148 to "1".	(1) 050: * button as Switch Hook Flash. (2) 1◀: Ineffective
		(1) 051: # button as Switch Hook Flash. (2) 1◀: Ineffective
		(1) 069: Single-Digit Dialing on BT Connection (2) 1◀: Step Call
		(1) 148: Same Last-Digit Redialing on BT Connection (2) 1◀: Ineffective
	Provide the System with the Single-Digit Feature Access Code on RBT (or Voice Call Connection).	(1) 156 (2) 0: Available
	Provide the System with the Single-Digit Feature Access Code on BT Connection.	(1) 208 (2) 0: Available
<u>END</u>		

# FLEXIBLE RINGING ASSIGNMENT

## PROGRAMMING

START	DESCRIPTION	DATA
CM08	Specify the method of tone ringer selection. <span style="border: 1px solid black; border-radius: 15px; padding: 2px;">RESET</span>	(1) 390 (2) 1◀: As per CM15 Y=491, CM35 Y=34, 164
CM12	Assign Service Restriction Class C for the ring tone for Multiline Terminals on internal calls to required stations.	<ul style="list-style-type: none"> <li>• Y=07</li> </ul> (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM15	Specify the Ringer Tone Pattern of the Multiline Terminal for terminating calls from a station.	<ul style="list-style-type: none"> <li>• Y=491</li> </ul> (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 0 : Ringer Tone Pattern 0 1 : Ringer Tone Pattern 1 2 : Ringer Tone Pattern 2 3 : Ringer Tone Pattern 3 4 : Ringer Tone Pattern 4 5 : Ringer Tone Pattern 5 6 : Ringer Tone Pattern 6 7◀: Ringer Tone Pattern 7
CM35	Specify the Ringer Tone Pattern of the Multiline Terminal to each trunk route.	<ul style="list-style-type: none"> <li>• Y=034, 164</li> </ul> (1) 00-63: Trunk Route No. (2) See the table below.

◀: Default

Y=034	Y=164: 0	Y=164: 1◀
0	Ringer Tone Pattern 3	Ringer Tone Pattern 0
1	Ringer Tone Pattern 6	Ringer Tone Pattern 1
2	Ringer Tone Pattern 5	Ringer Tone Pattern 2
3◀	Ringer Tone Pattern 4	Ringer Tone Pattern 7

A

A

CM65

**DESCRIPTION**

**DATA**

Specify the ring frequency of the Multiline Terminal corresponding with the ringer tone pattern number.

- Y=40
- (1) 00-63: Tenant No. assigned by CM30 Y=01/CM12 Y=04
- (2) See the table below.

◀: Default

Ringer Tone Pattern No.	Y=40: 0	Y=40: 1◀
1	Ringer Tone 1	520 + 660 [Hz]/8 [Hz] Modulating Signal
2	Ringer Tone 2	660 + 760 [Hz]/16 [Hz] Modulating Signal
3	Ringer Tone 3	1100 [Hz] Envelop
4	Ringer Tone 4	540 [Hz]
5	Ringer Tone 5	1100 [Hz]
6	Not used	1400 + 1100 [Hz]
7	Not used	520 + 660 [Hz]/16 [Hz] Modulating Signal

**NOTE 1:** When using music ring with DT500/DT900 Series, use CM13 Y=99 and CM64 Y=20-27.

**NOTE 2:** When this data is set or changed, a reset of the terminal is required to reflect the settings of CM64 Y=20-27 for DT500/DT900 Series.

CM64

Specify the ring frequency of DT500/DT900 Series corresponding with the ringer tone pattern number.

**[9300V7 software required]**

- Y=20-27
- (1) 00-63: Tenant No.
- (2) 15 : Music Ring 1 **Note 2**
- 16 : Music Ring 2 **Note 2**
- 17 : Music Ring 3 **Note 2**
- NONE◀ : As per CM65 Y=40

**NOTE 1:** This command is effective only for DT500/DT900 Series. For other Multiline Terminals, use CM65 Y=40.

**NOTE 2:** For music ring unsupported terminals, follow the setting of CM65 Y=40.

**NOTE 3:** A reset of the terminal is required when this data is set or changed for DT500/DT900 Series.

B

B	DESCRIPTION	DATA
CM13	<p>Assign the music ring feature to each station.  <b>[9300V7 software required]</b></p> <p><b>NOTE 1:</b> <i>This command is effective only for DT500/DT900 Series.</i>  <b>NOTE 2:</b> <i>Be sure to set this data to "1" (Not available) for music ring unsupported terminals.</i>  <b>NOTE 3:</b> <i>When music ring is not used, set this data to "1" (Not available) even for music ring supported terminals.</i>  <b>NOTE 4:</b> <i>Music ring can be used regardless of this command when music ring is set by the terminal operation (<b>Feature</b> key + 3) or on a terminal menu.</i></p>	<ul style="list-style-type: none"> <li>• Y=99</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Available  1◀: Not available</li> </ul>
CM12	<p>Assign Service Restriction Class B for Off-Hook Ringing to required stations.</p>	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ  ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	<p>Allow Off-Hook Ringing for incoming calls to Line/Trunk Keys on Multiline Terminals in Service Restriction Class B assigned by CM12 Y=02.</p> <p><b>NOTE:</b> <i>This data is effective in the following status.</i></p> <ul style="list-style-type: none"> <li>• <i>Hook Switch-OFF HOOK</i></li> <li>• <i>SPEAKER Lamp-OFF</i></li> </ul>	<ul style="list-style-type: none"> <li>• Y=068</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
END		

### HARDWARE REQUIRED

Multiline Terminal and DLC blade

To set the ringing tone setting by Day Mode/Night Mode, do the following programming.

START	DESCRIPTION	DATA
CM08	Provide the change the ringing tone depending on Day Mode/Night Mode Change.	(1) 577 (2) 0: To provide
CMEC	Apply Day Mode/Night Mode to all Multiline Terminals.  <b>NOTE 1:</b> <i>This data is effective only when the 2nd data is set to 0.</i>  <b>NOTE 2:</b> <i>This command is executed after CM08&gt;577 is set, or when the station tenant number of My Line is changed by CM12 Y=04.</i>	<ul style="list-style-type: none"> <li>• Y=9</li> <li>(1) 0</li> <li>(2) 0 : Start to apply 1 : Now applying 3◀: Stand by</li> </ul>
CM90	Assign the setting of Multiline Terminal ringing tone by Day Mode/Night Mode.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) My Line No. + <input type="text"/> + Key No. (01-24)</li> <li>(2) 0 : Day Mode: No ringing/Night Mode: Ringing 1 : Day Mode: Ringing/Night Mode: No ringing 2 : Day Mode: No ringing/Night Mode: No ringing 3◀: Day Mode: Ringing/Night Mode: Ringing</li> </ul>
END		



# FORCED ACCOUNT CODE

## PROGRAMMING

START	DESCRIPTION	DATA
CM08	<p>Provide the system with Forced Account Code. If no setting has been performed for OAI, the default setting of this data (2nd data=1 [By OAI]) means the same as 2nd data=0 (By PBX).</p> <p>Specify whether Service Set Tone is provided after dialing the access code for Forced Account Code.</p>	<p>(1) 216 (2) 0: By PBX (Related to CM2A)</p> <p>(1) 362 (2) 0 : No tone 1◀: Service Set Tone</p>
CM12	<p>Assign Service Restriction Class A for Forced Account Code to required stations.</p>	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> <p>(1) X-XXXXXXXX: My Line No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A</p>
CM15	<p>Allow Forced Account Code in Service Restriction Class A assigned by CM12 Y=02.</p> <p>Specify the entry of Forced Account Code after dialing an LCR access code and desired number.</p> <p><b>NOTE:</b> <i>To provide this operation, the following data assignments are required.</i></p> <ul style="list-style-type: none"> <li>- Toll restriction (CM12 Y=01, CM8A Y=5XXX: 000, CM81)</li> <li>- LCR origination (CM20 Y=0-3: A126/A127/A128/ A129, CM8A Y=5XXX: 180, CM85)</li> </ul>	<ul style="list-style-type: none"> <li>• Y=031</li> </ul> <p>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow</p> <ul style="list-style-type: none"> <li>• Y=401</li> </ul> <p>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1 : Allow 7◀: Restricted</p>
CM20	<p>Assign the access code for Forced Account Codes.</p>	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> </ul> <p>(1) X-XXXX: Access Code (2) A087</p>
A		

A	DESCRIPTION	DATA
CM42	Specify the maximum number of digits for Forced Account Code with CPU.	(1) 12 (2) 01-16 : 1-16 digits NONE◀: 10 digits
CM2A	Assign the ID Code Development number for Forced Account Code.	<ul style="list-style-type: none"> <li>• Y=A0</li> <li>(1) 1: Forced Account Code</li> <li>(2) 0-9: ID Code Development No. 00-09</li> </ul>
	Assign the ID Code for Forced Account Code.	<ul style="list-style-type: none"> <li>• Y=00-09 ID Code Development No. 00-09</li> <li>(1) X-XX...XX (Maximum 16 digits): ID Code for Forced Account Code</li> <li>(2) 0000-2999: ID Code Pattern No.</li> </ul>
	Assign the Valid range of ID Code.	<ul style="list-style-type: none"> <li>• Y=10</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 0 : Authorization Code/Forced Account Code/Remote Access to System (DI-SA)</li> <li>1 : Authorization Code/Forced Account Code</li> <li>3◀: Invalidate the ID Code</li> </ul>
	Assign the desired Trunk Restriction Class for each ID Code Pattern number.	<ul style="list-style-type: none"> <li>• Y=11</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 1◀: Unrestricted (RCA)</li> <li>2 : Non-Restricted-1 (RCB)</li> <li>3 : Non-Restricted-2 (RCC)</li> <li>4 : Semi-Restricted-1 (RCD)</li> <li>5 : Semi-Restricted-2 (RCE)</li> <li>6 : Restricted-1 (RCF)</li> <li>7 : Restricted-2 (RCG)</li> <li>8 : Fully-Restricted (RCH)</li> </ul>
B		

B	DESCRIPTION	DATA
CM2A	Assign the desired Service Restriction Class A to each ID Code Pattern number.	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class A</li> </ul>
	Assign the desired Service Restriction Class B to each ID Code Pattern number.	<ul style="list-style-type: none"> <li>• Y=13</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class B</li> </ul>
	Assign the desired Service Restriction Class C to each ID Code.	<ul style="list-style-type: none"> <li>• Y=14</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
<u>END</u>		

**NOTE:** *Approximately 3000 Forced Account Codes including Authorization Codes and DISA codes can be defined.*

*Number of the codes varies with the number of digits assigned to each code. For details, refer to "BUSINESS/HOTEL/DATA FEATURES AND SPECIFICATIONS".*

# GROUP CALL BY PILOT NUMBER DIALING

## PROGRAMMING

START	DESCRIPTION	DATA
CM11	<p>Assign the Virtual Line station number for Group Call Pilot Station to the required Virtual Port number.</p> <p><b>NOTE:</b> <i>This Virtual Line station must be exclusively used for Group Call Pilot Station.</i></p>	<p>(1) 0000-0999: Virtual Port No.                      (2) X-XXXXXXXX: Virtual Line Station No.</p>
CM13	<p>Provide the Virtual Line station with Group Call By Pilot Number Dialing function.</p>	<ul style="list-style-type: none"> <li>• Y=45</li> <li>(1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11</li> <li>(2) 0: To provide</li> </ul>
CM12	<p>Assign the group number which is the destination of a call from the Group Call Pilot Station.</p>	<ul style="list-style-type: none"> <li>• Y=43</li> <li>(1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11</li> <li>(2) 00-19: Group Call No. 00-19  <b>[9300V4 software or before]</b>                      00-59: Group Call No. 00-59  <b>[9300V5 software or later]</b></li> </ul>
CM18	<p>To provide the Station Hunting group of the Group Call Pilot Stations, assign station numbers, one by one, as shown below.</p> <p>1st Operation { (1)Virtual Line Station A                      (2)Virtual Line Station B</p> <p>2nd Operation { (1)Virtual Line Station B                      (2)Virtual Line Station C</p> <p><b>NOTE:</b> <i>The number of Virtual Line stations per Station Hunting group set by CM18 becomes the maximum number of simultaneous calling in each group of Group Call By Pilot Number Dialing.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11</li> <li>(2) X-XXXXXXXX: Another Virtual Line Station No. assigned by CM11</li> </ul>
A		

A	DESCRIPTION	DATA
CM18	<p>Assign the Pilot Station to required station number within the Station Hunting group. For the member stations, set the data to "0".</p> <p><b>NOTE:</b> <i>The maximum number of stations that can be included on one Station Hunting group is 32 including the Pilot Station.</i></p>	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11</li> <li>(2) 0◀: Member Station 1 : Pilot Station</li> </ul>
CM57	<p>Assign the station numbers to be included in the Group Call group, and their serial numbers in the group.</p> <p><b>NOTE 1:</b> <i>The maximum number of simultaneous calling for single line stations is 12 per chassis. When the number of single line stations exceeds 12, allocate the rest of stations to another chassis. For a Multiline Terminal (My Line/Virtual Line), there is no limit as the above.</i></p> <p><b>NOTE 2:</b> <i>Maximum of 32 stations per Group Call can be assigned.</i></p>	<ul style="list-style-type: none"> <li>• Y=10-29 Group Call No. 00-19</li> <li>• Y=40-79 Group Call No. 20-59</li> <li><b>[9300V5 software or later]</b></li> <li>(1) 00-31: Serial No. within the Group</li> <li>(2) X-XXXXXXXX: Station No. assigned by CM10 Y=00</li> </ul>
<u>END</u>		

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# GROUP LISTENING

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## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B for Group Listening to the required Multiline Terminals.	<ul style="list-style-type: none"><li>• Y=02</li><li>(1) X-XXXXXXXX: Station No.</li><li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li></ul>
CM15	Allow Group Listening in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"><li>• Y=070</li><li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li><li>(2) 0: Allow</li></ul>
END		

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# ***HOLD***

## **AUTOMATIC HOLD**

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### **PROGRAMMING**

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM13</div>	Specify the operation at pressing another Line/ Trunk key while talking on the station/trunk using Trunk-Direct Appearances.	<ul style="list-style-type: none"><li>• Y=58</li><li>(1) X-XXXXXXXX: My Line No.</li><li>(2) 0 : Hold the call and seize the Line/Trunk key</li><li>1◀: Disconnect the call and seize the Line/ Trunk key</li></ul>
<u>END</u>		

## CALL HOLD

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Hold in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=001</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Call Hold.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A046: Call Hold</li> </ul>
CM90	Assign a Call Hold key to the Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0046</li> </ul>
	<p><b>NOTE 1:</b> <i>This line key is not the same key normally assigned to the key labeled HOLD. The key is normally assigned to the Non Exclusive/ Exclusive Hold feature.</i></p> <p><b>NOTE 2:</b> <i>When a station has a Camp-on Call, flashing the switchhook and dialing the Call Hold feature results in the connecting to the camped-on party.</i></p>	
END		



## DUAL HOLD

### PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	Assign Service Restriction Class B for this feature to required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM15</div>	Allow Dual Hold in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=064</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
<u>END</u>		

## EXCLUSIVE HOLD

### PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	Provide the system with Exclusive Hold.	(1) 130 (2) 1◀: Available
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM41</div>	Specify the Recall timing on Exclusive Hold.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 06</li> <li>(2) 01-98: 4-392 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 236-240 seconds.
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

# HOTLINE-INSIDE/OUTSIDE

## PROGRAMMING

For internal Hotline:

START	DESCRIPTION	DATA									
CM12	Assign the Hotline station to the required stations.	<ul style="list-style-type: none"> <li>Y=03</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 04: Hotline Station</li> </ul>									
CM52	<p>Set up the Hotline pair. Bidirectional Hotlines should be assigned as follows:</p> <table border="1"> <thead> <tr> <th>Hotline Pair No.</th> <th>Calling Side</th> <th>Called Side</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Station A</td> <td>Station B</td> </tr> <tr> <td>01</td> <td>Station B</td> <td>Station A</td> </tr> </tbody> </table> <p><b>NOTE 1:</b> <i>There is a maximum of 100 assignments for Hotline destination. If internal bidirectional Hotline calling is required, two assignments (one for each direction) must be made. A maximum of 50 bidirectional Hotlines can be assigned.</i></p> <p><b>NOTE 2:</b> <i>When assigning a station number to a Calling Side, the second data of CM12 Y=03 must be set to "04".</i></p>	Hotline Pair No.	Calling Side	Called Side	00	Station A	Station B	01	Station B	Station A	<ul style="list-style-type: none"> <li>Y=00-99 Hotline Pair No.</li> <li>(1) 0: Calling Side</li> <li>(2) X-XXXXXXXX: Station No. /Data Station No. assigned by CM12 Y=03</li> <li>(1) 1: Called Side</li> <li>(2) X-XXXXXXXX: Station No. /Data Station No.</li> <li>E000-E007 : Attendant Console No.</li> </ul> <p><b>NOTE 3:</b> <i>Do not assign station number with first digit "0".</i></p>
Hotline Pair No.	Calling Side	Called Side									
00	Station A	Station B									
01	Station B	Station A									
CM08	<p>Specify the result of a Switch Hook Flash on each Hotline station.</p> <p>To allow Hotline stations to transfer a call or access a feature, set the data to "0".</p>	<ul style="list-style-type: none"> <li>(1) 057</li> <li>(2) 0 : Special Dial Tone</li> <li>1◀: Attendant Recall</li> </ul>									
END											

For Hotline-Outside:

START	DESCRIPTION	DATA								
CM12	Assign a Hotline to the required stations.	<ul style="list-style-type: none"> <li>Y=03</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 04: Hotline</li> </ul>								
CM71	<p>Allocate the memory area for the Hotline-Outside call. For example, to assign the 10 Hotline-Outside calls into No. 100 through No. 109 Memory Slots, 2nd data is "100010". Abbreviated Codes are automatically assigned as shown below:</p> <table border="1"> <thead> <tr> <th></th> <th>Abbreviated Code</th> </tr> </thead> <tbody> <tr> <td>Memory Slot 100</td> <td>00</td> </tr> <tr> <td style="text-align: center;">⋮</td> <td style="text-align: center;">⋮</td> </tr> <tr> <td>Memory Slot 109</td> <td>09</td> </tr> </tbody> </table>		Abbreviated Code	Memory Slot 100	00	⋮	⋮	Memory Slot 109	09	<ul style="list-style-type: none"> <li>(1) 65: For Hotline-Outside</li> <li>(2) XXX YYY            XXX: 000-299: Starting Memory Slot No. in blocks            YYY: 001-300: Number of Memory Slots to be assigned in blocks</li> </ul>
	Abbreviated Code									
Memory Slot 100	00									
⋮	⋮									
Memory Slot 109	09									
CM72	Assign the called party number to each Memory Slot number for Hotline.	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) 000-299: Memory Slot No.</li> <li>(2) XXXX + [ ] + YY...Y: Called Party No.            XXXX : Access Code (Maximum 4 digits)            [ ] : Separator Mark            YY...Y : Called Party No. (Maximum 26 digits)            NONE◀: No data</li> <li>Y=1</li> <li>(1) 000-299: Memory Slot No.</li> <li>(2) XXX...X: Called Party Name Character Code (Maximum 32 digits: 16 characters)            NONE◀: No data            See APPENDIX A: Character Code Table.</li> </ul> <p><a href="#">Page A-2</a></p>								
A										

A	DESCRIPTION	DATA
CM72	Assign the called party number to each Memory Slot number for Hotline.	<ul style="list-style-type: none"> <li>• Y=2               <ol style="list-style-type: none"> <li>(1) 000-299: Memory Slot No.</li> <li>(2) XXX...X: Called Party Name Character by PCPro/CAT (Maximum 16 characters)</li> </ol> <p>NONE◀: No data</p> </li> <li>• Y=4               <ol style="list-style-type: none"> <li>(1) 000-299: Memory Slot No.</li> <li>(2) XX...XX: Called Party Name in Russian (Maximum 16 characters) by entering with Russian character codes.</li> </ol> <p>See APPENDIX A: Character Code Table for Russian. <a href="#">Page A-3</a></p> <p>NONE◀: No data</p> </li> <li>• Y=5               <ol style="list-style-type: none"> <li>(1) 000-299: Memory Slot No.</li> <li>(2) XX...XX: Called Party Name in Simplified Chinese (Maximum 8 two-byte characters)</li> </ol> <p>NONE◀: No data</p> </li> <li>• Y=6               <ol style="list-style-type: none"> <li>(1) 000-299: Memory Slot No.</li> <li>(2) XX...XX: Called Party Name in Traditional Chinese (Maximum 8 two-byte characters)</li> </ol> <p>NONE◀: No data</p> </li> </ul>
CM52	Define the Hotline pairs.	<ul style="list-style-type: none"> <li>• Y=00-99 Hotline pair No.               <ol style="list-style-type: none"> <li>(1) 0: Calling Side 1: Called Side</li> <li>(2) X-XXXXXXXX: Station No. (For Calling Side) C XX (For Called Side) XX: Abbreviated Code exclusively for Hotline-Outside call assigned by CM71&gt;65</li> </ol> </li> </ul>
<u>END</u>	<p><b>NOTE 1:</b> <i>When assigning a station number to a Calling Side, the second data of CM12 Y=03 must be set to "04".</i></p>	<p><b>NOTE 2:</b> <i>Do not assign station number with first digit "0".</i></p>

For Brokerage Hotline:

START	DESCRIPTION	DATA
CM11	Assign the Virtual station numbers to the required Virtual Port number.	(1) 0000-0999: Virtual Port No. (2) X-XXXXXXXX: Virtual Station No.
CM12	Assign the Hotline to the Virtual station number assigned by CM11.	<ul style="list-style-type: none"> <li>• Y=03</li> </ul> (1) X-XXXXXXXX: Virtual Station No. (2) 04: Hotline
CM52	Define the Hotline pairs.  <b>NOTE 1:</b> <i>When assigning a station number to a Calling Side, the second data of CM12 Y=03 must be set to "04".</i>	<ul style="list-style-type: none"> <li>• Y=00-99 Hotline Pair No.</li> </ul> (1) 0: Calling Side (2) X-XXXXXXXX: Virtual Station No.  (1) 1: Called Side (2) X-XXXXXXXX: Station No. (Calling Side) C XX (For Called Side) XX: Abbreviated Code given by CM71 (See Hotline-Outside)
CM90	Assign the Virtual Line station number and Release keys on the Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) My Line No. + <input type="text"/> + Key No. (2) X-XXXXXXXX: Virtual Station No. F1020 : Release key
END		

# INDIVIDUAL ATTENDANT ACCESS

## PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM05</div>	<p>Assign a Unit and Slot number to the DLC blade.</p> <p style="text-align: center;"><span style="border: 1px solid black; border-radius: 10px; padding: 2px 10px;">BLADE RESET</span></p> <p><b>NOTE 1:</b> <i>DESKCON can be accommodated to Unit01.</i></p> <p><b>NOTE 2:</b> <i>Maximum 2 of DESKCON can be accommodated to each DLC blade.</i></p> <p><b>NOTE 3:</b> <i>This data assignment is not required when DESKCON is added on to existing DLC blade.</i></p> <p><b>NOTE 4:</b> <i>The firmware of DLC blade must be version 2.3 or later.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM10</div>	<p>Assign the DESKCON number to its associated Physical Port number.</p> <p><b>NOTE 1:</b> <i>Blade reset is required when DESKCON is added on to existing DLC blade.</i></p> <p><b>NOTE 2:</b> <i>DESKCON cannot be added on to DLC blade when PGD(2)-U10 ADP is accommodated to existing DLC blade.</i></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) E000-E007: DESKCON No.</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>	<p>Assign the Add-On Module to be equipped with the DT700/DT800/DT900 Series through the LAN connection (Side Connection).</p>	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 0000-1499: Virtual Port No. (For IP terminal)</li> <li>(2) EC00-EC31: Add-On Module No.</li> </ul>

A	DESCRIPTION	DATA
CM20	Assign the access code for Individual Attendant Access.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A095</li> </ul>
CM08	Allow the Individual Attendant Access from a station belonging to a different tenant.	<ul style="list-style-type: none"> <li>(1) 143</li> <li>(2) 1◀: Allowed</li> </ul>
<u>END</u>		



# INTERCEPT ANNOUNCEMENT

## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Voice Response System access in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=033</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM49	Assign the function for this feature to each Voice Response System.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 0A00: Call Forwarding Intercept Announcement</li> </ul>
CM51	Assign a Voice Response System as the destination of the call intercepted on each Tenant.	<ul style="list-style-type: none"> <li>Y=07</li> <li>(1) 00-63: Tenant No.</li> <li>(2) EB000-EB015: Voice Response System No.</li> </ul>
CM20	To record, replay, or delete a message, assign the appropriate Voice Response System access codes.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A100: Voice Response System access (Record)</li> <li>A101: Voice Response System access (Replay)</li> <li>A102: Voice Response System access (Delete)</li> </ul>
END		

**NOTE:** Only one common message can be provided for the different intercept conditions.

## HARDWARE REQUIRED

CPU blade (VRS using a built-in Flash ROM)

# INTERCOM

## MANUAL INTERCOM

### PROGRAMMING

START	DESCRIPTION	DATA										
CM11	<p>Assign a Manual Intercom number to the Virtual Port number. The last two digits of each Manual Intercom number represent the Manual Intercom Group number.</p> <p><b>NOTE:</b> <i>A Manual Intercom group can consist of two to six Multiline Terminals. A maximum of 25 Manual Intercom groups can be assigned per system.</i></p> <table border="1"> <thead> <tr> <th>GROUP No.</th> <th>INTERCOM No.</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>A200, A300, A400, A500, A600, A700</td> </tr> <tr> <td>01</td> <td>A201, A301, A401, A501, A601, A701</td> </tr> <tr> <td>∴</td> <td>∴</td> </tr> <tr> <td>24</td> <td>A224, A324, A424, A524, A624, A724</td> </tr> </tbody> </table>	GROUP No.	INTERCOM No.	00	A200, A300, A400, A500, A600, A700	01	A201, A301, A401, A501, A601, A701	∴	∴	24	A224, A324, A424, A524, A624, A724	<p>(1) 0000-0999: Virtual Port No. (2) A200-A224 A300-A324 A400-A424 A500-A524 A600-A624 A700-A724 (Manual Intercom Number)</p> <p>A X YY X : 2-7: Serial No. in a Group YY: 00-24: Manual Intercom Group No.</p>
GROUP No.	INTERCOM No.											
00	A200, A300, A400, A500, A600, A700											
01	A201, A301, A401, A501, A601, A701											
∴	∴											
24	A224, A324, A424, A524, A624, A724											
CM12	Assign the Manual Intercom station.	<ul style="list-style-type: none"> <li>Y=03</li> </ul> <p>(1) A200-A724: Manual Intercom No. assigned by CM11 (2) 06: Manual Intercom</p>										
CM56	Assign the My Line No. of each Multiline Terminal to each Manual Intercom number.	<ul style="list-style-type: none"> <li>Y=11</li> </ul> <p>(1) A200-A724: Manual Intercom No. assigned by CM11 (2) X-XXXXXXXX: My Line No.</p>										
CM90	Assign the Manual Intercom key to each Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> <p>(1) My Line No. + <input type="text"/> + Key No. (2) A200-A724: Manual Intercom No. of each Multiline Terminal</p>										
CM08	Allow the Manual Intercom access when a called intercom station has set Do Not Disturb.	<p>(1) 238 (2) 1◀: Ring on (Allowed)</p>										
END												

## AUTOMATIC INTERCOM

### PROGRAMMING

START	DESCRIPTION	DATA										
CM11	<p>Assign an Automatic Intercom number to the Virtual Port number. The Automatic Intercom stations are paired as shown below.</p> <table border="1"> <thead> <tr> <th>GROUP No.</th> <th>INTERCOM No.</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>A000, A100</td> </tr> <tr> <td>01</td> <td>A001, A101</td> </tr> <tr> <td>?</td> <td>?</td> </tr> <tr> <td>31</td> <td>A031, A131</td> </tr> </tbody> </table> <p><b>NOTE:</b> <i>The maximum number of Automatic Intercom paired stations per system is 32.</i></p>	GROUP No.	INTERCOM No.	00	A000, A100	01	A001, A101	?	?	31	A031, A131	<p>(1) 0000-0999: Virtual Port No.            (2) A000-A031            A100-A131            (Automatic Intercom Number)</p> <p>A X YY            X : 0/1 to be made one pair.            YY: 00-31: Automatic Intercom Group No.</p>
GROUP No.	INTERCOM No.											
00	A000, A100											
01	A001, A101											
?	?											
31	A031, A131											
CM12	Assign each Automatic Intercom station.	<ul style="list-style-type: none"> <li>Y=03</li> </ul> <p>(1) A000-A031, A100-A131: Automatic Intercom No. assigned by CM11            (2) 05: Automatic Intercom</p>										
CM56	Assign the My Line number to each Automatic Intercom number.	<ul style="list-style-type: none"> <li>Y=10</li> </ul> <p>(1) A000-A031, A100-A131: Automatic Intercom No. assigned by CM11            (2) X-XXXXXXXX: My Line No.</p>										
CM90	Assign the Automatic Intercom key to each Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> <p>(1) My Line No. + <input type="text"/> + Key No.            (2) A000-A031, A100-A131: Automatic Intercom No. of each Multiline Terminal</p>										
CM08	Allow the Automatic Intercom access when a called intercom station has set Do Not Disturb.	<p>(1) 237            (2) 1◀: Allowed</p>										
A												

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A	DESCRIPTION	DATA
CM13	Specify the busy indication on the Automatic Intercom LED when the other Multiline Terminal of the same Automatic Intercom Group is busy.	<ul style="list-style-type: none"><li>• Y=11</li><li>(1) X-XXXXXXXX: My Line No.</li><li>(2) 0 : Allowed</li><li>1 ◀: Restricted</li></ul>
<u>END</u>		

**NOTE:** *To activate the Voice Announcement call, refer to INTERNAL TONE/VOICE SIGNALING.*  
[Page 1-443](#)

## DIAL INTERCOM

### PROGRAMMING

START	DESCRIPTION	DATA										
CM11	<p>Assign a Dial Intercom number to the Virtual Port number. The last two digits of each Dial Intercom number represent the Dial Intercom Group number. The first digit is the intercom code (0-9) assigned to the associated virtual extension.</p> <table border="1"> <thead> <tr> <th>GROUP No.</th> <th>INTERCOM No.</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>B000, B100, B200 — B900</td> </tr> <tr> <td>01</td> <td>B001, B101, B201 — B901</td> </tr> <tr> <td>⋮</td> <td>⋮</td> </tr> <tr> <td>24</td> <td>B024, B124, B224 — B924</td> </tr> </tbody> </table> <p><b>NOTE:</b> <i>A maximum of 25 Dial Intercom groups are available per system. A maximum of ten Multiline Terminals can belong to a Dial Intercom group.</i></p>	GROUP No.	INTERCOM No.	00	B000, B100, B200 — B900	01	B001, B101, B201 — B901	⋮	⋮	24	B024, B124, B224 — B924	<p>(1) 0000-0999: Virtual Port No.            (2) B000-B024                B100-B124                B200-B224                B300-B324                B400-B424                B500-B524                B600-B624                B700-B724                B800-B824                B900-B924            (Dial Intercom Number)</p> <p>B X YY            X : 0-9: Intercom Code            YY: 00-24: Dial Intercom Group No.</p>
GROUP No.	INTERCOM No.											
00	B000, B100, B200 — B900											
01	B001, B101, B201 — B901											
⋮	⋮											
24	B024, B124, B224 — B924											
CM12	Assign the Dial Intercom station.	<ul style="list-style-type: none"> <li>• Y=03</li> </ul> <p>(1) B000-B924: Dial Intercom No. assigned by CM11            (2) 07: Dial Intercom</p>										
CM56	Assign the My Line number to each Dial Intercom number.	<ul style="list-style-type: none"> <li>• Y=12</li> </ul> <p>(1) B000-B924: Dial Intercom No.            (2) X-XXXXXXXX: My Line No.</p>										
CM90	Assign the Dial Intercom key to each Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> <p>(1) My Line No. + <input type="text"/> + key No.            (2) B000-B924: Dial Intercom No. of each Multiline Terminal</p>										
CM12	If the Private Dial Intercom is provided, assign Service Restriction Class A to each Dial Intercom number.	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> <p>(1) B000-B924: Dial Intercom No. assigned by CM11            (2) XX ZZ                XX: 00-15◀: Service Restriction Class A</p>										
A												

	DESCRIPTION	DATA
A		
CM15	Restrict Executive Override in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=009</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Restricted</li> </ul>
CM08	Allow the Dial Intercom access when a called intercom station has set Do Not Disturb.	<ul style="list-style-type: none"> <li>(1) 239</li> <li>(2) 1◀: Allowed</li> </ul>
<u>END</u>		

**NOTE:** To activate the Voice Announcement call, refer to *INTERNAL TONE/VOICE SIGNALING*.  
[Page 1-443](#)

# INTERNAL TONE/VOICE SIGNALING

## PROGRAMMING

START	DESCRIPTION	DATA
CM08	To activate the Single-Digit Feature Access Code feature, set the data for 050, 051, 069, 148 and 543 to "1".	(1) 050: * button as Switch Hook Flash. (2) 1◀: Ineffective  (1) 051: # button as Switch Hook Flash. (2) 1◀: Ineffective  (1) 069: Single Digit Dialing on BT Connection (2) 1◀: Step Call  (1) 148: Same Last Digit Redialing on BT Connection (2) 1◀: Ineffective  (1) 543: Step Call (2) 1◀: Allow
	Provide the system with the Single-Digit Feature Access Code on RBT or Voice Call connection.	(1) 156 (2) 0: Available
	Specify if Voice Call is provided when calling a Multiline Terminal is set to Voice First from a Single Line Telephone or a Multiline Terminal without an LCD.	(1) 270 (2) 0 : Not provided (Busy Tone) 1◀: To provide
	Provide the system with the Single-Digit Feature Access Code on BT connection.	(1) 208 (2) 0: Available
	Specify whether the Single-Digit Feature Access Code are fixed or not.	(1) 570 (2) 0 : Programmable Access Code 1◀: Fixed Access Code
CM20	When using programmable access code (CM08>570 is set to 0), assign the Single-Digit Feature Access Code for the RBT connection.	• Y=5 (1) X: Access code (0-9, A (*), B (#)) (2) 1 : Internal Tone/Voice Signaling NONE◀: Single-Digit Feature Access Code is not available
A		

A	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B for Voice Call (called side) to the required Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	Allow Voice Call (called side) in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=067</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM12	Assign Service Restriction Class C for Voice Call Mike Off (called side) to the required Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Allow Voice Call Mike Off (called side) in Service Restriction Class C assigned by CM12 Y=07.	<ul style="list-style-type: none"> <li>• Y=099</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0: Available</li> </ul>
CM20	Assign the Voice Call/Ring Tone Programming access code.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A163: Voice Call/Ring Tone Programming</li> </ul>
<u>END</u>		



# INTERNAL ZONE PAGING WITH MEET-ME

## PROGRAMMING

To provide Internal Zone Paging with Meet-Me:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Internal Zone Paging to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Internal Zone Paging for called side.	<ul style="list-style-type: none"> <li>Y=049</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign Internal Zone Paging access codes and Meet-Me answer codes, if required.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: 50-54, 55-59: Access code</li> <li>(2) A130-A137: Group 0-7 (Paging Access) A138-A145: Group 0-7 (Meet-Me Answer)</li> </ul>
CM56	Assign the Multiline Terminal/Soft Phone into the required Internal Zone Paging Groups.  <b>NOTE:</b> <i>A maximum of 8 (00-07) internal zone paging is available. Up to 16 Multiline Terminals can be grouped per zone.</i>	<ul style="list-style-type: none"> <li>Y=00-07 Paging Group Number</li> <li>(1) 00-15: Serial No. in a Paging Group</li> <li>(2) X-XXXXXXXX: My Line No.</li> </ul>
CM90	Assign Internal Zone Paging to each button on the Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) X-XXXXXXXX: My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1270-F1277: Internal Zone Paging Group 0-7</li> </ul>
END		

To provide All Zone Internal Paging:

START	DESCRIPTION	DATA
CM08	Provide the system with All Zone Internal Paging.	(1) 158 (2) 1◀: Available
CM12	Assign Service Restriction Class A for All Zone Internal Paging to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow All Zone Internal Paging for called side.	<ul style="list-style-type: none"> <li>• Y=049</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign an All Zone Internal Paging access code.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access code (1-4 digits)</li> <li>(2) A164: All Zone Internal Paging</li> </ul>
CM56	Assign Group for Internal Zone Paging to the required Multiline Terminals/Soft Phones.  <b>NOTE:</b> <i>A maximum of 6 zones (00-05) internal paging groups are available. Up to 16 Multiline Terminals/Soft Phones can be grouped per zone.</i>	<ul style="list-style-type: none"> <li>• Y=00-05 Paging Group Number</li> <li>(1) 00-15: Serial No. in a Paging Group</li> <li>(2) X-XXXXXXXX: My Line No.</li> </ul>
CM90	Assign an All Zone Internal Paging function key to a line button on the desired Multiline Terminals.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXXXXXX: My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1299: All Zone Internal Paging</li> </ul>
END		

# LAST NUMBER REDIAL

## PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Last Number Redial for Single Line Telephone/Standard SIP station.	(1) 177 (2) 0: Available
CM20	Assign the access code for Last Number Redial.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A069
CM90	Assign the Last Number Redial feature access key to each Multiline Terminal, as required.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. + [ ] +Key No. (2) F0069: Last Number Redial
	Assign the Last Number Redial key to each DESKCON, as required.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) DESKCON No. (E000-E007) + [ ] + Key No. (2) F6121: Last Number Redial
END		

# LEAST COST ROUTING-3/6 DIGIT

## PROGRAMMING

START

DESCRIPTION

DATA

CM20

Assign the access code for LCR Group 0-2.

- Y=0-3 Number Plan Group 0-3
- (1) X-XXXX: Access Code
- (2) A126: LCR Group 0  
A127: LCR Group 1  
A128: LCR Group 2

CM81

Assign the Toll Restriction Patterns with eight kinds of Trunk Restriction Classes assigned by CM12 Y=01.  
Toll Restriction Pattern 00-15 are preassigned as shown below.  
If a new Restriction Pattern is required, change the data for Restriction Pattern 01-13 (00, 14 and 15 are fixed).

- Y=01-13  
Toll Restriction Pattern No. 01-13
- (1) 1-8: Trunk Restriction Class
- (2) 0: Restricted  
3: Allowed

TRUNK RESTRICTION CLASS		Y															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
		TOLL RESTRICTION PATTERN NUMBER ON EACH TRUNK RESTRICTION CLASS															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
1	RCA	3	0	3	3	3	0	0	0	3	3	3	3	3	0	3	0
2	RCB	3	0	3	3	0	0	0	0	3	3	0	0	0	0	3	0
3	RCC	3	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0
4	RCD	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
5	RCE	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
6	RCF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
7	RCG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
8	RCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0

0: Restricted  
3: Allowed

A

A	DESCRIPTION	DATA
CM8A	Assign an Area Code Development Pattern number to each LCR Group.	<ul style="list-style-type: none"> <li>• Y=A000</li> <li>(1) 0-2: LCR Group 0-2</li> <li>(2) 4005-4007: Area Code Development Pattern No. 5-7</li> </ul>
	Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.	<ul style="list-style-type: none"> <li>• Y=4005-4007 Area Code Development Pattern No. 5-7</li> <li>(1) X...X: Area Code, Maximum 8 digits</li> <li>(2) 0000-0255: Route Pattern No. 000-255</li> </ul>
	Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4005-4007.	<ul style="list-style-type: none"> <li>• Y=0000-0255 Route Pattern No. 000-255</li> <li>(1) 1-4: Order of LCR Selection               <ul style="list-style-type: none"> <li>1: 1st</li> <li>2: 2nd</li> <li>3: 3rd</li> <li>4: 4th</li> </ul> </li> <li>(2) XXX ZZ                XXX: 000-255: LCR Pattern No. 000-255                ZZ : 00-63: Trunk Route No. 00-63</li> </ul>
	For area code deletion, designate the digits to be deleted. To delete all digits of the area code:	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 152: Deletion of all digits of the area code assigned by CM8A Y=4005-4007</li> <li>(2) 0: To delete</li> </ul>
	To delete the designated digit of an area code assigned by CM8A Y=4005-4007:	<ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>(1) 153: Designation of digit to be deleted for area code assigned by CM8A Y=4005-4007</li> <li>(2) 00 : No digit deletion                01-10 : First 1-10 digits deleted                NONE◀: No digit deletion</li> </ul>
B		

B	DESCRIPTION	DATA
CM8A	For area code addition, designate the digits to be added.	<ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>(1) 100: Designation of digit Addition Pattern No.</li> <li>(2) 9000-9255: Digit Addition Pattern No. 000-255</li> <li>NONE◀ : No digit addition</li> </ul>
	If three-digit Toll Restriction is provided, assign the Toll Restriction Pattern number to the LCR Pattern number.	<ul style="list-style-type: none"> <li>• Y=9000-9255 Digit Addition Pattern No. 000-255</li> <li>(1) 0: Entry of digit code to be added</li> <li>(2) X-X...X: Digits to be added (Maximum 32 digits) X=0-9, A (*), B (#), C (Fixed Pause), D (Programming Pause)</li> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 000: Destination of Toll Restriction Pattern No.</li> <li>(2) 00-15: Toll Restriction Pattern No. specified by CM81</li> </ul>
C		

C

CM8A

**DESCRIPTION**

**DATA**

If six-digit Toll Restriction is provided, assign the following data to the LCR Pattern number and set up the six-digit Toll Restriction Pattern Tables.

- (1) Specify the Trunk Restriction Classes to which 6-digit Toll Restriction applies.

**Example:** 412-211  
                   Area  Office  
                   Code  Code

RCA: No restrictions (three-digit TR)  
 RCB: 412-211 is allowed (six-digit TR)  
 RCC: 412-211 is allowed (six-digit TR)  
 RCD: 412 is restricted (three-digit TR)  
 RCE: 412 is restricted (three-digit TR)

CM8A		
Y	TRUNK RESTRICTION CLASS	DATA
5000	021	1
	022	0
	023	0
	024	1
	025	1

- (2) Assign the six-digit Toll Restriction Pattern number to the LCR Pattern number.
- (3) Assign the Office code (three-digits) and the availability to access the office code to the six-digit Toll Restriction Pattern number assigned by (2).

- Y=5000-5255 LCR Pattern No. 000-255
- (1) 021-028: Trunk Restriction Class assigned by CM12 Y=01
  - 021 : Unrestricted (RCA)
  - 022 : Non-Restricted 1 (RCB)
  - 023 : Non-Restricted 2 (RCC)
  - 024 : Semi-Restricted 1 (RCD)
  - 025 : Semi-Restricted 2 (RCE)
  - 026 : Restricted 1 (RCF)
  - 027 : Restricted 2 (RCG)
  - 028 : Fully-Restricted 2 (RCH)
- (2) 0 : 6-digit Toll Restriction Pattern  
 1◀: 3-digit Toll Restriction Pattern as per CM8A Y=5000-5255>000

- Y=5000-5255
- (1) 020
- (2) 8000-8049: 6-digit Toll Restriction Pattern No. 00-49
- Y=8000-8049  
 6-digit Toll Restriction Pattern No. 00-49
- (1) XXX: 3-digits of Office Code
- (2) 0 : Restricted  
 1◀: Allowed

D

D	DESCRIPTION	DATA
CM8A	<p>If the prefix is to be added, assign the following data to the LCR Pattern number.</p> <p>(1) Assign the 6-digit Prefix Pattern number to the LCR Pattern number.</p> <p>(2) Assign the office code (three-digits) requiring the Prefix to the six-digit Prefix Pattern number.</p>	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 150</li> <li>(2) 8050-8099: 6-digit Prefix Pattern No. 00-49</li> <li>CCC : No Prefix</li> <li>• Y=8000-8049</li> <li>(1) XXX: 3-digit of Office Code</li> <li>(2) 1◀: Allowed</li> </ul>
CM85	<p>Specify the maximum number of sending digits to be dialed by calling party.</p> <p><b>NOTE:</b> <i>The maximum number of sending digits including the area codes should be assigned to each area code.</i></p>	<ul style="list-style-type: none"> <li>• Y=5-7 Area Code Development Pattern No. 5-7 assigned by CM8A Y=A000</li> <li>(1) X-X...X: Area Code dialed, Maximum 8 digits</li> <li>(2) 01-24◀: 1-24 digits 25-79 : 25-79 digits</li> </ul>
CM35	<p>Provide the Toll Restriction feature to the required trunk routes.</p> <p>Specify route access capability for each restriction class.</p> <p>Assign the Area Code Development Pattern number for Toll Restriction and Maximum Digit Analysis to each trunk route.</p>	<ul style="list-style-type: none"> <li>• Y=011</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> <li>• Y=051-058 (RCA-RCH)</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Restricted 1◀: Allow</li> <li>• Y=076</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 05-07: Area Code Development Pattern No. 5-7</li> </ul>
<u>END</u>		



To provide LCR with Time of Day Routing, add the following system data programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM8A</div>	<p>Assign the Date Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.</p> <p>Assign the Time Pattern number to each day of the week for the Date Pattern number assigned by CM8A Y=4005-4007.</p>	<ul style="list-style-type: none"> <li>• Y=4005-4007 Area Code Development Pattern No. 5-7</li> <li>(1) X-X...X: Area Code Maximum 8 digits</li> <li>(2) 3000-3003: Date Pattern No. 0-3</li> </ul> <ul style="list-style-type: none"> <li>• Y=3000-3003 Date Pattern No. 0-3</li> <li>(1) 0: SUN 1: MON 2: TUE 3: WED 4: THU 5: FRI 6: SAT</li> <li>(2) 2000-2007: Time Pattern No. 0-7</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		

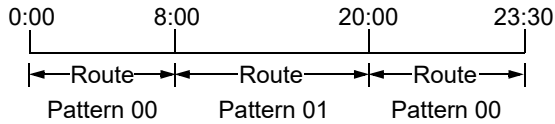
A

CM8A

**DESCRIPTION**

**DATA**

Assign the Route Pattern number to the required time of day for the Time Pattern number assigned by CM8A Y=3000-3003.  
To define the following Time Pattern:



- Y=2000-2007 Time Pattern No. 0-7
- (1) HH MM (Time)  
HH : 00-23: Hours  
MM: 00/30: Minutes
- (2) 0000-0255: Route Pattern No. 000-255  
If Tenant Pattern is required, set 1000-1015 (Tenant Pattern No. 00-15).

Y	TIME (1)	ROUTE PATTERN (2)
2000 (Time Pattern No. 0)	0000 0030 0100 0130 0200 } 0730 0:00 a.m.-8:00 a.m.	0000 (Route Pattern No. 000)
2000 (Time Pattern No. 0)	2000 2030 } 2330 8:00 p.m.-0:00 a.m.	0000 (Route Pattern No. 000)
2000 (Time Pattern No. 0)	0800 0830 } 1930 8:00 a.m.-8:00 p.m.	0001 (Route Pattern No. 001)

If the Tenant Pattern number is assigned by CM8A Y=2000-2007, assign the Route Pattern number to the required Tenant number for the Tenant Pattern number.

- Y=1000-1015 Tenant Pattern No. 00-15
- (1) 00-63: Tenant No.
- (2) 0000-0255: Route Pattern No. 000-255

END

To provide C.O. operator call with LCR, assign the following system data.

START

**DESCRIPTION**

**DATA**

CM20

Assign the access code for LCR Group 0.

- Y=0-3 Number Plan Group 0-3
- (1) X-XXXX: Access Code
- (2) A126: LCR Group

CM81

Assign the Toll Restriction Patterns with eight kinds of Trunk Restriction Classes assigned by CM12 Y=01. Toll Restriction Pattern 00-15 is already programmed as shown below. If a new Restriction Pattern is required, change the data of the Restriction Pattern 01-13 (00, 14 and 15 are fixed).

- Y=01-13 Toll Restriction Pattern No. 01-13
- (1) 1-8: Trunk Restriction Class
- (2) 0: Restricted  
3: Allowed

TRUNK RESTRICTION CLASS		Y															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
		TOLL RESTRICTION PATTERN NUMBER ON EACH TRUNK RESTRICTION CLASS															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
1	RCA	3	0	3	3	3	0	0	0	3	3	3	3	3	0	3	0
2	RCB	3	0	3	3	0	0	0	0	3	3	0	0	0	0	3	0
3	RCC	3	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0
4	RCD	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
5	RCE	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
6	RCF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
7	RCG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
8	RCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0

0: Restricted  
3: Allowed

CM8A

Assign the Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.

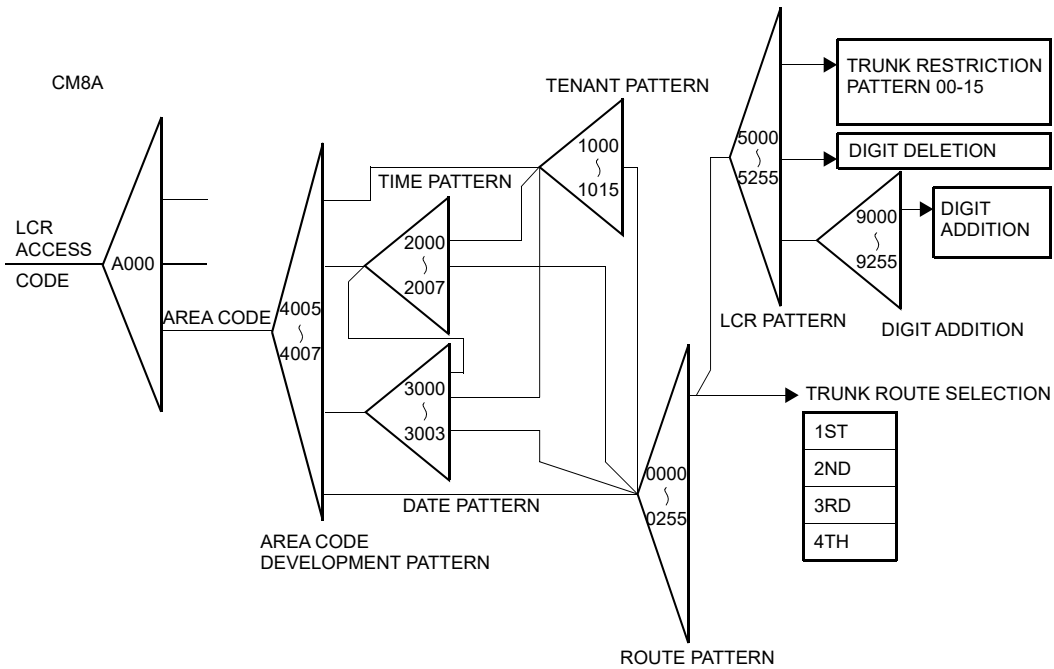
- Y=4010 Area Code for C.O. Operator
- (1) X-XXXXXXXX: Area Code for C.O. Operator  
This data is only effective for an access code assigned to CM20 Y=0-3: A126.
- (2) 0000-0255: Route Pattern No. 000-255

A

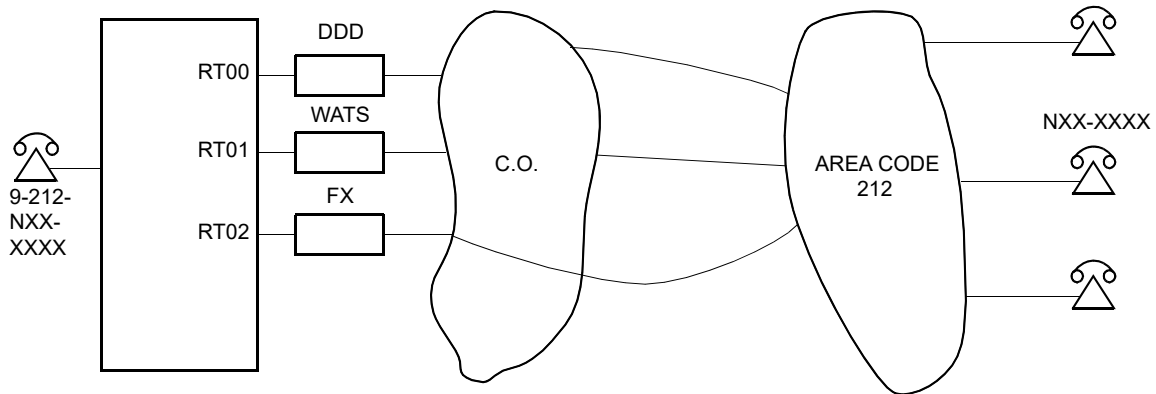
A	DESCRIPTION	DATA
CM8A	<p>Assign the 1st order of LCR selection for the Route Pattern number assigned by CM8A Y=4010.</p> <p>Assign the Toll Restriction Pattern number to the LCR Pattern number assigned by CM8A Y=4010.</p>	<ul style="list-style-type: none"> <li>• Y=0000-0255 Route Pattern No. 000-255</li> <li>(1) 1: 1st order of LCR selection</li> <li>(2) XXX ZZ XXX: 000-255: LCR Pattern No. ZZ : 00-63: Trunk Route No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 000: Destination of Toll Restriction Pattern No.</li> <li>(2) 00-15: Toll Restriction Pattern No. specified by CM81</li> </ul>
END		

**NOTE:** See Examples in the following pages.

### LCR Development Sequence



**Example 1:**



**Conditions:**

- (1) Order of LCR Selection:
  - 1st... Route 02 (FX)
  - 2nd...Route 01 (WATS)
  - 3rd... Route 00 (DDD)

- (2) Dialed Number:
  - 9-212-NXX-XXXX

9 : Access Code  
 212 : Area Code  
 NXX : Office Code  
 XXXX: Telephone Number

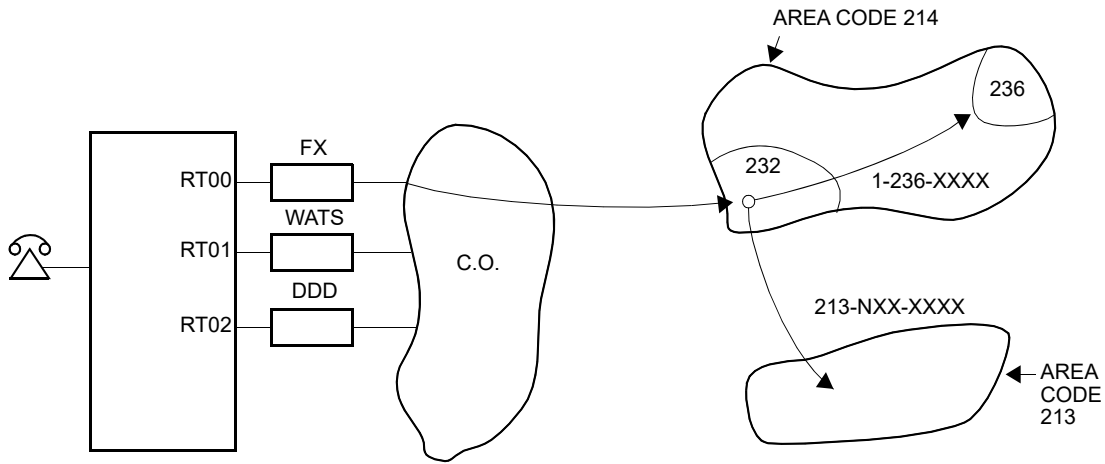
- (3) Toll Restriction Pattern:

–: Allowed  
 ×: Restricted

ROUTE \ CLASS	RCA	RCB	RCC	RCD	RCE
00	–	–	–	–	–
01	–	–	–	×	×
02	–	–	×	×	×



**Example 2:**



**Conditions:**

- (1) Order of LCR Selection:  
 1st... Route 02 (FX)  
 2nd...Route 01 (WATS)  
 3rd... Route 00 (DDD)

- (2) Dialed Number:  
 • 9-214-232/236-XXXX  
**NOTE:** 236 is a Toll Office.  
 • 9-213-NXX-XXXX

(3) Toll Restriction Pattern:

ROUTE \ CLASS	RCA	RCB	RCC	RCD	RCE
00	-	-	-	-	-
01	-	-	- NOTE	×	×
02	-	- NOTE	×	×	×

-: Allowed  
 ×: Restricted

**NOTE:** Area Code 213 is restricted.







STEP7: In LCR Pattern No. 000, designate the prefix “1”, in addition to the office code 236, by the six-digit Prefix Pattern.

- Designation of 6-digit Prefix Pattern No.

$$\boxed{\text{ST}} + 8\text{A}5000 + \boxed{\text{DE}} + 150 + \boxed{\text{DE}} + \frac{8050}{\text{6-digit Prefix Pattern No. 00}} + \boxed{\text{EXE}}$$

- Designation of office code requiring Prefix Pattern.

$$\boxed{\text{ST}} + 8\text{A}\frac{8000}{\text{6-digit Prefix Pattern No. 00}} + \boxed{\text{DE}} + 236 + \boxed{\text{DE}} + 1 + \boxed{\text{EXE}}$$

STEP8: Assign the maximum number of digits dialed.

$$\boxed{\text{ST}} + \frac{855}{\text{Area Code Development Pattern No. 5}} + \boxed{\text{DE}} + \frac{21}{\text{Area Code}} + \boxed{\text{DE}} + \frac{10}{\text{10 digits}} + \boxed{\text{EXE}}$$

# LINE LOCKOUT

## PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Howler Tone sent to locked-out stations, if required.	(1) 153 (2) 1◀: To send
	Assign the line lockout indication on the DSS Console.	(1) 274 (2) 0 : Available 1◀: Not available
CM13	Provide Howler Tone automatic sending to the required stations.	<ul style="list-style-type: none"> <li>• Y=04</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1◀: To provide</li> </ul>
CM42	Specify the number of stations in Line Lockout to give a Alarm.	(1) 01 (2) 01-99 : 1-99 stations NONE◀: No “Lockout Alarm Display”
END		

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## LINE PRESELECTION

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### PROGRAMMING

START	DESCRIPTION	DATA
CM08	<p>Specify the operation of Line Preselection on a Multiline Terminal.</p> <p>Provide Group Feature Key on Multiline Terminal with Line Preselection function, if required.</p> <p><b>NOTE:</b> <i>Set the second data of CM08&gt;199 to 0 when the second data of this command is set to 0.</i></p>	<p>(1) 199            (2) 0 : Only desired line key            1◀: Off-hook/Speaker key is required after pressing the desired line key</p> <p>(1) 558            (2) 0: To provide</p>
END		

# MALICIOUS CALL BLOCK

[9300V3 software required]

## PROGRAMMING

### (1) Basic Data Assignment

The following programming is the basic system data to provide Malicious Call Block using PCPro and Malicious Call List set by a user operation.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM73</div>	Specify Malicious Call List for the usage of Speed Dialing memory for each 1000-Slot Memory Block.  <b>NOTE:</b> <i>A 1000-Slot Block number assigned by this command cannot be used for Station Speed Dialing/One-Touch Memory and System Speed Dialing.</i>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00-99: 1000-Slot Memory Block No.</li> <li>(2) 2 : Malicious Call list (Maximum 2 blocks)</li> <li>NONE◀: Station Speed Dialing/One Touch Memory</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM74</div>	Assign a calling party number of Malicious Call to a Malicious Call List.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX YY Z                XX: 00-99: 1000-Slot Memory Block No. assigned by CM73 Y=0                YY: 00-99: 10-Slot Memory Block No.                Z : 0-9 : Memory Parcel No.</li> <li>(2) Calling Party No. of Malicious Call (Maximum 16 digits)                NONE◀: No data</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM76</div>	Specify whether to restrict the call termination for DID call with calling party number.  <b>NOTE:</b> <i>This command is assigned to restrict the call termination for DID call with calling party number. To restrict the call termination for an incoming trunk call with calling party number, assign CM35 Y=303/304/305.</i>	<ul style="list-style-type: none"> <li>• Y=42</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 0 : Restricted                1◀: As per CM35 Y=303</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		

A	DESCRIPTION	DATA
CM76	Specify the call terminating method for DID call with calling party number in Day Mode and Night Mode/A Mode/B Mode.	<ul style="list-style-type: none"> <li>• Y=43 Day Mode</li> <li>• Y=44 Night Mode/A Mode/B Mode</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0 : To transfer to the VRS/another station/ Attendant Console (assigned by CM51 Y=34) 1 : To reject the call termination 7◀: To terminate as usual
CM35	Specify whether to restrict the call termination for an incoming trunk call with calling party number.	<ul style="list-style-type: none"> <li>• Y=303</li> </ul> (1) 00-63: Trunk Route No. (2) 0 : Restricted 1◀: Not restricted
	<p><b>NOTE:</b> <i>This command is assigned to restrict the call termination for an incoming trunk call with calling party number. To restrict the call termination for DID call with calling party number, assign CM76 Y=42/43/44.</i></p>	
	Specify the call terminating method for an incoming trunk call with calling party number in Day Mode and Night Mode/A Mode/B Mode.	<ul style="list-style-type: none"> <li>• Y=304 Day Mode</li> <li>• Y=305 Night Mode/A Mode/B Mode</li> </ul> (1) 00-63: Trunk Route No. (2) 0 : To transfer to the VRS/another station/ Attendant Console (assigned by CM51 Y=34) 1 : To reject the call termination 7◀: To terminate as usual
CM51	Specify the transfer destination of the call when an incoming call with calling party number is restricted by CM35 Y=303/CM76 Y=42.	<ul style="list-style-type: none"> <li>• Y=34</li> </ul> (1) 00-63: Trunk Route No. (2) Destination: X-XXXXXXXX: Station No. E000 : Attendant Console EB000-015: Voice Response System No.
CM49	Assign the function of the Voice Response System when the transfer destination is VRS.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) 000-015: VRS No. (2) 2300: Restriction announcement for an incoming call with calling party number
B		

B	DESCRIPTION	DATA
CM41	Assign the announcement service timer.  <b>NOTE:</b> <i>When CM49 Y=00: 2300 is set, an announcement connection is automatically disconnected after elapse of time set by this command.</i>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 45</li> <li>(2) 01-99: 4-396 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 60-64 seconds.
CM08	Specify whether to restrict the call termination for an incoming call with no CLI.  <b>NOTE:</b> <i>This command is valid when the second data of CM76 Y=42 is set to 0 or the second data of Y=303 is set to 0.</i>	(1) 1207 (2) 0 : Restricted 1◀: Allow
	Specify the reason of the rejection by Malicious Call Block for incoming call from ISDN trunk. <b>[9300V4 software required]</b>  <b>NOTE:</b> <i>Set this command if necessary. For incoming call from a ISDN line, if you do not want to get notice the rejection by Malicious Call Block to the calling party, by setting the second data to 0 (Busy line), the operation is the same as "Busy line". Depending on the carrier, the operation of destination may be the same as "Tone/Announcement" regardless of this assignment.</i>	(1) 1233 (2) 0 : Busy line 1◀: Reject the call termination
END		

## (2) Data Assignment for Malicious Call List Set by a User Operation

To set the Malicious Call List by a user operation, do the following programming.

START	DESCRIPTION	DATA
CM20	To set a Malicious Call List by Malicious Call number specification, assign the access code for Malicious Call Set/Delete.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access code</li> <li>(2) A275: Malicious Call Set by Malicious Call No. specification</li> <li>    A276: Malicious Call Delete by Malicious Call No. specification</li> </ul>
A		

A	DESCRIPTION	DATA
CM12	When setting Malicious Call List during an incoming call in progress, assign Soft Key Pattern number to each Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=23</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Pattern No. 0</li> <li>1 : Pattern No. 1</li> <li>2 : Pattern No. 2</li> <li>3◀: Pattern No. 3</li> </ul>
CM9A	When setting Malicious Call List during an incoming call in progress, assign the Soft Key function and Soft Key name to each pattern number for Malicious Call Set.	<ul style="list-style-type: none"> <li>• Y=00-03 Setting of Soft Key Function (Soft Key Pattern No. 0-3 assigned by CM12 Y=23)</li> <li>(1) 10XX (During speaking)</li> <li>XX: 00-15: Soft Key No.</li> <li>00-03: Indicated on 1st display</li> <li>04-07: Indicated on 2nd display</li> <li>08-11: Indicated on 3rd display</li> <li>12-15: Indicated on 4th display</li> <li>(2) F5039 : Malicious Call List Set Key</li> <li>NONE◀: No data</li> <li>• Y=10-13 Setting of Soft Key Name (Soft Key Pattern No. 0-3 assigned by CM12 Y=23)</li> <li>(1) 10XX (During speaking)</li> <li>XX: 00-15: Soft Key No.</li> <li>00-03: Indicated on 1st display</li> <li>04-07: Indicated on 2nd display</li> <li>08-11: Indicated on 3rd display</li> <li>12-15: Indicated on 4th display</li> <li>(2) XX...XXX: Soft Key name indicated on LCD (2-12 characters)</li> <li>NONE◀: No data</li> </ul>
B		



B

CM13

## DESCRIPTION

Assign whether to allow the Malicious Call List Set/Cancel/Delete operations by Station Dialing.

## DATA

- Y=90 Malicious Call List Set by station dialing
  - Y=91 Malicious Call List Delete by station dialing
  - Y=92 Malicious Call List Set by a call history
- (1) X-XXXXXXXX: Station No.  
 (2) 0 : Allow  
 1◀: Restricted  
 See the table below for the setting of each operation.

Malicious Call List Set/Cancel/Delete Operations by Station Dialing	Second Data of CM13 Y=90/91/92			Remarks
	Y=90	Y=91	Y=92	
Set/Cancel during an incoming call in progress	0			
Malicious Call Set from a call history	0		0	<b>NOTE 1, NOTE 2</b>
Malicious Call Set by Malicious Call number specification	0			
Malicious Call Delete by Malicious Call number specification		0		

**NOTE 1:** To set the Malicious Call List from a call history, make the following services available in advance.

- Storage of the call history (IC) when answering a trunk call (CM13 Y=60: 0)
- Storage of the call history (IC) when handling of unanswered a trunk call (CM13 Y=61: 0)

**NOTE 2:** When the second data of CM13 Y=92 is set to 0 (Allow), Malicious Call List Set key will automatically appear on the 3rd display of the Call History.

C

C	DESCRIPTION	DATA
CM74	Assign the display name for Malicious Call by character code.	<ul style="list-style-type: none"> <li>• Y=9</li> <li>(1) 0: Display Name for Malicious Call by Character Code</li> <li>(2) XXX...X: Display Name Registration for Malicious Call by PCPro/CAT (Maximum 32 digits: 16 characters)</li> </ul> See APPENDIX A: Character Code Table. <a href="#">Page A-2</a> NONE◀: No data
	Assign the display name for Malicious Call by character.	<ul style="list-style-type: none"> <li>• Y=9</li> <li>(1) 1: Display Name for Malicious Call by Character</li> <li>(2) XXX...X: Display Name Registration for Malicious Call by PCPro (Maximum 16 characters)</li> </ul> NONE◀: No data
CMEA	Register the fault information into memory and the control of the external alarm for Malicious Call List Overflow.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 066: Malicious Call List Overflow</li> <li>(2) 0 : No fault memory store/No output of external alarm</li> <li>1 : Fault memory store/External alarm is MN alarm</li> <li>2 : Fault memory store/External alarm is MJ alarm</li> <li>3◀: Fault memory store/No output of external alarm</li> </ul>
<u>END</u>		

(3) Reading the Remaining Malicious Call List Numbers

To read the remaining numbers of calling party numbers that can be set to a Malicious Call List, do the following programming.

START	DESCRIPTION	DATA
CMEC	Read the remaining Malicious Call List number (CM74).	<ul style="list-style-type: none"><li>• Y=2</li><li>(1) 018</li><li>(2) XXXX/ZZZZ</li></ul> XXXX: Remaining Malicious Call List numbers (Decimal display) ZZZZ : Total Malicious Call List numbers (Decimal numbers)
END	<p><b>NOTE:</b> <i>This command can also be used in common when either of the following two operations is performed.</i></p> <ul style="list-style-type: none"><li>- <i>Registration from PCPro</i></li><li>- <i>Registration by a user operation</i></li></ul>	

## (4) Reading the Malicious Call List History by a User Operation

To read the history of a calling party number registration/deletion to a Malicious Call List by a user operation, do the following programming.

START	DESCRIPTION	DATA
CMEC	Specify the history No. and read the history of a calling party number registration/deletion to a Malicious Call List.	<ul style="list-style-type: none"> <li>• Y=E</li> <li>(1) 0000-1999 History No. 0000-1999</li> <li>(2) AA/BB/CC/D...DDD/EEEE/FF/G...GGG               <ul style="list-style-type: none"> <li>AA : 00-99: Year</li> <li>BB : 01-12: Month</li> <li>CC : 01-31: Date</li> <li>D...DDD: Operating Station No. (maximum 8 digits)</li> <li>EEEE : Block No. of Malicious Call List (5 digits): 1000-Slot Memory Block No. (00-99) + 10-Slot Memory Block No. (00-99) + Memory Parcel No. (0-9)</li> <li>FF : 00/01: Operation (Register/Delete)</li> <li>G...GGG: Malicious Call No. (maximum 16 digits)</li> </ul> </li> </ul>
	<p><b>NOTE 1:</b> <i>This command can also be used in common when either of the following operations is performed.</i></p>	
	<ul style="list-style-type: none"> <li>- Registration during a call in progress</li> <li>- Registration from a call history</li> <li>- Registration/Deletion by specifying a station number</li> </ul>	
	<p><b>NOTE 2:</b> <i>A maximum of 2000 call histories can be maintained. If call histories are exceeded 2000 call histories, SV9300 deletes the data from the oldest data and overwrites the data with new data.</i></p>	
	<p><b>NOTE 3:</b> <i>History numbers are displayed in order of the latest registration/deletion date of call histories.</i></p>	
	<p><b>NOTE 4:</b> <i>The indication of Malicious Call List history is separated with a slash (/).</i></p>	
	<p><b>NOTE 5:</b> <i>If the digits of Malicious Call No. and the Operating Station No. are less than the maximum digits, the remaining digits are filled with spaces after their No.</i></p>	
	<p><b>NOTE 6:</b> <i>If the number of registered Malicious Call List reaches to the maximum digits (1000 or 2000 lists), read this call history by this command, then identify the unnecessary calling party number for Malicious call and delete them from the Malicious Call list.</i></p>	
END		

## **HARDWARE REQUIRED**

Single Line Telephone

Analog telephone with LCD which supports Caller ID

Multiline Terminal

Standard SIP Terminal

## *MESSAGE CENTER INTERFACE (MCI)*

### SYSTEM OUTLINE

The Message Center Interface (MCI) provides an interface with a customer supplied Voice Mail System (VMS) which can send Message Waiting lamp control data to the PBX.

The MCI can provide the following operations.

- Incoming call information is sent to the VMS when a call to the VMS terminates.
- Control of Message Waiting lamps is based on information sent from the VMS.

The MCI interface is a half duplex EIA-RS232C/LAN asynchronous data link that operates under a specific message protocol and format.

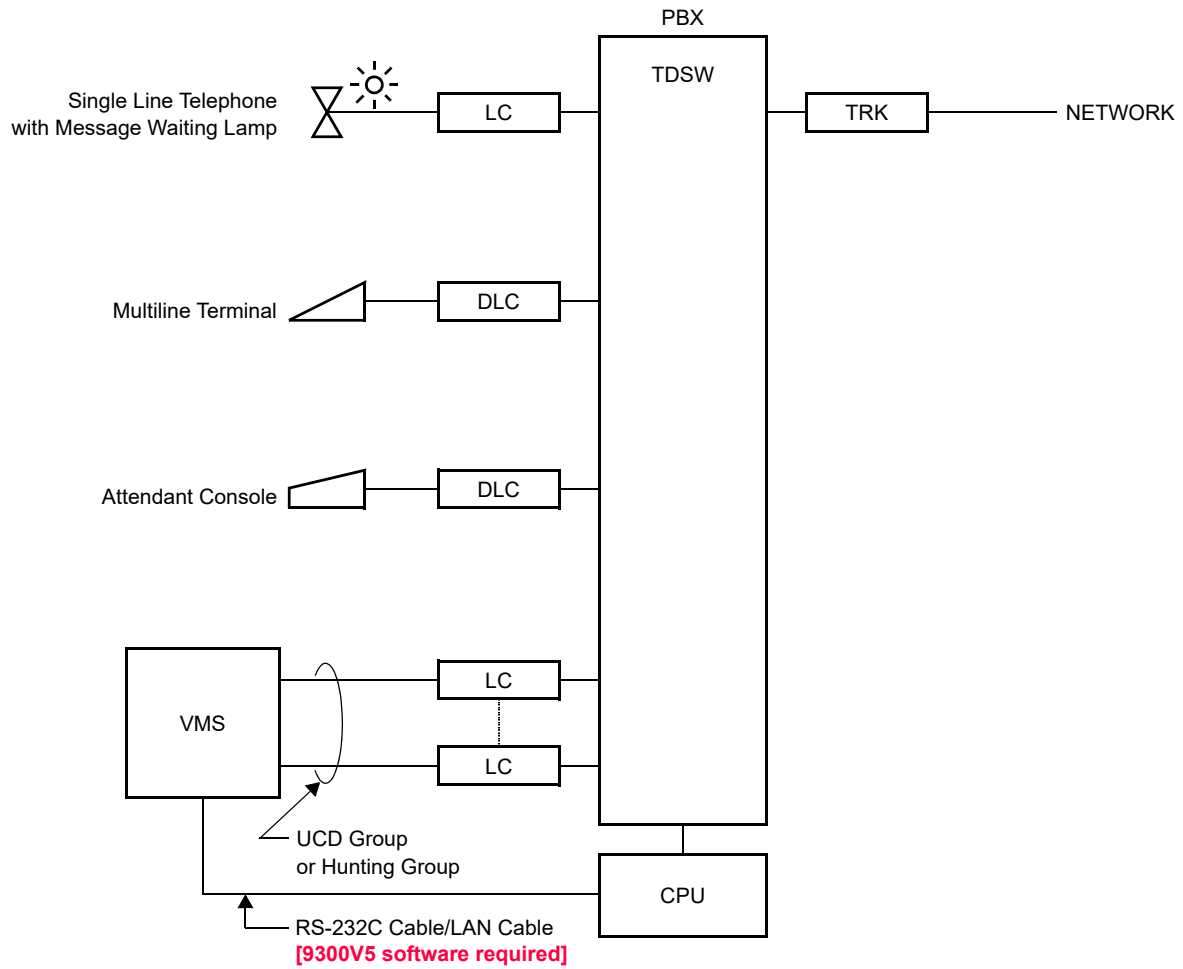
The system outline of the MCI is shown below.

#### MCI with CPU

The Central Processing Unit (CPU) is required to make a data link with a customer supplied VMS and the analog line circuit (LC) to interface with the VMS.

- CPU blade:  
The CPU stores call information for stations and provides the RS-232C ports or Ethernet/VOIP port **[9300V5 software required]** for a VMS.  
The CPU keeps supervising the status of the VMS. If the VMS is not ready for receiving information (Busy Status), the CPU temporarily stores the call information into its internal memory. The CPU stores call information of a maximum of 15 calls.
- LC blade:  
The LC is used for the VMS stations. The UCD or Station Hunting feature is usually provided with the VMS stations.

**System Outline of MCI with CPU**



- DLC : Digital Line Circuit Blade
- LC : Analog Line Circuit Blade
- CPU : Central Processing Unit
- TRK : COT, DTI, PRT, BRT Blade
- VMS : Voice Mail System
- TDSW: Time Division Switch

## **HARDWARE REQUIRED**

MCI with CPU

CPU blade

LC blade (for VMS station)

Single Line Telephone with MW lamp

8LC or 4LC blade

RS RVS-4S CA-A/RS RVS-15S CA-A or RS NORM-4S CA-A

LAN cable (UTP cable 10BASE-T/100BASE-TX/1000BASE-T)

Voice Mail System

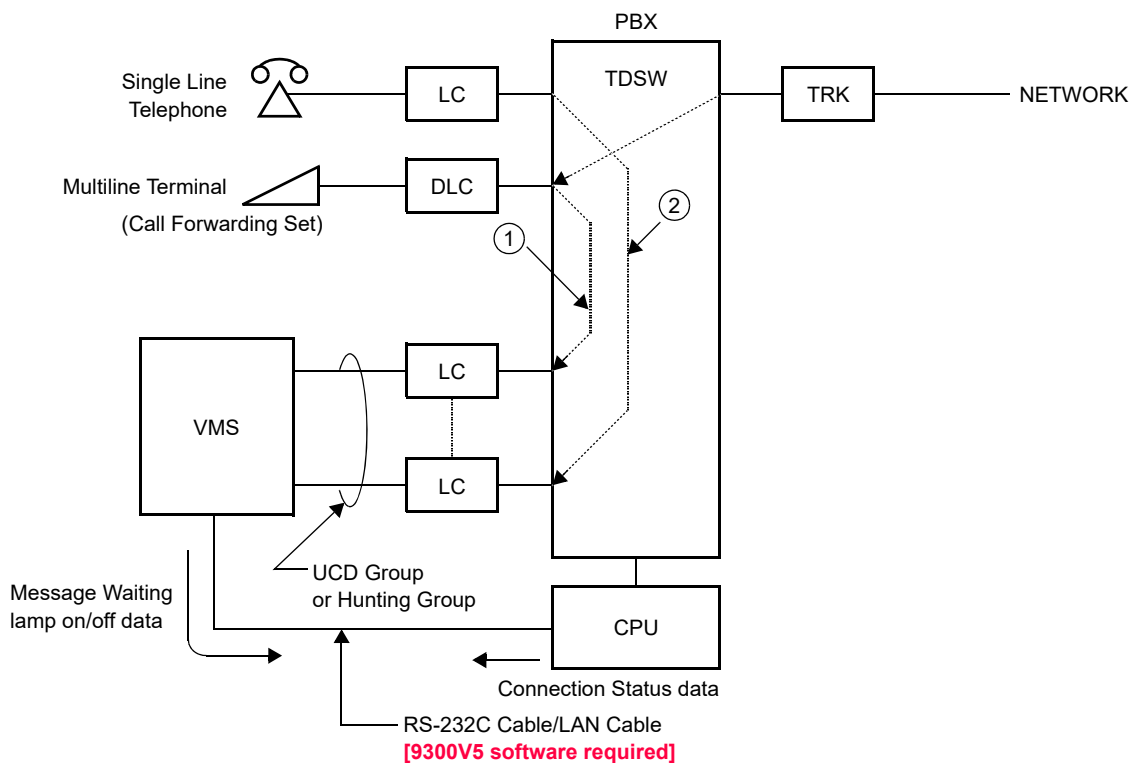


## SYSTEM OPERATION

As shown below, a direct call or a forwarded call from a station/trunk/Attendant to the VMS station in UCD group or Hunting group terminates.

When the call to the VMS is terminated, the CPU sends a call connection status information to the VMS through the MCI. If the ANI information is sent from the network, the ANI information can be added to the call connection status information by the system data programming (this feature is not available when the call is received from the CCIS trunk to the VMS). When the station/trunk/Attendant leaves a message in the VMS, the VMS sends a Message Waiting lamp ON data for the appropriate station through the PBX. After the station retrieves the messages, the VMS sends a Message Waiting lamp OFF data for the appropriate station through the PBX.

### MCI System Operation (MCI with CPU)



- ① : Forwarded Call from a trunk
- ② : Direct Call from a station

**Connecting Patterns**

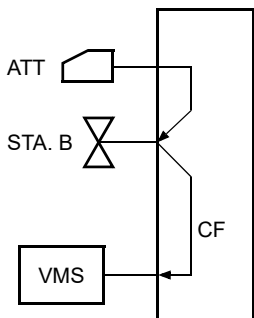
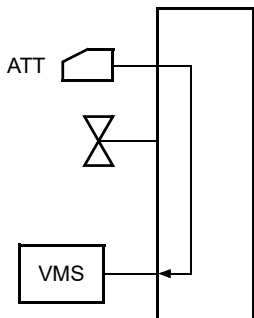
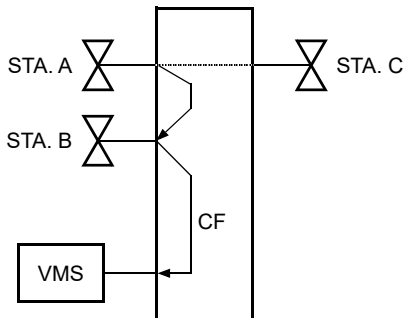
**STA : Station**  
**ATT : Attendant**  
**TRK: Trunk**

CALLING PARTY	CALLED PARTY	CONDITION OF CALL TERMINATION TO VMS	CONNECTING PATTERNS
STA. A	STA. B	STA. A calls STA. B set Forwarding-All Calls/Busy Line/No Answer to the VMS.	<p>The diagram shows a vertical trunk line. STA. A and STA. B are represented by valves on the left. A box labeled 'VMS' is at the bottom. A vertical line labeled 'CF' (Call Forwarding) runs down the trunk. Arrows indicate the path: STA. A calls STA. B, and the call is then forwarded to the VMS.</p>
STA. A	-	STA.A calls the VMS directly.	<p>The diagram shows a vertical trunk line. STA. A is represented by a valve on the left. A box labeled 'VMS' is at the bottom. An arrow indicates a direct path from STA. A to the VMS.</p>
STA. A	STA. B	After terminating a call from STA. A to the VMS and transferring the call to STA. B, STA. A recalls the VMS.	<p>The diagram shows a vertical trunk line. STA. A and STA. B are represented by valves on the left. A box labeled 'VMS' is at the bottom. Arrows indicate the path: STA. A calls the VMS, then the call is transferred to STA. B. A dashed arrow labeled 'Recall' points from STA. B back to the VMS, indicating that STA. A has recalled the VMS.</p>

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**Connecting Patterns**

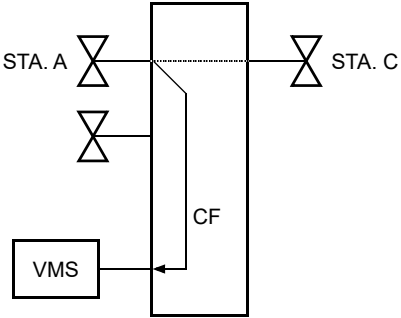
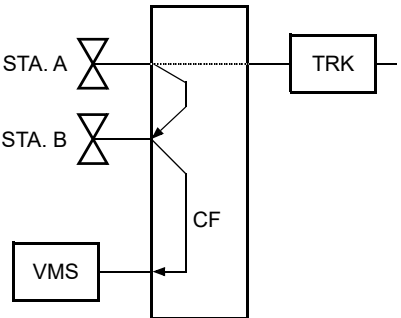
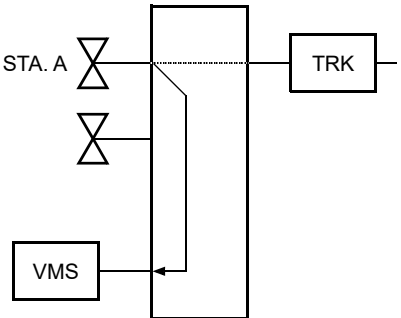
**STA : Station**  
**ATT : Attendant**  
**TRK: Trunk**

CALLING PARTY	CALLED PARTY	CONDITION OF CALL TERMINATION TO VMS	CONNECTING PATTERNS
ATT	STA. B	ATT calls STA. B set Call Forwarding-All Calls/Busy Line/No Answer to the VMS.	 <p>The diagram shows a vertical trunk line. On the left, there are three connection points: ATT (represented by a handset icon), STA. B (represented by a crossed-out handset icon), and VMS (represented by a box). On the right, there is a vertical line labeled 'CF'. A line connects ATT to the top of the CF line. Another line connects STA. B to the middle of the CF line. A line connects VMS to the bottom of the CF line. The CF line is a vertical bar with a horizontal line across its middle, and the letters 'CF' are written vertically inside it.</p>
ATT	-	ATT calls the VMS directly.	 <p>The diagram shows a vertical trunk line. On the left, there are three connection points: ATT (represented by a handset icon), a crossed-out handset icon, and VMS (represented by a box). On the right, there is a vertical line. A line connects ATT to the top of the vertical line. Another line connects the crossed-out handset icon to the middle of the vertical line. A line connects VMS to the bottom of the vertical line.</p>
STA. A	STA. B	After holding a call from STA. C, STA. A calls STA. B set Call Forwarding-All Calls/Busy Line/No Answer to the VMS.	 <p>The diagram shows a vertical trunk line. On the left, there are three connection points: STA. A (represented by a crossed-out handset icon), STA. B (represented by a crossed-out handset icon), and VMS (represented by a box). On the right, there is a vertical line labeled 'CF'. On the far right, there is another connection point: STA. C (represented by a crossed-out handset icon). A line connects STA. A to the top of the CF line. Another line connects STA. B to the middle of the CF line. A line connects VMS to the bottom of the CF line. A line connects STA. C to the right side of the CF line. The CF line is a vertical bar with a horizontal line across its middle, and the letters 'CF' are written vertically inside it.</p>

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**Connecting Patterns**

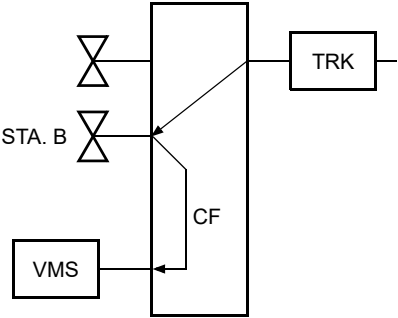
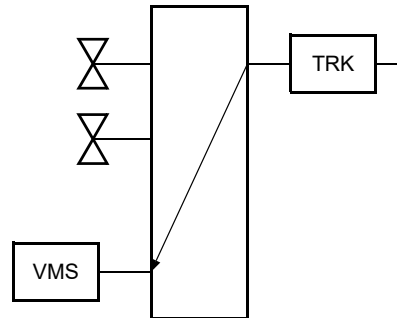
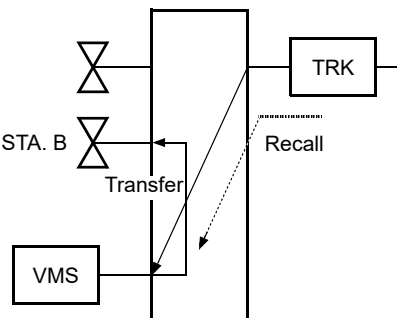
**STA : Station**  
**ATT : Attendant**  
**TRK: Trunk**

CALLING PARTY	CALLED PARTY	CONDITION OF CALL TERMINATION TO VMS	CONNECTING PATTERNS
STA. A	STA. C	After holding a call from STA. C, STA. A calls the VMS directly.	
STA. A	STA. B	After holding a call from TRK, STA. A calls STA. B set Call Forwarding-All Call/Busy Line/No Answer to the VMS.	
STA. A	TRK	After holding a call from TRK, STA. A calls the VMS directly.	

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**Connecting Patterns**

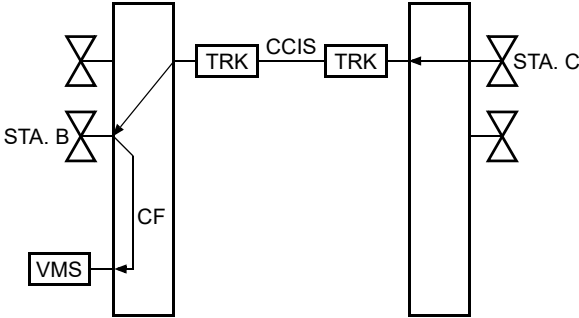
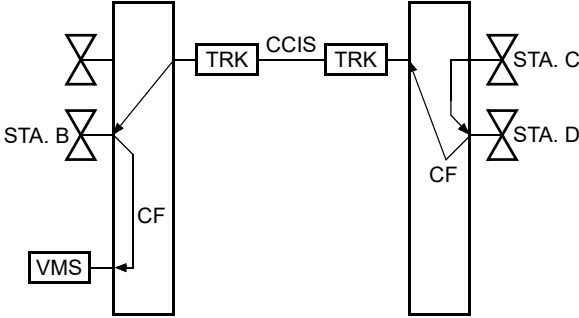
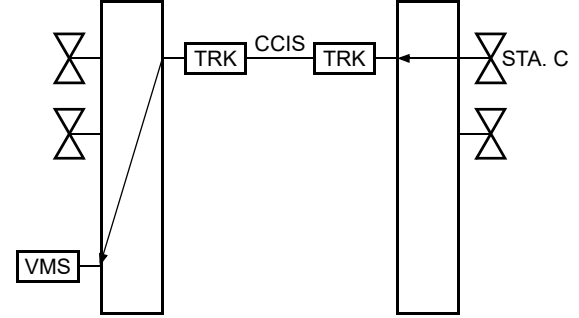
**STA : Station**  
**ATT : Attendant**  
**TRK: Trunk**

CALLING PARTY	CALLED PARTY	CONDITION OF CALL TERMINATION TO VMS	CONNECTING PATTERNS
TRK	STA. B	A TRK party calls STA. B set Call Forwarding-All Calls/ Busy Line/No Answer to the VMS.	 <p>The diagram shows a central vertical rectangle representing a switch. On the left, there are two valve symbols. The top one is labeled 'TRK' and the bottom one 'STA. B'. On the right, there is a box labeled 'TRK'. At the bottom left, there is a box labeled 'VMS'. A line from the 'TRK' valve on the left goes to the top of the switch. A line from the 'STA. B' valve goes to the middle of the switch. A line from the 'VMS' box goes to the bottom of the switch. A line from the top of the switch goes to the 'TRK' box on the right. A line from the middle of the switch goes to the 'VMS' box, labeled 'CF'.</p>
TRK	-	A TRK party calls the VMS directly.	 <p>The diagram shows a central vertical rectangle representing a switch. On the left, there are two valve symbols. On the right, there is a box labeled 'TRK'. At the bottom left, there is a box labeled 'VMS'. A line from the top valve on the left goes to the top of the switch. A line from the bottom valve on the left goes to the middle of the switch. A line from the 'VMS' box goes to the bottom of the switch. A line from the top of the switch goes to the 'TRK' box on the right. A line from the middle of the switch goes to the 'VMS' box.</p>
TRK	STA. B	After terminating a call from TRK to the VMS and transferring the call to STA. B, TRK recalls to the VMS.	 <p>The diagram shows a central vertical rectangle representing a switch. On the left, there are two valve symbols. The top one is labeled 'TRK' and the bottom one 'STA. B'. On the right, there is a box labeled 'TRK'. At the bottom left, there is a box labeled 'VMS'. A line from the 'TRK' valve on the left goes to the top of the switch. A line from the 'STA. B' valve goes to the middle of the switch. A line from the 'VMS' box goes to the bottom of the switch. A line from the top of the switch goes to the 'TRK' box on the right. A line from the middle of the switch goes to the 'VMS' box, labeled 'Transfer'. A dashed line from the 'TRK' box on the right goes to the 'VMS' box, labeled 'Recall'.</p>

Continued on next page

**Connecting Patterns**

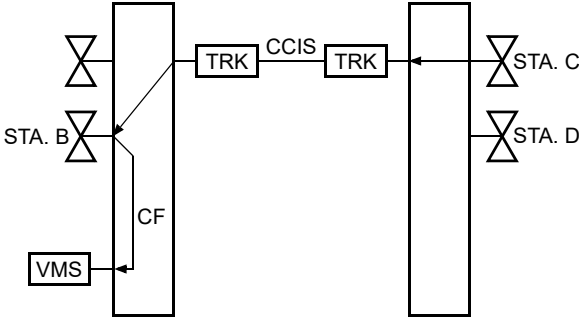
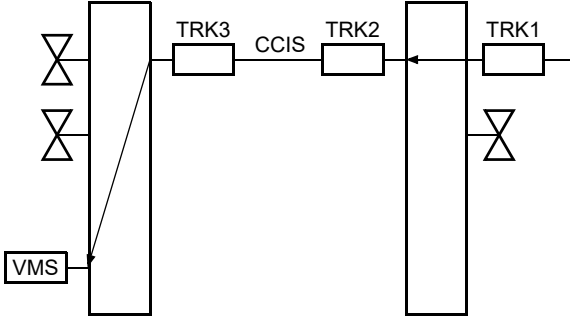
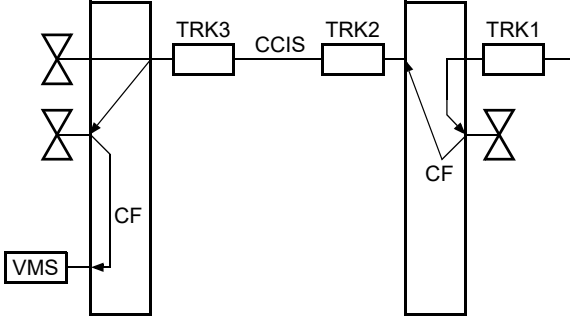
**STA : Station**  
**ATT : Attendant**  
**TRK: Trunk**

CALLING PARTY	CALLED PARTY	CONDITION OF CALL TERMINATION TO VMS	CONNECTING PATTERNS
STA. C	STA. B	In CCIS application, STA. C calls STA. B set Call Forwarding-All Calls/Busy Line/No Answer to the VMS.	 <p>The diagram illustrates the connecting pattern for a call from STA. C to STA. B. On the left, a vertical bar represents the calling station (STA. C) with two valve symbols. Below it, another vertical bar represents the called station (STA. B) with two valve symbols. A box labeled 'VMS' is at the bottom left. A line labeled 'CF' (Call Forwarding) connects the bottom of the STA. B bar to the VMS box. A line labeled 'TRK' (Trunk) connects the top of the STA. B bar to a central 'TRK' box. From this 'TRK' box, a line labeled 'CCIS' (Call Center Interface System) connects to another 'TRK' box. From this second 'TRK' box, a line connects to the top of a vertical bar on the right representing the receiving station (STA. C) with two valve symbols. A return line goes from the top of the STA. C bar back to the second 'TRK' box, and another return line goes from the top of the STA. C bar back to the top of the STA. B bar.</p>
STA. C	STA. D	In CCIS application, STA. C calls STA. D set Call Forwarding-All Calls/Busy Line/No Answer to STA. B. (The call is forwarded to the VMS by the Multiple Call Forwarding).	 <p>The diagram illustrates the connecting pattern for a call from STA. C to STA. D. On the left, a vertical bar represents the calling station (STA. C) with two valve symbols. Below it, another vertical bar represents the called station (STA. D) with two valve symbols. A box labeled 'VMS' is at the bottom left. A line labeled 'CF' (Call Forwarding) connects the bottom of the STA. D bar to the VMS box. A line labeled 'TRK' (Trunk) connects the top of the STA. D bar to a central 'TRK' box. From this 'TRK' box, a line labeled 'CCIS' (Call Center Interface System) connects to another 'TRK' box. From this second 'TRK' box, a line connects to the top of a vertical bar on the right representing the receiving station (STA. C) with two valve symbols. A return line goes from the top of the STA. C bar back to the second 'TRK' box, and another return line goes from the top of the STA. C bar back to the top of the STA. D bar.</p>
STA. C	-	In CCIS application, STA. C calls the VMS directly.	 <p>The diagram illustrates the connecting pattern for a direct call from STA. C to the VMS. On the left, a vertical bar represents the calling station (STA. C) with two valve symbols. A box labeled 'VMS' is at the bottom left. A line connects the bottom of the STA. C bar directly to the VMS box. A line labeled 'TRK' (Trunk) connects the top of the STA. C bar to a central 'TRK' box. From this 'TRK' box, a line labeled 'CCIS' (Call Center Interface System) connects to another 'TRK' box. From this second 'TRK' box, a line connects to the top of a vertical bar on the right representing the receiving station (STA. C) with two valve symbols. A return line goes from the top of the STA. C bar back to the second 'TRK' box, and another return line goes from the top of the STA. C bar back to the top of the STA. C bar.</p>

Continued on next page

**Connecting Patterns**

**STA : Station**  
**ATT : Attendant**  
**TRK: Trunk**

CALLING PARTY	CALLED PARTY	CONDITION OF CALL TERMINATION TO VMS	CONNECTING PATTERNS
STA. C	STA. B	In CCIS application, after holding a call from STA. D, STA. C calls STA. B set Call Forwarding-All Calls/Busy Line/No Answer to the VMS.	 <p>The diagram shows two vertical bars representing switchboards. The left bar has three call indicators (triangles) and a 'VMS' box. The right bar has two call indicators labeled 'STA. C' and 'STA. D'. A 'TRK' box is connected to the top of the left bar, and another 'TRK' box is connected to the top of the right bar. A line labeled 'CCIS' connects these two 'TRK' boxes. A line labeled 'CF' connects the top of the left bar to the top of the right bar. A line labeled 'VMS' connects the 'VMS' box to the bottom of the left bar.</p>
TRK1	-	In CCIS application, a TRK1 party dials the VMS directly.	 <p>The diagram shows two vertical bars representing switchboards. The left bar has three call indicators and a 'VMS' box. The right bar has one call indicator labeled 'TRK1'. A 'TRK3' box is connected to the top of the left bar, and a 'TRK2' box is connected to the top of the right bar. A line labeled 'CCIS' connects these two 'TRK' boxes. A line connects the 'VMS' box to the bottom of the left bar.</p>
TRK1	STA. D	In CCIS application, a TRK1 party calls STA. D set Call Forwarding-All Calls/Busy Line/No Answer to STA. B. (The call is forwarded to the VMS by the Multiple Call Forwarding).	 <p>The diagram shows two vertical bars representing switchboards. The left bar has three call indicators and a 'VMS' box. The right bar has two call indicators labeled 'TRK1' and 'STA. D'. A 'TRK3' box is connected to the top of the left bar, and a 'TRK2' box is connected to the top of the right bar. A line labeled 'CCIS' connects these two 'TRK' boxes. A line labeled 'CF' connects the top of the left bar to the top of the right bar. A line labeled 'VMS' connects the 'VMS' box to the bottom of the left bar.</p>

When the PBX receives Message Waiting lamp control data from the VMS, the Message Waiting lamps of the called stations turn on or off.



## PROGRAMMING

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### Precaution

Before programming the system data for MCI, confirm that the system is under the following status.

- The system is under On-Line mode (“RUN” LED is flashing on the CPU blade).
- All the system data pertaining to the station, trunks, and services are already programmed.

## MCI Programming

In addition to the programming of Call Forwarding to the VMS stations, or the programming of UCD Group/Station Hunting Group to the VMS stations, do the following programming. As for these feature programming, refer to each feature in this manual.

START	DESCRIPTION	DATA
CM08	Specify the type of VMS which is accommodated to the system.  <b>NOTE:</b> <i>For VMS with MCI, set the 2nd data "0".</i>	(1) 443 (2) 0 : As per CM12 Y=25 1◀: VMS with DTMF
CM12	Specify the type of the VMS Station.  <b>NOTE:</b> <i>CM12 Y=25 is effective only when CM08&gt;443 is set to "0".</i>	• Y=25 (1) X-XXXXXXXX: Station No. (VMS station) (2) 0 : VMS with DTMF 3◀: VMS with MCI
CM08	Specify Message Waiting control from VMS with MCI to all stations.  <b>NOTE:</b> <i>MW lamp control is only available to the stations in the opposite PBX connected with CCIS via MCI. Station dialing MW access codes are not allowed over CCIS.</i>	(1) 444 (2) 0 : Available 1◀: Not available
	Specify whether Message Waiting from the VMS is provided for the called station when a forwarded call is terminated to the VMS via CCIS.	(1) 376 (2) 0 : To provide 1◀: Not provided
A		

A	DESCRIPTION	DATA
CM13	Provide Message Waiting for a station with MW lamp.  <b>NOTE:</b> <i>This command is effective only when using a Single Line Telephone with MW lamp, Standard SIP Terminal.</i>  Provide VMS service for a station port interface with the VMS (VMS station).	<ul style="list-style-type: none"> <li>Y=03</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To provide</li> </ul>
CM12	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>Y=10</li> <li>(1) X-XXXXXXXX: Station No. (VMS station)</li> <li>(2) 0: To provide</li> </ul>
CM15	Specify if MW lamp on Multiline Terminal when Message Center Interface (MCI) is to be lit.  <b>NOTE:</b> <i>This command is effective only when using the Multiline Terminal.</i>	<ul style="list-style-type: none"> <li>Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul> <ul style="list-style-type: none"> <li>Y=286</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : Not lit 1◀: To light</li> </ul>
CM90	Assign the MW lamp key on a Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1005: MW Lamp</li> </ul>
CM65	Assign the calling party number sent to MCI when accessing VMS from a sub line assigned on Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=34</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : Sub Line station No. 1◀: My Line station No.</li> </ul>

When providing the RS-232C connection  
[Page 1-488](#)

When providing the LAN connection  
**[9300V5 software required]**  
[Page 1-491](#)

To provide a RS-232C connection:

B	DESCRIPTION	DATA
CM04	Select the RS port for MCI connection.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 01</li> <li>(2) 0: RS Port</li> </ul>
CM08	Assign the number of digits for station number in MCI message format sent to the VMS from the CPU RS-232C port.	<ul style="list-style-type: none"> <li>(1) 708</li> <li>(2) 0 : 6 digits</li> <li>1◀: 8 digits</li> </ul>
CM40	Assign the function of RS-232C ports.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 0: Unit01 Port 1</li> <li>1: Unit01 Port 2</li> <li>4: Unit02 Port 1 <b>NOTE 1</b></li> <li>5: Unit02 Port 2 <b>NOTE 1</b></li> <li>6: Unit03 Port 1 <b>NOTE 1</b></li> <li>7: Unit03 Port 2 <b>NOTE 1</b></li> <li>(2) 10: MCI <b>NOTE 2</b></li> <li>11: MCI and SMDR <b>NOTE 2</b></li> </ul>
<p><b>NOTE 1:</b> CM40 Y=00&gt;4-7 (Port Location Numbers 4-7) are available when resetting the system or wait for 10 minutes after this data setting.</p>		
<p><b>NOTE 2:</b> When a port is used for MCI exclusively, assign the 2nd data to 10. When a port is used for both MCI and SMDR, assign the 2nd data to 11.</p>		
C		

C

**DESCRIPTION**

**DATA**

CM40

Assign the attribute of the VMS with MCI.

- Y=01-06, 08
- (1) See the following table.
- (2) See the following table.

◀: Default

Y		1st DATA		2nd DATA	
No.	MEANING	DATA	PORT LOCATION No.	DATA	MEANING
01	Data length	0	Unit01 Port 1	0	7 bit
		1	Unit01 Port 2	1◀	8 bit
02	Parity check	4	Unit02 Port 1	0	Effective
		5	Unit02 Port 2	1◀	Ineffective
		6	Unit03 Port 1		
03	Kind of parity	7	Unit03 Port 2	0	Odd parity
				1◀	Even parity
04	Stop bit			0	1-Stop bit
				1◀	2-Stop bit
05	DTR signal sent to terminal			0	Low
				1◀	High
06	RTS signal sent to terminal			0	Low
				1◀	High
08	Data speed			1	1200 bps
				2	2400 bps
				3	4800 bps
				4	9600 bps
				5	19200 bps
				NONE◀	9600 bps

**NOTE:** Assign the data according to the attribute of the VMS.

D

D	DESCRIPTION	DATA
CM35	<p>Provide sending of ANI information from network to the VMS with MCI.</p> <p><b>NOTE:</b> <i>Set this command to add Automatic Number Identification (ANI) information to the MCI message format when the ANI information is sent from the network.</i></p>	<ul style="list-style-type: none"> <li>• Y=138</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To send</li> </ul>
CM08	<p>For MCI with CPU, specify the MCI message format sent to the VMS from the CPU RS-232C port as Format with ANI.</p> <p><b>NOTE:</b> <i>Set this command to add Automatic Number Identification (ANI) information to the MCI message format when the ANI information is sent from the network.</i></p>	<ul style="list-style-type: none"> <li>(1) 709</li> <li>(2) 0: Format with ANI</li> </ul>
<u>END</u>		

To provide a LAN connection **[9300V5 software required]**:

E	DESCRIPTION	DATA
CM04	Select the LAN port for MCI connection.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 01</li> <li>(2) 2: LAN Port</li> </ul>
CM0B	Assign the IP address/Subnet Mask/Default Gateway of the system for the Maintenance/VOIP Port.	<ul style="list-style-type: none"> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])</li> <li>• Y=101 (VOIP Port [1] + Unit No. [01])</li> </ul> <p>(1) 00: IP Address <b>RESET</b></p> <p>(2) XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: IP Address (Maximum 15 digits) NONE◀: 192.168.1.1</p> <ul style="list-style-type: none"> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])</li> <li>• Y=101 (VOIP Port [1] + Unit No. [01])</li> </ul> <p>(1) 01: Subnet Mask <b>RESET</b></p> <p>(2) XXX.XXX.XXX.XXX: 255.0.0.0-255.255.255.252: Subnet Mask (Maximum 15 digits) NONE◀: No data</p> <ul style="list-style-type: none"> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])</li> <li>• Y=101 (VOIP Port [1] + Unit No. [01])</li> </ul> <p>(1) 02: Default Gateway <b>RESET</b></p> <p>(2) XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: Default Gateway Address (Maximum 15 digits) NONE◀: No data</p>
F		

**NOTE:** *The second data must be entered including the periods (.).*

F	DESCRIPTION	DATA
CM0B	Select the port for MCI.	<ul style="list-style-type: none"> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])</li> <li>(1) 94: Port Selection for MCI <b>RESET</b></li> <li>(2) 0 : Maintenance Port</li> <li>1 ◀: VOIP Port</li> </ul>
	Assign the TCP port number for MCI.	<ul style="list-style-type: none"> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])</li> <li>(1) 148: TCP Port No. for MCI <b>RESET</b></li> <li>(2) 1024-65534</li> <li>NONE ◀: 60020</li> </ul>
CM08	Specify the kind of parity for MCI over IP.	<ul style="list-style-type: none"> <li>(1) 2400</li> <li>(2) 00 : Odd parity</li> <li>01 : Even parity</li> <li>NONE ◀: No parity</li> </ul>
<u>END</u>		



## MESSAGE REMINDER

### PROGRAMMING

To provide Message Reminder service for each station:

START	DESCRIPTION	DATA
CM08	<p>To activate Single Digit Feature Access Code (1, 2, 3 and 6) feature, set the data for 050, 051, 069 and 148 to "1".</p> <p><b>NOTE:</b> <i>A single digit access code "6" is fixedly assigned to set Message Reminder.</i></p> <p>Provide the system with Single Digit Feature Access Code on RBT or Voice Call Connection.</p> <p>Provide the system with Single-Digit Feature Access Code on busy Connection.</p> <p>Specify whether to delete Call History-No Answer/Message Waiting irrespective of the station answering when calling back to the Call History-No Answer or the Message Waiting.</p> <p>Specify whether to delete all stored Call History-No Answer/Message Waiting of the calling station when answering the call.</p> <p>Specify the sending of Special Dial Tone for Attendant Console or station when dialing a feature access code.</p>	<p>(1) 050: * button as Switch Hook-Flash (2) 1◀: Ineffective</p> <p>(1) 051: # button as Switch Hook Flash (2) 1◀: Ineffective</p> <p>(1) 069: Single-Digit Dialing on BT Connection (2) 1◀: Step Call</p> <p>(1) 148: Same Last Digit Redialing on BT Connection (2) 1◀: Ineffective</p> <p>(1) 156 (2) 0: Available</p> <p>(1) 208 (2) 0: Available</p> <p>(1) 234 (2) 0 : To delete 1◀: Not delete (To delete only when answering)</p> <p>(1) 235 (2) 0 : To delete 1◀: Not delete</p> <p>(1) 236 (2) 0 : Tone is not sent 1◀: Tone is sent</p>
A		

A	DESCRIPTION	DATA
CM08	<p>Assign the Lamp color on Multiline Terminal when Message Reminder is set.</p> <p><b>NOTE:</b> <i>When the second data is set to "0" (Green), the Icon to be displayed on multiline terminal normally is not displayed.</i></p>	<p>(1) 144  (2) 0 : Green  1◀: Red</p>
CM13	<p>Specify Message Waiting lamp indication on the station to which Message Reminder is set.</p> <p>Specify whether to provide Message Waiting for a station with MW lamp.</p> <p><b>NOTE:</b> <i>This command is effective only when using a Single Line Telephone with MW lamp, Standard SIP Terminal.</i></p>	<p>(1) 294  (2) 0 : Flashing (60 IPM)  1◀: Steady Lighting</p> <ul style="list-style-type: none"> <li>• Y=03</li> </ul> <p>(1) X-XXXXXXXX: Station No.  (2) 0 : To provide  1◀: Not provided</p>
CM12	<p>Assign Service Restriction Class C to each station.</p>	<ul style="list-style-type: none"> <li>• Y=07</li> </ul> <p>(1) X-XXXXXXXX: Station No.  (2) 00-15◀: Service Restriction Class C</p>
CM15	<p>Specify if MW lamp on Multiline Terminal when Message Reminder is to be lit.</p> <p><b>NOTE:</b> <i>This command is effective only when using the Multiline Terminal.</i></p>	<ul style="list-style-type: none"> <li>• Y=284</li> </ul> <p>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07  (2) 0 : Not lit  1◀: To light</p>
CM12	<p>Assign Service Restriction Class A for Message Reminder to required stations.</p>	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> <p>(1) X-XXXXXXXX: Station No.  (2) XX ZZ  XX: 00-15◀: Service Restriction Class A</p>
CM15	<p>Allow Message Reminder in Service Restriction Class A assigned by CM12 Y=02.</p>	<ul style="list-style-type: none"> <li>• Y=047 Message Reminder (Setting Side)</li> <li>• Y=048 Message Reminder (Set Side)</li> </ul> <p>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02  (2) 1◀: Allow</p>
B		

B	DESCRIPTION	DATA
CM20	Assign the access code for Message Reminder Search, Retrieve, Set and Cancel, respectively.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group (0-3)</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A146: Message Reminder Search A147: Message Reminder Retrieve A148: Message Reminder Set A149: Message Reminder Cancel</li> </ul>
CM90	Assign the MSG key to each Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F0A46: Call History Screen Start F1005 : Message Reminder Retrieve</li> </ul>
<u>END</u>		

To provide CID Call Back, add the following programming:

START	DESCRIPTION	DATA
CM35	Assign the data for storing the call history (IC) when answering a trunk call/handling of an unanswered trunk call.	<ul style="list-style-type: none"> <li>• Y=150</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To store</li> </ul>
CM13	<p>Assign the data for storing the call history (IC) when answering a trunk call.</p> <p><b>NOTE:</b> <i>The 2ND DATA of this command is automatically set to 0 (To provide) when Digital Multiline terminal/IP station No. (FX-FXXXXXXXX) is assigned by CM10 Y=00/01.</i></p> <p>Assign the data for storing the call history (IC) when handling of an unanswered trunk call.</p> <p><b>NOTE:</b> <i>The 2ND DATA of this command is automatically set to 0 (To provide) when Digital Multiline terminal/IP station No. (FX-FXXXXXXXX) is assigned by CM10 Y=00/01.</i></p>	<ul style="list-style-type: none"> <li>• Y=60</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To store</li> </ul> <ul style="list-style-type: none"> <li>• Y=61</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To store</li> </ul>
<u>END</u>		

To store the calling number automatically when the station call via CCIS is abandoned, do the following programming:

START	DESCRIPTION	DATA
CM35	Assign the Pattern number for adding an access code for outgoing call to the calling number stored by Message Reminder when terminating a tandem call via CCIS/SIP trunk.	<ul style="list-style-type: none"> <li>• Y=279</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0-7 : Pattern No. 0-7</li> <li>NONE◀: No data</li> </ul>
	Assign the data for storing the call history (IC) when answering a trunk call/handling of an un-answered trunk call.	<ul style="list-style-type: none"> <li>• Y=150</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To store</li> </ul>
CM50	Assign the Pattern number for adding an access code for outgoing call to the calling number stored by Message Reminder when terminating a tandem call via CCIS/SIP trunk.	<ul style="list-style-type: none"> <li>• Y=11</li> <li>(1) 0-7: Pattern No. 0-7 assigned by CM35 Y=279</li> <li>(2) X-XXXXXX: Access Code for outgoing call (1-6 digits)</li> <li>X : 0-9, A (*), B (#)</li> <li>NONE◀: No data</li> </ul>
END		

The specify whether to light MW lamp on Multiline Terminal for each service of MW lamp control, refer to the programming in INCOMING CALL HISTORY (CID CALL BACK). [Page 1-157](#)

## HARDWARE REQUIRED

Single Line Telephone with MW Lamp  
8LC or 4LC blade

# MESSAGE WAITING

## PROGRAMMING

Refer to the DSS/BLF Console feature to program the DSS/BLF as a Message Front Station.

START	DESCRIPTION	DATA												
CM12	Assign Service Restriction Class A for Message Waiting to required stations as shown below.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>												
CM15	Assign the function of Message Waiting in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=024 Administrative station allowing Message Waiting Set/Reset to station</li> <li>Y=040 Station setting MW</li> <li>(1) 00-15: Service Restriction Class A</li> <li>(2) 0 : Restricted 1◀: Allow</li> </ul>												
	<table border="1"> <thead> <tr> <th>STATION/ADMINISTRATIVE</th> <th>CM15 Y=024</th> <th>CM15 Y=040</th> </tr> </thead> <tbody> <tr> <td>Station w/o MW Lamp</td> <td>0</td> <td>0</td> </tr> <tr> <td>Station with MW Lamp</td> <td>0</td> <td>1</td> </tr> <tr> <td>Administrative station</td> <td>1</td> <td>0</td> </tr> </tbody> </table>	STATION/ADMINISTRATIVE	CM15 Y=024	CM15 Y=040	Station w/o MW Lamp	0	0	Station with MW Lamp	0	1	Administrative station	1	0	
STATION/ADMINISTRATIVE	CM15 Y=024	CM15 Y=040												
Station w/o MW Lamp	0	0												
Station with MW Lamp	0	1												
Administrative station	1	0												
CM13	Specify whether to provide Message Waiting for a station with MW lamp.  <b>NOTE:</b> <i>This command is effective only when using a Single Line Telephone with MW lamp, Standard SIP Terminal.</i>	<ul style="list-style-type: none"> <li>Y=03</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To provide 1◀: Not provided</li> </ul>												
CM12	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>												
CM15	Specify if MW lamp on Multiline Terminal when Message Waiting is to be lit.  <b>NOTE:</b> <i>This command is effective only when using the Multiline Terminal.</i>	<ul style="list-style-type: none"> <li>Y=286</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : Not lit 1◀: To light</li> </ul>												
A														

A	DESCRIPTION	DATA
CM20	Assign an Access Code for Message Waiting Set, Reset and Retrieve.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A040: MW Lamp Control Set A041: MW Lamp Control Reset A147: MW Retrieve</li> </ul>
CM51	Assign the Message Front destination of the MW retrieve call from the station to which Message Waiting is set.  <b>NOTE:</b> <i>By pressing MW Retrieve access code or MW key on Multiline Terminal, the call is routed to the destination.</i>	<ul style="list-style-type: none"> <li>• Y=15</li> <li>(1) 00-63: Tenant No. to which MW set Multiline Terminal belongs</li> <li>(2) X-XXXXXXXX: Message Front Station No./My Line No. E000 : Attendant Console</li> </ul>
CM08	Assign the Lamp color on Multiline Terminal when Message Waiting is set.  <b>NOTE:</b> <i>When the second data is set to "0" (Green), the Icon to be displayed on multiline terminal normally is not displayed.</i>	<ul style="list-style-type: none"> <li>(1) 144</li> <li>(2) 0 : Green 1◀: Red</li> </ul>
	Specify the Message Lamp Indication Pattern on Multiline Terminal.	<ul style="list-style-type: none"> <li>(1) 294</li> <li>(2) 0 : Flashing (60 IPM) 1◀: Steady Lighting</li> </ul>
	If an Attendant Console is assigned as the Message Front destination by CM51 Y=15, set the data for 233 to 0. With this setting, Message Waiting is automatically reset when the attendant answers.	<ul style="list-style-type: none"> <li>(1) 233</li> <li>(2) 0: Available</li> </ul>
	Specify whether to delete Call History-No Answer/Message Waiting irrespective of the station answering when calling back to the Call History-No Answer or the Message Waiting.	<ul style="list-style-type: none"> <li>(1) 234</li> <li>(2) 0 : To delete 1◀: Not delete (To delete only when answering)</li> </ul>
	Specify whether to delete all stored Call History-No Answer/Message Waiting of the calling station when answering the call.	<ul style="list-style-type: none"> <li>(1) 235</li> <li>(2) 0 : To delete 1◀: Not delete</li> </ul>
B		

B	DESCRIPTION	DATA
CM08	Specify Message Waiting Lamp Indication Pattern on Single Line Terminal.	(1) 394 (2) 0 : Flashing (1 second ON-1 second OFF) 1◀: Steady lighting
CM90	Assign the Message Waiting function key to required Multiline Terminal and the administrative stations.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) For administrative station F0040: Message Waiting Set F0041: Message Waiting Reset</li> </ul>
	Assign the Message Waiting key to DESK-CON.	<ul style="list-style-type: none"> <li>For set station without MW Lamp F1005: Message Waiting Lamp</li> <li>• Y=00</li> <li>(1) DESKCON No. (E000-E007) + <input type="text"/> + Key No.</li> <li>(2) F6101: Message Waiting F6104: Reset</li> </ul>
END		

The specify whether to light MW lamp on Multiline Terminal for each service of MW lamp control, refer to the programming in INCOMING CALL HISTORY (CID CALL BACK). [Page 1-157](#)

## HARDWARE REQUIRED

Single Line Telephone with the MW Lamp

8LC or 4LC blade

Multiline Terminal and DLC blade, if required.

## ***MFC INCOMING CALL/OUTGOING CALL***

### **NOTICE ON PROGRAMMING**

- If the number of received digits does not coincide with the number of digits of station number, assign the digit addition/deletion by CM35 Y=017.
- If received digits do not coincide with the station number, assign the digit conversion by CM76.
- If an incoming call must be transferred to Attendant Console by station busy, restriction of termination or receiving unassigned number, assign the transfer destination by CM51 Y=03 or 06.
- If the Answer Signal from PSTN exists for DOD connection, assign the Answer Signal by CM35 Y=004.
- DOD with Multi Frequency Compelled (MFC)-R2 Signaling is performed by using LCR feature.
- For the data assignment of the each country, refer to DATA ASSIGNMENT FOR EACH COUNTRY. [📄 Page 1-532](#)



## OUTLINE OF MFC-R2 SIGNALING

The MFC-R2 Signaling is based on inter-register signal of system R2 recommended by ITU-T. This signaling is performed end-to-end by 2-out-of-6 in-band multi frequency codes with forward and backward compelled signaling. The MFC-R2 is designed to use six (6) signaling frequencies in the forward or backward direction.

The system can provide the following functions through the MFC-R2 Signaling.

- Direct Inward Dialing (DID)
- Direct Outward Dialing (DOD)
- Automatic Number Identification (ANI)\*

\* ANI is the function to inform the station number of calling party to the Public Switching Telephone Network (PSTN) for message accounting.

## PROGRAMMING

### (1) MFC Signaling Common Data Assignment

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the DTI (E1 2 Mbps) blade.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 47: DTI (E1 2 Mbps) blade</li> </ul>
	<p style="text-align: center;"><b>BLADE RESET</b></p> <p><b>NOTE 1:</b> <i>When PRT blade is used as a DTI blade for the first time, the PRI firmware program need to be changed to the DTI firmware program by executing the blade firmware program update. For details, refer to the PC Programming Manual.</i></p> <p><b>NOTE 2:</b> <i>When the setting of more than 16 Highway Channels are required for a DTI blade, reassign the Highway Channel (108 ch) allocation by CMF7 Y=9. <a href="#">Page 1-294</a></i></p>	
CM10	Assign a Trunk blade number to the DTI (E1 2 Mbps) blade.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 000-127: Trunk blade No.</li> </ul>
	<p style="text-align: center;"><b>BLADE RESET</b></p> <p>Assign trunk numbers to Physical Port number on the DTI (E1 2 Mbps) blade. Circuit No. 16 cannot be assigned.</p> <p style="text-align: center;"><b>BLADE RESET</b></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-15, 17-31: Circuit No.</li> <li>(2) D000-D511: Trunk No.</li> </ul>
A		

A	DESCRIPTION	DATA
CM30	Assign a trunk route number for tie line interface to each DTI (E1 2 Mbps). <div style="text-align: right; border: 1px solid black; border-radius: 10px; padding: 2px;">BLADE RESET</div>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) 00-63: Trunk Route No.</li> </ul>
	<p><b>NOTE:</b> <i>The DTI route must be separated from any analog trunk route.</i></p>	
CM35	Assign trunk route data to each DTI (E1 2 Mbps) trunk route.	<ul style="list-style-type: none"> <li>• Y=000 Kind of Trunk Route</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00: DDD trunk</li>   <li>• Y=001 Dialing signal type</li> <li style="text-align: right;"><div style="border: 1px solid black; border-radius: 10px; padding: 2px;">BLADE RESET</div></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 4: DTMF (Incoming) DTMF (Outgoing)</li>   <li>• Y=004 Answer signal from distant office</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 2: Answer signal arrives</li>   <li>• Y=005 Release signal from distant office</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li>   <li>• Y=009 Incoming connection signaling</li> <li style="text-align: right;"><div style="border: 1px solid black; border-radius: 10px; padding: 2px;">BLADE RESET</div></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 03: Wink Start 06: 2nd DT/Timing Start-Tie line</li>   <li>• Y=020 Sender start condition</li> <li style="text-align: right;"><div style="border: 1px solid black; border-radius: 10px; padding: 2px;">BLADE RESET</div></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00 : Wink Start 15◀: Timing Start (Prepause per CM35 Y=021)</li> </ul>
	<p><b>NOTE:</b> <i>This data must be assigned with CM35 Y=009&gt;10: 03 (Wink Start) and CM35 Y=020&gt;10: 00 (Wink Start).</i></p>	
B		

B	DESCRIPTION	DATA
CM04	Assign the destination to receive the synchronous signal for DTI (E1 2 Mbps). <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>• Y=10-59</li> <li>(1) 01: First priority 02: Second priority</li> <li>(2) 01-18: Slot No.</li> </ul>
	<p><b>NOTE 1:</b> Assign this data when the system is a slave office and receives the clock synchronization signal from the master office (this data assignment is not required when the office is the master office). When receiving the clock signal only from DTI blade of the first priority within a same Unit, set the Slot No. of the appropriate DTI blade only for the first data 01 (first priority). In addition, if the system is unable to receive the clock signal from DTI blade of the first priority due to the line failure, to automatically switch the reception route to the DTI blade of the second priority, set the Slot No. of the appropriate DTI blade for the first data 01 (first priority) and 02 (second priority).</p> <p>Setting Example:            When assigning the first DTI blade (for Slot01) of Unit01 to the first priority and the second DTI blade (for Slot02) of Unit02 to the second priority:            - CM04 Y=10&gt;01: 01 (first priority)            - CM04 Y=10&gt;01: 02 (second priority)</p>	
	<p><b>NOTE 2:</b> For multiple Unit configurations, specify the blade to receive the synchronization signal for each Unit accommodating DTI.</p>	
CMAA	Assign the necessary functions to the DTI (E1 2 Mbps) blade.	<ul style="list-style-type: none"> <li>• Y=01 Frame Configuration <b>BLADE RESET</b></li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 0 : Double Frame (no CRC-4) 1 ◀: CRC-4 multiframe structure</li> </ul> <ul style="list-style-type: none"> <li>• Y=02 ZCS (Zero Code Suppression) <b>BLADE RESET</b></li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 1 ◀: Not available (Transparent)</li> </ul>
C		

C	DESCRIPTION	DATA
CMAA	<p><b>NOTE:</b> Usually, set the second data to "1" (HDB3).</p>	<ul style="list-style-type: none"> <li>• Y=09 Line Encording for DTI  <div style="text-align: right; border: 1px solid black; border-radius: 10px; padding: 2px;">BLADE RESET</div> </li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 0 : AMI            1◀: HDB3</li> <li>• Y=19 Selection of cable length for DTI  <div style="text-align: right; border: 1px solid black; border-radius: 10px; padding: 2px;">BLADE RESET</div> </li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 7◀: 0-40 m (0-131.2 ft.)</li> <li>• Y=25 Type of Trunk  <div style="text-align: right; border: 1px solid black; border-radius: 10px; padding: 2px;">BLADE RESET</div> </li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 08 : Brazil Code for correct call blocking trunk <b>[Brazil Only]</b>            15◀: ITU-T Q.421 Standard trunk</li> </ul>
CM20	Assign the access code for LCR Group 0-3.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Group No. 0-3</li> <li>(1) X-XXXX: Access Code            (Maximum 4 digits)</li> <li>(2) A126-A129: Access Code for LCR Group 0-3</li> </ul>
CM8A	Assign an Area Code Development Pattern number to each LCR Group.	<ul style="list-style-type: none"> <li>• Y=A000</li> <li>(1) 0-2: LCR Group 0-2</li> <li>(2) 4005-4007: Area Code Development Pattern No. 5-7</li> </ul>
	Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.	<ul style="list-style-type: none"> <li>• Y=4005-4007 Area Code Development Pattern No. 5-7</li> <li>(1) X...X: Area Code, Maximum 8 digits</li> <li>(2) 0000-0255: Route Pattern No. 000-255</li> </ul>
D		

D	DESCRIPTION	DATA
CM8A	Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4005-4007.	<ul style="list-style-type: none"> <li>• Y=0000-0255 Route Pattern No. 000-255</li> <li>(1) 1-4: Order of LCR Selection               <ul style="list-style-type: none"> <li>1: 1st</li> <li>2: 2nd</li> <li>3: 3rd</li> <li>4: 4th</li> </ul> </li> <li>(2) XXX ZZ XXX: 000-255: LCR Pattern No. 000-255 ZZ : 00-63: Trunk Route No. 00-63</li> </ul>
CM85	Specify the maximum number of sending digits to be dialed by calling party.  <b>NOTE:</b> <i>The maximum number of sending digits including the area codes should be assigned to each area code.</i>	<ul style="list-style-type: none"> <li>• Y=5-7 Area Code Development Pattern No. 5-7 assigned by CM8A Y=A000</li> <li>(1) X-X...X: Area Code dialed, Maximum 8 digits</li> <li>(2) 01-79: 1 digit-79 digits 24◀: 24 digits</li> </ul>
CM31	Assign the Tone level of MFC Forward/Backward signals.  <b>NOTE 1:</b> <i>A reset by CM31 Y=A&gt;90: 0 is required after this data setting.</i>  <b>NOTE 2:</b> <i>Usually, set the second data to "NONE".</i>  Assign the Forward signal receiver start delay time.  <b>NOTE 1:</b> <i>A reset by CM31 Y=A&gt;90: 0 is required after this data setting.</i>  <b>NOTE 2:</b> <i>Usually, set the second data to "NONE".</i>	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 30</li> <li>(2) 01 : -45 dB 02 : -44.5 dB ⋮ (0.5 dB increments) 91 : 0 dB 92 : +0.5 dB ⋮ (0.5 dB increments) 97 : +3 dB NONE◀: -7 dB (+: Gain, -: Loss)</li> <li>• Y=A</li> <li>(1) 33</li> <li>(2) 00-98 : 0 ms.-24.5 ms. (0.25 ms. increments) 99 : 64 ms. NONE◀: 0 ms.</li> </ul>
E		

E	DESCRIPTION	DATA
CM31	Assign the Forward signal receiver detect level.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 34</li> <li>(2) 00 : Detect Level 0: 0 to -25 dBm</li> <li>01 : Detect Level 1: -5 to -30 dBm</li> <li>02 : Detect Level 2: -10 to -35 dBm</li> <li>03 : Detect Level 3: -15 to -40 dBm</li> <li>04 : Detect Level 4: -20 to -45 dBm</li> <li>05 : Detect Level 5: -25 to -50 dBm</li> <li>06 : Detect Level 6: -30 to -55 dBm</li> <li>NONE◀: Detect Level 0: 0 to -25 dBm</li> <li>(-: Loss)</li> </ul>
	<b>NOTE 1:</b> A reset by CM31 Y=A>90: 0 is required after this data setting.	
	<b>NOTE 2:</b> Usually, set the second data to "NONE".	
F		

F

CM31

G

**DESCRIPTION**

**DATA**

Assign the Forward signal receiver maximum detect level.

**NOTE 1:** A reset by CM31 Y=A>90: 0 is required after this data setting.

**NOTE 2:** Usually, set the second data to "NONE".

- Y=A
  - (1) 35
  - (2) 00 : -10/-15/-20/-25/-30/-35/-40 dBm
  - 01 : -11/-16/-21/-26/-31/-36/-41 dBm
  - 02 : -12/-17/-22/-27/-32/-37/-42 dBm
  - 03 : -13/-18/-23/-28/-33/-38/-43 dBm
  - 04 : -14/-19/-24/-29/-34/-39/-44 dBm
  - 05 : -15/-20/-25/-30/-35/-40/-45 dBm
  - 06 : -16/-21/-26/-31/-36/-41/-46 dBm
  - 07 : -17/-22/-27/-32/-37/-42/-47 dBm
  - 08 : -18/-23/-28/-33/-38/-43/-48 dBm
  - 09 : -19/-24/-29/-34/-39/-44/-49 dBm
  - 10 : -20/-25/-30/-35/-40/-45/-50 dBm
  - 11 : -21/-26/-31/-36/-41/-46/-51 dBm
  - 12 : -22/-27/-32/-37/-42/-47/-52 dBm
  - 13 : -23/-28/-33/-38/-43/-48/-53 dBm
  - 14 : -24/-29/-34/-39/-44/-49/-54 dBm
  - 15 : -25/-30/-35/-40/-45/-50/-55 dBm
  - NONE◀: -25/-30/-35/-40/-45/-50/-55 dBm
- (-: Loss)



G

CM31

**DESCRIPTION**

**DATA**

Assign the Forward signal receiver maximum detect level.

**NOTE 1:** A reset by CM31 Y=A>90: 0 is required after this data setting.

**NOTE 2:** Usually, set the second data to "NONE".

- Y=A
- (1) 36
- (2) 00 : 0/-5/-10/-15/-20/-25/-30 dBm
- 01 : -1/-6/-11/-16/-21/-26/-31 dBm
- 02 : -2/-7/-12/-17/-22/-27/-32 dBm
- 03 : -3/-8/-13/-18/-23/-28/-33 dBm
- 04 : -4/-9/-14/-19/-24/-29/-34 dBm
- 05 : -5/-10/-15/-20/-25/-30/-35 dBm
- 06 : -6/-11/-16/-21/-26/-31/-36 dBm
- 07 : -7/-12/-17/-22/-27/-32/-37 dBm
- 08 : -8/-13/-18/-23/-28/-33/-38 dBm
- 09 : -9/-14/-19/-24/-29/-34/-39 dBm
- 10 : -10/-15/-20/-25/-30/-35/-40 dBm
- 11 : -11/-16/-21/-26/-31/-36/-41 dBm
- 12 : -12/-17/-22/-27/-32/-37/-42 dBm
- 13 : -13/-18/-23/-28/-33/-38/-43 dBm
- 14 : -14/-19/-24/-29/-34/-39/-44 dBm
- 15 : -15/-20/-25/-30/-35/-40/-45 dBm
- NONE◀: -0/-5/-10/-15/-20/-25/-30 dBm (-: Loss)

Assign the Forward signal receiver twist level.

**NOTE 1:** A reset by CM31 Y=A>90: 0 is required after this data setting.

**NOTE 2:** Usually, set the second data to "NONE".

- Y=A
- (1) 37
- (2) 00 : 1 dB
- 01 : 2 dB
- 02 : 3 dB
- 03 : 4 dB
- 04 : 5 dB
- 05 : 6 dB
- 06 : 7 dB
- 07 : 8 dB
- 08 : 9 dB
- 09 : 10 dB
- NONE◀: 10 dB

H

H	DESCRIPTION	DATA
CM31	<p>Assign the Forward signal receiver S/N ratio.</p> <p><b>NOTE 1:</b> A reset by CM31 Y=A&gt;90: 0 is required after this data setting.</p> <p><b>NOTE 2:</b> Usually, set the second data to "NONE".</p>	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 38</li> <li>(2) 00 : 0 dB</li> <li>01 : -5 dB</li> <li>02 : -10 dB</li> <li>03 : -15 dB</li> <li>04 : -20 dB</li> <li>NONE◀: -10 dB</li> <li>(-: Loss)</li> </ul>
	<p>Assign the Forward signal receiver ON detect time.</p> <p><b>NOTE 1:</b> A reset by CM31 Y=A&gt;90: 0 is required after this data setting.</p> <p><b>NOTE 2:</b> Usually, set the second data to "NONE".</p>	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 39</li> <li>(2) 01-98 : 30-1485 ms.</li> <li style="padding-left: 100px;">(15 ms. increments)</li> <li>99 : 3840 ms.</li> <li>NONE◀: 30 ms.</li> </ul>
	<p>Assign the Forward signal receiver OFF detect time.</p> <p><b>NOTE 1:</b> A reset by CM31 Y=A&gt;90: 0 is required after this data setting.</p> <p><b>NOTE 2:</b> Usually, set the second data to "NONE".</p>	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 40</li> <li>(2) 01-98 : 30-1485 ms.</li> <li style="padding-left: 100px;">(15 ms. increments)</li> <li>99 : 3840 ms.</li> <li>NONE◀: 30 ms.</li> </ul>
	<p>Assign the Backward signal receiver Start delay time.</p> <p><b>NOTE 1:</b> A reset by CM31 Y=A&gt;90: 0 is required after this data setting.</p> <p><b>NOTE 2:</b> Usually, set the second data to "NONE".</p>	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 41</li> <li>(2) 00-98 : 0 ms.-24.5 ms.</li> <li style="padding-left: 100px;">(0.25 ms. increments)</li> <li>99 : 64 ms.</li> <li>NONE◀: 0 ms.</li> </ul>
I		

I	DESCRIPTION	DATA
CM31	Assign the Backward signal receiver detect level.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 42</li> <li>(2) 00 : Detect Level 0: 0 to -25 dBm</li> <li>01 : Detect Level 1: -5 to -30 dBm</li> <li>02 : Detect Level 2: -10 to -35 dBm</li> <li>03 : Detect Level 3: -15 to -40 dBm</li> <li>04 : Detect Level 4: -20 to -45 dBm</li> <li>05 : Detect Level 5: -25 to -50 dBm</li> <li>06 : Detect Level 6: -30 to -55 dBm</li> <li>NONE◀: Detect Level 0: 0 to -25 dBm</li> <li>(-: Loss)</li> </ul>
	<b>NOTE 1:</b> A reset by CM31 Y=A>90: 0 is required after this data setting.	
	<b>NOTE 2:</b> Usually, set the second data to "NONE".	
J		

J	DESCRIPTION	DATA
CM31	<p>Assign the Backward signal receiver minimum detect level.</p> <p><b>NOTE 1:</b> A reset by CM31 Y=A&gt;90: 0 is required after this data setting.</p> <p><b>NOTE 2:</b> Usually, set the second data to "NONE".</p>	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 43</li> <li>(2) 00 : -10/-15/-20/-25/-30/-35/-40 dBm</li> <li>01 : -11/-16/-21/-26/-31/-36/-41 dBm</li> <li>02 : -12/-17/-22/-27/-32/-37/-42 dBm</li> <li>03 : -13/-18/-23/-28/-33/-38/-43 dBm</li> <li>04 : -14/-19/-24/-29/-34/-39/-44 dBm</li> <li>05 : -15/-20/-25/-30/-35/-40/-45 dBm</li> <li>06 : -16/-21/-26/-31/-36/-41/-46 dBm</li> <li>07 : -17/-22/-27/-32/-37/-42/-47 dBm</li> <li>08 : -18/-23/-28/-33/-38/-43/-48 dBm</li> <li>09 : -19/-24/-29/-34/-39/-44/-49 dBm</li> <li>10 : -20/-25/-30/-35/-40/-45/-50 dBm</li> <li>11 : -21/-26/-31/-36/-41/-46/-51 dBm</li> <li>12 : -22/-27/-32/-37/-42/-47/-52 dBm</li> <li>13 : -23/-28/-33/-38/-43/-48/-53 dBm</li> <li>14 : -24/-29/-34/-39/-44/-49/-54 dBm</li> <li>15 : -25/-30/-35/-40/-45/-50/-55 dBm</li> <li>NONE◀: -25/-30/-35/-40/-45/-50/-55 dBm</li> </ul> <p>(-: Loss)</p>
K		

K

CM31

L

**DESCRIPTION**

**DATA**

Assign the Backward signal receiver maximum detect level.

**NOTE 1:** A reset by CM31 Y=A>90: 0 is required after this data setting.

**NOTE 2:** Usually, set the second data to "NONE".

Assign the Backward signal receiver twist level.

**NOTE 1:** A reset by CM31 Y=A>90: 0 is required after this data setting.

**NOTE 2:** Usually, set the second data to "NONE".

- Y=A
- (1) 44
- (2) 00 : 0/-5/-10/-15/-20/-25/-30 dBm
- 01 : -1/-6/-11/-16/-21/-26/-31 dBm
- 02 : -2/-7/-12/-17/-22/-27/-32 dBm
- 03 : -3/-8/-13/-18/-23/-28/-33 dBm
- 04 : -4/-9/-14/-19/-24/-29/-34 dBm
- 05 : -5/-10/-15/-20/-25/-30/-35 dBm
- 06 : -6/-11/-16/-21/-26/-31/-36 dBm
- 07 : -7/-12/-17/-22/-27/-32/-37 dBm
- 08 : -8/-13/-18/-23/-28/-33/-38 dBm
- 09 : -9/-14/-19/-24/-29/-34/-39 dBm
- 10 : -10/-15/-20/-25/-30/-35/-40 dBm
- 11 : -11/-16/-21/-26/-31/-36/-41 dBm
- 12 : -12/-17/-22/-27/-32/-37/-42 dBm
- 13 : -13/-18/-23/-28/-33/-38/-43 dBm
- 14 : -14/-19/-24/-29/-34/-39/-44 dBm
- 15 : -15/-20/-25/-30/-35/-40/-45 dBm
- NONE◀: 0/-5/-10/-15/-20/-25/-30 dBm (-: Loss)

- Y=A
- (1) 45
- (2) 00 : 1 dB
- 01 : 2 dB
- 02 : 3 dB
- 03 : 4 dB
- 04 : 5 dB
- 05 : 6 dB
- 06 : 7 dB
- 07 : 8 dB
- 08 : 9 dB
- 09 : 10 dB
- NONE◀: 10 dB

L	DESCRIPTION	DATA
CM31	Assign the Backward signal receiver S/N ratio.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 46</li> <li>(2) 00 : 0 dB</li> <li>01 : -5 dB</li> <li>02 : -10 dB</li> <li>03 : -15 dB</li> <li>04 : -20 dB</li> <li>NONE◀: -10 dB</li> <li>(-: Loss)</li> </ul>
	<b>NOTE 1:</b> A reset by CM31 Y=A>90: 0 is required after this data setting.	
	<b>NOTE 2:</b> Usually, set the second data to "NONE".	
	Assign the Backward signal receiver ON detect time.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 47</li> <li>(2) 01-98 : 30-1485 ms. (15 ms. increments)</li> <li>99 : 3840 ms.</li> <li>NONE◀: 30 ms.</li> </ul>
	<b>NOTE 1:</b> A reset by CM31 Y=A>90: 0 is required after this data setting.	
	<b>NOTE 2:</b> Usually, set the second data to "NONE".	
	Assign the Backward signal receiver OFF detect time.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 48</li> <li>(2) 01-98 : 30-1485 ms. (15 ms. increments)</li> <li>99 : 3840 ms.</li> <li>NONE◀: 30 ms.</li> </ul>
	<b>NOTE 1:</b> A reset by CM31 Y=A>90: 0 is required after this data setting.	
	<b>NOTE 2:</b> Usually, set the second data to "NONE".	
<u>END</u>		

## (2) DID Data Assignment

START	DESCRIPTION	DATA
CM08	Specify the meaning of sending Backward GB signal when terminating to Attendant Console.	(1) 470 (2) 0 : Subscriber's Line Control 1◀: Subscriber's Line Free (Charge)
	<p><b>NOTE:</b> Usually, set the second data to "1" (Subscriber's Line Free [Charge]).</p> <p>Specify the meaning of sending Backward GB signal when terminating by Tandem Connection or converting received digits.</p> <p><b>NOTE:</b> Usually, set the second data to "1" (Subscriber's Line Free [Charge]).</p>	(1) 471 (2) 0 : Subscriber's Line Control 1◀: Subscriber's Line Free (Charge)
CM35	Specify whether to the 2nd DT is sent or not on call termination.	<ul style="list-style-type: none"> <li>Y=010</li> </ul> (1) 00-63: Trunk Route No. (2) 0: 2nd Dial Tone is not sent
	Provide the MFC signaling on DID to required trunk route.	<ul style="list-style-type: none"> <li>Y=037</li> </ul> (1) 00-63: Trunk Route No. (2) 0: Available
	Specify the meaning of Backward signal when address is completed.	<ul style="list-style-type: none"> <li>Y=048</li> </ul> (1) 00-63: Trunk Route No. (2) 1◀: Waiting Forward GII
	Assign the sending method of calling number from the network to each trunk route.	<ul style="list-style-type: none"> <li>Y=129</li> </ul> (1) 00-63: Trunk Route No. (2) 7◀: MFC-R2
CM31	Assign the Forward GI signal meaning the end of digit code to "NONE".	<ul style="list-style-type: none"> <li>Y=A</li> </ul> (1) 02 (2) 01-15 : Forward GI-1-GI-15 NONE◀: No data
A		

A	DESCRIPTION	DATA
CM31	Assign the tone duration (on time) of MFC Forward/Backward signals.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 31</li> <li>(2) 01 : 20 ms.</li> <li style="padding-left: 2.5em;">? (20 ms. increments)</li> <li>98 : 1960 ms.</li> <li>99 : 5100 ms.</li> <li>NONE◀: 100 ms.</li> </ul>
	Assign the tone duration (off time) of MFC Forward/Backward signals.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 32</li> <li>(2) 01-98 : 20 ms.-1960 ms.</li> <li style="padding-left: 2.5em;">(20 ms. increments)</li> <li>99 : 5100 ms.</li> <li>NONE◀: 100 ms.</li> </ul>
	<b>NOTE 1:</b> A reset by CM31 Y=A>90: 0 is required after this data setting.	
	<b>NOTE 2:</b> Usually, set the second data to "NONE".	
	Assign the number of received digits of called number from PSTN.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 49</li> <li>(2) 01-31 : 1 digit-31 digits</li> <li>NONE◀: 31 digits</li> </ul>
Assign the Forward GII signal meaning the request of next digit toward sending collect call signal on DID MFC call.	<ul style="list-style-type: none"> <li>• Y=9</li> <li>(1) 01-15: Forward GII-0-GII-15</li> <li>(2) 00 : Forward GII-0: Terminating to Attendant Console</li> <li>01 : Forward GII-1</li> <li>02 : Forward GII-2</li> <li>03 : Forward GII-3</li> <li>04 : Forward GII-4</li> <li>05 : Forward GII-5</li> <li>06 : Forward GII-6</li> <li>07 : Forward GII-7</li> <li>08 : Forward GII-8</li> <li>09 : Forward GII-9</li> <li>10 : Forward GII-10</li> <li>11 : Forward GII-11</li> <li>12 : Forward GII-12</li> <li>13 : Forward GII-13</li> <li>14 : Forward GII-14: Collect call</li> <li>15◀: Forward GII-15: Terminating to Station</li> </ul>	
B		



B	DESCRIPTION	DATA
CM31	Assign the sending Backward GA signals on DID MFC call.	<ul style="list-style-type: none"> <li>• Y=C</li> <li>(1) 00: Send first digit</li> <li>01: Send next digit (N+1)</li> <li>02: Send last but one digit (n-1)</li> <li>03: Address complete, change over GB</li> <li>04: Congestion</li> <li>05: Send calling party's category No./next digit</li> <li>06: Address complete, setup speech condition</li> <li>07: Send last but two digit (n-2)</li> <li>08: Send last but three digit (n-3)</li> <li>09: Send last digit</li> <li>10: Send calling party's category No. <b>[Venezuela Only]</b></li> <li>(2) 01-15 : Backward Group A1-A15</li> <li>NONE◀: No data</li> </ul>
	Assign the sending Backward GB signals on DID MFC call.	<ul style="list-style-type: none"> <li>• Y=D</li> <li>(1) 01: Subscriber's Line Free (Charge)</li> <li>02: Subscriber's Line Busy</li> <li>04: Congestion</li> <li>05: Subscriber's Line Free (No Charge)</li> <li>06: Subscriber's Line Free (Call under control)</li> <li>07: Unallocated Number/Collect Call Blocking</li> <li>08: Subscriber's Make busy</li> <li>(2) 01-15 : Backward Group B1-B15</li> <li>NONE◀: No data</li> </ul>
C		

C	DESCRIPTION	DATA
CM31	Assign the sending Backward GC signals on DID MFC call. <b>[Mexico Only]</b>	<ul style="list-style-type: none"> <li>• Y=E</li> <li>(1) 00: Send GI signal first digit over GA</li> <li>01: Send GI signal next digit over GA</li> <li>03: Address complete, change over GB</li> <li>04: Congestion</li> <li>05: Send GIII signal next digit (N+1)</li> <li>09: Send GI signal same digit, change over GA</li> <li>(2) 01-15 : Backward Group C1-C15</li> <li>NONE◀: No data</li> </ul>
CM12	Specify the kind of idle status of the called station on DID MFC call.	<ul style="list-style-type: none"> <li>• Y=11</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Subscriber's Line Free (No charge)</li> <li>1 : Subscriber's Line Control</li> <li>3◀: Subscriber's Line Free (Charge)</li> </ul>
CM41	Assign the MFC-R2 Forward receiving guard timer for DID.	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 62</li> <li>(2) 01-08: 4-32 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 12-16 seconds.</p>
	<b>NOTE 1:</b> <i>This timer data is used as a guard timer when not detecting Forward signal from the opposite office.</i>	
	<b>NOTE 2:</b> <i>Usually, set the second data to "NONE".</i>	
	Assign the MFC-R2 Forward Tone Complete receiving guard timer for DID.	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 63</li> <li>(2) 01-08: 4-32 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 12-16 seconds.</p>
	<b>NOTE 1:</b> <i>This timer data is used as a guard timer when not detecting received Forward signal (end of tone) from the opposite office.</i>	
	<b>NOTE 2:</b> <i>Usually, set the second data to "NONE".</i>	
<u>END</u>		

## (3) DID with ANI Data Assignment

START	DESCRIPTION	DATA
CM08	Select the Backward signal for ANI signal on DID MFC call.	(1) 487 (2) 0 : Backward GC <b>[Mexico Only]</b> 1◀: Backward GA
	Enable the request of ANI signal from network when MFC incoming call terminates. <b>[North America Only]</b>	(1) 472 (2) 0: Available
CM31	Assign the Forward GI signal meaning the end of sending ANI signal on DID MFC call.	<ul style="list-style-type: none"> <li>• Y=A</li> </ul> (1) 01 (2) 01-15 : Forward GI-1-GI-15/ GIII-1-GIII-15 NONE◀: No data
	Assign the number of received digits of ANI signal from PSTN.	<ul style="list-style-type: none"> <li>• Y=A</li> </ul> (1) 50 (2) 01-31 : 1 digit-31 digits NONE◀: 16 digits
	Assign the Forward GI signal meaning no ANI signal on DID MFC call.	<ul style="list-style-type: none"> <li>• Y=A</li> </ul> (1) 51 (2) 01-15 : Forward GI-1-GI-15 NONE◀: No data
END		

## (4) DOD Data Assignment

START	DESCRIPTION	DATA
CM08	Specify the connecting method when receiving the Backward signal meaning Line Busy/ Unallocated number/Congestion.	(1) 473 (2) 0 : Not released trunk (Tone/Announcement from C.O.) 1◀: Release trunk (BT/ROT from PBX)
	Specify whether the Sender Tone is sent or not on DOD MFC call.	(1) 1201 (2) 0 : Not sent 1◀: To send
CM35	Specify the trunk seizure pattern.	<ul style="list-style-type: none"> <li>• Y=036</li> </ul>
	<b>NOTE:</b> Usually, set the second data to "1".	(1) 00-63: Trunk Route No. (2) 0 : After dialing maximum number of digits 1◀: After completing dialed digits entered in CM8A Y=4005-4007
	Provide the MFC signaling to required DOD trunk route.	<ul style="list-style-type: none"> <li>• Y=038</li> </ul>
	Assign the sending method of calling number from the network to each trunk route.	(1) 00-63: Trunk Route No. (2) 0: Available
		<ul style="list-style-type: none"> <li>• Y=129</li> </ul>
		(1) 00-63: Trunk Route No. (2) 7◀: MFC-R2
A		

A	DESCRIPTION	DATA
CM31	Assign the received Backward GA signals on DOD MFC call.	<ul style="list-style-type: none"> <li>• Y=6</li> <li>(1) 01-15: Backward Group A1-A15</li> <li>(2) 01 : Backward GA-1: Send next digit (N+1)</li> <li>02 : Backward GA-2: Send last but one digit (n-1)</li> <li>03 : Backward GA-3: Address complete, change over GB</li> <li>04 : Backward GA-4: Congestion</li> <li>05 : Backward GA-5: Send calling party's category No.</li> <li>06 : Backward GA-6: Address complete, setup speech condition.</li> <li>07 : Backward GA-7: Send last but two digit (n-2)</li> <li>08 : Backward GA-8: Send last but three digit (n-3)</li> <li>09 : Backward GA-9: Send last digit</li> <li>10 : Backward GA-10</li> <li>11 : Backward GA-11</li> <li>12 : Backward GA-12</li> <li>13 : Backward GA-13</li> <li>14 : Backward GA-14</li> <li>15 : Backward GA-15</li> <li>NONE◀: No data</li> </ul>
B		

B	DESCRIPTION	DATA
CM31	Assign the received Backward GB signals on DOD MFC call.	<ul style="list-style-type: none"> <li>• Y=7</li> <li>(1) 01-15: Backward Group B1-B15</li> <li>(2) 01 : Backward GB-1: Subscriber's Line Free (Charge)</li> <li>02 : Backward GB-2: Subscriber's Line Busy</li> <li>03 : Backward GB-3</li> <li>04 : Backward GB-4: Congestion</li> <li>05 : Backward GB-5: Subscriber's Line Free (No Charge)</li> <li>06 : Backward GB-6: Subscriber's Line Free (Call under control)</li> <li>07 : Backward GB-7: Unallocated Number/Collect Call Blocking</li> <li>08 : Backward GB-8: Subscriber's Make busy</li> <li>09 : Backward GB-9</li> <li>10 : Backward GB-10</li> <li>11 : Backward GB-11</li> <li>12 : Backward GB-12</li> <li>13 : Backward GB-13</li> <li>14 : Backward GB-14</li> <li>15 : Backward GB-15</li> <li>NONE◀: No data</li> </ul>
C		

C	DESCRIPTION	DATA
CM31	Assign the received Backward GC signals on DOD MFC call. <b>[Mexico Only]</b>	<ul style="list-style-type: none"> <li>• Y=8</li> <li>(1) 01-15: Backward Group C1-C15</li> <li>(2) 01 : Backward GC-1: Send G-I Signal Next digit over GA</li> <li>02 : Backward GC-2</li> <li>03 : Backward GC-3: Address complete, change over GB</li> <li>04 : Backward GC-4: Congestion</li> <li>05 : Backward GC-5: Send G-III Signal Next digit (N+1)</li> <li>06 : Backward GC-6</li> <li>07 : Backward GC-7</li> <li>08 : Backward GC-8</li> <li>09 : Backward GC-9: Send G-I Signal Same digit change over GA</li> <li>10 : Backward GC-10</li> <li>11 : Backward GC-11</li> <li>12 : Backward GC-12</li> <li>13 : Backward GC-13</li> <li>14 : Backward GC-14</li> <li>15 : Backward GC-15</li> <li>NONE◀: No data</li> </ul>
	Assign the Forward GI signal meaning the end of digit code.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 02</li> <li>(2) 01-15 : Forward GI-1-GI-15</li> <li>NONE◀: No data</li> </ul>
	Assign the Forward GII signal when originating from station, Attendant Console, or by tandem connection.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 03</li> <li>(2) 01-15 : Forward GII-1-GII-15</li> <li>NONE◀: Forward GII-1</li> </ul>
	Assign the Forward GII signal when originating from data station.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 04</li> <li>(2) 01-15 : Forward GII-1-GII-15</li> <li>NONE◀: Forward GII-1</li> </ul>
	<b>NOTE:</b> <i>The data station is assigned by CM13 Y=7.</i>	
D		

D	DESCRIPTION	DATA
CM41	<p>Assign the MFC-R2 Backward receiving guard timer for DOD.</p> <p><b>NOTE 1:</b> <i>This timer data is used as a guard timer when not detecting Backward signal from the opposite office.</i></p> <p><b>NOTE 2:</b> <i>Usually, set the second data to "NONE".</i></p>	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 60</li> <li>(2) 01-08: 4-32 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 12-16 seconds.</p>
	<p>Assign the MFC-R2 Backward Tone Complete receiving guard timer for DOD.</p> <p><b>NOTE 1:</b> <i>This timer data is used as a guard timer when not detecting received Backward signal (end of tone) from the opposite office.</i></p> <p><b>NOTE 2:</b> <i>Usually, set the second data to "NONE".</i></p>	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 61</li> <li>(2) 01-08: 4-32 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 12-16 seconds.</p>
<u>END</u>		



(5) DOD with ANI Data Assignment

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	Select the Backward signal for ANI signal on DOD MFC call.	(1) 477 (2) 0 : Backward GC <b>[Mexico Only]</b> 1◀: Backward GA
	Send a ANI signal to PSTN on DOD MFC call.	(1) 1200 (2) 0 : To send 1◀: Not sent
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM31</div>	Assign the Backward GA signal meaning the request of next digit toward sending ANI signal.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 00</li> <li>(2) 01-15 : Backward GA-1-GA-15/ GC-1-GC-15</li> <li>NONE◀: No data</li> </ul>
	<p><b>NOTE:</b> ANI function is effective when CM08&gt;1200: 0.</p>	
	Assign the Forward GI signal meaning the end of sending ANI signal.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 01</li> <li>(2) 01-15 : Forward GI-1-GI-15/ GIII-1-GIII-15</li> <li>NONE◀: No data</li> </ul>
	Assign the Forward GI signal for no ANI signal on DOD MFC call.	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) 51</li> <li>(2) 01-15 : Forward GI-1-GI-15</li> <li>NONE◀: No data</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center;">A</div>		

A	DESCRIPTION	DATA												
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	<p>Assign the calling party number (station number) for ANI function.</p> <p><b>NOTE 1:</b> “*”, “#” are not available for the sending number.</p> <p><b>NOTE 2:</b> The calling party number is sent to PSTN as follows.</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <tr> <td style="text-align: center;"><u>XXX.....XXX</u></td> <td style="text-align: center;">+</td> <td style="text-align: center;"><u>YYYY</u></td> </tr> <tr> <td style="text-align: center;"><i>Local office code</i></td> <td></td> <td style="text-align: center;"><i>Station No.</i></td> </tr> <tr> <td style="text-align: center;"><i>assigned by</i></td> <td></td> <td style="text-align: center;"><i>assigned by</i></td> </tr> <tr> <td style="text-align: center;"><i>CM50 Y=05</i></td> <td></td> <td style="text-align: center;"><i>CM12 Y=12</i></td> </tr> </table>	<u>XXX.....XXX</u>	+	<u>YYYY</u>	<i>Local office code</i>		<i>Station No.</i>	<i>assigned by</i>		<i>assigned by</i>	<i>CM50 Y=05</i>		<i>CM12 Y=12</i>	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X-XXXX: Calling Party No. (Station No.)</li> </ul>
	<u>XXX.....XXX</u>	+	<u>YYYY</u>											
<i>Local office code</i>		<i>Station No.</i>												
<i>assigned by</i>		<i>assigned by</i>												
<i>CM50 Y=05</i>		<i>CM12 Y=12</i>												
<p>Assign the Local Office Code Table number for ANI function.</p>	<ul style="list-style-type: none"> <li>• Y=13</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-14: Local Office Code Table No. 00-14</li> </ul>													
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">B</div>	<p>To provide calling party information transfer on tandem call from CCIS with no ANI signal or a tie line trunk</p>													
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">C</div>	<p>To provide calling party information transfer on tandem call from CCIS with ANI signal</p>													

To provide calling party information transfer on tandem call from CCIS with no ANI signal or a tie line trunk:

B	DESCRIPTION	DATA
CM35	Assign the Local Office Code Table number used for tandem connection.	<ul style="list-style-type: none"> <li>• Y=003</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00-14: Local Office Code Table No. 00-14</li> <li>15◀ : Not send calling number</li> </ul>
	<b>NOTE 1:</b> <i>This command must be assigned to the trunk route with MFC signaling on DOD.</i>	
	<b>NOTE 2:</b> <i>The selected table number must be different from the tables selected by CM12 Y=13.</i>	
CM50	Assign the calling party number (Local Office Code) for ANI function.	<ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) 00-14: Local Office Code Table No. assigned by CM12 Y=13</li> <li>(2) X-XXX...: Sending No. (Maximum 12 digits)</li> </ul>
	<b>NOTE 1:</b> <i>“*”, “#” are not available for the sending number.</i>	
	<b>NOTE 2:</b> <i>When originating from Attendant Console, assign Local Office Code as follows:</i> <ul style="list-style-type: none"> <li>• For ATT Group No. 0: Table No. 10</li> <li>• For ATT Group No. 1: Table No. 11</li> <li>• For ATT Group No. 2: Table No. 12</li> <li>• For ATT Group No. 3: Table No. 13</li> </ul>	
	<b>NOTE 3:</b> <i>For tandem connection, assign Local Office Code as follows:</i> <ul style="list-style-type: none"> <li>• CM35 Y=003&gt;XX: 00: Table No. 00</li> <li>• CM35 Y=003&gt;XX: 01: Table No. 01</li> <li style="padding-left: 40px;">? ?</li> <li>• CM35 Y=003&gt;XX: 14: Table No. 14</li> <li>• CM35 Y=003&gt;XX: 15-63: No ANI signal</li> </ul>	
<u>END</u>		

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To provide calling party information transfer on tandem call from CCIS with ANI signal:

C	DESCRIPTION	DATA
CM35	Provide calling party information transfer to the MFC signaling on DOD route on tandem call from CCIS.	<ul style="list-style-type: none"><li>• Y=145</li><li>(1) 00-63: Trunk Route No.</li><li>(2) 0: To provide</li></ul>
<u>END</u>		

(6) Collect Call Blocking Data Assignment

**NOTE:** “(2) DID Data Assignment” must be set in advance when doing the following programming. [☞ Page 1-515](#)

- To provide Incoming Blocking via MFC signals when terminating a collect call:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM12</div>	Assign Service Restriction Class B to required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ                      XX: 00-15◀: Service Restriction Class A                      ZZ : 00-15◀: Service Restriction Class B</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM15</div>	Allow the Collect Call Blocking (Incoming Blocking) by the Collect Call Called Side in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=076 Collect Call Called Side</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM31</div>	Assign the Forward GII signal meaning the request of next digit toward sending collect call signal on DID MFC call.	<ul style="list-style-type: none"> <li>• Y=9</li> <li>(1) 01-15: Forward GII-0 -GII-15</li> <li>(2) 00 : Forward GII-0: Terminating to Attendant Console                      01 : Forward GII-1                      02 : Forward GII-2                      03 : Forward GII-3                      04 : Forward GII-4                      05 : Forward GII-5                      06 : Forward GII-6                      07 : Forward GII-7                      08 : Forward GII-8                      09 : Forward GII-9                      10 : Forward GII-10                      11 : Forward GII-11                      12 : Forward GII-12                      13 : Forward GII-13                      14 : Forward GII-14: Collect call                      15◀: Forward GII-15: Terminating to Station</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">END</div>		

- To provide Answer Blocking via DTI (E1 2 Mbps) when answering a collect call:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class to B to required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ               <ul style="list-style-type: none"> <li>XX: 00-15◀: Service Restriction Class A</li> <li>ZZ : 00-15◀: Service Restriction Class B</li> </ul> </li> </ul>
CM15	Allow the Collect Call Blocking (Answer Blocking) by the Collect Call Called Side in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=076 Collect Call Called Side</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM35	Provide the Collect Call Blocking via DTI (E1 2 Mbps) to each trunk route.  <b>NOTE:</b> <i>Depending on the type of calls, the Collect Call Blocking via DTI (E1 2 Mbps) functions as follows.</i> <ul style="list-style-type: none"> <li>When terminating a normal call: the Double Answer is sent.</li> <li>When terminating a collect call: the trunk is released.</li> </ul>	<ul style="list-style-type: none"> <li>Y=115</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Available <b>[Brazil Only]</b></li> <li>1◀: Not available</li> </ul>
END		

## (7) Line Block Data Assignment for unused channels of DTI (E1 2 Mbps) blades

START	DESCRIPTION	DATA
CMAA	Set or cancel make-busy to DTI (E1 2 Mbps) trunks.  <b>NOTE 1:</b> <i>For a DTI (E1 2 Mbps) blade that is made busy, both Incoming/Outgoing calls are restricted.</i>  <b>NOTE 2:</b> <i>Usually, set the second data to "1" (Make busy cancel).</i>	<ul style="list-style-type: none"> <li>• Y=04</li> <li>(1) 000-127: Trunk Blade No.</li> <li>(2) 0 : Make busy set</li> <li>1◀: Make busy cancel</li> </ul>
CME5	Set or cancel make-busy to trunks.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 0 : Make busy set</li> <li>1◀: Make busy cancel</li> </ul>
<u>END</u>		

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**DATA ASSIGNMENT FOR EACH COUNTRY**

- CM08

1ST DATA	2ND DATA			
	BRAZIL	ARGENTINE	CHILE	COLOMBIA
470	1	1	1	1
471	1	1	1	1
472	0	0	0	0
473	1	1	1	1
477	1	1	1	1
478	1	1	1	1
1200	0	0	0	1
1201	0	1	1	1
1ST DATA	2ND DATA			
	PARAGUAY	VENEZUELA	MEXICO	SRI LANKA
470	1	1	1	1
471	1	1	1	1
472	0	0	0	0
473	1	1	0	1
477	1	1	0	1
478	1	1	0	1
1200	0	0	0	0
1201	1	1	1	1



• CM31

Y	1ST DATA	2ND DATA			
		BRAZIL	ARGENTINE	CHILE	COLOMBIA
6	01	01	01	01	01
	02	00	02	02	00
	03	03	03	03	03
	04	04	04	04	04
	05	05	05	05	04
	06	NONE	06	06	06
	07	07	07	07	NONE
	08	08	08	08	NONE
	09	02	09	NONE	06
	10	NONE	00	NONE	NONE
	11	NONE	NONE	04	NONE
	12	NONE	NONE	04	NONE
	13	NONE	NONE	04	NONE
	14	NONE	NONE	04	NONE
	15	NONE	NONE	04	NONE
	1ST DATA	2ND DATA			
		PARAGUAY	VENEZUELA	MEXICO	SRI LANKA
	01	01	01	01	01
	02	02	02	00	02
	03	03	03	03	03
	04	04	04	04	04
	05	05	05	NONE	05
	06	06	06	05	06
	07	07	07	NONE	07
	08	08	08	NONE	08
	09	09	05	NONE	NONE
	10	00	04	NONE	NONE
	11	NONE	NONE	NONE	NONE
	12	NONE	NONE	NONE	NONE
	13	NONE	NONE	NONE	NONE
	14	NONE	NONE	NONE	NONE
	15	NONE	NONE	NONE	NONE

Continued on next page

Y	1ST DATA	2ND DATA			
		BRAZIL	ARGENTINE	CHILE	COLOMBIA
7	01	01	NONE	NONE	01
	02	02	01	01	07
	03	04	02	02	02
	04	04	04	04	04
	05	05	07	07	05
	06	01	01	01	06
	07	07	05	05	NONE
	08	NONE	04	04	NONE
	09	NONE	NONE	01	NONE
	10	NONE	NONE	01	NONE
	11	NONE	NONE	04	NONE
	12	NONE	NONE	04	NONE
	13	NONE	NONE	04	NONE
	14	NONE	NONE	04	NONE
	15	NONE	NONE	04	NONE
	1ST DATA	2ND DATA			
PARAGUAY		VENEZUELA	MEXICO	SRI LANKA	
	01	NONE	01	01	01
	02	01	07	02	02
	03	02	02	NONE	02
	04	04	04	04	02
	05	07	07	05	07
	06	01	01	NONE	01
	07	05	05	NONE	05
	08	04	04	NONE	NONE
	09	NONE	04	NONE	NONE
	10	NONE	04	NONE	NONE
	11	NONE	NONE	NONE	NONE
	12	NONE	NONE	NONE	NONE
	13	NONE	NONE	NONE	NONE
	14	NONE	NONE	NONE	NONE
	15	NONE	NONE	NONE	NONE

Continued on next page

Y	1ST DATA	2ND DATA			
		BRAZIL	ARGENTINE	CHILE	COLOMBIA
8	01-15	NONE	NONE	NONE	NONE
	1ST DATA	2ND DATA			
		PARAGUAY	VENEZUELA	MEXICO	SRI LANKA
	01	NONE	NONE	05	NONE
	02	NONE	NONE	00	NONE
	03	NONE	NONE	03	NONE
	04	NONE	NONE	04	NONE
	05	NONE	NONE	01	NONE
	06	NONE	NONE	09	NONE
	07	NONE	NONE	NONE	NONE
	08	NONE	NONE	NONE	NONE
	09	NONE	NONE	NONE	NONE
	10	NONE	NONE	NONE	NONE
	11	NONE	NONE	NONE	NONE
	12	NONE	NONE	NONE	NONE
	13	NONE	NONE	NONE	NONE
	14	NONE	NONE	NONE	NONE
	15	NONE	NONE	NONE	NONE

Continued on next page

Y	1ST DATA	2ND DATA			
		BRAZIL	ARGENTINE	CHILE	COLOMBIA
9	01	15	15	15	15
	02	15	15	15	15
	03	15	15	15	15
	04	15	15	15	15
	05	15	15	15	15
	06	15	15	15	15
	07	15	15	15	15
	08	14	15	15	15
	09	15	15	15	15
	10	15	15	15	15
	11	15	15	15	15
	12	15	15	15	15
	13	15	15	15	15
	14	15	15	15	15
	15	15	15	15	15
	1ST DATA	2ND DATA			
		PARAGUAY	VENEZUELA	MEXICO	SRI LANKA
	00-15	15	15	15	15

Continued on next page

Y	1ST DATA	2ND DATA			
		BRAZIL	ARGENTINE	CHILE	COLOMBIA
A	00	05	05	05	06
	01	15	15	15	NONE
	02	NONE	15	15	15
	03	01	01	01	02
	04	06	01	01	02
	30	NONE	NONE	NONE	NONE
	31	07	07	07	07
	32	NONE	NONE	NONE	NONE
	33	NONE	NONE	NONE	NONE
	34	NONE	NONE	NONE	NONE
	35	NONE	NONE	NONE	NONE
	36	NONE	NONE	NONE	NONE
	37	NONE	NONE	NONE	NONE
	38	NONE	NONE	NONE	NONE
	39	NONE	NONE	NONE	NONE
	40	NONE	NONE	NONE	NONE
	41	NONE	NONE	NONE	NONE
	42	NONE	NONE	NONE	NONE
	43	NONE	NONE	NONE	NONE
	44	NONE	NONE	NONE	NONE
	45	NONE	NONE	NONE	NONE
46	NONE	NONE	NONE	NONE	
47	NONE	NONE	NONE	NONE	
48	NONE	NONE	NONE	NONE	
49	01-31/NONE	01-31/NONE	01-31/NONE	01-31/NONE	
50	01-31/NONE	01-31/NONE	01-31/NONE	01-31/NONE	
51	01-15/NONE	01-15/NONE	01-15/NONE	01-15/NONE	

Continued on next page

Y	1ST DATA	2ND DATA			
		PARAGUAY	VENEZUELA	MEXICO	SRI LANKA
A	00	05	NONE	01	NONE
	01	15	15	15	15
	02	15	15	NONE	15
	03	01	01	02	03
	04	01	01	02	NONE
	30	NONE	NONE	NONE	NONE
	31	07	07	07	NONE
	32	NONE	NONE	NONE	NONE
	33	NONE	NONE	NONE	NONE
	34	NONE	NONE	NONE	NONE
	35	NONE	NONE	NONE	NONE
	36	NONE	NONE	NONE	NONE
	37	NONE	NONE	NONE	NONE
	38	NONE	NONE	NONE	NONE
	39	NONE	NONE	NONE	NONE
	40	NONE	NONE	NONE	NONE
	41	NONE	NONE	NONE	NONE
	42	NONE	NONE	NONE	NONE
	43	NONE	NONE	NONE	NONE
	44	NONE	NONE	NONE	NONE
	45	NONE	NONE	NONE	NONE
46	NONE	NONE	NONE	NONE	
47	NONE	NONE	NONE	NONE	
48	NONE	NONE	NONE	NONE	
49	01-31/NONE	01-31/NONE	01-31/NONE	01-31/NONE	
50	01-31/NONE	01-31/NONE	01-31/NONE	01-31/NONE	
51	01-15/NONE	01-15/NONE	01-15/NONE	01-15/NONE	

Continued on next page

Y	1ST DATA	2ND DATA			
		BRAZIL	ARGENTINE	CHILE	COLOMBIA
C	00	02	10	10	02
	01	01	01	01	01
	02	09	02	02	NONE
	03	03	03	03	03
	04	04	04	04	04
	05	05	05	05	05
	06	NONE	06	06	09
	07	07	07	07	NONE
	08	08	08	08	NONE
	09	NONE	09	NONE	NONE
	10	NONE	NONE	NONE	NONE
	1ST DATA	2ND DATA			
		PARAGUAY	VENEZUELA	MEXICO	SRI LANKA
	00	10	NONE	02	NONE
	01	01	01	01	01
	02	02	02	NONE	02
	03	03	03	03	03
	04	04	04	04	04
	05	05	09	06	05
	06	06	06	NONE	06
	07	07	07	NONE	07
	08	08	08	NONE	08
	09	09	NONE	NONE	NONE
10	NONE	05	NONE	NONE	

Continued on next page

Y	1ST DATA	2ND DATA			
		BRAZIL	ARGENTINE	CHILE	COLOMBIA
D	01	01	06	06	06
	02	02	03	03	03
	04	04	04	04	04
	05	05	07	07	05
	06	06	06	06	03
	07	07	05	05	02
	08	NONE	08	NONE	NONE
	1ST DATA	2ND DATA			
		PARAGUAY	VENEZUELA	MEXICO	SRI LANKA
	01	06	06	01	06
	02	03	03	02	03
	04	04	04	04	04
	05	07	07	05	07
	06	06	06	01	01
	07	05	05	04	05
	08	08	NONE	NONE	NONE
Y	1ST DATA	2ND DATA			
		BRAZIL	ARGENTINE	CHILE	COLOMBIA
E	00/01/03/04/05/09	NONE	NONE	NONE	NONE
	1ST DATA	2ND DATA			
		PARAGUAY	VENEZUELA	MEXICO	SRI LANKA
	00	NONE	NONE	02	NONE
	01	NONE	NONE	05	NONE
	03	NONE	NONE	03	NONE
	04	NONE	NONE	04	NONE
	05	NONE	NONE	01	NONE
09	NONE	NONE	06	NONE	



• CM35

Y	1ST DATA	2ND DATA			
		BRAZIL	ARGENTINE	CHILE	COLOMBIA
000	00-63	00	00	00	00
001		4	4	4	4
004		2	2	2	2
005		1	1	1	1
009		03/06	03/06	03/06	03/06
010		0	0	0	0
020		00/15	00/15	00/15	00/15
036		1	1	1	1
037		0	0	0	0
038		0	0	0	0
048		1	1	1	1
115		0	1	1	1
129		7	7	7	7
Y		1ST DATA	2ND DATA		
	PARAGUAY		VENEZUELA	MEXICO	SRI LANKA
000	00-63	00	00	00	00
001		4	4	4	4
004		2	2	2	2
005		1	1	1	1
009		03/06	03/06	03/06	03/06
010		0	0	0	0
020		00/15	00/15	00/15	00/15
036		1	1	1	1
037		0	0	0	0
038		0	0	0	0
048		1	1	1	1
115		1	1	1	1
129		7	7	7	7

- CM41

Y	1ST DATA	2ND DATA			
		BRAZIL	ARGENTINE	CHILE	COLOMBIA
3	60	NONE	NONE	NONE	NONE
	61	NONE	NONE	NONE	NONE
	62	NONE	NONE	NONE	NONE
	63	NONE	NONE	NONE	NONE
	1ST DATA	2ND DATA			
		PARAGUAY	VENEZUELA	MEXICO	SRI LANKA
	60	NONE	NONE	NONE	NONE
	61	NONE	NONE	NONE	NONE
	62	NONE	NONE	NONE	NONE
	63	NONE	NONE	NONE	NONE

- CMAA

Y	1ST DATA	2ND DATA			
		BRAZIL	ARGENTINE	CHILE	COLOMBIA
01	000-127	0	0	0	0
02		1	1	1	1
04		1	1	1	1
09		1	1	1	1
19		7	7	7	7
25		08/15	15	15	15
Y		1ST DATA	2ND DATA		
	PARAGUAY		VENEZUELA	MEXICO	SRI LANKA
01	000-127	0	0	0	0/1
02		1	1	1	1
04		1	1	1	1
09		1	1	1	1
19		7	7	7	7
25		15	15	15	15

## HARDWARE REQUIRED

CPU blade (with built-in MFC Sender and Receiver)

# MISCELLANEOUS TRUNK ACCESS

## CCSA ACCESS

### PROGRAMMING

In addition to the programming of Tie Lines, assign CCSA line to the required routes as shown below.

START	DESCRIPTION	DATA
CM35	Assign CCSA line to required routes.	<ul style="list-style-type: none"> <li>Y=000</li> <li>(1) 00-63: Trunk Route No. (06)</li> <li>(2) 03: CCSA line <b>[North America Only]</b></li> </ul>
CM90	Assign the ICI key to the DESKCON, to which a CCSA incoming call will terminate.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) DESKCON No. (E000-E007) + <input type="checkbox"/> + key No.</li> <li>(2) ICI key F6030-F6037: Call Termination from CCSA Line 0-7</li> </ul>
CM20	Assign the CCSA access code.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) 100-163: Trunk Route No. 00-63</li> </ul>
END		

### HARDWARE REQUIRED

ODT blade

## CODE CALLING EQUIPMENT ACCESS

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### PROGRAMMING

Refer to EXTERNAL PAGING WITH MEET-ME. [Page 1-386](#)

**NOTE:** *For assigning the Class of Service for this feature, refer to CLASS OF SERVICE.*  
[Page 1-213](#)

## DICTATION EQUIPMENT ACCESS

### PROGRAMMING

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the COT blade.  <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 30: COT blade</li> </ul>
CM10	Assign the trunk number to the required Physical Port number.  <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) D000-D511: Trunk No.</li> </ul>
CM30	Assign the trunk data to the trunk number.  <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=00 Trunk route allocation</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00-63: Trunk Route No. Dedicated route number for this service should be assigned.</li> <li>Y=01 Tenant allocation</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00-63: Tenant No. 01◀ : Tenant No.</li> </ul>
CM35	Assign the route data to the trunk route specified by CM30 Y=00.  <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=000 Kind of Route</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 05: Paging trunk</li> <li>Y=001 Type of Signal to be sent out</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 4: DTMF</li> <li>Y=008 Dial Pulse Sending</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 3◀: To send</li> </ul>
A		

A	DESCRIPTION	DATA
CM20	Assign the access code for this feature.	<ul style="list-style-type: none"><li>• Y=0-3 Numbering Plan Group 0-3</li><li>(1) X-XXXX: Access Code</li><li>(2) 100-163: Trunk Route No. 00-63 assigned by CM30 Y=00</li></ul>
<u>END</u>		

**NOTE:** For assigning the Class of Service for this feature, refer to *CLASS OF SERVICE*.  
[Page 1-213](#)

## FOREIGN EXCHANGE (FX) ACCESS

[For North America]

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### PROGRAMMING

In addition to the programming of Direct Outward Dialing, assign an FX line to the required trunk routes as shown below:

START	DESCRIPTION	DATA
CM35	Assign an FX line to the required trunk route.	<ul style="list-style-type: none"><li>• Y=000</li><li>(1) 00-63: Trunk Route No.</li><li>(2) 01: FX line</li></ul>
END		

**NOTE:** For assigning the Class of Service for this feature, refer to *CLASS OF SERVICE*.

[Page 1-213](#)

## RADIO PAGING EQUIPMENT ACCESS

### PROGRAMMING

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the COT blade.  <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 30: COT blade</li> </ul>
CM10	Assign the trunk numbers to the required Physical Port number.  <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) D000-D511: Trunk No.</li> </ul>
CM12	Assign Service Restriction Class A for Paging Access to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Paging Access in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=008</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM41	Specify the timing for canceling the Paging Answer capability.	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) 20</li> <li>(2) 01-15: 1-15 minutes (1 minute increments) If no data is set, the default setting is 5 minutes.</li> </ul>
A		



A	DESCRIPTION	DATA
CM08	Specify the conditions for Radio Paging Access.	<p>(1) 149: Automatic Call Back when paging station is busy through non-delay operation</p> <p>(2) 0 : Available 1◀: Not available</p> <p>(1) 157: Access Code for Paging Access and Answer</p> <p>(2) 0 : Same 1◀: Different</p> <p>(1) 162: Multiple Radio Paging Access after accessing a radio paging trunk with delay type Radio Paging</p> <p>(2) 0 : Not available 1◀: Available</p>
CM29	Assign a Numbering Plan Group number to each tenant.	<p>(1) 00-63: Tenant No.</p> <p>(2) 710-713 : Numbering Plan Group 0-3 NONE◀: Numbering Plan Group 0</p>
CM20	Assign the access code for Paging Access and Answer.	<p>When CM08&gt;157: 1 (Different)</p> <ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> </ul> <p>(1) X-XXXX: Access Code</p> <p>(2) 100-163 : For Paging Access (Trunk Route 00-63)</p> <p style="padding-left: 40px;">A070-A079: For Paging Answer (Paging Zone 0-9)</p> <p style="padding-left: 40px;">A080 : For Paging Cancel (Delay Operation)</p> <p>When CM08&gt;157: 0 (Same)</p> <ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> </ul> <p>(1) X-XXXX: Access Code</p> <p>(2) A070-A079: For Paging Access/For Paging Answer (Paging Zone 0-9)</p> <p style="padding-left: 40px;">A080 : For Paging Cancel (Delay Operation)</p>
B		

B

**DESCRIPTION**

**DATA**

CM30

Assign the data for Radio Paging to the desired trunk number.

When CM08>157: 1 (Different)  
 • Y=00 Trunk Route Allocation  
 (1) 000-511: Trunk No.  
 (2) 00-63: Trunk Route No.

**NOTE:** Assign the data for Radio Paging to the trunk number, assigned by CM20, as follows:

When CM08>157: 0 (Same)  
 • Y=00 Trunk Route Allocation  
 (1) 000-255: Trunk No.  
 (2) 50-59: Trunk Route No. **NOTE**

<u>Paging Answer</u>	<u>Trunk Route</u>
0	50
∞	∞
9	59

BLADE RESET

• Y=28 Zone/Kind of Paging  
 (1) 000-511: Trunk No.  
 (2) X Z  
 X: 0-9: Paging Zone 0-9  
 Z: Kind of Paging  
 1: No Answer  
 3: Non-Delay Answer  
 5: Non-Delay or Delay Answer  
 6: No Answer and Automatic Dialing of Calling Party's No.

CM35

Assign the route data to the trunk route number assigned by CM30 Y=00.

• Y=000  
 (1) 00-63: Trunk Route No.  
 (2) 05

• Y=008 Dial Sending to Radio Paging Equipment  
 (1) 00-63: Trunk Route No.  
 (2) 3◀: Dial pulses are sent out

• Y=013 Maximum number of sending digits  
 (1) 00-63: Trunk Route No.  
 (2) 001-254: 1 digit-254 digits  
 If no data is set, sender is released when time out occurs or the called station answers.

END

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**HARDWARE REQUIRED**

COT blade

Radio Paging Equipment provided locally

## WIDE AREA TELEPHONE SERVICE (WATS) ACCESS

[For North America]

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### PROGRAMMING

In addition to the programming of Direct Outward Dialing, assign an WATS line to the required trunk route, as shown below:

START	DESCRIPTION	DATA
CM35	Assign a WATS line to the required trunk route.	<ul style="list-style-type: none"><li>• Y=000</li><li>(1) 00-63: Trunk Route No. (05)</li><li>(2) 02: WATS line</li></ul>
END		

**NOTE:** For assigning the Class of Service for this feature, refer to *CLASS OF SERVICE*.

[Page 1-213](#)

# MOBILITY ACCESS

## PROGRAMMING

### (1) Basic Data Assignment of Mobility Access

#### (a) For ISDN trunk

In addition to the ISDN-BRI/ISDN-PRI programming, do the following programming.

As for the ISDN-BRI/ISDN-PRI programming, refer to the ISDN FEATURES. [Page 3-1](#)

START	DESCRIPTION	DATA
CM30	Assign the data for DID to the trunk numbers assigned by CM10 Y=00.	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> </ul> (1) 000-511: Trunk No. assigned by CM10 Y=00 (2) 18: ISDN Indial
CM35	Assign the data for DID to the trunk routes assigned by CM30.	<ul style="list-style-type: none"> <li>• Y=000 Kind of Trunk</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00: DID</li> <li>• Y=002 OG/IC</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 3◀: Bothway Trunk</li> <li>• Y=005 Release Signal Condition</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li> <li>• Y=009 Incoming Connection Signaling</li> </ul> (1) 00-63: Trunk Route No. <b>BLADE RESET</b> (2) 08: ISDN
A		

A	DESCRIPTION	DATA	
CM35	Provide the release of ISDN trunk when receiving the ISDN DISCONNECT message with Progress Description=08 from ISDN (effective for an incoming call to ISDN).	<ul style="list-style-type: none"> <li>• Y=208</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1: To provide</li> </ul>	
	Provide the release of ISDN trunk when receiving the ISDN DISCONNECT message with Progress Description=08 from ISDN because the called party is busy in tandem connection (ISDN to ISDN). <b>NOTE</b>	<ul style="list-style-type: none"> <li>• Y=233</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>	
	Provide the relay of the ALERT message to the calling party in tandem connection (ISDN to ISDN). <b>NOTE</b>	<ul style="list-style-type: none"> <li>• Y=266</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>	
	<b>NOTE:</b> <i>Set the second data of CM35 Y=233/266 to "0", to both the incoming/outgoing trunk route of Mobility Access.</i>		
	Provide the release of ISDN trunk when receiving the ISDN DISCONNECT message with Progress Description=08 from ISDN (effective for an outgoing call to ISDN).	<ul style="list-style-type: none"> <li>• Y=158</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>	
	Assign the data for DID Digit Conversion to the trunk routes assigned by CM30.	<ul style="list-style-type: none"> <li>• Y=018 Digit Conversion on DID call</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>	
		<ul style="list-style-type: none"> <li>• Y=170 Development Table</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Development Table 1</li> <li>3◀: Development Table 0</li> </ul>	
	<ul style="list-style-type: none"> <li>• Y=012 Number of digits to be received</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : 1 digit</li> <li>1 : 2 digits</li> <li>2 : 3 digits</li> <li>3◀: 4 digits</li> </ul>		
B			

B	DESCRIPTION	DATA
CM35		<ul style="list-style-type: none"> <li>• Y=078 Number of digits to be converted for Development Table 0</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Leading 2-4 digits</li> <li>1◀: All digits of DID are converted by CM76</li> </ul>
CM76	<p>Assign the Number Conversion Block number for Development Table 0.</p> <p>Assign the Number Conversion Block number for Development Table 1.</p> <p>Assign the data for interpreting the digits received.</p>	<ul style="list-style-type: none"> <li>• Y=171 Number of digits to be converted for Development Table 1</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 01-08: 1-8 digits</li> <li>15◀ : 4 digits</li> </ul> <ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXX: DID No.</li> <li>(2) 000-999: Number Conversion Block No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=90</li> <li>(1) X-XXXXXXXXX: DID No.</li> <li>(2) 000-999: Number Conversion Block No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=01 Day Mode</li> <li>• Y=02 Night Mode</li> <li>• Y=03 Mode A</li> <li>• Y=04 Mode B</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) NONE◀: No data</li> </ul>
CM36	For a mobile phone of Mobility Access, allow tandem connection between the incoming trunk route and the outgoing trunk route.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ</li> <li>XX: 00-63: Incoming Trunk Route</li> <li>ZZ : 00-63: Outgoing Trunk Route</li> <li>(2) 0: Allow</li> </ul>
<u>END</u>		

## (b) For SIP trunk

In addition to the SIP trunk programming, do the following programming.

As for the SIP trunk programming, refer to the System Manual.

START	DESCRIPTION	DATA
CM35	Provide the Enblock Dialing Method (for Forced on PBX).	<ul style="list-style-type: none"> <li>• Y=340</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : To provide</li> <li>1◀: Not provided</li> </ul>
CM08	Provide the Caller ID Display/Name Display (Attendant Called/Calling Name Display) for the called station when a call is terminated via SIP.	<ul style="list-style-type: none"> <li>(1) 379</li> <li>(2) 1◀: To provide</li> </ul>
CMBA	Set the reference to Caller ID	<ul style="list-style-type: none"> <li>• Y=126</li> <li>(1) 00-63: Profile No. assigned by CMA7 Y=71</li> <li>(2) 0: Get caller ID from the Username field if the Displayname field of the From header of initial INVITE message is blank.</li> </ul>
	Assign the DTMF relay method.	<ul style="list-style-type: none"> <li>• Y=52</li> <li>(1) 00-63: Profile No. assigned by CMA7 Y=71</li> <li>(2) 03 : Out-band DTMF (RFC2833)</li> <li>NONE◀: In-band DTMF (Voice pass through)</li> </ul>
	(RESET)	
A		



A	DESCRIPTION	DATA
CM35	Assign the data for DID Digit Conversion to the trunk routes assigned by CM30.	<ul style="list-style-type: none"> <li>• Y=018 Digit Conversion on DID call               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ol> </li>   <li>• Y=170 Development Table               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: Development Table 1</li> </ol> </li>   <li>• Y=171 Number of digits to be converted for Development Table 1               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 01-08: 1-8 digits 15◀ : 4 digits</li> </ol> </li> </ul>
CM76	Assign the Number Conversion Block number for Development Table 1.	<ul style="list-style-type: none"> <li>• Y=90               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: DID No.</li> <li>(2) 000-999: Number Conversion Block No.</li> </ol> </li> </ul>
<u>END</u>		

## (c) Mobility Access Termination/Mobility Access Forwarding Data Assignment

START	DESCRIPTION	DATA
CM08	Specify the Mobility Access mode.  <b>NOTE:</b> Assign this data to 0 (Station Base), when using station services from a mobile phone.	(1) 1026 (2) 0 : Station Base 1◀: Trunk Base
CM10	Assign the Mobility Access station number for Mobility Access.  <b>NOTE:</b> When Digital Multiline terminal or IP station is assigned by this command, the second data of each office data below is automatically set to "0" (To provide/To store). - CM13 Y=03: 0 (To provide the function of Message Waiting/Message Reminder.) - CM13 Y=41: 0 (To store the call record when answering a station call.) - CM13 Y=49: 0 (To store the call record when handling an unanswered call.) - CM13 Y=60: 0 (To store the call record when answering a trunk call.) - CM13 Y=61: 0 (To store the call record when handling an unanswered trunk call.)	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Digital Multiline Terminal Station No. X-FXXXXXXXXX : Single Line Station No.</li> <li>• Y=01</li> <li>(1) 0000-1535: Virtual Port No.</li> <li>(2) FX-FXXXXXXXXX: IP Station No.</li> <li>• Y=04</li> <li>(1) 000-511: Virtual Port No.</li> <li>(2) X-FXXXXXXXXX: Standard SIP station No.</li> </ul>
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-FXXXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
A		

A	DESCRIPTION	DATA
CM15	<p>Allow Mobility Access mode in Service Restriction Class A assigned by CM12 Y=02.</p> <p><b>NOTE:</b> <i>This command is set to the Mobility Access station.</i></p>	<ul style="list-style-type: none"> <li>• Y=216</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM76	<p>Assign the following Mobility Access function to each DID Number.</p>	<ul style="list-style-type: none"> <li>• Y=41</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 0 : To use Mobility Access termination 7◀: Not used Mobility Access function</li> </ul>
CM64	<p>Assign a trunk access code 1 for call forwarding in Mobility Access mode.</p> <p><b>NOTE:</b> <i>Assign the access code of the trunk for call forwarding in Mobility Access mode.</i></p>	<ul style="list-style-type: none"> <li>• Y=10</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXX: Trunk Access Code (1-4 digits) X: 0-9, A (*), B (#) NONE◀: No data</li> </ul>
	<p>Assign a trunk access code 2 for call forwarding in Mobility Access mode.</p> <p><b>NOTE:</b> <i>Assign the access code of the trunk for call forwarding in Mobility Access mode when using Multi-Carrier connection.</i></p>	<ul style="list-style-type: none"> <li>• Y=14</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXX: Trunk Access Code (1-4 digits) X: 0-9, A (*), B (#) NONE◀: No data</li> </ul>
	<p>Assign a trunk access code 3 for call forwarding in Mobility Access mode.</p> <p><b>NOTE:</b> <i>Assign the access code of the trunk for call forwarding in Mobility Access mode when using Multi-Carrier connection.</i></p>	<ul style="list-style-type: none"> <li>• Y=15</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXX: Trunk Access Code (1-4 digits) X: 0-9, A (*), B (#) NONE◀: No data</li> </ul>
B		

B	DESCRIPTION	DATA
CM64	<p>Assign a trunk access code 4 for call forwarding in Mobility Access mode.</p> <p><b>NOTE:</b> <i>Assign the access code of the trunk for call forwarding in Mobility Access mode when using Multi-Carrier connection.</i></p>	<ul style="list-style-type: none"> <li>• Y=16</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXX: Trunk Access Code (1-4 digits) X: 0-9, A (*), B (#)</li> <li>NONE◀: No data</li> </ul>
CM04	<p>Assign the maximum number of DSP resource used by Mobility Access.</p> <p><b>NOTE 1:</b> <i>Assign the maximum number of DSP resource for Mobility Access sufficiently. DSP resource is shared with originating/terminating/Call Forwarding-All calls in Mobility Access and originating/terminating incoming and outgoing calls.</i></p> <p><b>NOTE 2:</b> <i>When DSP resource is occupied, Mobility Access and originating/terminating incoming and outgoing calls are restricted.</i></p> <p><b>NOTE 3:</b> <i>When SIP trunk is used, DSP resource for Mobility Access is not used for a detection of Disabling service activation dial/Hooking dial.</i></p> <p>Assign Service activation dial for mobile phone in Mobility Access mode.</p> <p><b>NOTE:</b> <i>When the disabling service activation (1st data=0) is dialed, it is not possible to make the service activation effective during the call.</i></p>	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 17: Maximum number of DSP resource used by Mobility Access</li> <li>(2) 01-32 : Maximum number of DSP resource</li> <li>NONE◀: 24</li> </ul>
CM08	<p>Specify the operation for when a mobile phone does a hooking form consultation hold.</p>	<ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) 0: Disabling service activation dial 1: Hooking dial</li> <li>(2) X-XX: Activation dial X=0-9, A (*), B (#)</li> </ul> <ul style="list-style-type: none"> <li>(1) 1028</li> <li>(2) 0 : Three Party Conference 1◀: Broker's Call</li> </ul>
C		

	DESCRIPTION	DATA
C		
CM08	Specify the operation for when call back to Mobility Access station.	(1) 1029 (2) 0 : Mobility Access station and mobile phone 1◀: Mobility Access station
END		

## (2) Mobility Access mode Set/Cancel

- To set or cancel Mobility Access mode from a mobile phone:

START	DESCRIPTION	DATA
CM20	Assign an access code for Mobility Access.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A231: Station Authorization Code Set/Change
CM2B	Assign a Station Authorization Code to each station.  <b>NOTE:</b> <i>The maximum number of digits for Authorization Code is set by CM42&gt;73.</i>	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) X-XXXXXXXX: Station No. (2) X-XXXXXXXX: Authorization Code
CM42	Specify the number of digits for Station Authorization Code.	(1) 73 (2) 01-08 : 1-8 digits NONE◀: 4 digits
CM76	Assign the following Mobility Access function to each DID Number.  <b>NOTE:</b> <i>Assign CM76 Y=41: 3-5 for Multi-Carrier connection when using Call Forwarding in Mobility Access mode.</i>	<ul style="list-style-type: none"> <li>Y=41</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 1 : To set Mobility Access Mode (Trunk Access Code 1) 2 : To cancel Mobility Access Mode 3 : To set Mobility Access Mode (Trunk Access Code 2) 4 : To set Mobility Access Mode (Trunk Access Code 3) 5 : To set Mobility Access Mode (Trunk Access Code 4) 7◀: Not used Mobility Access function
END		

- To set or cancel Mobility Access mode from a Mobility Access station:

START	DESCRIPTION	DATA
CM20	<p>Assign an access code for Mobility Access.</p> <p><b>NOTE:</b> Assign CM20 Y=0-3: A267/A268/A269 for Multi-Carrier connection when using Call Forwarding in Mobility Access mode.</p>	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A256: Mobility Access Mode Set (Trunk Access Code 1)</li> <li>A257: Mobility Access Mode Cancel</li> <li>A267: Mobility Access Mode Set (Trunk Access Code 2)</li> <li>A268: Mobility Access Mode Set (Trunk Access Code 3)</li> <li>A269: Mobility Access Mode Set (Trunk Access Code 4)</li> </ul>
CM90	<p>Assign the function key of Mobility Access mode Set/Cancel to the Multiline Terminal.</p>	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0B56: Mobility Access Mode Set/Cancel</li> </ul>
END		

- To set or cancel Mobility Access mode from PCPro/CAT:

START	DESCRIPTION	DATA
CME6	<p>Assign a mobile phone No. link up with a Mobility Access station number.</p>	<ul style="list-style-type: none"> <li>Y=50</li> <li>(1) X-XXXXXXXX: Mobility Access Station No.</li> <li>(2) X-XX...XX: Mobile phone No. (Maximum 24 digits)</li> </ul>
CM12	<p>Assign Trunk Access Code for Call Forwarding in Mobility Access mode.</p>	<ul style="list-style-type: none"> <li>Y=80</li> <li>(1) X-XXXXXXXX: Mobility Access Station No.</li> <li>(2) 1-4 : Trunk Access Code 1-4</li> <li>NONE◀: Trunk Access Code 1</li> </ul>
A		

A	DESCRIPTION	DATA
CM12	Specify whether to provide the Mobility Access. <b>[9300V5 software required]</b>	<ul style="list-style-type: none"> <li>• Y=88</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul>
	<p><b>NOTE 1:</b> <i>When a trunk number link up with a Mobility Access station number (CME6 Y=50) is assigned, the second data is automatically set to “0 (Available)”.</i> <i>If the trunk number link up with a Mobility Access station number is deleted, the second data is automatically set to “1 (Not available)”.</i></p> <p><b>NOTE 2:</b> <i>This command setting is available only when a trunk number link up with a Mobility Access station number (CME6 Y=50) is assigned.</i></p>	
END		

## (3) Dual Ringing for call forwarding in Mobility Access mode

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ</li> <li>XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Mobility Access mode in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=216</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
	<p><b>NOTE:</b> <i>Set this command to the Mobility Access station.</i></p>	
CM41	Specify the dual ringing starting timer while an alert from network is not received.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 162</li> <li>(2) 01-60: 1-60 seconds (1 second increment)</li> </ul>
	<p><b>NOTE:</b> <i>Dual ringing timer is not started when this data is set to “00”.</i></p>	
END		

To set or cancel Dual Ringing from Mobility Access station:

START	DESCRIPTION	DATA
CM20	Assign an access code for Dual Ringing.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access code (2) A261: Dual Ringing Set A262: Dual Ringing Cancel
CM90	Assign the function key of Dual Ringing Set/Cancel to the Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. + <input type="text"/> + Key No. (2) F0B61: Dual Ringing Set/Cancel
END		

To set or cancel Dual Ringing from PCPro/CAT:

START	DESCRIPTION	DATA
CM12	Allow Dual Ringing.	<ul style="list-style-type: none"> <li>Y=77</li> </ul> (1) X-XXXXXXXX: Mobility Access station No. (2) 0 : Available 1◀: Not available
END		

(4) Calling Party Number (DID number) of Mobility Access station displayed on the mobile phone  
 Refer to “SID TO NETWORK-PRESENT/CPN TO NETWORK-PRESENT” [Page 3-59](#)

(5) Call Forwarding-No Answer/Busy Line for call forwarding in Mobility Access mode/  
 Call Forwarding-No Answer/Busy Line for call forwarding from a mobile phone

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
A		



A	DESCRIPTION	DATA
CM15	<p>Allow Call Forwarding-No Answer/-Busy Line in Service Restriction Class A assigned by CM12 Y=02.</p> <p>Allow Call Forwarding-No Answer for call forwarding in Mobility Access mode in Service Restriction Class A assigned by CM12 Y=02.</p>	<ul style="list-style-type: none"> <li>• Y=012 Call Forwarding-Busy Line/No Answer</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul> <ul style="list-style-type: none"> <li>• Y=219</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	<p>Assign the access code for Call Forwarding-No Answer/Busy Line Set and Cancel, respectively.</p>	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A012: Call Forwarding-No Answer/Busy Line Set</li> <li>A013: Call Forwarding-No Answer/Busy Line Cancel</li> </ul>
CM41	<p>Specify the timing for Call Forwarding-No Answer for call forwarding in Mobility Access mode, as required.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 161</li> <li>(2) 01-30: 0-120 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
CM90	<p>Assign Call Forwarding-No Answer/Busy Line keys to the Multiline Terminal.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0014: Call Forwarding-Busy Line Set/Cancel</li> <li>F0016: Call Forwarding-No Answer Set/Cancel</li> </ul> <p>For setting the same key as Call Forwarding-No Answer/Busy Line</p> <ul style="list-style-type: none"> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0012: Call Forwarding-No Answer/Busy Line Set/Cancel</li> </ul>
<u>END</u>		







(6) Call Forwarding-All Calls of Mobility Access station/Call Forwarding-All Calls from a mobile phone

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Mobility Access Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Forwarding-All Calls of Mobility Access call in Service Restriction Class A assigned by CM12 Y=02.  <b>NOTE:</b> <i>This command is set to the Mobility Access station.</i>	<ul style="list-style-type: none"> <li>• Y=218</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM12	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Mobility Access Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
A		



## (7) Other services of Mobility Access mode from mobile phone

The services of Mobility Access mode from mobile phone as shown below have the same functions as the services from Single Line Telephone. For details, refer to each feature description.

FEATURE NAME	REFERENCE PAGE
Call Park	 <a href="#">Page 1-164</a>
Call Pickup	 <a href="#">Page 1-168</a>
Call Transfer	 <a href="#">Page 1-173</a>
Station Speed Dialing	 <a href="#">Page 1-770</a>
System Speed Dialing	 <a href="#">Page 1-783</a>
Camp-On (Transfer Method)	 <a href="#">Page 1-208</a>

## (8) Mobility Access hooking

**[For other than North America]**

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	<p>Specify the output message which is sent from PBX to ISDN network when the 2nd line is released by Mobility Access hooking.</p> <p>Specify the output message which is sent from PBX to ISDN network when the 2nd line is released by Mobility Access hooking.</p> <p><b>NOTE:</b> <i>This data is effective only when the 2nd data of CM08&gt;676 is set to 0.</i></p>	<p>(1) 676  (2) 0 : As per CM08&gt;677  1◀: CALL PROC+DISC</p> <p>(1) 677  (2) 0 : CALL PROC+ALERT+DISC  1◀: CALL PROC+ALERT+CONNECT+DISC</p>
END		

## (9) Mobility Access Prefix

**[For EMEA]**

START	DESCRIPTION	DATA
CM35	Assign Country Code for Addressing.	<ul style="list-style-type: none"> <li>• Y=224</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) X-XXXX: Country Code X: 0-9, A (*), B (#)</li> </ul>
	Assign Area Code for Addressing.	<ul style="list-style-type: none"> <li>• Y=225</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) X-XXXXXX: Area Code X: 0-9, A (*), B (#)</li> </ul>
CM50	Assign Local Area Code and Mobility Access Prefix.	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) 0</li> <li>(2) X-XXXXXXXX: Local Area Code + Mobility Access Prefix X: 0-9, A (*), B (#)</li> </ul>
<u>END</u>		

## (10) Called number conversion by Mobility Access Prefix

**[For EMEA]**

START	DESCRIPTION	DATA
CM30	Assign the Enblock Dialing Method to the terminating system in Day/Night Mode/Mode A/ Mode B to the required trunks.	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> </ul> (1) 000-511: Trunk No. (2) 23: Enblock Dialing Method
CM35	Allow the Called number conversion by Mobility Access Prefix to the trunk routes assigned by CM30.	<ul style="list-style-type: none"> <li>• Y=284</li> </ul> (1) 00-63: Trunk Route No. (2) 2: Allow
CM50	Assign a calling terminal to each Mobility Access Prefix number.	<ul style="list-style-type: none"> <li>• Y=15</li> </ul> (1) 0-7: Mobility Access Prefix No. (2) 0: Mobility Access station called 1: Internal/External station called
	Assign a Mobility Access Prefix Code to each Mobility Access Prefix number.	<ul style="list-style-type: none"> <li>• Y=16</li> </ul> (1) 0-7: Mobility Access Prefix No. (2) X-XXXXXXXX: Mobility Access Prefix Code
	<b>NOTE 1:</b> Do not assign the same Prefix Code redundantly.	
	<b>NOTE 2:</b> Do not assign the same number for the head of Prefix Code redundantly such as the data setting of CM50 Y=16>0: 1 and CM50 Y=16>1: 12.	
<u>END</u>		

# MULTILINE TERMINAL

## PROGRAMMING

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the DLC blade.  <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
CM10	Assign the Multiline Terminal station number to the associated Physical Port number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY : 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Multiline Terminal Station No. X-XXXXXXXXX represents My Line No.</li> </ul>
	<p><b>NOTE 1:</b> For the following features, do not assign 7 or more digits station number.</p> <ul style="list-style-type: none"> <li>• SMDR/PMS</li> <li>• Front Desk Instrument (Multiline Terminal)</li> </ul> <p><b>NOTE 2:</b> When Digital Multiline terminal is assigned by this command, the second data of each office data below is automatically set to "0" (To provide/To store).</p> <ul style="list-style-type: none"> <li>- CM13 Y=41: 0 (To store the call record when answering a station call.)</li> <li>- CM13 Y=49: 0 (To store the call record when handling an unanswered call.)</li> <li>- CM13 Y=60: 0 (To store the call record when answering a trunk call.)</li> <li>- CM13 Y=61: 0 (To store the call record when handling an unanswered trunk call.)</li> </ul>	
A		

A	DESCRIPTION	DATA
CM13	Allow the accommodation of PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=63</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To accommodate</li> </ul>
	<b>BLADE RESET</b>	
	<p><b>NOTE 1:</b> Set this data only for a Base Port No. (Circuit No. 01) of DLC blade.</p> <p><b>NOTE 2:</b> Whether the following equipment can be accommodated to the same DLC blade or not depends on this data.</p> <ul style="list-style-type: none"> <li>- When the second data is set to "0" <ul style="list-style-type: none"> <li>Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/PGD(2)-U10 ADP</li> <li>Unaccommodatable: DESKCON</li> </ul> </li> <li>- When the second data is set to "1" <ul style="list-style-type: none"> <li>Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/DESKCON</li> <li>Unaccommodatable: PGD(2)-U10 ADP</li> </ul> </li> </ul> <p><b>NOTE 3:</b> When the second data is set to 0, and accommodating DT300/DT400 series DESI-less to the same DLC blade to which PGD(2)-U10 ADP is accommodated, the Line Key of the DT300/DT400 series DESI-less does not light up (however, Character Display or Icon Display on the DESI-less screen is provided).</p>	
	Allow the accommodation of DTH-4R/DTL-8R.	<ul style="list-style-type: none"> <li>• Y=67</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To accommodate</li> </ul>
	<b>[North America Only]</b>	
CM12	Allow the accommodation of Single Line Telephone to Multiline Terminal's multiline, if required (Assignment for Single Line Telephone only).	<ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: Accommodated</li> </ul>
CM90	Assign the station numbers, trunk numbers or service access keys on each Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) Refer to Command Manual (CM90)</li> </ul>
B		



B	DESCRIPTION	DATA
CM12	Specify the kind of Multiline Terminal.  <b>NOTE:</b> <i>After the 2nd data of CM12 Y=24 is changed, pull out and reconnect the modular connector of the Multiline Terminal.</i>	<ul style="list-style-type: none"> <li>• Y=24</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 0 : B mode</li> <li>7◀: A mode</li> </ul>
CM90	Specify whether call termination on each line key is indicated on the Call Indicator Lamp or not.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) My Line No. + <input type="checkbox"/> + Key No.</li> <li>(2) 0 : Not indicated</li> <li>1◀: To indicate</li> </ul>
CM08	Assign the Outgoing Call Preset/Answer Preset functions to Multiline Terminal, if required.  Specify whether the answer key rings on TAS and Pooled Line or not.  Function set/reset operation in idle status for Multiline Terminal	<ul style="list-style-type: none"> <li>(1) 145</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul> <ul style="list-style-type: none"> <li>(1) 116</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul> <ul style="list-style-type: none"> <li>(1) 1042</li> <li>(2) 0 : Not available</li> <li>1◀: Available</li> </ul>
CM41	Specify the Delayed Ringing timing.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) 09</li> <li>(2) 01-20: 2048-40960 ms. (2048 ms. increments)</li> </ul> If no data is set, the default setting is 10240 ms.
CM30	Provide Trunk-Direct Appearances to the trunk number.	<ul style="list-style-type: none"> <li>• Y=18</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 0: To provide</li> </ul>
<u>END</u>		

To provide the Digital Single Line on Multiline Terminal, do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>Y=07</li> </ul> (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM15	Disable Dial Tone Activation when pressing one-touch speed key while terminal is idle.	<ul style="list-style-type: none"> <li>Y=084 One-Touch activates DT when Terminal Idle</li> </ul> (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 0 : Remain Idle 1 ◀: Off-Hook and Dial Tone
CM90	Assign and delete feature keys.  <b>NOTE 1:</b> Use Key number 93 for Redial key. Use Key number 96 for Flash key.  <b>NOTE 2:</b> Prime line should be assigned to Key 9.  <b>NOTE 3:</b> Digital Single Line is a Multiline Terminal and can use any key assigned in CM90. However, the Digital Single Line Terminal has no lamps, speaker, or microphone. Assign any features that can be used without these devices.	<ul style="list-style-type: none"> <li>Y=00 Key Data</li> </ul> (1) X-XXXXXXXX: My Line No. + [ ] + Key No. (2) F1100-F1199: Station Speed Dialing 00-99 F1012 : [CONF] Conference key This key is required to program speed dial keys. F0069 : Last number redial (Key No. 93) F1004 : [TRF] Transfer key (Key No. 96)
CM93	Assign prime line to My Line.	(1) X-XXXXXXXX: My Line No. (2) X-XXXXXXXX: Prime Line
END		

To provide Multiline Terminal (Self-Labeling), do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Specify the indication when a station is set to the Line Key of Multiline Terminal (Self-Labeling).	<ul style="list-style-type: none"> <li>• Y=207</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0 : Station Number 1 ◀: Station Name</li> </ul>
CM12	<For Portal Mode> Assign the automatic change time of the display to Line Screen for Multiline Terminal. <b>[9300V7 software required]</b>	<ul style="list-style-type: none"> <li>• Y=104</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Not changed 1-5 : 1-5 second(s) later NONE◀: Immediately</li> </ul>
	<b>NOTE 1:</b> This data is available from 9300V7 (V7.2.0) software or later. <b>NOTE 2:</b> A reset of the terminal is required when this data is set or changed.	
CM15	<For Classic Mode> Specify whether to change the Automatic change of Display 3 seconds later at the incoming call for Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=280</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : To change 1 ◀: Not changed</li> </ul>
	<b>NOTE 3:</b> After setting/changing this data, the assigned data is reflected to each Multiline terminal by resetting the terminal or executing CM12 Y=29.	
CM30	Assign Trunk Indication Code to each trunk, if required.	<ul style="list-style-type: none"> <li>• Y=19</li> <li>(1) 000-511: Trunk No.</li> <li>(2) XXXX: Trunk ID Code</li> </ul>
A		

A	DESCRIPTION	DATA
CM35	Assign a trunk name number to each trunk route, if required.	<ul style="list-style-type: none"> <li>• Y=003</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00-14: Trunk Name No. 00-14 15 ◀: Kind of trunk route assigned by CM35 Y=000 is displayed 16-63: Trunk Name No. 16-63</li> </ul>
	Specify the indication when a trunk is set to the Line Key of Multiline Terminal (Self-Labeling).	<ul style="list-style-type: none"> <li>• Y=201</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Trunk Route Name (4 characters) 1 : Trunk Route No. (2 digits) + Trunk No. (4 digits) 3 ◀: Trunk Route Name (4 characters) + Trunk No. (4 digits)</li> </ul>
CM74	Assign a Called Party number to each Memory Slot number, if required.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX YY Z XX: 00-99: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No.</li> <li>(2) Storing Called Party No.: Trunk Access Code (Maximum 4 digits) + <input type="text"/> + Called Party No. (Maximum 26 digits) /Station No. (Maximum 8 digits) NONE◀: No data</li> </ul>
B		

B	DESCRIPTION	DATA
CM74	Assign the station name to be displayed on Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=1               <ol style="list-style-type: none"> <li>(1) XX YY Z                    XX: 00-99: 1000-Slot Memory Block No.                    YY: 00-99: 10-Slot Memory Block No.                    Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name by entering with character codes 20-7F (Maximum 32 digits, 16 characters)</li> </ol> <p>NONE◀: No data                    See APPENDIX A: Character Code Table.  <a href="#">Page A-2</a></p> </li> <li>• Y=2               <ol style="list-style-type: none"> <li>(1) XX YY Z                    XX: 00-99: 1000-Slot Memory Block No.                    YY: 00-99: 10-Slot Memory Block No.                    Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name by entering with characters from PCPro/CAT (Maximum 16 characters)</li> </ol> <p>NONE◀: No data</p> </li> </ul>
C		

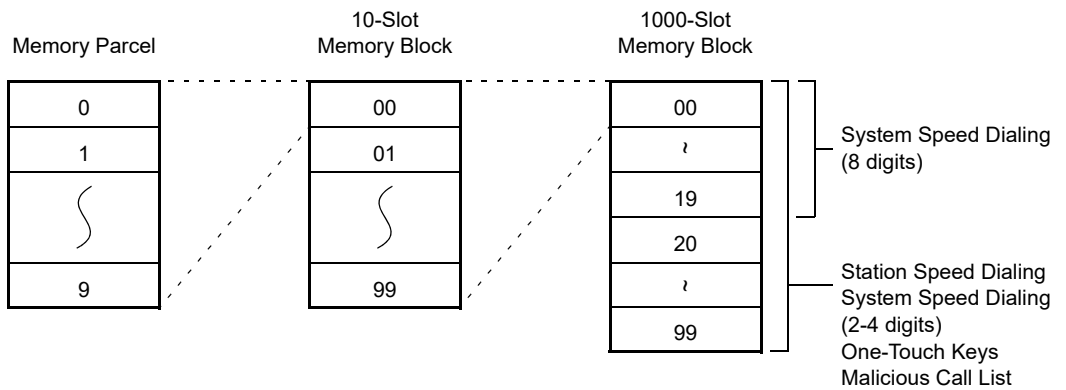
C	DESCRIPTION	DATA
CM77	<p>Enter the desired station user's name to each station number by CM77 Y=0 or CM77 Y=1, if required.</p> <p>Assign the desired trunk route name to each trunk route by CM77 Y=2 or CM77 Y=3, if required.</p>	<ul style="list-style-type: none"> <li>• Y=0 By Character Code               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) Character Code 20-7F (Maximum 32 digits) See APPENDIX A: Character Code Table. <a href="#">Page A-2</a></li> </ol> </li> <li>• Y=1 By Character using PCPro               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) A-Z, 0-9: Character (Maximum 16 characters)</li> </ol> </li> <li>• Y=2 By Character Code               <ol style="list-style-type: none"> <li>(1) 00-14, 16-63: Trunk Route Name No. assigned by CM35 Y=003</li> <li>(2) Character Code 20-7F (Maximum 8 digits) See APPENDIX A: Character Code Table. <a href="#">Page A-2</a></li> </ol> </li> <li>• Y=3 By Character using PCPro               <ol style="list-style-type: none"> <li>(1) 00-14, 16-63: Trunk Route Name No. assigned by CM35 Y=003</li> <li>(2) A-Z, 0-9: Character (Maximum 4 characters)</li> </ol> </li> </ul>
CM9C	<p>Set the DESI-less Line Key name for Chinese Language Display.</p>	<ul style="list-style-type: none"> <li>• Y=05 Function Name Assignment with Character (Simplified Chinese)</li> <li>• Y=06 Function Name Assignment with Character (Traditional Chinese)               <ol style="list-style-type: none"> <li>(1) 00-99: Block number</li> <li>(2) XXX...X: Character (Maximum 4 characters) NONE◀: No data</li> </ol> </li> </ul>
CM90	<p>Assign the station numbers, trunk numbers or service access keys on each Multiline Terminal, if required.</p>	<ul style="list-style-type: none"> <li>• Y=00               <ol style="list-style-type: none"> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) Refer to Command Manual (CM90)</li> </ol> </li> </ul>
D		

D

CM94

DESCRIPTION	DATA
When connecting D16 (LD)-R ADM to D <sup>term</sup> Series i 16LD and using it as One Touch keys/ Directories, allocate the memory area for Multiline Terminal One Touch keys to each station.	(1) X-XXXXXXXX: My Line No. (2) WW XX YYY Z WW : 00-99: 1000-Slot Memory Block No. XX : 00-99: 10-Slot Memory Start Block No. YYY : 001-010: Number of 10-Slot Memory Blocks Z : 0/1: Facility for programming the dialed number from the station Effective/Ineffective NONE◀: No data

**NOTE:** For 1000-Slot Memory Block to which any data is not assigned by CM73 Y=0, allocate a station-based memory area using this command.



E

To specify the display of Function Name for Multiline Terminal (Self-Labeling), do the following programming.

E	DESCRIPTION	DATA
CM9C	Assign the Block number with Function key.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 00-99: Block number</li> <li>(2) FXXXX : Function key (same as F0XXX, F1XXX, F50XX of CM90)</li> <li>NONE◀: No data</li> </ul>
	<p><b>NOTE 1:</b> <i>Block number (00-99) is arbitrarily set. Two Function keys or more cannot be assigned to one Block number. Block number assigned by CM9C Y=00 becomes effective for all Multiline Terminal (Self-Labeling) accommodated by the system.</i></p> <p><b>NOTE 2:</b> <i>This data setting is valid by resetting DT300/DT400/DT700/DT800/DT900 Series or executing CM12 Y=29.</i></p>	
	Assign the Function Name with character code.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 00-99: Block number</li> <li>(2) XXX...X: Character Code (Maximum 16 digits) See Character Code Table. <a href="#">Page A-2</a></li> <li>NONE◀: No data</li> </ul>
Assign the Function Name with character.	<p><b>NOTE:</b> <i>This data setting is valid by resetting DT300/DT400/DT700/DT800/DT900 Series or executing CM12 Y=29.</i></p>	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) 00-99: Block number</li> <li>(2) XXX...X: Character (Maximum 8 digits)</li> <li>NONE◀: No data</li> </ul>
CM12	Define the data to apply LCD display settings to Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=29</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 0: To execute</li> </ul>
	<p><b>NOTE:</b> <i>When this data is set to 0 (To execute) after changing any system data relating to the LCD display of Multiline Terminal, the changes are reflected to the Multiline Terminal. After the reflection is completed, this data returns to 1 (Not executed).</i></p>	
END		



To control the volume (Side Tone level) of Multiline Terminal, do the following programming.

START	DESCRIPTION	DATA
CM42	Set the volume (Side Tone level) of Multiline Terminal.	(1) 68: D <sup>term</sup> 85 (Series i) (2) 00 : -54 dB 01 : -48 dB 02 : -42 dB 03 : -36 dB 04 : -30 dB 05 : -24 dB 06 : -18 dB NONE◀: -30 dB
	<b>NOTE 1:</b> Do not change this data normally, incorrect data settings may cause howler of low-level speech.	
	<b>NOTE 2:</b> For the volume control (Side tone level) of the DT300/DT400/DT500/DT700/DT800/DT900 Series, set the data by CM42>198.	(1) 198: DT300/DT400/DT500/DT700/ DT800/DT900 Series (2) 00 : -54 dB 01 : -48 dB 02 : -42 dB 03 : -36 dB 04 : -30 dB 05 : -24 dB 06 : -18 dB NONE◀: Depends on Nation Code (CM31 Y=0>0) -12 dB [EMEA]/ -18 dB [Other than EMEA]
	<b>NOTE:</b> For the volume control (Side tone level) of the Multiline Terminal, set the data by CM42>68.	
<u>END</u>		

To set the Key Confirmation Tone on D<sup>term</sup>85 (Series i)/DT300/DT400/DT500 Series, D<sup>term</sup>85 (IP Bundled type) and DT700/DT800/DT900 Series, do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX: 00-15◀: Service Restriction Class C</li> </ul>
CM15	Set the Key Confirmation Tone for Multiline Terminal	<ul style="list-style-type: none"> <li>• Y=291</li> <li>(1) 00-15: Service Restriction Class C</li> <li>(2) 0 : OFF</li> <li>1 ◀: ON</li> </ul>

**NOTE 1:** This data is effective only for D<sup>term</sup>85 (Series i)/DT300/DT400/DT500 Series, D<sup>term</sup>85 (IP Bundled type) and DT700/DT800/DT900 Series. However, there are the following constraints.

- You cannot set to not ring the Key Confirmation Tone of the cordless handset for D<sup>term</sup>85/DT300/DT400/DT500 Series.
- The setting of this data is effective when the Key Confirmation Tone is set to “Auto” by the terminal setting of DT700/DT800/DT900 Series. For other than that, the Key Confirmation Tone complies with the setting of the terminal side.

**NOTE 2:** A reset of the terminal is required when this data is set or changed.

**NOTE 3:** When the second data is set to 0 (OFF), No Key Confirmation Tone is rung from either handset or speaker.

**NOTE 4:** MH240 is according to the terminal setting.

END

To specify the Reverse Contrast on the LCD, do the following programming.

**NOTE:** *The Reverse Contrast on the LCD is available for DT330/DT430/DT530/DT710/DT730/DT730DG/DT820/DT830/DT830DG/DT920.*

START	DESCRIPTION	DATA
CM13	Specify the Reverse Contrast on the LCD for Universal Design.	<ul style="list-style-type: none"> <li>• Y=66</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Background is Black, Letters are White</li> <li>1 ◀: Background is White, Letters are Black</li> </ul>
CM20	Specify the access code for the Reverse Contrast on the LCD for Universal Design.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A259: The Reverse Contrast on the LCD</li> </ul>
CM90	Assign the key for the Reverse Contrast on the LCD for Universal Design.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F5033: The Reverse Contrast on the LCD</li> </ul>
END		

To specify the Double-sized characters indication on DT300/DT400/DT500/DT700/DT800/DT900 Series LCD, do the following programming.

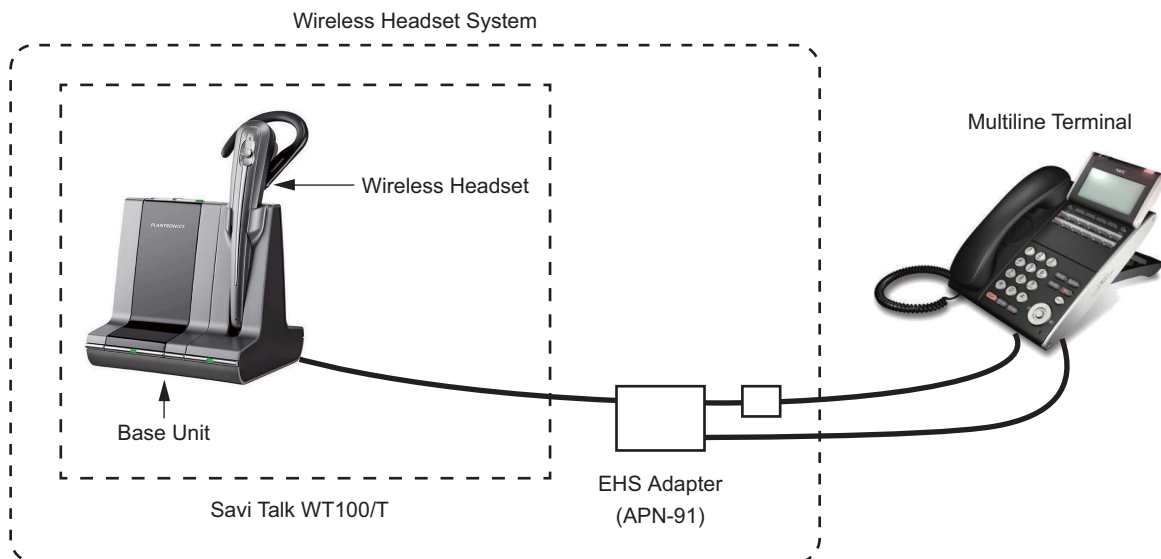
**NOTE:** *The Double-sized characters indication on the LCD is available for Multiline Terminals with LCD except  $D^{term}/D^{term}IP$*

START	DESCRIPTION	DATA
CM12	Specify the Double-sized characters indication on the LCD for Universal Design.	<ul style="list-style-type: none"> <li>• Y=72</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Second line is Double-sized characters, First line is deleted</li> <li>1 : Third line is Double-sized characters, First line is deleted</li> <li>NONE◀: Double-sized characters is not display</li> </ul>
CM90	Assign the key for the Double-sized characters indication on the LCD for Universal Design.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F5030: Scroll down to change a row which displays Double-sized characters on the LCD</li> <li>F5031: Scroll up to change a row which displays Double-sized characters on the LCD</li> </ul>
<u>END</u>		

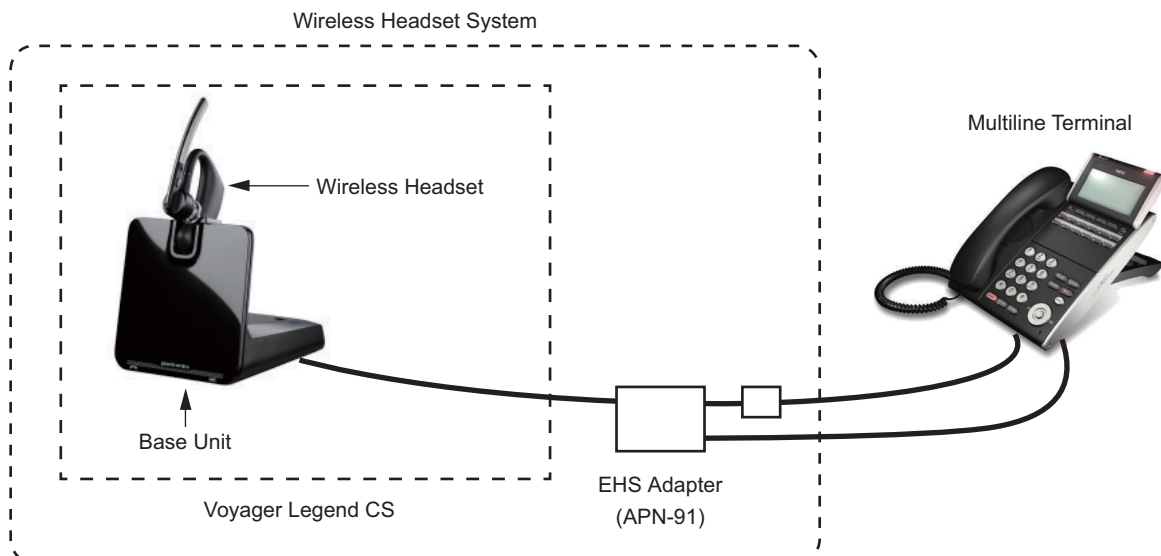
By connecting Plantronics Wireless Headset System (Savi Talk WT100/T/Voyager Legend CS+EHS adapter [APN-91]) to a Multiline Terminal, the following features are available. For connection of the Wireless Headset System, refer to instruction manual for the EHS adapter.

- On/Off control via the headset; handset lifter is not required
- Detection of incoming ringer

For Savi Talk WT100/T+APN-91



For Voyager Legend CS+APN-91



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<Service Conditions>

1. Multiline Terminals that can be connected to the Wireless Headset System are as follows.
  - DT330 (12/24 Keys/DESI-less)
  - DT430 (12/24 Keys/DESI-less)
  - DT530 (12/24 Keys)
  - DT730 (12/24 Keys/DESI-less)
  - DT730G (12/24 Keys)
  - DT750 (Touch Panel)
  - DT830 (12/24 Keys/DESI-less)
  - DT830G (12/24 Keys)
  - DT920 (6/12 Keys/Self-Labeling)
  - DT930 (24 Keys/Touch Panel)
2. For Multiline Terminals to connect Wireless Headset, the line key extended console (8LK-L/16LK-L) cannot be connected to the terminals.
3. The combined use of Wireless Headset and a Wired Headset, BHA or BCH is not available.
4. When connecting the EHS adapter to Multiline Terminal, be sure to off the power of Multiline Terminal.
5. Wireless Headset System is not available for the terminals connected to an Add-on Module.
6. The Headset Key (CM90 Y=00: F1090) must not be assigned to any Line/Trunk/Feature keys of a DT300/DT700 series terminal which accommodates the Wireless Headset System.
7. When providing the Wireless Headset System, Automatic Idle Return feature must be denied on station basis (Related command: CM12 Y=85). [☞ Page 1-598](#)
8. For a DT300/DT700 Series terminal, attach a ringer tone detecting microphone on the speaker of the terminal in order to make the connected Wireless Headset sound.

Also, to detect the ringer tone by microphone connected to Multiline Terminal in Wireless Headset System, do the following settings.

  - Set the ringer volume of Multiline Terminal to 3 steps or more.
  - Set the ringing tone interval of Multiline Terminal to except for the following interval (Related command: CM35 Y=033, CM76 Y=22).
    - 0.5s ON-0.5s OFF
    - 0.25s ON-0.25s OFF
10. When the ringer tone which is downloaded to DT700 series is used, the detection of incoming ringer is not available.
11. When using a Wireless Headset system for a DT400/DT500/DT800/DT900 Series Terminal, a Headset-specific ringer tones sounds at a call termination.

To accommodate Wireless Headset System on a Multiline Terminal, do the following programming.

START	DESCRIPTION	DATA
CM12	Make the Automatic Idle Return feature unavailable on Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=85</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: Unavailable</li> </ul>
CM13	Provide Wireless Headset System.	<ul style="list-style-type: none"> <li>Y=81</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To connect 1◀: Not connected</li> </ul>
CM90	Assign the headset function to a Line/Trunk/ Feature key on Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1090: Headset</li> </ul>
END	<p><b>NOTE:</b> This data setting is not required for DT400/DT500/DT800/DT900 Series Terminals.</p> <p><b>NOTE:</b> The conditions when assigning the Headset/Handset Key are as follows.</p> <ul style="list-style-type: none"> <li>When assigning the headset key for DT400/DT500/DT800/DT900 Series, the headset key works as a hook switch of the wireless headset.</li> <li>When using a wireless headset, a reset of the terminal is required (while no reset is required for a terminal connecting to a wired headset).</li> <li>For a DT300/DT700 Series connected to a wireless headset, do not assign the headset key (F1090).</li> </ul>	

For a Multiline Terminal, different blinking colors can be assigned to its Call Indicator Lamp depending on call termination types (e.g. call from an internal station, call from an external line, or caller ID to be notified or not). These settings are available only for the following Multiline Terminals that are capable of color-coding for their Call Indicator Lamps.

- DT530/DT730/DT730CG/DT730DG/DT830/DT830CG/DT830DG/DT900 Series terminal has a 7-color LED.
- DT310/DT330/DT410/DT430/DT510/DT710/DT820 terminal has a 3-color LED.

For a DT700/DT800/DT900 Series terminal, follow the setting of the terminal if its color-coding method is set to a method other than “Automatic”.

To specify different blinking colors on the basis of calling party numbers, use the User Web Portal.

To specify whether to light Call Indicator lamp on Multiline Terminal for each service of Call Indicator lamp control, do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Specify if Call Indicator lamp on Multiline Terminal when Incoming Call History (CID Call Back)/Message Reminder is to be lit.	<ul style="list-style-type: none"> <li>• Y=284</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : Not lit 1◀: To light</li> </ul>
	Specify if Call Indicator lamp on Multiline Terminal when UM8000 Mail/Voice Mail Live Record is to be lit.	<ul style="list-style-type: none"> <li>• Y=285</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : Not lit 1◀: To light</li> </ul>
	Specify if Call Indicator lamp on Multiline Terminal when Message Waiting/Message Waiting Console/Message Center Interface (MCI)/Open Application Interface (OAI)/Voice Mail Live Record-CCIS is to be lit.	<ul style="list-style-type: none"> <li>• Y=286</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : Not lit 1◀: To light</li> </ul>
<u>END</u>		



To assign different blinking colors to a Call Indicator Lamp on Multiline Terminal depending on call termination types, do the following programming.

START	DESCRIPTION	DATA
<p>CM12</p>	<p>Specify Illumination Color of Multiline Terminal for Internal Call/External Call for each Station No.</p> <p><b>NOTE:</b> <i>As for the illumination color that can be set by each pattern, refer to the "Illumination Color for Each Pattern".</i> <a href="#">Page 1-591</a></p>	<ul style="list-style-type: none"> <li>• Y=83 For Internal Call</li> <li>• Y=84 For External Call</li> </ul> <p>(1) X-XXXXXXXX: Station No.</p> <p>(2) 0 : Pattern 0            1 : Pattern 1            2 : Pattern 2            3 : Pattern 3            4 : Pattern 4            5 : Pattern 5            6 : Pattern 6            7 : Pattern 7</p> <p>NONE◀: Red</p> <p style="text-align: right;"><b>NOTE</b></p>
<p>CM76</p>	<p>Specify Illumination Color of Multiline Terminal for External Call for each direct in-dial No.</p> <p><b>NOTE:</b> <i>As for the illumination color that can be set by each pattern, refer to the "Illumination Color for Each Pattern".</i> <a href="#">Page 1-591</a></p>	<ul style="list-style-type: none"> <li>• Y=72</li> </ul> <p>(1) 000-999: Number Conversion Block No.</p> <p>(2) 0 : Pattern 0            1 : Pattern 1            2 : Pattern 2            3 : Pattern 3            4 : Pattern 4            5 : Pattern 5            6 : Pattern 6            7 : Pattern 7</p> <p>NONE◀: As per CM35 Y=358</p> <p style="text-align: right;"><b>NOTE</b></p>
<p>CM35</p>	<p>Specify Illumination Color of Multiline Terminal for External Call for each Trunk Route No.</p> <p><b>NOTE:</b> <i>As for the illumination color that can be set by each pattern, refer to the "Illumination Color for Each Pattern".</i> <a href="#">Page 1-591</a></p>	<ul style="list-style-type: none"> <li>• Y=358</li> </ul> <p>(1) 00-63: Trunk Route No.</p> <p>(2) 0 : Pattern 0            1 : Pattern 1            2 : Pattern 2            3 : Pattern 3            4 : Pattern 4            5 : Pattern 5            6 : Pattern 6            7 : Pattern 7</p> <p>NONE◀: As per CM12 Y=84</p> <p style="text-align: right;"><b>NOTE</b></p>
<p>A</p>		

A	DESCRIPTION	DATA
CM74	<p>Specify Illumination Color of Multiline Terminal based on Calling Party number/CLI.</p> <p><b>NOTE:</b> <i>As for the illumination color that can be set by each pattern, refer to the "Illumination Color for Each Pattern".</i> <a href="#">Page 1-591</a></p>	<ul style="list-style-type: none"> <li>• Y=8</li> <li>(1) WW XX Z            WW: 00-99: 1000-Slot Memory Block No.            XX : 00-99: 10-Slot Memory Block No.            Z : 0-9: Memory Parcel No.</li> <li>(2) 0 : Pattern 0            1 : Pattern 1            2 : Pattern 2            3 : Pattern 3            4 : Pattern 4            5 : Pattern 5            6 : Pattern 6            7 : Pattern 7</li> </ul> <p><b>NOTE</b></p> <p>NONE◀: As per CM12 Y=83/CM76 Y=2</p>
CM76	<p>Specify Illumination Color of Multiline Terminal for incoming call with no CLI for each direct in-dial No.</p> <p><b>NOTE:</b> <i>As for the illumination color that can be set by each pattern, refer to the "Illumination Color for Each Pattern".</i> <a href="#">Page 1-591</a></p>	<ul style="list-style-type: none"> <li>• Y=73</li> <li>(1) 000-999: Number Conversion Block No.</li> <li>(2) 0 : Pattern 0            1 : Pattern 1            2 : Pattern 2            3 : Pattern 3            4 : Pattern 4            5 : Pattern 5            6 : Pattern 6            7 : Pattern 7</li> </ul> <p><b>NOTE</b></p> <p>NONE◀: As per CM35 Y=360</p>
CM35	<p>Specify Illumination Color of Multiline Terminal for incoming call with no CLI.</p> <p><b>NOTE:</b> <i>As for the illumination color that can be set by each pattern, refer to the "Illumination Color for Each Pattern".</i> <a href="#">Page 1-591</a></p>	<ul style="list-style-type: none"> <li>• Y=360</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Pattern 0            1 : Pattern 1            2 : Pattern 2            3 : Pattern 3            4 : Pattern 4            5 : Pattern 5            6 : Pattern 6            7 : Pattern 7</li> </ul> <p><b>NOTE</b></p> <p>NONE◀: As per CM35 Y=358/CM76 Y=72</p>
END		

■ Illumination Color for Each Pattern

The illumination color for each pattern can be set as shown in the table below depending on the terminal type (7-color LED/3-color LED).

Pattern No.	7-color LED Terminal	3-color LED Terminal		
	DT530/DT730/ DT730CG/DT730DG/ DT730 DESI-less/ DT830/DT830CG/ DT830DG/DT830 DESI-less/DT830DG DESI-less /DT900 Series	DT310/DT330/ DT410/DT430/ DT430 DESI- less/DT510/ DT710/DT820	DT710 DESI-less	DT820 DESI-less
Pattern 0	Red	Red	Red	Red
Pattern 1	Green	Green	Green	Green
Pattern 2	Blue	Yellow	-	Yellow
Pattern 3	Yellow	Yellow	Yellow	Yellow
Pattern 4	Purple	Yellow	-	Yellow
Pattern 5	Light blue	Yellow	-	Yellow
Pattern 6	White	Yellow	-	Yellow
Pattern 7	7-color rotation	Yellow	3-color rotation	3-color rotation

**NOTE:** For DT820 including a DESI-less terminal, use the 9300V3 STEP2 software or later. When the DT820 is connected to SV9300 using the 9300V3 software or before, the DT820 operates as DT710.

To assign the security function to a Line/Trunk/Feature key on a DT800/DT900 Series Terminal, do the following programming.

START	DESCRIPTION	DATA
CM90	Assign the security function to a Line/Trunk/Feature key on a Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F5036: Security</li> </ul>
END	<p><b>NOTE:</b> <i>This assignment is available only for DT800 Series/DT930 terminals. The security function is not available for DT920 Series terminals.</i></p>	

Connecting a DT400/DT800 Series Multiline Terminal to a smart device such as a smart phone or a tablet terminal enables the Multiline Terminal not only to respond to an incoming call for the smart device, but also to originate a call by using a phonebook of the smart device.

To assign this Smart Device Linkage function to a programmable key on a Multiline Terminal, do the following programming.

START	DESCRIPTION	DATA
CM90	Assign the function of Smart Device Linkage (Connection/Path) to a programmable key on Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F5034: Smart Device Linkage (Connection)</li> <li style="padding-left: 40px;">F5035: Smart Device Linkage (Path)</li> </ul>
	<p><b>NOTE 1:</b> <i>The Smart Device Linkage function is available for the following Multiline Terminals.</i></p> <ul style="list-style-type: none"> <li>- DT430 (12/24 Keys/DESI-less)</li> <li>- DT830 (12/24 Keys/DESI-less)</li> <li>- DT830G (12/24 Keys)</li> </ul>	
	<p><b>NOTE 2:</b> <i>To use the Smart Device Linkage function, an optional BCA (Bluetooth Cradle phone adapter) is required.</i></p>	
	<p><b>NOTE 3:</b> <i>To originate a call from a Multiline Terminal using a phonebook of the connected smart device, an application exclusive for the function is required.</i></p>	
	<p><b>NOTE 4:</b> <i>Before using the Smart Device Linkage function, allocate a Connect key and a Path key to the programmable keys of the relevant terminal.</i></p> <p><i>Connect key: Makes a link between a Multiline Terminal and a smart device.</i></p> <p><i>Path key : Determines whether to use the Smart Device Linkage between a Multiline Terminal and a smart device or not.</i></p> <ul style="list-style-type: none"> <li>- The Connect key/Path key can be allocated only to programmable keys. Allocating the Connect key/Path key to a key of 8LK/16LK is not allowed.</li> <li>- If the Connect key/Path key is assigned to two or more programmable keys, a key of the lowest number is regarded as valid.</li> <li>- When the Connect key and Path key are assigned to a DESI-less terminal, they are displayed as below.</li> </ul> <p style="padding-left: 40px;"><i>Connect key: "Connect"</i></p> <p style="padding-left: 40px;"><i>Path key : "Path"</i></p>	
	<p><b>NOTE 5:</b> <i>After assigning this data, the terminal needs to be reset (i.e. unplug the modular connector of the terminal and then plug it again, or eject the DLC Card and then insert it again).</i></p>	
END		

You can confirm the number of Line/Trunk/Feature Keys on a Multiline Terminal accommodated in the System by using PCPro.

<Service Conditions>

- The following table shows the number of Line/Trunk/Feature Keys to be displayed by CM90 Y=90 for each Multiline Terminal type.

Terminal Type	Displayed number of Line Keys	Remarks
DT930	8/16/32 <b>NOTE 2</b>	Touch Panel
DT930 (24 Keys)	24	
DT920 (6 Keys) <b>NOTE 1</b>	12	
DT920 (8 Keys)	8/16/32 <b>NOTE 2</b>	Self-Labeling
DT920 (12 Keys)	12	
DT820 (6 Keys) <b>NOTE 1</b>	12	
DT820 (8 Keys)	32	DESI-less
DT830 (12 Keys)	12	
DT830 (24 Keys)	24	
DT830 (8 Keys)	32	DESI-less
DT710 (2/6 Keys) <b>NOTE 1</b>	12	
DT710 (8 Keys)	32	DESI-less
DT730 (12 Keys)	12	
DT730 (24 Keys)	24	
DT730	32	
DT730 (8 Keys)	32	DESI-less
DT750 (32 Keys)	32	Touch Panel
DT510 (6 Keys) <b>NOTE 1</b>	12	
DT530 (12 Keys)	12	
DT530 (24 Keys)	24	

Terminal Type	Displayed number of Line Keys	Remarks
DT410 (2/6 Keys) <b>NOTE 1</b>	12	
DT430 (12 Keys)	12	
DT430 (24 Keys)	24	
DT430 (8 Keys)	32	DESI-less
DT310 (2/6/12 Keys) <b>NOTE 1</b>	12	
DT330 (12 Keys)	12	
DT330 (24 Keys)	24	
DT330 (32 Keys)	32	
DT330 (8 Keys)	32	DESI-less
D <sup>term</sup> 85 Series-i (8/16 Keys)	16	
D <sup>term</sup> 85 Series-i (32 Keys)	32	

**NOTE 1:** *This command cannot be used to identify the actual number of Line/Trunk/Feature Keys on 2, 6 and 12 Line Key-terminals, because only “12” is displayed for these terminals regardless of their actual number of Line/Trunk/Feature Keys.*

**NOTE 2:** *The number of displayed keys differ depending on the number of available pages.*

**NOTE 3:** *When an optional 8LK or 16LK is connected, the number of Line Keys is the value obtained by adding 8 or 16 to each basic value shown in the table above.*

**NOTE 4:** *The Terminal Type can be identified by executing CMFA Y=01.*

To read the number of Line/Trunk/Feature Keys on Multiline Terminal, do the following programming.

START	DESCRIPTION	DATA
CM90	Read the number of Line/Trunk/Feature Keys on Multiline Terminal (Only display).	<ul style="list-style-type: none"><li>• Y=90</li><li>(1) X-XXXXXXXX: My Line No.</li><li>(2) XX : The number of Line Keys</li><li>NONE◀: Logout Status/Disconnected/ Non-Multiline Terminal</li></ul>
	<b>NOTE 1:</b> <i>The number of Line/Trunk/Feature Keys can be read only when the Multiline Terminal is activated normally.</i>	
	<b>NOTE 2:</b> <i>When PCPro is connected to Unit 01, information of every terminal belonging to all other Units in Normal mode can be read out. For each of terminals belonging to a Unit in Survival mode, "NONE" is displayed.</i>	
	<b>NOTE 3:</b> <i>If PCPro is connected to any of the Units 02-50 in Normal mode, "CM CODE NOT ALLOWED" is displayed at entering the 1st data, and no information can be read.</i>	
	<b>NOTE 4:</b> <i>If PCPro is connected to any of the Units 02-50 in Survival mode, only the information of terminals belonging to that Unit can be read out.</i>	
<u>END</u>		



## Retained Setting Information of Multiline Terminal

The following table shows the setting information of Multiline Terminals that is retained by system reset and terminal reset.

System Reset : Power supply OFF/ON of CPU blade, pressing the Reset switch of CPU blade, or a reset by PCPro  
\* System data backup is required before a reset.

Terminal Reset : Terminal reset by PCPro, a LAN/modular cable insertion and extraction to/from a telephone, or a reset of DLC blade (only for Digital Multiline Terminal)  
\*System data backup is not required.

×: Setting information is retained –: Setting information is not retained

Setting Information	Reset	Insertion and Extraction
Handset volume (receiving level)	–	× <b>NOTE 2</b>
Speaker volume (receiving level)	–	× <b>NOTE 2</b>
Ring volume	–	× <b>NOTE 2</b>
Volume (sending/receiving level)	– <b>NOTE 1</b>	× <b>NOTE 1</b>
Types of ringing tone ( <b>Feature</b> key + three operations)	–	× <b>NOTE 2</b>
LCD contrast	–	× <b>NOTE 2</b>
Call answer preset	×	×
Outgoing call preset	×	×
Microphone ON/OFF when setting a Handsfree feature.	–	×
Registered information of One-Touch key	×	×
Registered information of Station Speed Dialing	×	×
Terminal Phonebook	×	×

**NOTE 1:** The setting returns to default at a call termination.

**NOTE 2:** The setting information is retained when inserting and extracting a LAN/modular to/from a terminal, but not retained when executing terminal reset or others (a default setting is applied).

## AUTOMATIC IDLE RETURN

### PROGRAMMING

To provide Automatic Idle Return for each system, do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM08</div>	<p>Provide the system with Automatic Idle Return feature.</p> <p>Specify whether Automatic Idle Return feature is available or not, in case the PBR time out occurs after the Redial/Speaker key is pressed with the Multiline Terminal is on-hook condition.</p>	<p>(1) 172 (2) 1◀: Available</p> <p>(1) 567 (2) 0 : Not available 1◀: Available</p>
<u>END</u>		

To provide Automatic Idle Return for each station, do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM12</div>	<p>Provide the system with Automatic Idle Return feature.</p> <p>Specify whether Automatic Idle Return feature is available or not, in case the PBR time out occurs after the Redial/Speaker key is pressed with the Multiline Terminal is on-hook condition.</p>	<ul style="list-style-type: none"> <li>• Y=85</li> </ul> <p>(1) X-XXXXXXXX: Station No. (2) 0 : Not available 1 : Available 3◀: As per CM08&gt;172</p> <p>(1) 567 (2) 0 : Not available 1◀: Available</p>
<u>END</u>		

### HARDWARE REQUIRED

Multiline Terminal and DLC blade

## CALLING NAME AND NUMBER DISPLAY

### PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide station number and name display when an incoming call terminates to a Prime Line and a My Line.  <div style="text-align: right; border: 1px solid black; border-radius: 15px; padding: 2px 10px;">RESET</div>	(1) 335 (2) 0 : Station No. and name display when incoming call terminates to Prime Line 1◀: Station No. and name display when incoming call terminates to Prime Line or My line
CM20	Assign the access code for Name Display.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A110
CM08	Specify the time to go back to Date and Time display after the call is answered.  Specify the duration to display the name.	(1) 120 (2) 0 : 10 seconds later 1◀: 6 seconds later
	Specify the duration of displaying the destination information (called number/name) indicated on Multiline Terminal when the outgoing call is answered by the destination (except CCIS).	(1) 121 (2) 0 : Until call finished 1◀: As per CM08>120
	Specify the duration of displaying the caller information (calling number/name) indicated on Multiline Terminal when the outgoing call is answered by the destination via CCIS.	(1) 580 (2) 0 : 6 seconds 1◀: Until call is finished
CM35	Assign a trunk name number to each trunk route.	<ul style="list-style-type: none"> <li>• Y=003</li> </ul> (1) 00-63: Trunk Route No. (2) 00-14: Trunk Name No. 00-14 15◀ : Kind of trunk route assigned by CM35 Y=000 is displayed 16-63: Trunk Name No. 16-63
A		

A

CM77

**DESCRIPTION**

**DATA**

Enter the desired station user's name to each station number by CM77 Y=0 or CM77 Y=1.

- Y=0 By Character Code
  - (1) X-XXXXXXXX: Station No.
  - (2) Character Code 20-7F (Maximum 32 digits)  
See APPENDIX A: Character Code Table.  
[Page A-2](#)

Assign the desired trunk route name to each trunk route by CM77 Y=2 or CM77 Y=3.

- Y=1 By Character using PCPro
  - (1) X-XXXXXXXX: Station No.
  - (2) A-Z, 0-9: Character  
(Maximum 16 characters)
- Y=2 By Character Code
  - (1) 00-14, 16-63: Trunk Route Name No.  
assigned by CM35 Y=003
  - (2) Character Code 20-7F (Maximum 8 digits)  
See APPENDIX A: Character Code Table.  
[Page A-2](#)

Enter the desired Calling Party Name to each station number by CM77 Y=5 or CM77 Y=D/E.

- Y=3 By Character using PCPro
  - (1) 00-14, 16-63: Trunk Route Name No.  
assigned by CM35 Y=003
  - (2) A-Z, 0-9: Character  
(Maximum 4 characters)
- Y=5 By Character Code
  - (1) X-XXXXXXXX: Station No.
  - (2) Character Code 00-FE: Maximum 32 digits (for Russian)  
See APPENDIX A: Character Code Table for Russian. [Page A-3](#)
- Y=D By Character by PCPro (Simplified Chinese)
- Y=E By Character by PCPro (Traditional Chinese)
  - (1) X-XXXXXXXX: Station No.
  - (2) Character: Maximum 16 characters  
NONE◀: No data

END

**NOTE 1:** *The maximum number of stations that can be provided with the user's name display is 1536. The maximum number of characters per name is eight, including spaces. The PC-Pro or Customer Administration Terminal (CAT) can be used to register or change a name. A Multiline Terminal can register or change the name assignment of that individual Multiline Terminal.*

**NOTE 2:** *User names can be assigned to stations that do not have an LCD.*

**NOTE 3:** *The trunk name display is provided on a trunk-route basis. The maximum amount of characters in the trunk name display is four. The maximum number of trunk routes assignable is 16. The PCPro or CAT can be used to register or change a trunk name display.*

**NOTE 4:** *There are two ways to change a name that is currently programmed. (1) by overwriting with a new name, or (2) by inserting a blank space as the first character to cancel the existing name.*

To specify a caller name display setting for an incoming call, do the following programming depending on which name is to be used for display.

(a) When using a Number Conversion Memory:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM76</div>	<p>Assign the DID name to the Number Conversion Block number assigned by CM76 Y=00/90 with character or character code.</p> <p><b>NOTE:</b> <i>Number Conversion Block No. 200-999 cannot be used for this assignment.</i></p>	<ul style="list-style-type: none"> <li>• Y=24</li> <li>(1) 000-199: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) XX...XX: Character (Maximum 16 characters) X: 0-9, A-Z</li> <li>• Y=25</li> <li>(1) 000-199: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 20-7F: Character Code (Maximum 32 digits, 16 characters) See APPENDIX A: Character Code Table.</li> </ul> <p><a href="#">Page A-2</a></p>
<u>END</u>		

- (b) When using Calling Party Names stored in the memory area for System Speed Dialing (2-4 digits), do the following programming in addition to the programming of System Speed Dialing.  
[Page 1-783](#)

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM65</div>	<p>Display of calling name stored in System Speed Dialing Memory at call incoming.</p> <p><b>NOTE 1:</b> <i>When the second data is set to 1 (To provide), a search is performed in the System Speed Dialing Memory Area corresponding to the incoming trunk tenant, and a name matched up with the calling number is displayed on the Multiline Terminal/Attendant Console.</i></p> <p><b>NOTE 2:</b> <i>Specify the tenant No. of the incoming trunk to the first data.</i></p>	<ul style="list-style-type: none"> <li>• Y=44</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : Not provided</li> <li style="padding-left: 20px;">1◀: To provide</li> </ul>
END		

- (c) When using Calling Party Names stored in the memory area for Station Speed Dialing, do the following programming in addition to the programming of Station Speed Dialing.  
[Page 1-770](#)

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM13</div>	<p>Display of calling name stored in Station Speed Dialing Memory at call incoming.</p> <p><b>NOTE:</b> <i>When the second data is set to 1 (To provide), a search is performed in the Station Speed Dialing Memory Area corresponding to the My line of the destination Multiline Terminal, and a name matched up with the calling number is displayed. When the second data is set to 0 (Not provided), a search is performed only in the System Speed Dialing Memory Area corresponding to the incoming trunk tenant.</i></p>	<ul style="list-style-type: none"> <li>• Y=84</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Not provided</li> <li style="padding-left: 20px;">1◀: To provide</li> </ul>
END		

To provide Calling Number and Calling Name Display on Multiline Terminal/DESKCON LCD, do the following programming:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Caller ID Display on the LCD of Multiline Terminal to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Specify the displaying pattern of Caller ID on the LCD of Multiline Terminal before answering or after answering a trunk call.	<ul style="list-style-type: none"> <li>• Y=400</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0 : Not displayed calling number and calling name simultaneously</li> <li>1 : To display calling name on upper line of LCD, calling number on middle line of LCD</li> <li>7◀: To display calling number on upper line of LCD, calling name on middle line of LCD</li> </ul>
	Allow Calling Name Display for incoming trunk calls in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=136</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Calling Name Display</li> </ul>
	Allow blinking LCD for caller ID Display on each Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=215</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
	<b>NOTE:</b> After setting/changing this data, the assigned data is reflected to each Multiline terminal by resetting the terminal or executing CM12 Y=29.	
CM60	Specify the displaying pattern of Caller ID on the LCD of DESKCON when terminating a trunk call.	<ul style="list-style-type: none"> <li>• Y=34</li> <li>(1) 0-7: DESKCON No.</li> <li>(2) 0 : To display calling number on upper line of LCD, calling name on middle line of LCD</li> <li>7◀: Not displayed calling number and calling name simultaneously</li> </ul>
	<b>NOTE:</b> When displaying a Caller ID on the LCD of DESKCON before answering a C.O. call, the setting of CM08>539: 0 is required.	
A		

A

**DESCRIPTION**

**DATA**

CM08

Specify the displaying Caller ID on the LCD of DESKCON before answering a C.O. call.

- (1) 539
- (2) 0 : To display
- 1◀: Not displayed

**NOTE:** *This data is effective only when terminating a C.O. call to the C.O. Incoming Call 0 (CM90 Y=00: F6000) key of DESKCON.*

Specify the information to display on the middle line of the Multiline Terminal/DESKCON LCD when forwarding a trunk call to the Multiline Terminal/DESKCON by Call Forwarding-All Calls/No Answer/Busy Line/Not Available.

- (1) 563
- (2) 0 : Forwarding station name
- 1◀: Caller ID  
(Calling number/Calling name)

Specify displaying the first forwarding station number via CCIS or the second forwarding station number of own office on LCD of forwarding destination Multiline Terminal.

- (1) 564
- (2) 0 : The first forwarding number via CCIS
- 1◀: The second forwarding number of own office

Specify the duration of displaying the Caller information (Calling number/name) on Multiline Terminal when the incoming call is answered (effective for all trunks).

- (1) 580
- (2) 0 : 6 seconds
- 1◀: Until call is finished

CM90

Provide the Multiline Terminal with a select key of Calling Number Display or Calling Name Display.

- Y=00
- (1) My Line No. +  + Key No.
- (2) F1099: Select Key of Calling Number Display or Calling Name Display

Provide the DESKCON with a select key of Calling Number Display or Calling Name Display.

- Y=00
- (1) DESKCON No. (E000-E007) +  + Key No.
- (2) F6122: Select Key of Calling Number Display or Calling Name Display

CM12

Make the LCD display settings to be applied to each Multiline Terminal in the system.

- Y=29
- (1) X-XXXXXXXX: Station No.
- (2) 0 : To execute
- 1◀: Not executed

**NOTE:** *When this data is set to 0 (To execute) after changing any system data relating to the LCD display of Multiline Terminal, the changes are reflected to the Multiline Terminal. After the reflection is completed, this data returns to 1◀ (Not executed).*

END



To display the Calling Name and the Calling Number for each Multiline Terminal without limitation when an incoming call is terminated to a sub line, do the following programming.

**NOTE:** Be sure to set the CM13 Y=54 to default when using this feature.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM13</div>	<p>Provide Calling Number Display when an incoming call is terminated to the sub line of Multiline Terminal.</p> <p><b>NOTE:</b> This command is usually set to the station which is accommodated as sub line. However, when Caller ID Display for an incoming call to my line is also set to the same format as for an incoming call to sub line (CM08&gt;1012: 0), set the second data 0 to the station which is accommodated as my line.</p>	<ul style="list-style-type: none"> <li>• Y=69</li> <li>(1) X-XXXXXXXX: Station No. (for Sub Line)</li> <li>(2) 0: To provide</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM12</div>	<p>Assign Service Restriction Class A for Calling Number Display to the required stations.</p> <p><b>NOTE:</b> This command assigns the Service Restriction Class A for the station which is accommodated as a My Line.</p>	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No. (for My Line)</li> <li>(2) XXZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM15</div>	<p>Specify the Calling Number information to be displayed when an transferred call is terminated to the sub line of Multiline Terminal.</p> <p><b>NOTE:</b> This command is assigned for Service Restriction Class of the station which is accommodated as a My Line.</p>	<ul style="list-style-type: none"> <li>• Y=407</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (for My Line)</li> <li>(2) 0 : Not displayed 1 : Transferring Party display 3◀: Transferred Party display</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		

A	DESCRIPTION	DATA
CM15	<p>Allow Calling Number Display when an internal incoming call is terminated to the sub line of Multiline Terminal.</p> <p><b>NOTE 1:</b> <i>This command is assigned for Service Restriction Class of the station which is accommodated as a My Line.</i></p> <p><b>NOTE 2:</b> <i>After setting/changing this data, the assigned data is reflected to each Multiline terminal by resetting the terminal or executing CM12 Y=29.</i></p>	<ul style="list-style-type: none"> <li>• Y=224</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (for My Line)</li> <li>(2) 1◀: Allow</li> </ul>
	<p>Allow Calling Number Display when an external incoming call is terminated to the sub line of Multiline Terminal.</p> <p><b>NOTE 1:</b> <i>This command is assigned for Service Restriction Class of the station which is accommodated as a My Line.</i></p> <p><b>NOTE 2:</b> <i>After setting/changing this data, the assigned data is reflected to each Multiline terminal by resetting the terminal or executing CM12 Y=29.</i></p>	<ul style="list-style-type: none"> <li>• Y=225</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (for My Line)</li> <li>(2) 1◀: Allow</li> </ul>
	<p>Allow Caller ID Display on each Multiline Terminal.</p> <p><b>NOTE 1:</b> <i>This command is assigned for Service Restriction Class of the station which is accommodated as a My Line.</i></p> <p><b>NOTE 2:</b> <i>After setting/changing this data, the assigned data is reflected to each Multiline terminal by resetting the terminal or executing CM12 Y=29.</i></p> <p><b>NOTE 3:</b> <i>This feature is not effective when the second data is set to "0" (Restricted).</i></p>	<ul style="list-style-type: none"> <li>• Y=214</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (for My Line)</li> <li>(2) 0 : Restricted 1◀: Allow</li> </ul>
B		

B	DESCRIPTION	DATA
CM15	Specify whether to allow the blinking LCD for Caller ID Display on each Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=215</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (for My Line)</li> <li>(2) 0 : Restricted 1◀: Allow</li> </ul>
CM08	Display Caller ID to my line same as sub line when Automatic Caller ID to sub line by CM15 Y=224/225 is available.  <b>NOTE:</b> <i>When the second data of this command is set to 0 (Available), the second data of CM13 Y=69 must also be set to 0 (To provide) for My Line.</i>	<ul style="list-style-type: none"> <li>(1) 1012</li> <li>(2) 0 : Available 1◀: Not available</li> </ul>
CM12	Make the LCD display settings to be applied to each Multiline Terminal in the system.  <b>NOTE:</b> <i>When this data is set to 0 (To execute) after changing any system data relating to the LCD display of Multiline Terminal, the changes are reflected to the Multiline Terminal. After the reflection is completed, this data returns to 1 (Not executed).</i>	<ul style="list-style-type: none"> <li>• Y=29</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To execute</li> </ul>
CM90	Specify whether to provide Calling Number Display when an incoming call is terminated to the subline of Multiline Terminal. <b>[9300V3 software required]</b>  <b>NOTE:</b> <i>This command is set when providing calling number display at an incoming call termination to the subline only for the call termination to the specific key (for the key which is not required calling number display, set the second data to 0 (Not provided)).</i>	<ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) 0 : Not provided 1◀: To provide</li> </ul>
C		

C	DESCRIPTION	DATA
CM08	Specify whether to display kind of trunk route when an incoming call without CLI is terminated to the subline of Multiline Terminal. <b>[9300V7 software required]</b>	(1) 1067 (2) 0 : Displayed 1◀: Not displayed
<u>END</u>	<b>NOTE 1:</b> <i>This data is available from 9300V7 (V7.2.0) software or later.</i>	
	<b>NOTE 2:</b> <i>Depending on the kind of trunk route assigned by CM35 Y=000, "DDD" or "TIE" is displayed on the LCD of the terminal.</i>	

To display the Calling Number Display for each Multiline Terminal before answer when an incoming call is terminated with TAS, do the following programming.

**NOTE:** *This feature is effective only when CM76 Y=01-04 is set to D03 (Trunk Direct Appearance + TAS)/D13 (TAS), or CM30 Y=02/04/40/41 is set to 03 (Trunk Direct Appearance + TAS)/13 (TAS).*

START	DESCRIPTION	DATA
START   <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>   END	Specify the Calling Number Display when an incoming call is terminated to the Multiline Terminal with TAS. <b>[9300V4 software required]</b>	(1) 1232 (2) 0 : Display to all of the Multiline Terminals in the Tenant 1◀: Display to the Multiline Terminals assigned by CM57 Y=30

- To display the calling number to all of the Multiline Terminals in the tenant:  
**[9300V4 software required]**

**NOTE:** *This feature is available when the second data of CM08>1232 is set to 0.*

START	DESCRIPTION	DATA
START   <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>   <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM15</div>   <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto; text-align: center;">A</div>	Assign Service Restriction Class A for this feature to each station.  Allow the Calling Number Display when an external incoming call is terminated to TAS of Multiline Terminal.  <b>NOTE:</b> <i>After setting this data, the assigned data is reflected to each Multiline Terminal by resetting the terminal (i.e. unplug the modular connector of the terminal and then plug it again or eject the DLC blade and then insert it again) or executing CM12 Y=29.</i>	• Y=02 (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A  • Y=225 (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow

	DESCRIPTION	DATA
A		
CM65	Display the Calling Number Display for each tenant when an incoming call is terminated to the Multiline Terminal with TAS.	<ul style="list-style-type: none"> <li>Y=70</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0: To display</li> </ul>
CM90	Display the Calling Number Display for each tenant when an incoming call is terminated to TAS of Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=05</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) 1◀: To display</li> </ul>
	<p><b>NOTE:</b> <i>This command is set when providing Calling Number Display at an incoming call termination to TAS only for the call termination to the specific key (for the key which is not required Calling Number Display, set the second data to 0 (Not displayed)).</i></p>	
END		

- To display the calling number to the Multiline Terminals assigned by CM57 Y=30:

**NOTE:** *This feature is available for the following cases.*

- When using 9300V3 software or before
- When using 9300V4 software or later and the second data of CM08>1232 is set to 1.

START	DESCRIPTION	DATA
CM65	Provide Calling Number Display for each tenant when an incoming call is terminated to a Multiline Terminal with TAS.	<ul style="list-style-type: none"> <li>Y=42</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0: To display</li> </ul>
A		

A	DESCRIPTION	DATA
CM57	Specify the My Line number of Multiline Terminal that displays the calling number.	<ul style="list-style-type: none"> <li>• Y=30</li> <li>(1) XX YY XX: 00-63: Trunk Tenant No. assigned by CM30 Y=01/CM76 Y=05-08 YY: 00-07: Allocation No.</li> <li>(2) X-XXXXXXXX: My Line No.</li> </ul>
	<p><b>NOTE:</b> <i>The number of stations that can display the calling number on LCD is maximum 8 per tenant. Set the allocation number to the stations that displays the calling number.</i></p>	
CM13	Provide Calling Number Display for the My Line assigned by CM57 Y=30.	<ul style="list-style-type: none"> <li>• Y=54</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 0: To provide</li> </ul>
CM90	Assign the TAS Answer keys to the Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F40XX XX: 00-63: Tenant No. assigned by CM57 Y=30</li> </ul>
<u>END</u>		

## HARDWARE REQUIRED

Multiline Terminal and DLC blade

## DYNAMIC DIAL PAD

### PROGRAMMING

Do the following programming to make an outgoing call. Press any key on the dial pad of a Multiline Terminal without pressing a Speaker key or going off-hook.

START	DESCRIPTION	DATA
CM93	Assign a Prime line to the Multiline Terminal.	(1) X-XXXXXXXX: My Line No. (2) X-XXXXXXXX: Station No.
CM12	Assign Service Restriction Class A to required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Dynamic Dial Pad in the Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=120</li> </ul> (1) 00-15: Service Restriction Class A (2) 0: Allow
END		



## GROUP FEATURE KEY

### PROGRAMMING

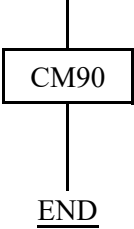
To provide the Group Feature Key for the sub line of Multiline Terminal, do the following programming.

START	DESCRIPTION	DATA
CM90	<p>Provide Group Feature Key for the sub line of Multiline Terminal, when the Multiline Terminal belongs to the group of stations and accommodates the station number/My line number of group members to the Multiline Terminal multiline as the sub line.</p> <p><b>NOTE:</b> <i>Do not set the second data 0 to the My line number of Multiline Terminals.</i></p>	<ul style="list-style-type: none"> <li>• Y=04</li> <li>(1) Sub Line No. + <input type="text"/> + Key No.</li> <li>(2) 0: To provide</li> </ul>
CM08	<p>Specify the operation of Group Feature Key on Multiline Terminal when an incoming call/holding call cannot be seized with My line because it is used by the other Multiline Terminal on multiline.</p> <p>Specify whether the service which is set to a group member station is effective when the group members are called by Group Feature Key.</p> <p><b>NOTE:</b> <i>When the second data of CM08&gt;585 is set to 0, the following services are effective. Call Forwarding-All Calls/Split Call Forwarding-All Calls/Call Forwarding-All Calls of Mobility Access/Do Not Disturb/Transfer the call to station set Do Not Disturb (CM51 Y=10)/Call Forwarding-Logout</i></p>	<ul style="list-style-type: none"> <li>(1) 557</li> <li>(2) 0 : Group Feature Key is available by seizing Sub line</li> <li>1◀: Group Feature Key is unavailable</li> <li>(1) 585</li> <li>(2) 0 : Effective</li> <li>1◀: Ineffective</li> </ul>
<u>END</u>		

## MUTE KEY

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### PROGRAMMING

START	DESCRIPTION	DATA
	Assign the Mute key to the Multiline Terminal.	<ul style="list-style-type: none"><li>• Y=00</li><li>(1) My Line No. + <input type="text"/> + Key No.</li><li>(2) F5013: Mute key</li></ul>

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### HARDWARE REQUIRED

Multiline Terminal and DLC blade

## MY LINE NUMBER DISPLAY

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class to each station.	<ul style="list-style-type: none"> <li>Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A ZZ : 00-15◀: Service Restriction Class B
CM15	Allow the My Line number display in the Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=210</li> </ul> (1) 00-15: Service Restriction Class A (2) 1◀: Allow
	<p><b>NOTE:</b> After setting/changing this data, the assigned data is reflected to each Multiline terminal by resetting the terminal or executing CM12 Y=29.</p>	
CM08	Specify the type of My Line Information Display on Multiline Terminal.	(1) 2000 (2) 00 : Station No. 01 : Station Name 02 : Station No. + Station Name 03 : Station Name + Station No. NONE◀: Station Name + Station No.
	<p><b>NOTE 1:</b> When the own Station Name is not assigned (by CM77 Y=0/1/5), only the Station No. is displayed (as per the setting data=00) regardless of this data setting.</p> <p><b>NOTE 2:</b> After setting/changing this data, the assigned data is applied to each Multiline terminal by resetting the terminal manually or executing CM12 Y=29.</p>	
CM12	Specify the type of My Line Information Display on Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=57</li> </ul> (1) X-XXXXXXXX: Station No. (2) 00 : Station No. 01 : Station Name 02 : Station No. + Station Name 03 : Station Name + Station No. NONE◀: As per CM08>2000.
	<p><b>NOTE:</b> When the own Station Name is not assigned (by CM77 Y=0/1/5), only the Station No. is displayed (as per the setting data=00) regardless of this data setting.</p>	
A		

A	DESCRIPTION	DATA
CM13	Specify whether or not to display Prime Line information for My Line Information Display.	<ul style="list-style-type: none"> <li>• Y=82</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Prime Line</li> <li>1◀: My Line</li> </ul>
CM08	Specify whether or not to display the last calling station No./to display a calling station No. when the calling station abandons the call before the call is answered.	<ul style="list-style-type: none"> <li>(1) 311</li> <li>(2) 0 : Not available</li> <li>1◀: Available</li> </ul>
CM12	Make the LCD display setting to be applied to each Multiline Terminal in the system.	<ul style="list-style-type: none"> <li>• Y=29</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To execute</li> </ul>
<u>END</u>	<p><b>NOTE:</b> <i>When this data is set to 0 (To execute) after changing any system data relating to the LCD display of Multiline Terminal, the changes are applied to the Multiline Terminal. After the data is applied, this data returns to 1 (Not executed).</i></p>	

## HARDWARE REQUIRED

Multiline Terminal and DLC blade

## PRESET DIALING

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Preset Dialing to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Preset Dialing on Multiline Terminal in Service Restriction Class A assigned by CM12 Y=02.  <b>NOTE:</b> <i>If this data is set to "1", Preset Dialing on Multiline Terminal is active regardless of the setting of CM12 Y=22.</i>	<ul style="list-style-type: none"> <li>Y=212</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM12	Provide that the Soft Key feature to each Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=22</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 1◀: Available</li> </ul>
END		

### HARDWARE REQUIRED

Multiline Terminal with LCD and DLC blade

## PRIME LINE PICKUP

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### PROGRAMMING

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CM93</div>	<p>Assign station or trunk to desired Multiline Terminal station as Prime Line.</p> <p><b>NOTE 1:</b> <i>It is recommended that the My Line be assigned as the Prime Line.</i></p> <p><b>NOTE 2:</b> <i>My Line number or Virtual Line number can be assigned to the Prime Line. However, the data station and Single Line Telephone cannot be assigned to the Prime Line.</i></p>	<p>(1) X-XXXXXXXX: My Line No. (2) X-XXXXXXXX: Station No. <b>NOTE 2</b> D000-D511: Trunk No.</p>
<u>END</u>		

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### HARDWARE REQUIRED

Multiline Terminal and DLC blade

## RECALL KEY

### PROGRAMMING

For internal call:

Recall key is initially assigned to all Multiline Terminals.

For outside call:

START	DESCRIPTION	DATA
CM35	Assign the data for hookflash signal sending to the route number assigned by CM30 Y=00.	<ul style="list-style-type: none"> <li>Y=016</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Sending</li> </ul>
CM90	Assign a Flash Over Trunk key to the required Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1009 F1015</li> </ul>
CM41	Specify duration of the hookflash signal to trunks.	<ul style="list-style-type: none"> <li>Y=2</li> <li>(1) 56</li> <li>(2) 01-98: 32-3136 ms. (32 ms. increments) 99 : 4080 ms.</li> </ul> <p>If no data is set, default setting is 640 ms.</p>
END	(BLADE RESET)	

### HARDWARE REQUIRED

Multiline Terminal and DLC blade

## RELAY CONTROL FUNCTION KEY

### PROGRAMMING

To use the External Relay Interface on CPU:

START	DESCRIPTION	DATA
CM44	Assign the function of relay control via Multiline Terminal to the External Relay Interface on CPU.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 312, 313: External Relay Interface on CPU</li> <li>(2) 15XX XX: 00: Relay Control (On/Off) Function Key via Multiline Terminal</li> </ul>
CM90	Assign the Relay Control (ON/OFF) key on the required Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F7 XX Z 312, 313: External Relay Interface on CPU assigned by CM44</li> </ul>
END		



To use the PGD(2)-U10 ADP:

START	DESCRIPTION	DATA
CM05	<p>Assign a Unit and Slot number to the DLC blade.</p> <p style="text-align: center;"><b>BLADE RESET</b></p> <p><b>NOTE:</b> <i>When the PGD(2)-U10 ADP is accommodated to the Remote Unit, execute the system data copy by CMEC Y=8 before executing the blade reset.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
CM10	<p>Assign the station number connected to PGD(2)-U10 ADP to its associated Physical Port number.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
CM12	<p>Assign the Kind of PGD(2)-U10 station for external relay/external key.</p> <p><b>NOTE:</b> <i>After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</i></p>	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 3: External relay/external key only</li> </ul>
CM13	<p>For the station connected to PGD(2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.</p> <p>For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a station call.</p> <p>For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.</p> <p>For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a trunk call.</p>	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> <li>• Y=41</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> <li>• Y=49</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> <li>• Y=60</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
A		

A	DESCRIPTION	DATA
CM13	For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.	<ul style="list-style-type: none"> <li>• Y=61</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
	Allow the accommodation of PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=63</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 0: To accommodate</li> </ul>
	<b>BLADE RESET</b>	
	<b>NOTE 1:</b> Set this data only for a Base Port No. (Circuit No. 01) of DLC blade.	
	<b>NOTE 2:</b> Whether the following equipment can be accommodated to the same DLC blade or not depends on this data.	
	<ul style="list-style-type: none"> <li>- When the second data is set to "0"</li> <li style="padding-left: 20px;">Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/PGD(2)-U10 ADP</li> <li style="padding-left: 20px;">Unaccommodatable: DESKCON</li> </ul>	
	<ul style="list-style-type: none"> <li>- When the second data is set to "1"</li> <li style="padding-left: 20px;">Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/DESKCON</li> <li style="padding-left: 20px;">Unaccommodatable: PGD(2)-U10 ADP</li> </ul>	
	<b>NOTE 3:</b> When the second data is set to 0, and accommodating DT300/DT400 series DESI-less to the same DLC blade to which PGD(2)-U10 ADP is accommodated, the Line Key of the DT300/DT400 series DESI-less does not light up (however, Character Display or Icon Display on the DESI-less screen is provided).	
CM44	Assign the function of relay control via Multiline Terminal to the PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX Y</li> <li style="padding-left: 20px;">XX: 00-31: Relay Group No.</li> <li style="padding-left: 20px;">Y : 0-3: Circuit No.</li> <li>(2) 15XX</li> <li style="padding-left: 20px;">XX: 00: Relay Control (On/Off) Function Key via Multiline Terminal</li> </ul>
	Associate the PGD(2)-U10 station number with the Relay Group number.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 00-31: Relay Group No.</li> <li>(2) X-XXXXXXXXX: PGD(2)-U10 Station No.</li> <li style="padding-left: 20px;">NONE◀: No data</li> </ul>
B		

B	DESCRIPTION	DATA
CM90	Assign the Relay Control (ON/OFF) key on the required Multiline Terminal.	<ul style="list-style-type: none"><li>• Y=00</li><li>(1) My Line No. + <input type="text"/> + Key No.</li><li>(2) F7 XX Z XX: 00-31: Relay Group No. assigned by CM44 Z : 0-3: Circuit No. assigned by CM44</li></ul>
END		

### HARDWARE REQUIRED

PGD(2)-U10 ADP/External Relay Interface on CPU  
External equipment provided locally  
Multiline Terminal and DLC blade

## RING FREQUENCY CONTROL

### PROGRAMMING

To control the ring frequency by system data programming:

START	DESCRIPTION	DATA
CM08	Enable the frequency control by system data programming.	(1) 390 (2) 1◀: As per CM15 Y=491, CM35 Y=034, 164
	<b>RESET</b>	
CM12	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>Y=07</li> </ul> (1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C
CM15	Specify the Ringer Tone Pattern of the Multi-line Terminal for terminating calls from a station in the Service Restriction Class C assigned by CM12 Y=07.	<ul style="list-style-type: none"> <li>Y=491</li> </ul> (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 0 : Ringer Tone Pattern 0 1 : Ringer Tone Pattern 1 2 : Ringer Tone Pattern 2 3 : Ringer Tone Pattern 3 4 : Ringer Tone Pattern 4 5 : Ringer Tone Pattern 5 6 : Ringer Tone Pattern 6 7◀: Ringer Tone Pattern 7
CM35	Specify the Ringer Tone Pattern of the Multi-line Terminal to each trunk route.	<ul style="list-style-type: none"> <li>Y=034, 164</li> </ul> (1) 00-63: Trunk Route No. (2) See the table below.

◀: Default

Y=034	Y=164: 0	Y=164: 1◀
0	Ringer Tone Pattern 3	Ringer Tone Pattern 0
1	Ringer Tone Pattern 6	Ringer Tone Pattern 1
2	Ringer Tone Pattern 5	Ringer Tone Pattern 2
3◀	Ringer Tone Pattern 4	Ringer Tone Pattern 7

A

To specify the ringer tone pattern of the Multiline Terminal to each DID number:

A	DESCRIPTION	DATA
CM76	<p>Specify the Ringer Tone Pattern of the Multiline Terminal on DID calls. For this assignment, do not set CM76 Y=23 to 7 (As per CM35 Y=034/164).</p>	<ul style="list-style-type: none"> <li>• Y=23</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 0: Ringer Tone Pattern 0</li> <li>1: Ringer Tone Pattern 1</li> <li>2: Ringer Tone Pattern 2</li> <li>3: Ringer Tone Pattern 3</li> <li>4: Ringer Tone Pattern 4</li> <li>5: Ringer Tone Pattern 5</li> <li>6: Ringer Tone Pattern 6</li> </ul>
B		

To set the ring frequency of the Multiline Terminal:

B

CM65

**DESCRIPTION**

**DATA**

Specify the ring frequency of the Multiline Terminal corresponding with the ringer tone pattern number.

- Y=40
- (1) 00-63: Tenant No.
- (2) See the table below.

◀: Default

Ringer Tone Pattern No.	Y=40: 0	Y=40: 1◀
1	Ringer Tone 1	520 + 660 [Hz]/8 [Hz] Modulating Signal
2	Ringer Tone 2	660 + 760 [Hz]/16 [Hz] Modulating Signal
3	Ringer Tone 3	1100 [Hz] Envelop
4	Ringer Tone 4	540 [Hz]
5	Ringer Tone 5	1100 [Hz]
6	Not used	1400 + 1100 [Hz]
7	Not used	520 + 660 [Hz]/16 [Hz] Modulating Signal

**NOTE:** When using music ring with DT900/DT500 Series, use CM13 Y=99 and/or CM64 Y=20-27.

CM64

Specify the ring frequency of DT900/DT500 Series corresponding with the ringer tone pattern number.

- Y=20-27
- (1) 00-63: Tenant No.
- (2) 15 : Music Ring 1
- 16 : Music Ring 2
- 17 : Music Ring 3
- NONE◀ : As per CM65 Y=40

**NOTE 1:** This command is effective only for DT900/DT500 Series. For other Multiline Terminals, use CM65 Y=40.

**NOTE 2:** For music ring unsupported terminals, follow the setting of CM65 Y=40.

CM13

Assign the music ring feature to each station.

- Y=99
- (1) X-XXXXXXXX: Station No.
- (2) 0 : Available
- 1◀: Not available

**NOTE 1:** This command is effective only for DT900/DT500 Series.

**NOTE 2:** Be sure to set this data to "1" (Not available) for music ring unsupported terminals.

**NOTE 3:** When music ring is not used, set this data to "1" (Not available) even for music ring supported terminals.

**NOTE 4:** Music ring can be used regardless of this command when music ring is set by the terminal operation (**Feature** key + 3) or on a terminal menu.

END

To control the ring frequency at the Multiline Terminal:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CM08</div>	Disable ring frequency by system data programming.	(1) 390 (2) 0: By pressing feature key and dialing 3
	<div style="text-align: right; border: 1px solid black; border-radius: 10px; padding: 2px 10px; display: inline-block;">RESET</div>  Provide the function of Multiline Terminal ringer volume control and sending of Ring Test Tone.	(1) 262 (2) 0: Available
<u>END</u>		

### HARDWARE REQUIRED

Multiline Terminal and DLC blade

## RINGING LINE PICKUP

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C for Ringing Line Pickup.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Allow Ringing Line Pickup in Service Restriction Class C assigned by CM12 Y=07.	<ul style="list-style-type: none"> <li>• Y=082</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0: Allow</li> </ul>
	Allow Ringing Line Pickup by Speaker key in Service Restriction Class C assigned by CM12 Y=07, if required.	<ul style="list-style-type: none"> <li>• Y=086</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0: Allow</li> </ul>
<u>END</u>		

### HARDWARE REQUIRED

Multiline Terminal and DLC blade



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## SOFT KEY

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### PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	<p>Provide the Soft Key feature to each Multiline Terminal.</p> <p>Assign Soft Key Pattern number to each Multiline Terminal.</p>	<ul style="list-style-type: none"> <li>• Y=22</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 1◀: Available</li> </ul> <ul style="list-style-type: none"> <li>• Y=23</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) 0 : Pattern No. 0</li> <li>1 : Pattern No. 1</li> <li>2 : Pattern No. 2</li> <li>3◀: Pattern No. 3</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		

A

CM9A

## DESCRIPTION

Assign the function of each Soft Key on each status of the Multiline Terminal.

To the 2nd data of this command, the 2nd data (F0XXX, F1XXX, F50XX) of CM90 should be assigned except for Scroll key data (F5002).

The LCD shows a maximum of 4 Soft Keys at once. If assigning more than 4 Soft Keys on one status, it is necessary to assign Scroll key at every 4 keys (on 1st through 4th display).

**NOTE 1:** *Scroll key must be assigned as a key for each active display.*

**NOTE 2:** *Help key is only available in Pattern No. 3.*

**NOTE 3:** *Pattern No. 3 is fixed.*

**NOTE 4:** *For Dial By Name assignment, refer to DIAL BY NAME.*

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**NOTE 5:** *The button numbers that can be assigned by CM9A are as follows.*

F0000-F0099  
 F0100-F0163  
 F0200-F0231  
 F0A00-F0A99  
 F0B00-F0B49  
 F1000-F1099  
 F1100-F1199  
 F1200-F1299  
 F1300-F1363  
 F5000-F5099

## DATA

- Y=00-03 Soft Key Pattern No. 0-3 assigned by CM12 Y=23

(1) aa bb

aa: 00-11: Status No.

00: Idle State

01: During dialing (Holding no call)

02: During dialing (Holding station/trunk)

03: During calling (Holding no call)

04: During calling (Holding station/trunk)

05: Being called

06: When called party is busy (Holding no call)

07: When called party is busy (Holding station/trunk)

08: When called party sets DND

09: Trunk Busy

10: During Speaking (Holding no call)

11: During Speaking (Holding station/trunk)

bb: Soft Key No. 00-15

00-03: Indicated on 1st display

04-07: Indicated on 2nd display

08-11: Indicated on 3rd display

12-15: Indicated on 4th display

(2) F5002 : Scroll key to change Soft Key Indication

F5003 : Ringer Tone Changing

F5029 : Call History

FXXXX : Setting of each function

(Same as "F0XXX, F1XXX, F50XX" of CM90)

NONE◀: No data

B

B	DESCRIPTION	DATA
CM9A	Assign the characters indicated on each status of the Multiline Terminal, corresponding to the Soft Key function assigned by CM9A Y=00-03.	<ul style="list-style-type: none"> <li>• Y=10-13 Soft Key Pattern No. 0-3 assigned by CM12 Y=23</li> <li>(1) Same as Y=00-03</li> <li>(2) XX...XX: Soft Key name indicated on LCD (2-12 characters)</li> </ul> NONE◀: No data See APPENDIX A: Character Code Table.
	Assign the function of each Soft Key on each status of the Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=18 Soft Key Pattern No. 0</li> <li>(1) Same as Y=00-03</li> <li>(2) XX...XX: Soft Key name indicated on LCD (2-12 characters) (for Russian)</li> </ul> See APPENDIX A: Character Code Table for Russian.
		<ul style="list-style-type: none"> <li>• Y=22 Soft Key Pattern No. 0 (Simplified Chinese)</li> <li>• Y=26 Soft Key Pattern No. 0 (Traditional Chinese)</li> <li>(1) Same as Y=00-03</li> <li>(2) XX...XX: Soft Key name indicated on LCD (Maximum 12 digits, 6 characters)</li> </ul> NONE◀: No data
<u>END</u>		

## HARDWARE REQUIRED

Multiline Terminal with Soft Keys and DLC blade

## VOLUME CONTROL

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow the system to keep the volume level changed by the volume button on Multiline Terminal, after the call is finished.	<ul style="list-style-type: none"> <li>• Y=135</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>
CM08	Provide the function of Multiline Terminal ringer volume control and sending of Ring Test Tone.	<ul style="list-style-type: none"> <li>(1) 262</li> <li>(2) 0: Available (By pressing Feature key and dialing 0)</li> </ul>
END		

### HARDWARE REQUIRED

Multiline Terminal and DLC blade

# MULTILINE TERMINAL ATTENDANT POSITION

## PROGRAMMING

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the DLC blade.  <div style="text-align: center; border: 1px solid black; border-radius: 15px; padding: 2px 10px;">BLADE RESET</div>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
CM10	Assign the My Line number to the required Physical Port number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: My Line No.</li> </ul>
CM12	Assign Service Restriction Class B for the Attendant Position to the required Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	Allow the Attendant Position in Service Restriction Class B assigned by CM12 Y=02.  <b>NOTE:</b> <i>The Service Restriction Class number for the Attendant Position should be different from an ordinary station.</i>	<ul style="list-style-type: none"> <li>• Y=071</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 0: Attendant Position</li> </ul>
CM11	Assign the required number of Loop, ICI (Incoming Call Identification) and OPR (Operator Call) lines to the Virtual Port number.  <b>NOTE:</b> <i>Usually, ICI/OPR numbers are assigned on a per-Attendant-Position-Group.</i>	<ul style="list-style-type: none"> <li>(1) 0000-0999: Virtual Port No.</li> <li>(2) AA X Y: Loop Line No. X: 0-7: Attendant Position No. Y: 1-5: Loop No. AB00-AB99: ICI/OPR Line No.</li> </ul>
CM12	Assign each Loop Line number assigned by CM11 as an Attendant Loop Line.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) AA01-AA75: Loop Line No. assigned by CM11</li> <li>(2) 08: Attendant Position Loop Line</li> </ul>
A		

A	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B for the ICI key to the required ICI/OPR line numbers assigned by CM11.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) AB00-AB99: ICI/OPR Line No. assigned by CM11</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	Allow the ICI/OPE key in Service Restriction Class B assigned by CM12 Y=02.  <b>NOTE:</b> <i>The Service Restriction Class number for the Attendant Position should be different from an ordinary station.</i>	<ul style="list-style-type: none"> <li>• Y=073</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 0: ICI/OPE key</li> </ul>
CM12	Assign a Hotline station to each ICI/OPR line number. With this assignment, each ICI/OPR line is restricted from call origination.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) AB00-AB99: ICI/OPR No.</li> <li>(2) 04: Hotline</li> </ul>
CM17	Assign a UCD station to each ICI/OPR line number. With this assignment, ICI/OPR lines are provided the call-queuing facility individually.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) AB00-AB99: ICI/OPR Line No.</li> <li>(2) 1: Pilot station</li> </ul> <ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) AB00-AB09: ICI/OPR Line No.</li> <li>(2) 00-99: UCD Group No.</li> </ul> <p><b>NOTE:</b> <i>Individual UCD Group number must be assigned to each ICI/OPR Line number.</i></p>
CM20	Assign the access code for Priority Call 0 used for Attendant Position access.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Attendant Position Access Code</li> <li>(2) A088: Priority Call 0</li> </ul>
CM51	Assign the destination of Priority Call 0 to each OPR line.	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) 00-63: Tenant No.</li> <li>(2) AB00-AB99: OPR Line No.</li> </ul>
CM08	Assign the destination of Priority Call 0 to the same station as Off-Hook Alarm.	<ul style="list-style-type: none"> <li>(1) 250</li> <li>(2) 0: Same station as Off-Hook Alarm</li> </ul>
B		

B	DESCRIPTION	DATA
CM30	On the required trunks, assign the destination of DIT to each ICI line.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 04: Direct-in Termination</li> </ul>
CM08	Provide the system with Day/Night Mode Change by a Night key on Attendant Position.	<ul style="list-style-type: none"> <li>• Y=04</li> <li>(1) 000-511: Trunk No.</li> <li>(2) AB00-AB99: ICI Line No.</li> </ul>
CM12	Assign Service Restriction Class B for Day/Night Mode Change by station dialing to Attendant Position.	<ul style="list-style-type: none"> <li>(1) 244: Terminating system change</li> <li>(2) 0: Available</li> </ul>
CM15	Allow Day/Night Mode Change by station dialing in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>(1) 245: Trunk Restriction Class change</li> <li>(2) 0: Available</li> </ul>
CM90	Assign the Loop keys to each Multiline Terminal, and assign the function keys required for the Attendant Position to the Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	Allow Day/Night Mode Change by station dialing in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=060</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM08	Specify the operation of Line Preselection on a Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) AA01-AA75 : Loop Key AB00-AB99 : ICI/OPR Key F0300 : Operator Call Key F1020 : Release Key F1080 : Do Not Disturb Override F1300-F1363: Day/Night Mode change by Tenant 00-63</li> </ul>
CM08	Specify the operation of Line Preselection on a Multiline Terminal.	<ul style="list-style-type: none"> <li>(1) 199</li> <li>(2) 0 : Only desired line key 1◀: Off-hook/Speaker key is required after pressing the desired line key</li> </ul>
END	<p><b>NOTE:</b> To provide a Trunk Name/Station Name, refer to <i>CALLING NAME AND NUMBER DISPLAY</i>.</p> <p><a href="#">Page 1-599</a></p>	

To use a DSS Console with the Multiline Terminal Attendant Position, add the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM05</div>	Assign a Unit and Slot number to the DLC blade. <div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin: 10px auto;">BLADE RESET</div>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ                          XX: 01-50: Unit No.                          ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM10</div>	Assign the DSS Console number to the required Physical Port number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No.                          XX: 01-50: Unit No.                          YY: 01-18: Slot No.                          ZZ : 01-32: Circuit No.</li> <li>(2) E100-E131 : DSS Console No.</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM96</div>	Assign the My Line number of the Attendant Position associated with each DSS Console.	<ul style="list-style-type: none"> <li>(1) 00-31: DSS Console No. assigned by CM10 Y=00 (E100-E131)</li> <li>(2) X-XXXXXXXX: My Line No. of Attendant Position</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM97</div>	Assign station numbers to the DSS keys. Assign the MW, DND, NT keys as function keys.	<ul style="list-style-type: none"> <li>(1) For DSS key:                          DSS Console No. (00-31) + <span style="border: 1px solid black; padding: 0 5px;"> </span> + DSS key No. (00-59)</li> <li>(2) X-XXXXXXXX: Station No.</li> <li>(1) For Function key:                          DSS Console No. (00-31) + <span style="border: 1px solid black; padding: 0 5px;"> </span> + DSS key No. (57-59)</li> <li>(2) F1049: Message Waiting-Set/Reset                          F1053: Do Not Disturb-Set/Reset                          F0043: Night Key</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">END</div>		



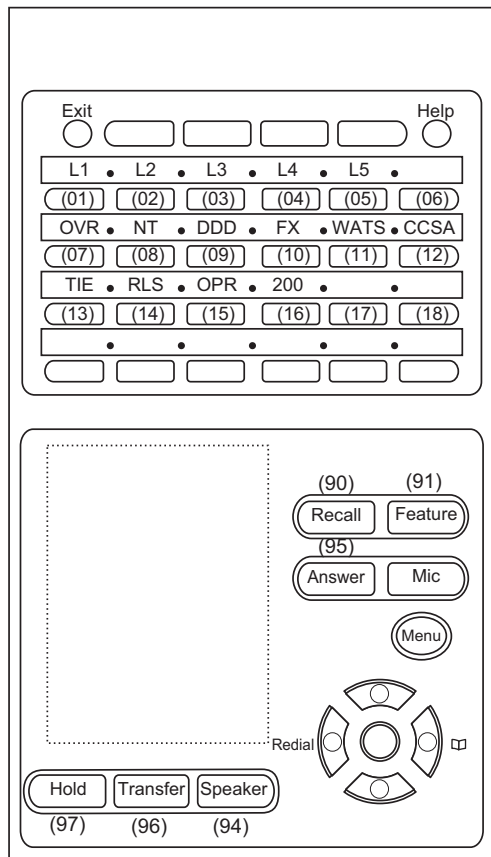
To restrict the termination of the call to Multiline Terminal Attendant Position which is set to Night Mode:

START	DESCRIPTION	DATA
CM13	Restrict the termination of the call to Multiline Terminal Attendant Position which is set to Night Mode.	<ul style="list-style-type: none"> <li>• Y=56</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: Restricted</li> </ul>
CM08	Provide the Attendant Night Transfer when a station/trunk call to Multiline Terminal Attendant Position which is set to Night Mode is terminated.	<ul style="list-style-type: none"> <li>(1) 576</li> <li>(2) 0: To provide</li> </ul>
CM51	Assign the transfer destination of incoming call when Do Not Disturb is set to the Attendant Console Night Mode is set assigned by CM51 Y=10 (for DID/Tie Line call).	<ul style="list-style-type: none"> <li>• Y=09</li> <li>(1) 00-63: Tenant No.</li> <li>(2) NONE◀: No data</li> </ul>
END		

To provide the Attendant Night Transfer when a station/trunk call to Multiline Terminal Attendant Position which is set to Night Mode is terminated:

START	DESCRIPTION	DATA
CM13	Allow the termination of the call to Multiline Terminal Attendant Position which is set to Night Mode.	<ul style="list-style-type: none"> <li>• Y=56</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1◀: Allowed</li> </ul>
CM08	Provide the Attendant Night Transfer when a station/trunk call to Multiline Terminal Attendant Position which is set to Night Mode is terminated.	<ul style="list-style-type: none"> <li>(1) 576</li> <li>(2) 0: To provide</li> </ul>
CM51	<p>Assign the transfer destination of incoming call when Do Not Disturb is set to the Attendant Console Night Mode is set assigned by CM51 Y=10 (for DID/Tie Line call).</p> <p style="text-align: center;">or</p> <p>Assign the transfer destination of incoming call when a called station is set to Call Forwarding-All Calls/Busy Line/No Answer and the destination of forwarded call is set to the Attendant Console Night Mode is set (for DID/DIT/Tie Line).</p>	<ul style="list-style-type: none"> <li>• Y=09</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXXXX: Station No.</li> <li>NONE◀ : No data</li> </ul>
<u>END</u>		

**Example:**



L1-L5 : Loop Keys  
 DDD : }  
 FX : } ICI Keys  
 WATS : }  
 CCSA : }  
 TIE : }

RLS : Release Key  
 OPR : Operator Call Key  
 200 : My Line  
 OVR : Executive Override  
 NT : Night Key

**Conditions**

- (1) Operator Access Code: 0
- (2) My Line No.: 200
- (3) ICI/Function Keys
  - DDD Line : TRUNK 000-004 (ICI Line No.=AB20)
  - FX Line : TRUNK 005 (ICI Line No.=AB21)
  - WATS Line: TRUNK 006 (ICI Line No.=AB22)
  - CCSA Line: TRUNK 007 (ICI Line No.=AB23)
  - TIE Line : TRUNK 008-010 (ICI Line No.=AB24)
  - OPR Line : Operator Call from Stations (OPR Line No.=AB10)
  - OVR Key : Executive Override
  - NT Key : Night Key
- (4) Number of Loop: 5 (Loop Line No.=AA01-AA05)
- (5) Tenant No.: 00
- (6) Numbering Plan Group: 0
- (7) Type of Multiline Terminal: ITZ-24D

Programming for Example:

COMMAND CODE	1ST DATA	2ND DATA	REMARKS	
11	000	AA01	Loop Line Number	
	001	AA02		
	002	AA03		
	003	AA04		
	004	AA05		
	12-02	005	AB10	OPR Line Number
		006	AB20	DDD
		007	AB21	FX
		008	AB22	WATS
		009	AB23	CCSA
010		AB24	TIE	
12-03	200	1500	Service Class for Attendant Position	
	AB10	1501	Service Class for ICI Line	
	AB20	1501		
	AB21	1501		
	AB22	1501		
	AB23	1501		
	AB24	1501		
15-071	AA01	08	Service Class for Loop Line	
	AA02	08		
	AA03	08		
	AA04	08		
	AA05	08		
	15-073	AB10	04	Hotline Assignment
		AB20	04	
		AB21	04	
		AB22	04	
		AB23	04	
		AB24	04	
200	15			
17-1	00	0	Attendant Position Class	
17-1	01	0	ICI/OPR Key Class	
17-1	AB10	1	Assign UCD Pilot Station to the ICI/OPR Line Numbers	
	AB20	1		
	AB21	1		
	AB22	1		
	AB23	1		
	AB24	1		

COMMAND CODE	1ST DATA	2ND DATA	REMARKS	
17-2 ⎵	AB10	00	Assign UCD Group to the ICI/OPR Line Numbers	
	AB20	01		
	AB21	02		
	AB22	03		
	AB23	04		
	AB24	05		
20-0	0	A088	Operator Access Code	
51-12	00	AB10	Operator Call Termination to OPR Line	
08	250	0		
30-02 ⎵	000	04	DIT	
	001	04		
	002	04		
	003	04		
	004	04		
	005	04		
	006	04		
30-04 ⎵	000	AB20	Incoming Call Termination to ICI Line	
	001	AB20		
	002	AB20		
	003	AB20		
	004	AB20		
	005	AB21		
	006	AB22		
90-00 ⎵	200,01	AA01	LOOP Key	
	200,02	AA02		
	200,03	AA03		
	200,04	AA04		
	200,05	AA05		
	200,07	F0006	OVR Key	
	200,08	F1300	NT Key	
	200,09	AB20	DDD Key	
	200,10	AB21	FX Key	
	200,11	AB22	WATS Key	
	200,12	AB23	CCSA Key	
	200,13	AB24	TIE Key	
	200,14	F1020	RLS Key	
	200,15	AB10	OPR Key	
	200,16	200	My Line Key	
	08	244	0	Definition of NT key function
	08	245	0	

# MULTIPLE LANGUAGE DISPLAY

## PROGRAMMING

To specify the display language for each station, do the following programming:

- For Multiline Terminal:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	<p>Specify the display language for a Multiline Terminal to each station.</p> <p><b>NOTE 1:</b> <i>When the setting of the DT700/DT800/DT900 Series is changed, a reset of the terminal is required.</i></p> <p><b>NOTE 2:</b> <i>When the second data is set to "15", "16", "17", and "18" for the terminal which cannot display Russian/Turkish/Chinese characters on the LCD, the terminal displays English characters on the LCD (same as the second data "01").</i></p>	<ul style="list-style-type: none"> <li>• Y=63</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00 : Japanese</li> <li>01 : English</li> <li>02 : French (Canadian French)</li> <li>03 : Spanish (Latin Spanish)</li> <li>04 : Portuguese (Brazilian Portuguese)</li> <li>05 : German</li> <li>06 : Italian</li> <li>07 : Netherlandish</li> <li>08 : French (Europe)</li> <li>09 : Spanish (Europe)</li> <li>10 : Portuguese (Europe)</li> <li>11 : Swedish</li> <li>12 : Danish</li> <li>13 : Catalan (Europe)</li> <li>15 : Russian</li> <li>16 : Turkish</li> <li>17 : Simplified Chinese</li> <li>18 : Traditional Chinese</li> <li>31◀: As per CM04 Y=00&gt;00</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	<p>Specify whether the monetary unit for ISDN call charge is displayed or not.</p> <p><b>NOTE:</b> <i>When setting the second data to 1 and CM04 Y=00&gt;00 is set to 01-31, \$ is displayed.</i></p>	<ul style="list-style-type: none"> <li>(1) 820</li> <li>(2) 0 : Monetary unit is not displayed</li> <li>1◀: As per CM04 Y=00&gt;00</li> </ul>
<p><u>END</u></p>		

- For DESKCON:

START	DESCRIPTION	DATA
CM60	Specify the display language for a DESKCON to each DESKCON number.	<ul style="list-style-type: none"> <li>• Y=33</li> <li>(1) 0-7: DESKCON No.</li> <li>(2) 00 : Japanese</li> <li>01 : English</li> <li>02 : French (Canadian French)</li> <li>03 : Spanish (Latin Spanish)</li> <li>04 : Portuguese (Brazilian Portuguese)</li> <li>05 : German</li> <li>06 : Italian</li> <li>07 : Netherlandish</li> <li>08 : French (Europe)</li> <li>09 : Spanish (Europe)</li> <li>10 : Portuguese (Europe)</li> <li>11 : Swedish</li> <li>12 : Danish</li> <li>13 : Catalan (Europe)</li> <li>31◀: As per CM04 Y=00&gt;00</li> </ul>
CM08	Specify whether the monetary unit for ISDN call charge is displayed or not.	<ul style="list-style-type: none"> <li>(1) 820</li> <li>(2) 0 : Monetary unit is not displayed</li> <li>1◀: As per CM04 Y=00&gt;00</li> </ul>
END	<p><b>NOTE 1:</b> <i>When the second data is set to 1 and CM04 Y=00&gt;00 is set to 01-31, \$ is displayed.</i></p> <p><b>NOTE 2:</b> <i>Set this command for the area where the monetary unit is not displayed (where the dollar unit is not used).</i></p>	

To specify the display language for each system, do the following programming:

START	DESCRIPTION	DATA
CM12	Specify the display language for a Multiline Terminal to each station.	<ul style="list-style-type: none"> <li>• Y=63</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 31◀: As per CM04 Y=00&gt;00</li> </ul>
CM60	Specify the display language for a DESKCON to each DESKCON number.	<ul style="list-style-type: none"> <li>• Y=33</li> <li>(1) 0-7: DESKCON No.</li> <li>(2) 31◀: As per CM04 Y=00&gt;00</li> </ul>
CM04	Display language for Multiline Terminal/ DESKCON LCD (System Base).	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 00: For Multiline Terminal/DESKCON LCD</li> <li>(2) 00 : Japanese</li> <li>01 : English</li> <li>02 : French (Canadian French)</li> <li>03 : Spanish (Latin Spanish)</li> <li>04 : Portuguese (Brazilian Portuguese)</li> <li>05 : German</li> <li>06 : Italian</li> <li>07 : Netherlandish</li> <li>08 : French (Europe)</li> <li>09 : Spanish (Europe)</li> <li>10 : Portuguese (Europe)</li> <li>11 : Swedish</li> <li>12 : Danish</li> <li>13 : Catalan (Europe)</li> <li>15 : Russian</li> <li>16 : Turkish</li> <li>17 : Simplified Chinese</li> <li>18 : Traditional Chinese</li> <li>31◀: English</li> </ul>

**NOTE:** *After setting/changing this data, the assigned data is reflected to each Multiline terminal by resetting the terminal (i.e. unplugging the terminal cable and plugging it again/ extracting the DLC blade and inserting it again) or executing CM12 Y=29.*





A	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	<p>Specify whether the monetary unit for ISDN call charge is displayed or not.</p> <p><b>NOTE 1:</b> <i>When the second data is set to 1 and CM04 Y=00&gt;00 is set to 01-31, \$ is displayed.</i></p> <p><b>NOTE 2:</b> <i>Set this command for the area where the monetary unit is not displayed (where the dollar unit is not used).</i></p>	<p>(1) 820            (2) 0 : Monetary unit is not displayed            1◀: As per CM04 Y=00&gt;00</p>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	<p>Make the LCD display settings to be applied to each Multiline Terminal in the system</p> <p><b>NOTE:</b> <i>When this data is set to 0 (To execute) after changing any system data relating to the LCD display of Multiline Terminal, the changes are reflected to the Multiline Terminal. After the reflection is completed, this data returns to 1 (Not executed).</i></p>	<p>• Y=29            (1) X-XXXXXXXX: Station No.            (2) 0: To execute</p>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

### HARDWARE REQUIRED

- Multiline Terminal with LCD and DLC blade
- DESKCON with LCD and DLC blade

# MUSIC ON HOLD

## PROGRAMMING

To provide a music as a Hold Tone:

START	DESCRIPTION	DATA
CM48	<p>Define the type of call to be provided with Hold Tone Source on the CPU blade.</p> <p><b>NOTE 1:</b> <i>Set the second data to "00", when a SIP trunk is used for an IP trunk. Set the second data to "01", when a SIP trunk is used for a TIE line.</i></p> <p><b>NOTE 2:</b> <i>When IP Station is used, this data is not effective. In this case, the hold tone source on IP Station is used.</i></p> <p>Set the music for Hold Tone.</p> <p><b>NOTE:</b> <i>This data setting is effective only for Single Line Telephone/Digital Multiline Terminal. For IP Station, this data setting is not effective. IP Station uses the tone source in IP Adapter (Minuet).</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00: C.O. Line Call (COT/ISDN/SIP Trunk is contained) <b>NOTE 1</b></li> <li>01: Tie Line Call (ODT/LDT/DTI/CCIS/IPT [P2P CCIS]/SIP Trunk is contained) <b>NOTE 1</b></li> <li>02: Internal Call (Soft Phone is contained)</li> <li>(2) 1400: Hold Tone Source on CPU blade <b>NOTE 2</b></li> </ul> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 01</li> <li>(2) 00 : Nocturne</li> <li>01 : Minuet</li> <li>02 : Fur Elise</li> <li>03 : The Maiden's Prayer</li> <li>04 : When the saints go marching in</li> <li>06 : Spring (by four seasons)</li> <li>08 : Ich bin ein Musikante (German folk song)</li> <li>10 : Amaryllis (French folk song)</li> <li>NONE◀: Minuet</li> </ul>
<u>END</u>		

To provide no tone or a tone generated by Internal Tone Generator as a Hold Tone:

START	DESCRIPTION	DATA
CM48	Define the type of call to be provided with Hold Tone.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00: C.O. Line Call (COT/ISDN/SIP Trunk is contained) <b>NOTE 1</b></li> <li>01: Tie Line Call (ODT/LDT/DTI/CCIS/IPT [P2P CCIS]/SIP Trunk is contained) <b>NOTE 1</b></li> <li>02: Internal Call (Soft Phone is contained)</li> <li>(2) 0000 : No Tone</li> <li>1500 : Internal Tone Generator</li> <li><b>NOTE 2</b></li> <li>NONE◀: Hold Tone Source on CPU blade <b>NOTE 2</b></li> </ul>
<u>END</u>		

To provide External Hold Tone Source through Pin JACK on the front of CPU blade:

START

DESCRIPTION

DATA

CM48

Define the type of call to be provided with Hold Tone.

- Y=0
- (1) 00: C.O. Line Call (ISDN/SIP Trunk is contained) **NOTE 1**
- 01: Tie Line Call (ODT/LDT/DTI/CCIS/IPT [P2P CCIS]/SIP Trunk is contained) **NOTE 1**
- 02: Internal Call (Soft Phone is contained)
- (2) 1300: Hold Tone Source on CPU blade/ External Hold Tone Source **NOTE 2**

**NOTE 1:** Set the second data to "00", when a SIP trunk is used for an IP trunk.  
Set the second data to "01", when a SIP trunk is used for a TIE line.

**NOTE 2:** Terminal and trunk that can be sent External Hold Tone Source are follows.

Terminal/Trunk	Kind of Terminal/Trunk	Remarks
Terminal	Single Line Telephone	
	Digital Multiline Terminal	
	IP Station (DT700/DT800/DT900 Series)	For an IP Station except for DT700/DT800/DT900 Series, the hold tone source on IP Station is used.
	Standard SIP Terminal	
	Mobile phone (Mobility Access)	
Trunk	All trunks	However, an IPT (P2P CCIS) is available from 9300V5 software or later.

CM64

Specify Hold Tone Source per tenant.

- Y=1
- (1) 00-63: Tenant No.
- (2) 11 : External Hold Tone Source through Pin JACK on the CPU blade
- NONE◀: Hold Tone Source on CPU Blade

A

A	DESCRIPTION	DATA
CM64	Specify the Hold Tone Source location for each tenant.  <b>NOTE:</b> <i>To provide External Hold Tone via an IPT (P2P CCIS), set the second data to "01".</i>	<ul style="list-style-type: none"> <li>• Y=17</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 01-50 : Unit No. where Tone Source is accommodated (01-50)</li> <li>NONE◀: Same as the Unit where the terminal is accommodated</li> </ul>
CM08	Specify the holding/held control for Music on Hold tenant basis.  <b>NOTE:</b> <i>To provide External Hold Tone via an IPT (P2P CCIS), set the second data to "1".</i>	<ul style="list-style-type: none"> <li>(1) 388</li> <li>(2) 0 : Held party control (tenant)</li> <li>1◀: Holding party control (tenant)</li> </ul>
	Specify the External Hold Tone sending to DT700/DT800/DT900 Series.  <b>NOTE:</b> <i>When the second data is set to 0 (Not available), the Hold Tone source on the terminal side will be heard.</i>	<ul style="list-style-type: none"> <li>(1) 1036</li> <li>(2) 0 : Not available</li> <li>1◀: Available</li> </ul>
	Specify whether to send an External Hold Tone via IPT (P2P CCIS). <b>[9300V5 software required]</b>  <b>NOTE:</b> <i>When the second data is set to "1 (Not Available)", the Music On Hold setting in the opposite office will be used.</i>	<ul style="list-style-type: none"> <li>(1) 1237</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul>
	Specify whether to restrict Dual Hold via IPT (P2P CCIS). <b>[9300V5 software required]</b>  <b>NOTE:</b> <i>To send External Hold Tone to 2400 IPX through IPT (P2P CCIS), set the second data to "0".</i>	<ul style="list-style-type: none"> <li>(1) 1238</li> <li>(2) 0 : Restricted</li> <li>1◀: Allowed</li> </ul>
B		

B

CM04

END**DESCRIPTION****DATA**

Specify the simultaneous usable number to connect External Hold Tone via VoIPDB.

- Y=10-59
- (1) 06
- (2) 000-128 : The simultaneous usable number
- NONE◀: 128

**NOTE 1:** *When using one External Hold Tone source for a number of stations/trunks, VoIPDB channels of the Unit which accommodates External Hold Tone source may be occupied for sending the source, set this data if necessary.*

**NOTE 2:** *When the simultaneous usable number exceeded the setting value, Hold Tone Source on CPU blade is sent.*

**NOTE 3:** *The actual simultaneous usable number depends on the number of VoIPDB channels.*

To provide the Message on Hold by the Voice Response System (VRS):

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Voice Response System access (Record/Replay/Delete) in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=033</li> <li>(1) XX: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM48	Define the type of call to be provided with Hold Message by Voice Response System.  <b>NOTE:</b> <i>Set the second data to "00", when a SIP trunk is used for an IP trunk. Set the second data to "01", when a SIP trunk is used for a TIE line.</i>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00: C.O. Line Call (ISDN/SIP Trunk is contained) <b>NOTE</b> 01: Tie Line Call (ODT/LDT/DTI/CCIS/IPT [P2P CCIS]/SIP Trunk is contained) <b>NOTE</b> 02: Internal Call (Soft Phone is contained)</li> <li>(2) 0500: Voice Response System</li> </ul>
CM49	Assign the data for Message on Hold Service to the Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 05XX: Message on Hold XX : 00-63: Message No.</li> <li>• Y=05</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 00-63: Message No. assigned by CM49 Y=00</li> </ul>
CM41	Specify the Message on Hold Service with VRS guard timer.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 164</li> <li>(2) 01-12: 10-120 minutes (10 minutes increment)</li> </ul> If no data is set, the default setting is 30 minutes.
CM20	To record, replay and delete a message, assign the appropriate Voice Response System access code respectively.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A100: Record A101: Replay A102: Delete</li> </ul>
END		

To provide External Hold Tone Machine:

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the DLC blade. <div style="text-align: center; border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin: 10px auto;">BLADE RESET</div> <p><b>NOTE:</b> <i>When the PGD(2)-U10 ADP is accommodated to the Remote Unit, execute the system data copy by CMEC Y=8 before executing the blade reset.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
CM10	Assign the station number connected to PGD(2)-U10 ADP to its associated Physical Port number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-16: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
CM13	For the station connected to PGD(2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.  For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a station call.  For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.  For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a trunk call.  For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> </ul> <ul style="list-style-type: none"> <li>• Y=41</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul> <ul style="list-style-type: none"> <li>• Y=49</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul> <ul style="list-style-type: none"> <li>• Y=60</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul> <ul style="list-style-type: none"> <li>• Y=61</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
A		



A	DESCRIPTION	DATA
CM13	Allow the accommodation of PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=63</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To accommodate</li> <li>1 ◀: Not accommodated</li> </ul>
	<b>BLADE RESET</b>	
	<p><b>NOTE 1:</b> Set this data only for a Base Port No. (Circuit No. 01) of DLC blade.</p> <p><b>NOTE 2:</b> Whether the following equipment can be accommodated to the same DLC blade or not depends on this data.</p> <ul style="list-style-type: none"> <li>- When the second data is set to "0" <ul style="list-style-type: none"> <li>Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/PGD(2)-U10 ADP</li> <li>Unaccommodatable: DESKCON</li> </ul> </li> <li>- When the second data is set to "1" <ul style="list-style-type: none"> <li>Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/DESKCON</li> <li>Unaccommodatable: PGD(2)-U10 ADP</li> </ul> </li> </ul> <p><b>NOTE 3:</b> When the second data is set to 0, and accommodating DT300/DT400 series DESI-less to the same DLC blade to which PGD(2)-U10 ADP is accommodated, the Line Key of the DT300/DT400 series DESI-less does not light up (however, Character Display or Icon Display on the DESI-less screen is provided).</p>	
CM12	Set the kind of PGD(2)-U10 station (CH1) to External Tone Source.	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 3: External Hold Tone Source</li> </ul>
	<p><b>NOTE:</b> After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</p>	
B		

B

**DESCRIPTION**

**DATA**

CM48

Define the type of call to be provided with External Hold Tone.

- Y=0
- (1) 00: C.O. Line Call (ISDN/SIP Trunk is contained) **NOTE 1**
- 01: Tie Line Call (ODT/LDT/DTI/CCIS/ IPT [P2P CCIS]/SIP Trunk is contained) **NOTE 1**
- 02: Internal Call
- (2) 1300: External Hold Tone Source **NOTE 2**

**NOTE 1:** Set the second data to "00", when a SIP trunk is used for an IP trunk.  
Set the second data to "01", when a SIP trunk is used for a TIE line.

**NOTE 2:** Terminal and trunk that can be sent External Hold Tone Source are follows.

Terminal/Trunk	Kind of Terminal/Trunk	Remarks
Terminal	Single Line Telephone	
	Digital Multiline Terminal	
	IP Station (DT700/DT800/DT900 Series)	For an IP Station except DT700/DT800/DT900 Series, the hold tone source on IP Station is used.
	Standard SIP Terminal	
	Mobile phone (Mobility Access)	
Trunk	All trunks	However, an IPT (P2P CCIS) is available from 9300V5 software or later.

Specify the External Hold Tone Source per Unit.

- Y=7
- (1) XX ZZ  
XX: 01-50: Unit No.  
ZZ : 00-09: External Hold Tone Source No.
- (2) X-XXXXXXXX: PGD(2)-U10 Station No.  
NONE◀ : Hold Tone Source on CPU blade

CM64

Specify External Hold Tone Source per each tenant.

- Y=1
- (1) 00-63: Tenant No.
- (2) 00-09 : External Hold Tone Source  
NONE◀: Hold Tone Source on CPU Blade

C

C	DESCRIPTION	DATA
CM64	<p>Specify the Hold Tone Source location for each tenant.</p> <p><b>NOTE:</b> <i>To provide External Hold Tone via an IPT (P2P CCIS), set the second data to "01".</i></p>	<ul style="list-style-type: none"> <li>• Y=17</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 01-50 : Unit No. where Tone Source is accommodated (01-50)</li> <li>NONE◀: Same as the Unit where the terminal is accommodated</li> </ul>
CM08	<p>Specify which tenant External Hold Tone is sent from.</p> <p><b>NOTE:</b> <i>To provide External Hold Tone via an IPT (P2P CCIS), set the second data to "1".</i></p>	<ul style="list-style-type: none"> <li>(1) 388</li> <li>(2) 0 : Tenant of held station/trunk</li> <li>1◀: Tenant of holding station</li> </ul>
	<p>Specify the External Hold Tone sending to DT700/DT800/DT900 Series.</p> <p><b>NOTE:</b> <i>When the second data is set to "0 (Not available)", the Hold Tone source on the terminal side will be heard.</i></p>	<ul style="list-style-type: none"> <li>(1) 1036</li> <li>(2) 0 : Not available</li> <li>1◀: Available</li> </ul>
	<p>Specify whether to send an External Hold Tone via IPT (P2P CCIS).</p> <p><b>[9300V5 software required]</b></p> <p><b>NOTE:</b> <i>When the second data is set to "1 (Not Available)", the Music On Hold setting in the opposite office will be used.</i></p>	<ul style="list-style-type: none"> <li>(1) 1237</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul>
	<p>Specify whether to restrict Dual Hold via IPT (P2P CCIS).</p> <p><b>[9300V5 software required]</b></p> <p><b>NOTE:</b> <i>To send External Hold Tone to 2400 IPX through IPT (P2P CCIS), set the second data to "0".</i></p>	<ul style="list-style-type: none"> <li>(1) 1238</li> <li>(2) 0 : Restricted</li> <li>1◀: Allowed</li> </ul>
D		

D	DESCRIPTION	DATA
CM04	Specify the simultaneous usable number to connect External Hold Tone via VoIPDB.	<ul style="list-style-type: none"> <li>• Y=10-59</li> <li>(1) 06</li> <li>(2) 000-128 : The simultaneous usable number</li> <li style="padding-left: 100px;">NONE◀: 128</li> </ul>
	<p><b>NOTE 1:</b> <i>When using one External Hold Tone source for a number of stations/trunks, VoIPDB channels of the Unit which accommodates External Hold Tone source may be occupied for sending the source, set this data if necessary.</i></p>	
	<p><b>NOTE 2:</b> <i>When the simultaneous usable number exceeded the setting value, Hold Tone Source on CPU blade is sent.</i></p>	
	<p><b>NOTE 3:</b> <i>The actual simultaneous usable number depends on the number of VoIPDB channels.</i></p>	
CM44	Assign the External Hold Tone Source to the PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX Y XX: 00-31: Relay Group No. Y : 0-3: Circuit No. of PGD(2)-U10 ADP</li> <li>(2) 00XX: External Hold Tone Machine Start XX: 00-09: External Hold Tone for Music on Hold</li> </ul>
	Associate the PGD(2)-U10 station number with the Relay Group number.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 00-31: Relay Group No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No.</li> <li style="padding-left: 100px;">NONE◀ : No data</li> </ul>
CME5	Make the PGD(2)-U10 station busy to restrict a calling from the PGD(2)-U10 station.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: Make busy set</li> </ul>
END		

To use the dual port mode, do the following programming (the following programming is not required only when using the single port mode).

START	DESCRIPTION	DATA
CM10	Assign the station number connected to PGD(2)-U10 ADP (CH2) to its associated Physical Port number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 17-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
	<p><b>NOTE:</b> <i>The setting of the Dual port mode is required when using 2 paging equipment on the PGD(2)-U10 ADP. For details, refer to “Setting Method of Port number/Station number in Dual port mode” in the Command Manual.</i></p>	
CM13	For the station connected to PGD(2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> </ul>
	For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a station call.	<ul style="list-style-type: none"> <li>• Y=41</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
	For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.	<ul style="list-style-type: none"> <li>• Y=49</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
	For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a trunk call.	<ul style="list-style-type: none"> <li>• Y=60</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
	For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.	<ul style="list-style-type: none"> <li>• Y=61</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
CM12	Assign the kind of PGD(2)-U10 station (CH2).	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 3: External Hold Tone Source</li> </ul>
	<p><b>NOTE:</b> <i>After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</i></p>	
A		

A

**DESCRIPTION**

**DATA**

CM48

Define the type of call to be provided with External Hold Tone.

- Y=0
- (1) 00: C.O. Line Call (ISDN/SIP Trunk is contained) **NOTE 1**
- 01: Tie Line Call (ODT/LDT/DTI/CCIS/ IPT [P2P CCIS]/SIP Trunk is contained) **NOTE 1**
- 02: Internal Call
- (2) 1300: External Hold Tone Source **NOTE 2**

**NOTE 1:** Set the second data to "00", when a SIP trunk is used for an IP trunk.  
Set the second data to "01", when a SIP trunk is used for a TIE line.

**NOTE 2:** Terminal and trunk that can be sent External Hold Tone Source are follows.

Terminal/Trunk	Kind of Terminal/Trunk	Remarks
Terminal	Single Line Telephone	
	Digital Multiline Terminal	
	IP Station (DT700/DT800/DT900 Series)	For an IP Station except DT700/DT800/DT900 Series, the hold tone source on IP Station is used.
	Standard SIP Terminal	
	Mobile phone (Mobility Access)	
Trunk	All trunks	However, an IPT (P2P CCIS) is available from 9300V5 software or later.

Specify the External Hold Tone Source per Unit.

- Y=7
- (1) XX ZZ  
XX: 01-50: Unit No.  
ZZ : 00-09: External Hold Tone Source No.
- (2) X-XXXXXXXXX: PGD(2)-U10 Station No.  
NONE◀ : Hold Tone Source on CPU blade

CM64

Specify External Hold Tone Source per each tenant.

- Y=1
- (1) 00-63: Tenant No.
- (2) 00-09 : External Hold Tone Source  
NONE◀: Hold Tone Source on CPU Blade

B

B	DESCRIPTION	DATA
CM64	Specify the Hold Tone Source location for each tenant.	<ul style="list-style-type: none"> <li>• Y=17</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 01-50 : Unit No. where Tone Source is accommodated (01-50)</li> <li>NONE◀: Same as the Unit where the terminal is accommodated</li> </ul>
CM08	Specify which tenant External Hold Tone is sent from.	<ul style="list-style-type: none"> <li>(1) 388</li> <li>(2) 0 : Tenant of held station/trunk</li> <li>1◀: Tenant of holding station</li> </ul>
	Specify the External Hold Tone sending to DT700/DT800/DT900 Series.	<ul style="list-style-type: none"> <li>(1) 1036</li> <li>(2) 0 : Not available</li> <li>1◀: Available</li> </ul>
	<b>NOTE:</b> <i>When the second data is set to “0 (Not available)”, the Hold Tone source on the terminal side will be heard.</i>	
	Specify whether to send an External Hold Tone via IPT (P2P CCIS).	<ul style="list-style-type: none"> <li>(1) 1237</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul>
	<b>[9300V5 software required]</b>	
	<b>NOTE:</b> <i>When the second data is set to “1 (Not Available)”, the Music On Hold setting in the opposite office will be used.</i>	
	Specify whether to restrict Dual Hold via IPT (P2P CCIS).	<ul style="list-style-type: none"> <li>(1) 1238</li> <li>(2) 0 : Restricted</li> <li>1◀: Allowed</li> </ul>
	<b>[9300V5 software required]</b>	
	<b>NOTE:</b> <i>To send External Hold Tone to 2400 IPX through IPT (P2P CCIS), set the second data to “0”.</i>	
CM04	Specify the simultaneous usable number to connect External Hold Tone via VoIPDB.	<ul style="list-style-type: none"> <li>• Y=10-59</li> <li>(1) 06</li> <li>(2) 000-128 : The simultaneous usable number</li> <li>NONE◀: 128</li> </ul>
	<b>NOTE 1:</b> <i>When using one External Hold Tone source for a number of stations/trunks, VoIPDB channels of the Unit which accommodates External Hold Tone source may be occupied for sending the source, set this data if necessary.</i>	
	<b>NOTE 2:</b> <i>When the simultaneous usable number exceeded the setting value, Hold Tone Source on CPU blade is sent.</i>	
	<b>NOTE 3:</b> <i>The actual simultaneous usable number depends on the number of VoIPDB channels.</i>	
C		

C	DESCRIPTION	DATA
CM44	Assign the External Hold Tone Source to the PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX Y XX: 00-31: Relay Group No. Y : 0-3: Circuit No. of PGD(2)-U10 ADP</li> <li>(2) 00XX: External Hold Tone Machine Start XX: 00-09: External Hold Tone for Music on Hold</li> </ul>
	Associate the PGD(2)-U10 station number with the Relay Group number.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 00-31: Relay Group No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No. NONE◀: No data</li> </ul>
CM13	Provide the connection with Dual port mode to the PGD(2)-U10 ADP (CH1). <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>• Y=32</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To connect 1◀: Not connected</li> </ul>
	Set the port mode of the PGD(2)-U10 ADP (CH1) to Dual port mode. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>• Y=33</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Dual port mode 1◀: Single port mode</li> </ul>
	Assign the station connected to Dual port mode of the PGD(2)-U10 ADP (CH2).	<ul style="list-style-type: none"> <li>• Y=34</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Station connected to Dual port mode of the PGD(2)-U10 ADP 1◀: Station not connected to the PGD(2)-U10 ADP</li> </ul>
CME5	Make the PGD(2)-U10 station busy to restrict a calling from the PGD(2)-U10 station.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: Make busy set</li> </ul>
<u>END</u>		

## HARDWARE REQUIRED

To provide Message on Hold by Voice Response System:  
CPU blade (VRS using a built-in Flash ROM)

To provide the External Hold Tone Machine:

- PGD(2)-U10 ADP
- External Hold Tone Machine



# NIGHT SERVICE

## ATTENDANT NIGHT TRANSFER

### PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Attendant Night Transfer.	(1) 018: Attendant Night Transfer (2) 1◀: Available
CM51	Assign the Night Station to each ATT Group.	<ul style="list-style-type: none"> <li>• Y=13</li> </ul> (1) 00-03: ATT Group 0-3 assigned by CM60 Y=00 (2) X-XXXXXXXX: Night Station No.
CM60	When the Master DESKCON is specified by CM60 Y=01, make the NT Switch in effective by the Day/Night Mode change key.	<ul style="list-style-type: none"> <li>• Y=06</li> </ul> (1) 0-7: DESKCON No. (2) 0 : Effective
	<p><b>NOTE:</b> A reset by CM60 Y=90&gt;0: 0 is required after this data setting.</p>	
END		

## CALL REROUTING

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### PROGRAMMING

Refer to the following.

DIRECT INWARD DIALING (DID)	<a href="#">Page 1-295</a>
DIRECT INWARD TERMINATION (DIT)	<a href="#">Page 1-316</a>
TRUNK ANSWER ANY STATION (TAS)	<a href="#">Page 1-680</a>
TIE LINES	<a href="#">Page 1-797</a>

## DAY/NIGHT MODE CHANGE BY STATION DIALING

### PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Day/Night Mode Change by Station Dialing.	<ul style="list-style-type: none"> <li>(1) 244: Change of Terminating System Incoming Trunk</li> <li>(2) 0: Available</li> </ul>
CM30	Assign the data for terminating system in Day Mode/Night Mode/Mode A/Mode B, to each Loop/Ground Start trunk, respectively.	<ul style="list-style-type: none"> <li>(1) 245: Change Trunk Restriction Class</li> <li>(2) 0: Available</li> </ul>
	Assign the station number to be terminated by DIT in Day Mode/Night Mode/Mode A/Mode B, respectively.	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 04: Direct-In Termination</li> </ul>
CM65	When using Mode A or Mode B, assign the Day/Night Mode.	<ul style="list-style-type: none"> <li>• Y=04 Day Mode</li> <li>• Y=05 Night Mode</li> <li>• Y=42 Mode A</li> <li>• Y=43 Mode B</li> <li>(1) 000-511: Trunk No.</li> <li>(2) X-XXXXXXXX: Station No.</li> </ul>
CM12	Assign Service Restriction B to each station.	<ul style="list-style-type: none"> <li>• Y=29</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : Two kinds of mode (Day Mode, Night Mode)</li> <li>1◀: Four kinds of mode (Day Mode, Night Mode, Mode A, Mode B)</li> </ul>
CM15	Allow Day/Night Mode Change by Station Dialing in Service Restriction B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ</li> <li>ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	Allow Day/Night Mode Change by Station Dialing in Service Restriction B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=060</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
A		

A	DESCRIPTION	DATA
CM20	Assign the access code for Day/Night Mode Change by Station Dialing.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A043: Day/Night Mode Change by Station Dialing</li> </ul>
CM90	Assign the Day/Night Mode Change by Tenant key on the Multiline Terminal, if required.  <b>NOTE:</b> <i>Do not use Day/Night Mode change by a Single Line Telephone and by a Multiline Terminal simultaneously.</i>  To the key which is set by CM90 Y=00>F13XX, specify the call indicator lamp control as “not available”.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F1300-F1363: Day/Night Mode Change by Tenant 00-63</li> </ul>
CM97	Assign the Day/Night Mode Change by Tenant key on the DSS Console, if required.	<ul style="list-style-type: none"> <li>Y=03</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) 0: Not available</li> </ul>
END		<ul style="list-style-type: none"> <li>(1) DSS Console No. (00-31) + DSS key No. (00-59)</li> <li>(2) F1300-F1363: Day/Night Mode Change by Tenant 00-63</li> </ul>

**NOTE:** *The following trunk data (CM30) can be changed by this feature (depending upon programming).*

<u>Day (Y)</u>		<u>Night (Y)</u>		<u>Mode A (Y)</u>		<u>Mode B (Y)</u>
02	←→	03		40	←→	41
04	←→	05		42	←→	43
13	←→	14				
15	←→	16				
30	←→	31				

## DAY/NIGHT MODE CHANGE BY SYSTEM CLOCK

### PROGRAMMING

START	DESCRIPTION	DATA
CM02	Assign the system clock data.	(1) 0: Calendar Year (2) 2014-2099  (1) 1: Date (2) MM DD WW MM : 01-12 (Month) DD : 01-31 (Date) WW: 00 (Sun) 01 (Mon) 02 (Tue) 03 (Wed) 04 (Thu) 05 (Fri) 06 (Sat)  (1) 2: Time (2) HH MM SS HH : 00-23 (Hour) MM: 00-59 (Minute) SS : 00-59 (Second)
CM65	Select the two kinds of mode change or the four kinds of mode change per each tenant.   Assign whether to provide the Trunk Restriction Class change according to the schedule of Day/Night Mode Change by System Clock.	<ul style="list-style-type: none"> <li>• Y=29</li> </ul> (1) 00-63: Tenant No. (2) 0 : Two kinds of mode (Day Mode, Night Mode) 1◀: Four kinds of mode (Day Mode, Night Mode, Mode A, Mode B)  <ul style="list-style-type: none"> <li>• Y=36</li> </ul> (1) 00-63: Tenant No. (2) 0 : To provide (Day Mode/Night Mode only) 1◀: Not provided
A	<p><b>NOTE:</b> <i>In four kinds of mode change, the trunk restriction class is changed as follows:</i></p> <ul style="list-style-type: none"> <li>• <i>Day Mode → Day Mode</i></li> <li>• <i>Night Mode/Mode A/Mode B → Night Mode</i></li> </ul>	

A

CM4A

**DESCRIPTION**

**DATA**

Assign the Default Pattern number to each tenant to simplify the schedule assignment, if required.  
 See "Default Pattern of Time Schedule".  
[Page 1-671](#)

OFF LINE

**NOTE 1:** *When CM4A Y=90 is assigned, previously assigned system data is overwritten.*

**NOTE 2:** *The schedule of each Default Pattern can be changed after the Default Pattern has been assigned.*

Assign the calendar number to each tenant number.

Assign the week schedule number to the date to change schedule, in each calendar number assigned by CM4A Y=00.

- Y=90
- (1) 00-63: Tenant No.
- (2) 00: Default Pattern No. 0  
 01: Default Pattern No. 1  
 02: Default Pattern No. 2  
 03: Default Pattern No. 3

- Y=00
- (1) 00-63: Tenant No.
- (2) 00-03: Calendar No. 1-4

- Y=01 Calendar No. 1
- Y=02 Calendar No. 2
- Y=03 Calendar No. 3
- Y=04 Calendar No. 4
- (1) XX ZZ: Date  
 XX: 01-12: Month  
 ZZ : 01-31: Date
- (2) 10 : Week Schedule No. 0  
 11 : Week Schedule No. 1  
 12 : Week Schedule No. 2  
 13 : Week Schedule No. 3  
 NONE◀: Week Schedule No. 0

B

B

CM4A

**DESCRIPTION**

**DATA**

If you want to assign the exceptional schedule for a date, assign the time schedule number to the date, in each calendar number assigned by CM4A Y=00.

**NOTE:** *This command is shared by Automatic RC/DND Mode Select, Do Not Disturb-Group, Room Cutoff-Group, Timed Notification and Ecology Mode.*

Assign the time schedule number to each day in the week schedule assigned by CM4A Y=01-04.

**NOTE:** *This command is shared by Automatic RC/DND Mode Select, Do Not Disturb-Group, Room Cutoff-Group, Timed Notification and Ecology Mode.*

- Y=01 Calendar No. 1
  - Y=02 Calendar No. 2
  - Y=03 Calendar No. 3
  - Y=04 Calendar No. 4
- (1) XX ZZ: Date  
 XX: 01-12: Month  
 ZZ : 01-31: Date
- (2) 20 : Time Schedule No. 0  
 21 : Time Schedule No. 1  
 22 : Time Schedule No. 2  
 23 : Time Schedule No. 3  
 24 : Time Schedule No. 4  
 25 : Time Schedule No. 5  
 26 : Time Schedule No. 6  
 27 : Time Schedule No. 7  
 NONE◀: Week Schedule No. 0

- Y=10 Week Schedule No. 0
  - Y=11 Week Schedule No. 1
  - Y=12 Week Schedule No. 2
  - Y=13 Week Schedule No. 3
- (1) 0: Sunday  
 1: Monday  
 2: Tuesday  
 3: Wednesday  
 4: Thursday  
 5: Friday  
 6: Saturday
- (2) 20 : Time Schedule No. 0  
 21 : Time Schedule No. 1  
 22 : Time Schedule No. 2  
 23 : Time Schedule No. 3  
 24 : Time Schedule No. 4  
 25 : Time Schedule No. 5  
 26 : Time Schedule No. 6  
 27 : Time Schedule No. 7  
 NONE◀: Time Schedule No. 0

C

C

CM4A

END

**DESCRIPTION**

Assign the time and its mode for the time schedule assigned by CM4A Y=10-13 or Y=01-04.

**NOTE 1:** *The time of time schedule is specified in units of 5 minutes. Set the last one digit of the "Minute" of the first data in units of 0 or 5 (truncation).*

**NOTE 2:** *Actually, the mode is changed after 4-8 seconds of the assigned time.*

**NOTE 3:** *This command is shared by Automatic RC/DND Mode Select, Do Not Disturb-Group, Room Cutoff-Group and Ecology Mode.*

**DATA**

- Y=20 (Time Schedule No. 0)
- Y=21 (Time Schedule No. 1)
- Y=22 (Time Schedule No. 2)
- Y=23 (Time Schedule No. 3)
- Y=24 (Time Schedule No. 4)
- Y=25 (Time Schedule No. 5)
- Y=26 (Time Schedule No. 6)
- Y=27 (Time Schedule No. 7)

- (1) XX ZZ: Time  
XX: 00-23: Hour  
ZZ : 00-55: Minute **NOTE 1, NOTE 2**
- (2) 00 : Day Mode  
01 : Night Mode  
02 : Mode A  
03 : Mode B  
NONE◀: Day Mode



To provide an external Key (To use the PGD(2)-U10 ADP):

START	DESCRIPTION	DATA
CM05	<p>Assign a Unit and Slot number to the DLC blade.</p> <p style="text-align: center;"><b>BLADE RESET</b></p> <p><b>NOTE:</b> <i>When the PGD(2)-U10 ADP is accommodated to the Remote Unit, execute the system data copy by CMEC Y=8 before executing the blade reset.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
CM10	<p>Assign the station number connected to PGD(2)-U10 ADP to its associated Physical Port number.</p> <p style="text-align: center;"><b>BLADE RESET</b></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
CM12	<p>Assign the Kind of PGD(2)-U10 station for external relay/external key.</p> <p><b>NOTE:</b> <i>After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</i></p> <p>Specify the External Key group number.</p>	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 3: External relay/external key only</li> </ul> <ul style="list-style-type: none"> <li>• Y=66</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 00-63◀: External Key Group No.</li> </ul>
CM13	<p>For the station connected to PGD (2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.</p> <p>For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when answering a station call.</p>	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1:Not provided</li> </ul> <ul style="list-style-type: none"> <li>• Y=41</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1:Not stored</li> </ul>
A		

A

CM13

**DESCRIPTION**

**DATA**

For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.

- Y=49
- (1) X-XXXXXXXX: Station No.
- (2) 1: Not stored

For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when answering a trunk call.

- Y=60
- (1) X-XXXXXXXX: Station No.
- (2) 1: Not stored

For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.

- Y=61
- (1) X-XXXXXXXX: Station No.
- (2) 1: Not stored

Allow the accommodation of PGD(2)-U10 ADP.

- Y=63
- (1) X-XXXXXXXX: Station No.
- (2) 0: To accommodate

BLADE RESET

**NOTE 1:** Set this data only for a Base Port No. (Circuit No. 01) of DLC blade.

**NOTE 2:** Whether the following equipment can be accommodated to the same DLC blade or not depends on this data.

- When the second data is set to "0"

Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/PGD(2)-U10 ADP

Unaccommodatable: DESKCON

- When the second data is set to "1"

Accommodatable : DT300/DT400/D<sup>term</sup>85/DESKCON

Unaccommodatable: PGD(2)-U10 ADP

**NOTE 3:** When the second data is set to 0, and accommodating DT300/DT400 series DESI-less to the same DLC blade to which PGD(2)-U10 ADP is accommodated, the Line Key of the DT300/DT400 series DESI-less does not light up (however, Character Display or Icon Display on the DESI-less screen is provided).

CM61

To cancel the Day/Night Mode Change by System Clock temporarily, assign the external key as the cancel key.

- Y=30
- (1) XX Z
- XX: 00-63: External key Group No.  
assigned by CM12 Y=66
- Z : 0/1: Circuit No.
- (2) 01: Day/Night Mode Change by System Clock Cancel Key

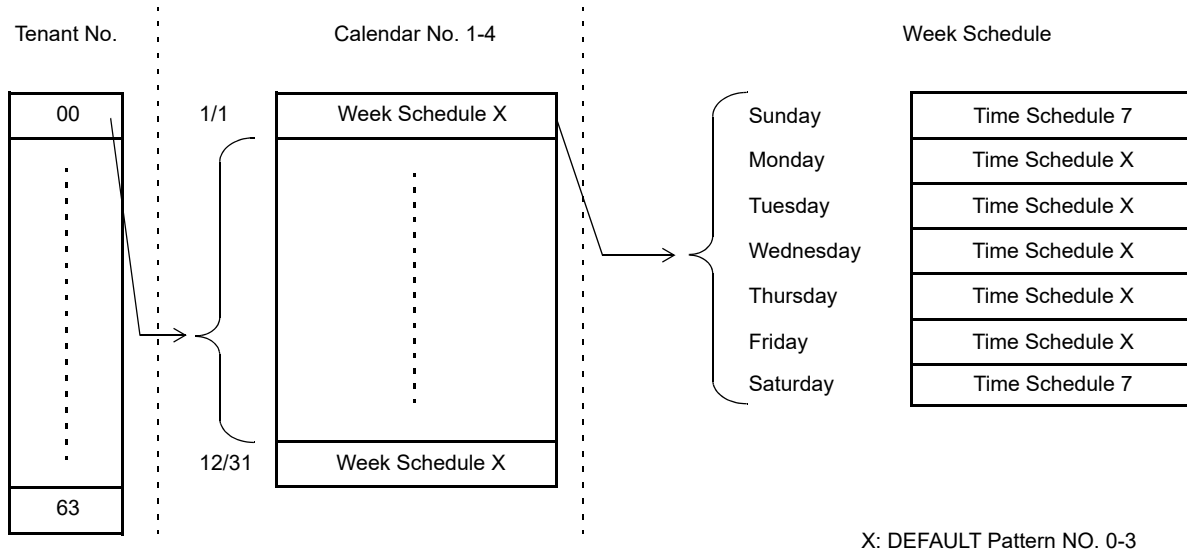
END

■ **Default Pattern of Time Schedule**

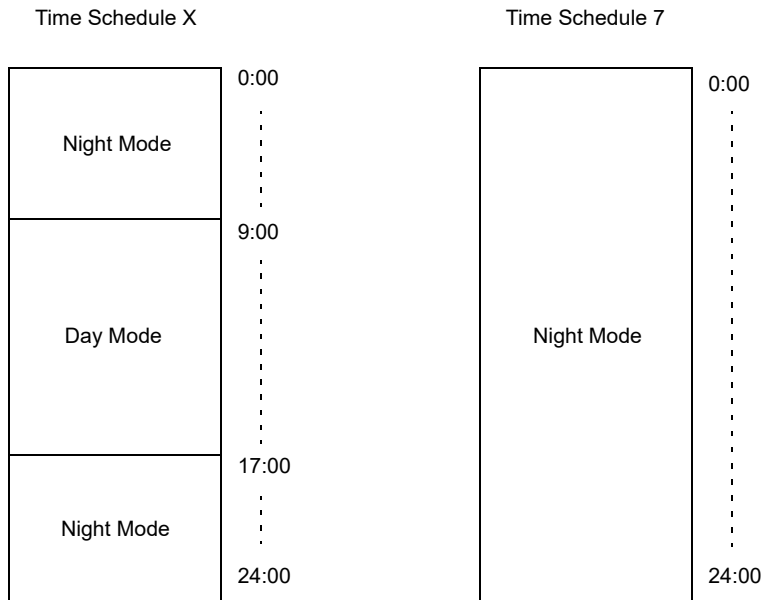
By assigning CM4A Y=90; Default Pattern No. 0-3, you can simplify the schedule assignment for each tenant. The schedule of each Default Pattern can be changed after the Default Pattern has been assigned.

The following shows the summary of the Default Pattern and the schedule set by each Default Pattern.

**Summary of Default Pattern**



X: DEFAULT Pattern NO. 0-3



Continued on next page

### Default Pattern of Time Schedule (CM4A Y=90)

- Default Pattern No. 0 (CM4A Y=90 2nd data: 00)

CM4A Y No.	1ST	2ND	MEANING OF SETTING
00	00-63	00	Calendar No. 1 is used for the tenant
01	0101-1231	10	Week schedule No. 0 is used for all date
10	1-5	20	Time schedule No. 0 is used for Monday through Friday
10	0, 6	27	Time schedule No. 7 is used for Saturday and Sunday
20	0000-0855	01	0:00-9:00 is Night Mode for time schedule No. 0
20	0900-1655	00	9:00-17:00 is Day Mode for time schedule No. 0
20	1700-2355	01	17:00-24:00 is Night Mode for time schedule No. 0
27	0000-2355	01	0:00-24:00 is Night Mode for time schedule No. 7

- Default Pattern No. 1 (CM4A Y=90 2nd data: 01)

CM4A Y No.	1ST	2ND	MEANING OF SETTING
00	00-63	01	Calendar No. 2 is used for the tenant
02	0101-1231	11	Week schedule No. 1 is used for all date
11	1-5	21	Time schedule No. 1 is used for Monday through Friday
11	0, 6	27	Time schedule No. 7 is used for Saturday and Sunday
21	0000-0855	01	0:00-9:00 is Night Mode for time schedule No. 1
21	0900-1655	00	9:00-17:00 is Day Mode for time schedule No. 1
21	1700-2355	01	17:00-24:00 is Night Mode for time schedule No. 1
27	0000-2355	01	0:00-24:00 is Night Mode for time schedule No. 7

### Default Pattern of Time Schedule (CM4A Y=90)

- Default Pattern No. 2 (CM4A Y=90 2nd data: 02)

CM4A Y No.	1ST	2ND	MEANING OF SETTING
00	00-63	02	Calendar No. 3 is used for the tenant
03	0101-1231	12	Week schedule No. 2 is used for all date
12	1-5	22	Time schedule No. 2 is used for Monday through Friday
12	0, 6	27	Time schedule No. 7 is used for Saturday and Sunday
22	0000-0855	01	0:00-9:00 is Night Mode for time schedule No. 2
22	0900-1655	00	9:00-17:00 is Day Mode for time schedule No. 2
22	1700-2355	01	17:00-24:00 is Night Mode for time schedule No. 2
27	0000-2355	01	0:00-24:00 is Night Mode for time schedule No. 7

- Default Pattern No. 3 (CM4A Y=90 2nd data: 03)

CM4A Y No.	1ST	2ND	MEANING OF SETTING
00	00-63	03	Calendar No. 4 is used for the tenant
04	0101-1231	13	Week schedule No. 3 is used for all date
13	1-5	23	Time schedule No. 3 is used for Monday through Friday
13	0, 6	27	Time schedule No. 7 is used for Saturday and Sunday
23	0000-0855	01	0:00-9:00 is Night Mode for time schedule No. 3
23	0900-1655	00	9:00-17:00 is Day Mode for time schedule No. 3
23	1700-2355	01	17:00-24:00 is Night Mode for time schedule No. 3
27	0000-2355	01	0:00-24:00 is Night Mode for time schedule No. 7

## NIGHT CONNECTION-FIXED/NIGHT CONNECTION-FLEXIBLE

### PROGRAMMING

To Provide Night Connection Stations:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM30</div>	Assign a Night Connection Station to each incoming trunk.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 04: Direct-In Termination</li> </ul>
	Assign the destination to which a call is forwarded when the Night Connection Station is busy/no answer.	<ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) 000-511: Trunk No.</li> <li>(2) X-XXXXXXXX: Night Connection Station No.</li>   <li>• Y=14 When Night Connection Station is busy</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 01 : To TAS</li> <li>04 : To Attendant Console</li> <li>06 : Automatic Camp-On</li> <li>15◀: Keep the call ringing until the station becomes idle</li> </ul>
	Specify the timing for a call forwarding when the Connection Station is no answer.	<ul style="list-style-type: none"> <li>• Y=16 When Night Connection Station is no answer</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 01 : To Attendant Console</li> <li>03 : To TAS</li> <li>15◀: Keep the call ringing until the station answers</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM41</div>	<p><b>NOTE:</b> <i>This timing is also applied to Call Forwarding-No Answer, Attendant Overflow, and Group Diversion.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 01</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 32-36 seconds.
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

To provide Night Connection from the Master DESKCON:

(1) To provide Night Connection with the access code

START	DESCRIPTION	DATA
CM60	Provide the Day/Night Mode change from the Master DESKCON.  <b>NOTE:</b> <i>A reset by CM60 Y=90&gt;0: 0 is required after this data setting.</i>	<ul style="list-style-type: none"> <li>• Y=06</li> <li>(1) 0-7: DESKCON No.</li> <li>(2) 0: Effective</li> </ul>
CM20	Assign the access code for Day/Night Mode Change from DESKCON.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A043: Day/Night Mode Change by Station Dialing</li> </ul>
<u>END</u>		

(2) To provide Night Connection with the DESKCON key

START	DESCRIPTION	DATA
CM60	Provide the Day/Night Mode change from the Master DESKCON.  <b>NOTE:</b> <i>A reset by CM60 Y=90&gt;0: 0 is required after this data setting.</i>	<ul style="list-style-type: none"> <li>• Y=06</li> <li>(1) 0-7: DESKCON No.</li> <li>(2) 0: Effective</li> </ul>
CM90	Assign the Day/Night Mode change key on the DESKCON.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) DESKCON No. + <input type="text"/> + Key No.</li> <li>(2) F6110: Mode</li> </ul>
<u>END</u>		

To provide Night Connection from a station:

Refer to DAY/NIGHT MODE CHANGE BY STATION DIALING. [☞ Page 1-663](#)

To provide Night Connection by system clock:

Refer to DAY/NIGHT MODE CHANGE BY SYSTEM CLOCK. [☞ Page 1-665](#)

## OVERFLOW FOR TAS QUEUE

### PROGRAMMING

In addition to the TAS programming ([Page 1-680](#)), do the following programming.

START	DESCRIPTION	DATA
CM51	Assign the destination of Call Forwarding by Overflow for TAS Queue.	<ul style="list-style-type: none"> <li>• Y=26 Day Mode</li> <li>• Y=27 Night Mode</li> <li>• Y=28 Mode A</li> <li>• Y=29 Mode B</li> </ul> (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No. E000 : Attendant Console EB000-EB015: Voice Response System No.
CM41	Specify the timing of Call Forwarding by Overflow for TAS Queue.	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> (1) 42 (2) 01-98: 4-392 seconds (4 second increments) If no data is set, the default setting is 28-32 seconds.
CM51	When a call is forwarded to the VMS/station/Attendant Console by Overflow for TAS Queue, assign the Call Forwarding setting station number, which is sent to the destination.	<ul style="list-style-type: none"> <li>• Y=30</li> </ul> (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No.
CM49	When a Voice Response System is set as the destination of Call Forwarding, set the function of the Voice Response System as announcement service for Overflow for TAS Queue.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) 000-015: VRS No. (2) 1800: Announcement Service for Overflow for TAS Queue
END		

### HARDWARE REQUIRED

When a VRS is used as the destination of Call Forwarding:  
CPU blade (VRS using a built-in Flash ROM)



## QUEUE LIMIT FOR TAS

### PROGRAMMING

In addition to the TAS programming ([Page 1-680](#)), do the following programming.

START	DESCRIPTION	DATA
CM64	Assign the number of Queue Limit for TAS to each mode and tenant.	<ul style="list-style-type: none"> <li>• Y=3 Day Mode</li> <li>• Y=4 Night Mode</li> <li>• Y=5 Mode A</li> <li>• Y=6 Mode B</li> </ul> (1) 00-63: Tenant No. (2) 01-99 : 1-99 lines NONE◀: No limit
CM76	Specify the terminating system as TAS.	<ul style="list-style-type: none"> <li>• Y=01 Day Mode</li> <li>• Y=02 Night Mode</li> <li>• Y=03 Mode A</li> <li>• Y=04 Mode B</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) D13: TAS
	Specify whether the incoming call of each DID number is restricted by Queue Limit for TAS.	<ul style="list-style-type: none"> <li>• Y=16</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0 : Restricted 2 : Not restricted (countable for Queue Limit) 3◀: Not restricted (uncountable for Queue Limit)
	<p><b>NOTE:</b> <i>When there are two or more DID numbers for one tenant, and if you want to set the Queue Limit only for one DID number, set “0” to the DID number, and set “3” for the other DID numbers.</i></p> <p><i>If you want to set the Queue Limit for one DID number and the other DID numbers concurrently, set “0” to the DID number, and set “2” to the other DID numbers.</i></p>	
A		

A	DESCRIPTION	DATA
CM51	Assign the destination of Call Forwarding by Queue Limit for TAS.	<ul style="list-style-type: none"> <li>• Y=26 Day Mode</li> <li>• Y=27 Night Mode</li> <li>• Y=28 Mode A</li> <li>• Y=29 Mode B</li> </ul> (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No. E000 : Attendant Console EB000-EB015: Voice Response System No.
	When a call is forwarded to the VMS/station/VRS/Attendant Console by Queue Limit for TAS, assign the Call Forwarding setting station number, which is sent to the destination.	<ul style="list-style-type: none"> <li>• Y=30</li> </ul> (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No.
CM49	When a Voice Response System is set as the destination of Call Forwarding, set the function of the Voice Response System as announcement service for Queue Limit for TAS.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) 000-015: VRS No. (2) 1800: Announcement Service for Queue Limit for TAS
CM08	Provide the system with reset of the Queue Limit counter for TAS per tenant.	(1) 602 (2) 1◀: To provide
	<p><b>NOTE:</b> <i>The system will reset the counter when the following operation has not occurred for about one hour.</i></p> <ul style="list-style-type: none"> <li>• Increase/decrease of counter</li> <li>• Incoming calls restricted by Queue Limit</li> <li>• Call Forwarding to a station/Attendant/VRS by Queue Limit</li> </ul>	
CM41	Specify the timing of Call Forwarding by Queue Limit for TAS.	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> (1) 42 (2) 01-98: 4-392 seconds (4 second increments) If no data is set, the default setting is 28-32 seconds.
<u>END</u>		

## **HARDWARE REQUIRED**

When a VRS is used as the destination of Call Forwarding:  
CPU blade (VRS using a built-in Flash ROM)

## TRUNK ANSWER ANY STATION (TAS)

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign a Trunk Restriction Class to each station.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X Z</li> <li>Z: 1◀-8: Night Trunk Restriction Class</li> <li>1: Unrestricted (RCA)</li> <li>2: Non-Restricted 1 (RCB)</li> <li>3: Non-Restricted 2 (RCC)</li> <li>4: Semi-Restricted 1 (RCD)</li> <li>5: Semi-Restricted 2 (RCE)</li> <li>6: Restricted 1 (RCF)</li> <li>7: Restricted 2 (RCG)</li> <li>8: Fully Restricted (RCH)</li> </ul>
	Assign Service Restriction Class B for the TAS to required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ</li> <li>ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	Allow TAS service in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=053</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM30	Assign the TAS to the terminating system in Day/Night Mode/Mode A/Mode B to the required trunks.	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 03: Trunk-Direct Appearances + TAS</li> <li>08: Dial-in</li> <li>13: TAS</li> <li>18: ISDN Indial</li> </ul>
A		

A	DESCRIPTION	DATA
CM30	Assign the TAS group number to the trunks assigned by CM30 Y=02/03/40/41.	<ul style="list-style-type: none"> <li>• Y=17</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00-63: TAS group No.</li> </ul>
CM76	Assign the data for interpreting the digits received.	<ul style="list-style-type: none"> <li>• Y=01 Day Mode</li> <li>• Y=02 Night Mode</li> <li>• Y=03 Mode A</li> <li>• Y=04 Mode B</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) X-XXXXXXXXX: Station No. to be terminated</li> </ul> <p>DXX: Change Terminating System to: D03: Trunk-Direct Appearances + TAS D13: TAS</p>
CM90	Assign the TAS Answer Keys to each Multi-line Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F4000-F4063: TAS Answer Key 00-63</li> </ul>
CM08	Specify whether the Answer Key rings on TAS and Pooled Line or not.	<ul style="list-style-type: none"> <li>(1) 116</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul>
B		

B

**DESCRIPTION**

**DATA**

CM53

Specify the function of each type of TAS within a system.

Y		(1)					
		0	1	3	4	7	
0	TAS Answer A	0/1◀	0/1◀	0/1◀	0/1◀	0/1◀	
1	TAS Answer B	0/1◀	0/1◀	0/1◀	0/1◀	0/1◀	
2	TAS Answer C	0/1◀	0/1◀	0/1◀	0/1◀	0/1◀	
3	TAS Answer D	0/1◀	0/1◀	0/1◀	0/1◀	0/1◀	
4	TAS Answer E	0/1◀	0/1◀	0/1◀	0/1◀	0/1◀	

- Y=0-4 TAS Answer A-E
- (1) Type of Call
  - 0: C.O. Incoming Call
  - 1: Tie Line/DID
  - 3: C.O. Incoming Call in Night Mode
  - 4: Overflowed DIT Call
- (2) 0 : Cannot be answered  
1◀: Can be answered
- (1) 7: A call terminated to different tenant
- (2) 0 : Can be answered  
1◀: Cannot be answered

CM20

Assign the access code for each type of TAS (TAS Answer A-E) assigned by CM53.

- Y=0-3 Numbering Plan Group 0-3
- (1) X-XXXX: Access Code
- (2) A047: TAS Answer A  
A048: TAS Answer B  
A049: TAS Answer C  
A050: TAS Answer D  
A051: TAS Answer E

CM63

Allow TAS Answer from another tenant.

- Y=0
- (1) XX ZZ
  - XX: 00-63: Tenant No. of TAS Answer station
  - ZZ : 00-63: Tenant No. of Trunk
- (2) 0: Allow

END

To provide the External TAS Indicator (To use the External Relay Interface on CPU):

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">CM30</div>	Assign the TAS BUZZER to the required trunks.	<ul style="list-style-type: none"> <li>• Y=13 Day Mode/14 Night Mode</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 01: TAS BUZZER</li> </ul>
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">CM44</div>	Assign the TAS Group number assigned by CM30 Y=17 to circuit number of the External Relay Interface on CPU.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 312, 313: External Relay Interface on CPU.</li> <li>(2) 13XX XX: 00-63: TAS Group No. 00-63 assigned by CM30 Y=17</li> </ul>
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">CM59</div>	Specify the indication pattern on External TAS Indicator.	<ul style="list-style-type: none"> <li>(1) 00</li> <li>(2) 01 : 30 IPM (1 second ON/OFF)</li> <li style="padding-left: 20px;">02 : 60 IPM (0.5 seconds ON/OFF)</li> <li style="padding-left: 20px;">03 : 120 IPM (0.25 seconds ON/OFF)</li> <li style="padding-left: 20px;">07 : Steady on</li> <li style="padding-left: 20px;">NONE◀: 120 IPM (0.25 seconds ON/OFF)</li> </ul>
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">END</div>		

To provide the External TAS Indicator (To use the PGD(2)-U10 ADP):

START	DESCRIPTION	DATA
CM30	Assign the TAS BUZZER to the required trunks.	<ul style="list-style-type: none"> <li>Y=13 Day Mode/14 Night Mode</li> </ul> (1) 000-511: Trunk No. (2) 01: TAS BUZZER
CM05	Assign a Unit and Slot number to the DLC blade.	<ul style="list-style-type: none"> <li>Y=0</li> </ul> (1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No. (2) 10: DLC blade
	<b>BLADE RESET</b>	
	<p><b>NOTE:</b> <i>When the PGD(2)-U10 ADP is accommodated to the Remote Unit, execute the system data copy by CMEC Y=8 before executing the blade reset.</i></p>	
CM10	Assign the station number connected to PGD(2)-U10 ADP to its associated Physical Port number.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No. (2) FX-FXXXXXXXXX: Station No.
CM12	Assign the Kind of PGD(2)- U10 station for external relay/external key.	<ul style="list-style-type: none"> <li>Y=65</li> </ul> (1) X-XXXXXXXXXX: Station No. (2) 3: External relay/external key only
	<p><b>NOTE:</b> <i>After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</i></p>	
CM13	For the station connected to PGD (2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.	<ul style="list-style-type: none"> <li>Y=03</li> </ul> (1) X-XXXXXXXXXX: Station No. (2) 1: Not provided
	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when answering a station call.	<ul style="list-style-type: none"> <li>Y=41</li> </ul> (1) X-XXXXXXXXXX: Station No. (2) 1: Not stored
	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.	<ul style="list-style-type: none"> <li>Y=49</li> </ul> (1) X-XXXXXXXXXX: Station No. (2) 1: Not stored
A		



A	DESCRIPTION	DATA
CM13	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when answering a trunk call.	<ul style="list-style-type: none"> <li>• Y=60</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.	<ul style="list-style-type: none"> <li>• Y=61</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
	Allow the accommodation of PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=63</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To accommodate</li> </ul>
	<b>BLADE RESET</b>	
	<b>NOTE 1:</b> Set this data only for a Base Port No. (Circuit No. 01) of DLC blade.	
	<b>NOTE 2:</b> Whether the following equipment can be accommodated to the same DLC blade or not depends on this data.	
	<ul style="list-style-type: none"> <li>- When the second data is set to "0"</li> <li style="padding-left: 20px;">Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/PGD(2)-U10 ADP</li> <li style="padding-left: 20px;">Unaccommodatable: DESKCON</li> </ul>	
	<ul style="list-style-type: none"> <li>- When the second data is set to "1"</li> <li style="padding-left: 20px;">Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/DESKCON</li> <li style="padding-left: 20px;">Unaccommodatable: PGD(2)-U10 ADP</li> </ul>	
	<b>NOTE 3:</b> When the second data is set to 0, and accommodating DT300/DT400 series DESI-less to the same DLC blade to which PGD(2)-U10 ADP is accommodated, the Line Key of the DT300/DT400 series DESI-less does not light up (however, Character Display or Icon Display on the DESI-less screen is provided).	
CM44	Assign the TAS Group number assigned by CM30 Y=17 to circuit number of PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX Y</li> <li style="padding-left: 20px;">XX: 00-31: Relay Group No.</li> <li style="padding-left: 20px;">Y : 0-3: Circuit No.</li> <li>(2) 13XX</li> <li style="padding-left: 20px;">XX: 00-63: TAS Group No. 00-63 assigned by CM30 Y=17</li> </ul>
	Associate the PGD(2)-U10 station number with the Relay Group number.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 00-31: Relay Group No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No.</li> <li style="padding-left: 20px;">NONE◀: No data</li> </ul>
B		

B	DESCRIPTION	DATA
CM59	Specify the indication pattern on External TAS Indicator.	(1) 00 (2) 01 : 30 IPM (1 second ON/OFF) 02 : 60 IPM (0.5 seconds ON/OFF) 03 : 120 IPM (0.25 seconds ON/OFF) 07 : Steady on NONE ◀ : 120 IPM (0.25 seconds ON/OFF)
END		

### HARDWARE REQUIRED

To provide the External TAS Indicator:

- PGD(2)-U10 ADP/External Relay Interface on CPU
- Indicator

Requirement for External Indicator

Control Method: Ground/Battery (-24 V) (Maximum 125 mA)

Type : Visual and/or Audible type with volume control

To provide the telephone set for TAS Indication:

- LC blade
- Conventional telephone sets

# OFF-HOOK ALARM

## PROGRAMMING

START	DESCRIPTION	DATA
CM13	Provide Off-Hook Alarm for the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To provide</li> </ul>
CM51	Assign the destination for Off-Hook Alarm to a station or Attendant Console.  <b>NOTE:</b> <i>The Off-Hook Alarm is transferred to an ATT Group (assigned by CM60 Y=00/CM62) which is handling the station tenant.</i>	<ul style="list-style-type: none"> <li>Y=12</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXXXX: Station No. E000 : Attendant Console</li> </ul>
CM90	If the Attendant Console is designated as the destination of Off-Hook Alarm by CM51 Y=12, assign Off-Hook Alarm to the ICI key.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) DESKCON No. (E000-E007) + <input type="checkbox"/> + Key No.</li> <li>(2) F6066: Off-Hook Alarm</li> </ul>
CM41	Specify the timing for Off-Hook Alarm.	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) 22</li> <li>(2) 01-08: 4-32 seconds (4 second increments)</li> </ul> <p>If no data is set, default setting is 28-32 seconds.</p>
CM12	Specify Service Restriction Class C for Off-Hook Alarm to busy destination.	<ul style="list-style-type: none"> <li>Y=07</li> <li>(1) X-XXXXXXXX: Station No. of destination</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
A		

A

CM15

**DESCRIPTION**

Allow the Off-Hook Alarm call in Service Restriction Class C assigned by CM12 Y=07.

**DATA**

- Y=097, 098
- (1) 00-15: Service Restriction Class C assigned by CM12 Y=07
- (2) See the left table.

◀: Default

Y		MEANING OF DATA
097	098	
0	0	UCD Call Waiting (CM08>212: 0) Call Waiting is automatically selected, if UCD is not provided in the system.
0	1	UCD (CM08>212: 1)
1	0	Call Waiting
1	1	Hunting ▶

END

# OFF-PREMISES EXTENSIONS

## PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">CM05</div>	Assign a Unit and Slot number to the LLC blade. <div style="border: 1px solid black; border-radius: 15px; padding: 2px; display: inline-block; margin-left: 100px;">BLADE RESET</div>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ                XX: 01-50: Unit No.                ZZ : 01-18: Slot No.</li> <li>(2) 21: LLC blade</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">CM10</div>	Assign the station number of Long Line Circuit (LLC blade) to required Physical Port number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No.                XX: 01-50: Unit No.                YY: 01-18: Slot No.                ZZ: 01-32: Circuit No.</li> <li>(2) X-XXXXXXXX: Station No.</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">CM08</div>	Specify the interval of Single Line Telephone ringing tones for station-to-station calls	<ul style="list-style-type: none"> <li>(1) 138</li> <li>(2) 0 : As per CM04 Y=00&gt;06                1◀: As per CM04 Y=00&gt;05</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">A</div>		

A	DESCRIPTION	DATA
CM04	Specify the Single Line Telephone ringing signal for station-to-station connection.	<ul style="list-style-type: none"><li>• Y=00</li><li>(1) 05</li><li>(2) 01 : ON</li><li>02 : 2 seconds ON-4 seconds OFF</li><li>03 : 1 second ON-2 seconds OFF</li><li>04 : 0.5 seconds ON-0.5 seconds OFF</li><li>05 : 0.25 seconds ON-0.25 seconds OFF</li><li>06 : 0.5 seconds ON-0.5 seconds OFF -0.5 seconds ON-1.5 seconds OFF</li><li>07 : 0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-5.25 seconds OFF</li><li>08 : 0.375 seconds ON-0.25 seconds OFF-0.375 seconds ON-2 seconds OFF</li><li>09 : 0.25 seconds ON-0.125 seconds OFF-0.25 seconds ON-0.125 seconds OFF-0.25 seconds ON -2 seconds OFF</li><li>10 : 1 second ON-4 seconds OFF</li><li>11 : 0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-4.25 seconds OFF</li><li>12 : 1 second ON-3 seconds OFF</li><li>13 : 0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-2.25 seconds OFF</li><li>31◀: 1 second ON-2 seconds OFF</li></ul>
B		

B	DESCRIPTION	DATA
CM04	Specify the Single Line Telephone ringing signal from a trunk.	<ul style="list-style-type: none"><li>• Y=00</li><li>(1) 06</li><li>(2) 01 : ON</li><li>02 : 2 seconds ON-4 seconds OFF</li><li>03 : 1 second ON-2 seconds OFF</li><li>04 : 0.5 seconds ON-0.5 seconds OFF</li><li>05 : 0.25 seconds ON-0.25 seconds OFF</li><li>06 : 0.5 seconds ON-0.5 seconds OFF -0.5 seconds ON-1.5 seconds OFF</li><li>07 : 0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-5.25 seconds OFF</li><li>08 : 0.375 seconds ON-0.25 seconds OFF-0.375 seconds ON-2 seconds OFF</li><li>09 : 0.25 seconds ON-0.125 seconds OFF-0.25 seconds ON-0.125 seconds OFF-0.25 seconds ON -2 seconds OFF</li><li>10 : 1 second ON-4 seconds OFF</li><li>11 : 0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-4.25 seconds OFF</li><li>12 : 1 second ON-3 seconds OFF</li><li>13 : 0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-2.25 seconds OFF</li><li>31◀: 2 seconds ON-4 seconds OFF</li></ul>
C		





# ONE-TOUCH GROUP MESSAGING

[9300V5 software required]

## PROGRAMMING

- (1) Data Assignment for Broadcasting Message  
 (a) When Using a Group Message Key

START	DESCRIPTION	DATA
CM90	Assign the One-Touch Group Messaging key to the Multiline Terminal.  Assign a message number to the One-Touch Group Messaging key.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F5100-F5163: Message No. for One-Touch Group Messaging</li> </ul> <ul style="list-style-type: none"> <li>• Y=14</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) 00-63 : Message No. for One-Touch Group Messaging</li> <li>NONE◀: No data</li> </ul>
CM57	Assign a Serial number within the Group Serial number.	<ul style="list-style-type: none"> <li>• Y=37</li> <li>(1) XXYY                      XX: Group No. 00-63                      YY: Serial No. 00-07 within the group</li> <li>(2) X-XXXXXXXX: Station No.</li> <li>NONE◀: No data</li> </ul>
CM77	Assign characters for One-Touch Group Messaging.	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) 00-63: Message No. for One-Touch Group Messaging</li> <li>(2) XX...XX: Characters for One-Touch Group Messages                      (Maximum 16 characters)</li> <li>NONE◀: No data</li> </ul>
CM08	Specify whether to send the One-Touch Group Messaging Tone when pressing the One-Touch Group Messaging key.	<ul style="list-style-type: none"> <li>(1) 1057</li> <li>(2) 0 : Not sent</li> <li>1◀: To send</li> </ul>
END		

(b) When Dialing an Access Code for Group Messaging **[9300V8 software required]**

START	DESCRIPTION	DATA
CM13	Provide Group Messaging by Access Code Dialing for the required stations.	<ul style="list-style-type: none"> <li>• Y=101</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Available 1◀: Not Available</li> </ul>
CM20	Assign an access code for Group Messaging by Access Code Dialing.	<ul style="list-style-type: none"> <li>• Y=0-3 Number Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A400-A649:Group Messaging by Access Code Dialing Pattern 000-249</li> </ul>
CM57	Assign Group Messaging Pattern by Access Code Dialing.	<ul style="list-style-type: none"> <li>• Y=38</li> <li>(1) 000-249 (Group Messaging by Access Code Dialing Pattern No. that is specified by CM20 Y=0-3)</li> <li>(2) XX YY: XX: Group No. 00-63 YY: Message No. 00-63 NONE◀: No data</li> </ul>
	Assign a Serial number within the Group Serial number.	<ul style="list-style-type: none"> <li>• Y=37</li> <li>(1) XXYY XX: Group No. 00-63 YY: Serial No. 00-07 within the group</li> <li>(2) X-XXXXXXXX: Station No. NONE◀: No data</li> </ul>
CM77	Assign characters for One-Touch Group Messaging.	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) 00-63: Message No. for One-Touch Group Messaging</li> <li>(2) XX...XX: Characters for One-Touch Group Messages (Maximum 16 characters) NONE◀: No data</li> </ul>
<u>END</u>		

(2) Data Assignment for Receiving Message

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	<p>Specify whether to provide Call Forwarding-All Calls in case of One-Touch Group Messaging.</p> <p><b>NOTE:</b> <i>This feature is valid only when the forwarding destination is a station.</i></p>	<p>(1) 1058                      (2) 0 : Available                      1◀: Not available</p>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	<p>Assign Service Restriction Class A for this feature to the required stations.</p>	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class A</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM15</div>	<p>Allow Calling Name Display-Standard SIP station in Service Restriction Class A assigned by CM12 Y=02.</p>	<ul style="list-style-type: none"> <li>• Y=123</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM13</div>	<p>Specify whether to store the call record when answering a station call.</p> <p><b>NOTE:</b> <i>To store the call record when receiving messages by One-Touch Group Messaging, set the second data to "0".</i></p> <p>Specify whether to store the call record when handling of unanswered call.</p> <p><b>NOTE:</b> <i>To store the call record of unanswered call when receiving messages by One-Touch Group Messaging, set the second data to "0".</i></p>	<ul style="list-style-type: none"> <li>• Y=41</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To store 1◀: Not stored</li> </ul> <ul style="list-style-type: none"> <li>• Y=49</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To store 1◀: Not stored</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

(3) Reading the Number of One-Touch Group Messaging

(a) To read the Number of One-Touch Group Messaging Succeeded or Failed:

START	DESCRIPTION	DATA
CMB5	Read the number of One-Touch Group Messaging succeeded by each system.	<ul style="list-style-type: none"> <li>• Y=000 Counter of Each System</li> <li>(1) 3024: Number of One-Touch Group Messaging succeeded</li> <li>(2) 0◀-9999999: Counter data (only display)</li> </ul>
	<p><b>NOTE 1:</b> <i>If the counter data exceeds 9999999, the count continues. The indication in this case, “*” is added to the start of lower 7 digits of counter data.</i></p> <p><b>NOTE 2:</b> <i>When a message broadcast with a One-Touch Group Messaging key is correctly delivered to at least one recipient station, the broadcast is counted as a success. Consider these points:</i></p> <ul style="list-style-type: none"> <li>• <i>Each message broadcast is counted as 1, regardless of the number of recipients to which the message is correctly delivered.</i></li> <li>• <i>A One-Touch Group Message is determined to be “correctly” delivered to a recipient when the recipient is a smart phone that is out of cell (zone) or powered off.</i></li> </ul>	
	Read the number of One-Touch Group Messaging failed by each system.	<ul style="list-style-type: none"> <li>• Y=000 Counter of Each System</li> <li>(1) 3025: Number of One-Touch Group Messaging failed</li> <li>(2) 0◀-9999999: Counter data (only display)</li> </ul>
	<p><b>NOTE 1:</b> <i>If the counter data exceeds 9999999, the count continues. The indication in this case, “*” is added to the start of lower 7 digits of counter data.</i></p> <p><b>NOTE 2:</b> <i>When a message broadcast with a One-Touch Group Messaging key is correctly delivered to none of the recipient stations, the broadcast is counted as a failure. Consider these points:</i></p> <ul style="list-style-type: none"> <li>• <i>Message broadcasts blocked as restricted key usage by option field check are not counted.</i></li> <li>• <i>A One-Touch Group Message is determined to be incorrectly (or incompletely) delivered to a recipient when the recipient is an IP station that is logged out.</i></li> </ul>	
END		

(b) To clear all data of the number of One-Touch Group Messaging succeeded and failed:

START	DESCRIPTION	DATA
CMB5	Clear all data of the number of One-Touch Group Messaging succeeded and failed.	<ul style="list-style-type: none"> <li>• Y=999 Clear All PEG Data</li> <li>(1) 9999: Clear All PEG Data</li> <li>(2) CCC: Clear</li> </ul>
END		

# OPERATOR MONITORING

[Australia Only]

## PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM08</div>	Provide the system with Operator Monitoring feature.	(1) 011 (2) 1◀: Available
<u>END</u>		

# PAD LOCK

## PROGRAMMING

To change the Station Class with Station Authorization Code:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Authorization Code in Service Restriction Class A assigned by CM12 Y=02.  Allow Authorization Code operation after operating trunk call originating in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=031 Authorization Code</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> <li>Y=401</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 2: Allow</li> </ul>
CM42	Specify the number of digits for Station Authorization Code.	<ul style="list-style-type: none"> <li>(1) 73</li> <li>(2) 01-08 : 1-8 digits NONE◀: 4 digits</li> </ul>
CM20	Assign the access code for Station Class change with Station Authorization Code.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A230: Station Class change with Station Authorization Code</li> </ul>
CM2B	Assign the temporary Trunk Restriction Class to be applied to each station after the station class is changed.	<ul style="list-style-type: none"> <li>Y=01</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1-8: Trunk Restriction Class 1◀: Unrestricted (RCA) 2 : Non-Restricted 1 (RCB) 3 : Non-Restricted 2 (RCC) 4 : Semi-Restricted 1 (RCD) 5 : Semi-Restricted 2 (RCE) 6 : Restricted 1 (RCF) 7 : Restricted 2 (RCG) 8 : Fully-Restricted (RCH)</li> </ul>
A		

A	DESCRIPTION	DATA
CM2B	Assign the temporary Service Restriction Class A/B/C to be applied to each station after the station class is changed.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class A</li> </ul>
CM08	Select the timing when the temporary service class returns to proper service class.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class B</li> </ul> <ul style="list-style-type: none"> <li>• Y=04</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul> <ul style="list-style-type: none"> <li>(1) 258</li> <li>(2) 0 : When called number has been dialed</li> <li>1◀: When station goes on-hook</li> </ul>
<u>END</u>		



To set/change Station Authorization Code from each station:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ                XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Station Authorization Code Set/Change in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=141 Station Authorization Code Set/Change</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Station Authorization Code Set/Change.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A231: Station Authorization Code Set/Change</li> </ul>
CM08	Specify whether the mask indication (*) is provided for Station Authorization Code entry.	<ul style="list-style-type: none"> <li>(1) 508</li> <li>(2) 0 : To provide                1◀: Not provided</li> </ul>
END	<p><b>NOTE:</b> When CM08&gt;508 2nd data=0 (To provide) is set, the mask indication for Authorization Codes, Forced Account Codes and DISA codes are also provided.</p>	

**NOTE:** One Station Authorization Code can be assigned per station.

To provide Pad Lock Set/Reset from the station:

START	DESCRIPTION	DATA
CM2B	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Pad Lock Set/Reset by Station Authorization Code in Service Restriction Class A assigned by CM2B Y=02.	<ul style="list-style-type: none"> <li>• Y=140 Pad Lock Set/Reset by Station Authorization Code</li> <li>(1) 00-15: Service Restriction Class A assigned by CM2B Y=02</li> <li>(2) 0: Allow</li> </ul>
CM20	Assign the access code for Pad Lock Set/Reset by Station Authorization Code.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A232: Pad Lock Set by Station Authorization Code</li> <li style="padding-left: 20px;">A233: Pad Lock Reset by Station Authorization Code</li> </ul>
<u>END</u>		

To set/clear/display Station Authorization Code on the PCPro:

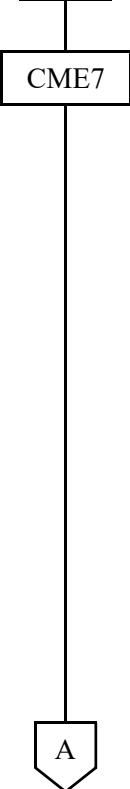
START	DESCRIPTION	DATA
CM2B	Set/clear/display Station Authorization Code.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X-XXXXXXXX: Station Authorization Code</li> <li style="padding-left: 20px;">CCC : Clear</li> </ul>
<u>END</u>		

# PC PROGRAMMING

## PROGRAMMING

For Security Function for Remote Maintenance, refer to “System Maintenance Manual”.

To provide password service:

START	DESCRIPTION	DATA
 CME7	Specify the command codes accessible to each Password Level.	<ul style="list-style-type: none"> <li>• Y=00: Password Level 0-6</li> <li>• Y=01: Password Level 1-6</li> <li>• Y=02: Password Level 2-6</li> <li>• Y=03: Password Level 3-6</li> <li>• Y=04: Password Level 4-6</li> <li>• Y=05: Password Level 5-6</li> <li>• Y=06: Password Level 6</li> <li>• Y=10: Password Level 0</li> <li>• Y=11: Password Level 1</li> <li>• Y=12: Password Level 2</li> <li>• Y=13: Password Level 3</li> <li>• Y=14: Password Level 4</li> <li>• Y=15: Password Level 5</li> <li>• Y=16: Password Level 6</li> </ul> <p>(1) 00-FB: Command Code exclusive of 03, E7, E9</p> <p>(2) 0 : Allowed 1◀: Restricted</p>
A		

A	DESCRIPTION	DATA
CME9	Allow the setting/changing of the password.	(1) 8 (2) 0◀: Allowed
	Assign a password to each Password Level.	(1) 0-7: Password Level 0-7 (2) X-X...X : Maximum 8 digits Password CCC : Password clear NONE◀: No data
	<p><b>NOTE 1:</b> <i>A password for Password Level 7 should be assigned in advance because of providing the password service by Function No. 9 of CME9.</i></p> <p><b>NOTE 2:</b> <i>The following passwords are not available.</i>  “CCCCCCC”  “FFFFFFFF”</p> <p><b>NOTE 3:</b> <i>The setting/changing of the password is available only when the second data of CME9&gt;8 is set to “0 (Allowed)”.  If CME9&gt;8 is set to “1 (Restricted)”, “DATA ERROR” is displayed when you set/change the password.</i></p>	
	Provide the system with Password Feature.	(1) 9 (2) 0: Provided
END		

**NOTE:** *If the Password Service is provided, enter the predetermined password (assigned by CME9>0-7) by CM03 before programming from the PCPro.*

- [ST] + 03 + [DE] + Password Level No. (0-7) + [DE] + Password + [EXE]
- “OK” will be displayed, if accepted.
  - “DATA ERROR” will be displayed if the password is incorrect.

## HARDWARE REQUIRED

Refer to “PC Programming Manual”.

## **FAULT MESSAGE**

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### **PROGRAMMING**

Refer to “System Maintenance Manual”.

## **FAULT REPORT SCHEDULING**

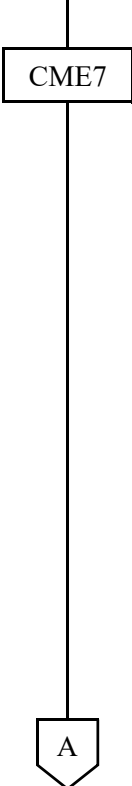
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### **PROGRAMMING**

Refer to “System Maintenance Manual”.

## PASSWORDS

### PROGRAMMING

START	DESCRIPTION	DATA
 <p>CME7</p>	<p>Specify the command codes accessible to each Password Level.</p>	<ul style="list-style-type: none"> <li>• Y=00: Password Level 0-6</li> <li>• Y=01: Password Level 1-6</li> <li>• Y=02: Password Level 2-6</li> <li>• Y=03: Password Level 3-6</li> <li>• Y=04: Password Level 4-6</li> <li>• Y=05: Password Level 5-6</li> <li>• Y=06: Password Level 6</li> <li>• Y=10: Password Level 0</li> <li>• Y=11: Password Level 1</li> <li>• Y=12: Password Level 2</li> <li>• Y=13: Password Level 3</li> <li>• Y=14: Password Level 4</li> <li>• Y=15: Password Level 5</li> <li>• Y=16: Password Level 6</li> </ul> <p>(1) 00-FB: Command Codes exclusive of 03, E7, E9</p> <p>(2) 0 : Allowed        1 ◀: Restricted</p>

A	DESCRIPTION	DATA
CME9	Allow the setting/changing of the password.	(1) 8 (2) 0◀: Allowed
	Assign a password to each Password Level.	(1) 0-7: Password Level 0-7 (2) X-X...X : Maximum 8 digits Password CCC : Password clear NONE◀: No data
	<b>NOTE 1:</b> <i>A password for Password Level 7 should be assigned in advance because of providing the password service by Function No. 9 of CME9.</i>	
	<b>NOTE 2:</b> <i>The following passwords are not available. “CCCCCCC” “FFFFFFFF”</i>	
	<b>NOTE 3:</b> <i>The setting/changing of the password is available only when the second data of CME9&gt;8 is set to “0 (Allowed)”. If CME9&gt;8 is set to “1 (Restricted)”, “DATA ERROR” is displayed when you set/change the password.</i>	
	Provide the system with Password feature.	(1) 9 (2) 0: Provided
	<b>NOTE:</b> <i>After setting this data, access to system programming will be available with password entry.</i>	
END		



## PEG COUNT

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### PROGRAMMING

Refer to “Command Manual”. (CMB0, CMB3)

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## REMOVE AND RESTORE SERVICE

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### PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CME5</div>	<p>Set or cancel make-busy to stations and trunks.</p> <p><b>NOTE 1:</b> <i>For a station that is made busy, call termination to the station is restricted, but call origination is available. For extension lines on a Multiline Terminal, My Line and Multiline make busy can be set individually, with the same condition as mentioned above.</i></p> <p><b>NOTE 2:</b> <i>For a trunk that is made busy, the outgoing call is restricted, but on incoming, the call is available.</i></p>	<ul style="list-style-type: none"><li>• Y=0</li><li>(1) X-XXXXXXXX: Station No. <b>NOTE1</b></li><li>(2) 0 : Make busy set</li><li>1◀: Make busy cancel</li></ul> <ul style="list-style-type: none"><li>• Y=1</li><li>(1) 000-511: Trunk No. <b>NOTE2</b></li><li>(2) 0 : Make busy set</li><li>1◀: Make busy cancel</li></ul>
<u>END</u>		

## STATION LINE STATUS DISPLAY

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### PROGRAMMING

Refer to “System Maintenance Manual”.

# PERIODIC TIME INDICATION TONE

## PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide the system with Periodic Time Indication Tone feature.  Specify availability of this service on Tie Line call.	(1) 135: On outgoing C.O. line call (2) 0: To provide  (1) 136: On outgoing Tie line call (2) 0 : To provide 1◀: Not provided
CM12	Assign Service Restriction Class B for this feature to required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ ZZ: 00-15◀: Service Restriction Class B
CM15	Allow Periodic Time Indication Tone in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=061</li> </ul> (1) 00-15: Service Restriction Class B assigned by CM12 Y=02 (2) 1◀: Allow
CM13	Assign required stations as Ordinary Station.  <b>NOTE:</b> <i>If the second data is assigned to 0 (Analog Data Station), this feature will not be applied to the station.</i>	<ul style="list-style-type: none"> <li>• Y=07</li> </ul> (1) X-XXXXXXXX: Station No. (2) 1◀: Ordinary Station
CM41	Specify the timing interval for Periodic Time Indication Tone.	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> (1) 09 (2) 01-17: 32-548 seconds (32 second increments) If no data is set, the default setting is 192-196 seconds.
END		

# POOLED LINE ACCESS

## PROGRAMMING

START	DESCRIPTION	DATA															
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM90</div>	<p>Assign the Pooled Line keys to each Multiline Terminal. Pooled Lines 00-63 can answer a call terminated to tenants 00-63 respectively, and can originate a call using trunk routes 00-63 respectively.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th><u>PooledLine</u></th> <th><u>Origination</u></th> <th><u>Termination</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">00</td> <td style="text-align: center;">Trunk Route 00</td> <td style="text-align: center;">Tenant 00</td> </tr> <tr> <td style="text-align: center;">01</td> <td style="text-align: center;">01</td> <td style="text-align: center;">01</td> </tr> <tr> <td style="text-align: center;">}</td> <td style="text-align: center;">}</td> <td style="text-align: center;">}</td> </tr> <tr> <td style="text-align: center;">63</td> <td style="text-align: center;">Trunk Route 63</td> <td style="text-align: center;">Tenant 63</td> </tr> </tbody> </table>	<u>PooledLine</u>	<u>Origination</u>	<u>Termination</u>	00	Trunk Route 00	Tenant 00	01	01	01	}	}	}	63	Trunk Route 63	Tenant 63	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F4100-F4163: Pooled Line 00-63</li> </ul>
<u>PooledLine</u>	<u>Origination</u>	<u>Termination</u>															
00	Trunk Route 00	Tenant 00															
01	01	01															
}	}	}															
63	Trunk Route 63	Tenant 63															
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM30</div>	<p>Assign a trunk route number and tenant number to the trunks in the Pooled Line group.</p>	<ul style="list-style-type: none"> <li>• Y=00 Trunk Route Allocation</li> <li style="text-align: right;"><span style="border: 1px solid black; border-radius: 10px; padding: 2px 5px;">BLADE RESET</span></li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00-63 : Trunk Route No. NONE◀: No data</li> <li>• Y=01 Allocation of tenants to trunks</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00-63: Tenant No. 01◀ : Tenant No.</li> </ul>															
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>																	

A	DESCRIPTION	DATA
CM30	Specify the terminating system, including TAS, of the trunks in the Pooled Line group.	<ul style="list-style-type: none"> <li>• Y=02 Terminating System in Day Mode</li> <li>• Y=03 Terminating System in Night Mode</li> <li>• Y=40 Terminating System in Mode A</li> <li>• Y=41 Terminating System in Mode B</li> </ul> (1) 000-511: Trunk No. (2) 03: Trunk-Direct Appearances and TAS 10: Attendant Console + TAS 12: Attendant Console + Trunk Direct Appearances + TAS
CM08	Specify whether call terminating is indicated on the Pooled Line keys assigned by CM90>F4100-F4163.	(1) 116 (2) 0 : Available 1◀: Not available
<u>END</u>		

### HARDWARE REQUIRED

Multiline Terminal and DLC blade

# PRIORITY CALL

## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Priority Call to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Priority Call in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=017 Priority Call 0</li> <li>Y=018 Priority Call 1</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM20	Assign the access code for Priority Calls 0 and 1 respectively.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A088: Priority Call 0 A089: Priority Call 1
CM08	Specify the destination for Priority Calls 0 and 1.	(1) 250: For Priority Call 0 (2) 0 : Same Station as Off-Hook Alarm 1◀: Attendant Console  (1) 251: For Priority Call 1 (2) 0 : Same station as Off-Hook Alarm 1◀: Attendant Console
CM90	If CM08>250/251 is set to "1", assign the Priority Calls 0 and 1 to any Priority Call Keys on DESKCON.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) DESKCON No. (E000-E007) + <input type="text"/> + Key No. (2) F6054: Priority Call 0 F6055: Priority Call 1
CM51	If CM08>250/251 is set to "0", assign the destination of Priority Calls 0 and 1 to the desired station.	<ul style="list-style-type: none"> <li>Y=12</li> </ul> (1) 00-63: Tenant No. (2) X-XXXXXXXX: Station No.
END		

# PRIVACY

## PROGRAMMING

To provide the Privacy feature for each station:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	Assign Service Restriction Class B to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM15</div>	Restrict Privacy Release in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=063</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 0: Restricted</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		



To provide the Privacy Release feature for each station:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	Allow Privacy Release in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=063</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM12	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX: 00-15◀: Service Restriction Class C</li> </ul>
CM15	Specify the way of Privacy Release.	<ul style="list-style-type: none"> <li>• Y=182</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : Direct Privacy Release 1◀: Manual Privacy Release</li> </ul>
CM08	Provide the Privacy Release feature which does not use My line of the third party.	<ul style="list-style-type: none"> <li>(1) 522</li> <li>(2) 0: To provide</li> </ul>
END		

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## *PRIVATE LINES*

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### PROGRAMMING

When providing Private Lines for a single line or Multiline Terminal, do the following Trunk-Direct Appearances programming.

START	DESCRIPTION	DATA
CM12	Assign the trunks to be seized on a per-station basis.	<ul style="list-style-type: none"> <li>• Y=16</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) D000-D511: Trunk No.</li> </ul>
CM35	Allow the designated seizure of trunks for Private Lines on a per-trunk route basis.	<ul style="list-style-type: none"> <li>• Y=098</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: Allow</li> </ul>
CM42	Assign maximum number of trunks to be seized serially when a designated trunk is busy.	<ul style="list-style-type: none"> <li>(1) 08</li> <li>(2) 01-16 : 1-16 times</li> <li>NONE◀: Not Seized</li> </ul> <p>If no data is set, the default setting is 00 (no seizure when the designated trunk is busy). To assign default setting, assign "CCC".</p>
END		

# REMOTE HOLD

[For North America]

## PROGRAMMING

Remote Hold from a Multiline Terminal:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Remote Hold in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=124</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>
CM41	Specify the recall timing for Remote Hold.	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) 06</li> <li>(2) 01-98: 4-392 seconds (4 second increments) 99 : Recall is not performed</li> </ul> <p>If no data is set, the default setting is 236-240 seconds.</p>
CM90	Assign a Hold key to the Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1010: Hold Key</li> </ul>
END		

Remote Hold from a DESKCON:

START	DESCRIPTION	DATA
CM08	Provide Remote Hold from DESKCON service.	(1) 705 (2) 0: Available
CM41	Specify the recall timing for Remote Hold from DESKCON.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00</li> <li>(2) 01-14: 2.4-33.6 seconds (2.4 second increments)</li> <li>15-24: 38.4-124.8 seconds (9.6 second increments)</li> </ul> If no data is set, default setting is 31.2-33.6 seconds.
END		

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## *RETURN MESSAGE SCHEDULE DISPLAY*

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### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for setting a Return Message Schedule.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Return Message Schedule Display in Service Restriction A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=019</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM08	Assign whether the call to a station with Return Message Schedule Display is available, and receives ringing or Reorder Tone.	<ul style="list-style-type: none"> <li>(1) 334</li> <li>(2) 0 : Available (Ringing) 1◀: Not available (ROT Connection)</li> </ul>
CM20	Assign an access code for Return Message Schedule set and cancel, respectively.	<ul style="list-style-type: none"> <li>• Y=0-3 Number Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A154: Return Message Schedule Display Set A023: Return Message Schedule Display Cancel</li> </ul>
END		

To provide the speech synthesis language feature for the calling party when calling a called party set Return Message Schedule Display, do the following programming in addition to the programming of Return Message Schedule Display.

START	DESCRIPTION	DATA
CM04	<p>Specify the combination of Language Indicated number and speech synthesis language.</p> <p><b>NOTE:</b> <i>This command is required when changing the speech synthesis language (default: English). When the language is changed by this command, the operation for setting speech synthesis language from the Multiline Terminal is required for individual station. For the operation, refer to OPERATING PROCEDURE FOR SETTING SPEECH SYNTHESIS LANGUAGE.</i></p> <p><a href="#">Page 1-355</a></p>	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) 1-9: Language Indicated No.</li> <li>(2) 01 : Japanese announcement</li> <li>02 : English announcement</li> <li>06 : Chinese announcement</li> <li>08 : Korean announcement</li> <li>CCC : Clear</li> <li>NONE◀: English announcement</li> </ul>
CM08	<p>Specify whether to replay the announcement in English after replaying the first announcement assigned by CM04 Y=02.</p> <p>Allow the speech synthesis language feature for the Return Message Schedule Display.</p>	<ul style="list-style-type: none"> <li>(1) 894</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> <li>(1) 1400</li> <li>(2) 0: Allow</li> </ul>
CM90	<p>Assign the speech synthesis language setting function keys on Multiline Terminal.</p> <p><b>NOTE:</b> <i>This command is required when setting the speech synthesis language from the Multiline Terminal for individual station. For the operation, refer to OPERATING PROCEDURE FOR SETTING SPEECH SYNTHESIS LANGUAGE.</i></p> <p><a href="#">Page 1-355</a></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1074 : Set</li> <li>F1076 : Cancel</li> <li>F1079 : Language</li> <li>NONE◀: No data</li> </ul>
A		

A	DESCRIPTION	DATA
CM08	Specify whether to print out the language information from Printer, when the language indicated number is entered by the Multiline Terminal.	(1) 895 (2) 0 : Not available 1◀: available
CM04	Specify the combination of Language Indicated number and language information display of the Multiline Terminal/language information to be printed out by the printer.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) 1-9: Language Indicated No.</li> <li>(2) 01 : JPN (Japanese)</li> <li>02 : ENG (English)</li> <li>06 : CHI (Chinese)</li> <li>08 : KOR (Korean)</li> <li>CCC : Clear</li> <li>NONE◀: See <b>NOTE2</b></li> </ul>
<u>END</u>	<p><b>NOTE 1:</b> <i>The Language Indicated number (1-9) means the number entered by the Multiline Terminal.</i></p> <p><b>NOTE 2:</b> <i>When the second data is set to "NONE", the following language information (fixed sentence) is displayed or printed out according to the Language Indicated number entered by the Multiline Terminal.</i></p> <p><i>Language Indicated number 1: JPN</i>  <i>Language Indicated number 2: ENG</i>  <i>Language Indicated number 3: GER</i>  <i>Language Indicated number 4: FR</i>  <i>Language Indicated number 5: SP</i>  <i>Language Indicated number 6: CHI</i>  <i>Language Indicated number 7: RUS</i>  <i>Language Indicated number 8: KOR</i>  <i>* For language information other than listed above, Display/Print-out is not provided.</i></p>	

## HARDWARE REQUIRED

Multiline Terminal with LCD and DLC blade  
 CPU blade (Speech Synthesis using a built-in Flash ROM)

# ROUTE ADVANCE

## PROGRAMMING

START	DESCRIPTION	DATA																																							
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">CM20</div>	Assign the access code to Route Advance Block 00-31.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Route Advance Access Code</li> <li>(2) 200-231: Route Advance Block 00-31</li> </ul>																																							
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">CM22</div>	Specify the alternative routes with the order of priority to be seized. Up to seven alternative routes can be set by using two Route Advance Blocks, as shown below.	<ul style="list-style-type: none"> <li>• Y=00-31 Route Advance Block assigned by CM20 Y=0-3: 200-231</li> <li>(1) 0-3: Order of Priority                             <ul style="list-style-type: none"> <li>0 : 1st</li> <li>1 : 2nd</li> <li>2 : 3rd</li> <li>3 : 4th</li> </ul> </li> <li>(2) 100-163 : Trunk Route 00-63</li> <li>200-231 : Route Advance Block 00-31</li> <li>NONE◀: No data</li> </ul>																																							
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">END</div>	<table border="1" style="margin: auto;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 15%;">PRIORITY</th> <th style="width: 15%;">ROUTE</th> <th style="width: 15%;">DATA</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td rowspan="4" style="vertical-align: middle;">Route Advance Block 00</td> <td style="text-align: center;">0</td> <td style="text-align: center;">00</td> <td style="text-align: center;">100</td> <td style="text-align: center;">1st</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">01</td> <td style="text-align: center;">101</td> <td style="text-align: center;">2nd</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">02</td> <td style="text-align: center;">102</td> <td style="text-align: center;">3rd</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;"></td> <td style="text-align: center;">201</td> <td style="text-align: center;">← To Route Advance</td> </tr> <tr> <td rowspan="4" style="vertical-align: middle;">Route Advance Block 01</td> <td style="text-align: center;">0</td> <td style="text-align: center;">03</td> <td style="text-align: center;">103</td> <td style="text-align: center;">4th Block 01</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">04</td> <td style="text-align: center;">104</td> <td style="text-align: center;">5th</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">05</td> <td style="text-align: center;">105</td> <td style="text-align: center;">6th</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">06</td> <td style="text-align: center;">106</td> <td style="text-align: center;">7th</td> </tr> </tbody> </table>		PRIORITY	ROUTE	DATA		Route Advance Block 00	0	00	100	1st	1	01	101	2nd	2	02	102	3rd	3		201	← To Route Advance	Route Advance Block 01	0	03	103	4th Block 01	1	04	104	5th	2	05	105	6th	3	06	106	7th	
	PRIORITY	ROUTE	DATA																																						
Route Advance Block 00	0	00	100	1st																																					
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	2	05	105	6th																																					
	3	06	106	7th																																					



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# SAVE AND REPEAT

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## PROGRAMMING

START	DESCRIPTION	DATA
CM90	Assign the Save & Repeat key to the Multiline Terminal.  <b>NOTE:</b> <i>Up to three Save and Repeat keys can be assigned per Multiline Terminal.</i>	<ul style="list-style-type: none"><li>• Y=00</li><li>(1) My Line No. + <input type="text"/> + Key No.</li><li>(2) F1001, F1013, F1014</li></ul>
END		

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## HARDWARE REQUIRED

Multiline Terminal and DLC blade

# SCAM CALL PREVENTION

[9300V7 software required]

## PROGRAMMING

### (1) Basic Data Assignment

To provide Scam Call Prevention, do the following programming for the basic system data in addition to the programming of CODE RESTRICTION.

#### (a) Data Assignment of Trunk Restriction Class to Station

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	Assign a Trunk Restriction Class to each station.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X Z: Trunk Restriction Class               <ul style="list-style-type: none"> <li>X: 1 ◀-8: Day Trunk Restriction Class</li> <li>Z: 1 ◀-8: Night Trunk Restriction Class                   <ul style="list-style-type: none"> <li>1 : Unrestricted (RCA)</li> <li>2 : Non-Restricted 1 (RCB)</li> <li>3 : Non-Restricted 2 (RCC)</li> <li>4 : Semi-Restricted 1 (RCD)</li> <li>5 : Semi-Restricted 2 (RCE)</li> <li>6 : Restricted 1 (RCF)</li> <li>7 : Restricted 2 (RCG)</li> <li>8 : Fully Restricted (RCH)</li> </ul> </li> </ul> </li> </ul>
<u>END</u>		

(b) Data Assignment of Trunk Restriction Class for Outgoing Calls to Incoming Trunks in Tandem Connection

Assign the following data to each terminating method.

- When the terminating method is Remote Access to System (DISA):

**NOTE:** For a SIP trunk, do the programming referring “When the terminating method is Automated Attendant:” (CM35 Y=097).

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM2A</div>	Assign the desired Trunk Restriction Class for DISA.	<ul style="list-style-type: none"> <li>• Y=11</li> <li>(1) 0000-2999: ID Code Pattern No.</li> <li>(2) 1◀: Unrestricted (RCA)                             <ul style="list-style-type: none"> <li>2 : Non-Restricted-1 (RCB)</li> <li>3 : Non-Restricted-2 (RCC)</li> <li>4 : Semi-Restricted-1 (RCD)</li> <li>5 : Semi-Restricted-2 (RCE)</li> <li>6 : Restricted-1 (RCF)</li> <li>7 : Restricted-2 (RCG)</li> <li>8 : Fully-Restricted (RCH)</li> </ul> </li> </ul>
END		

- When the terminating method is Automated Attendant:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM35</div>	Assign the desired Trunk Restriction Class for Automated Attendant to a trunk.	<ul style="list-style-type: none"> <li>• Y=097</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) X Z: Trunk Restriction Class                             <ul style="list-style-type: none"> <li>X: 1-8: Day Trunk Restriction Class</li> <li>Z: 1-8: Night Trunk Restriction Class                                     <ul style="list-style-type: none"> <li>1 : Unrestricted (RCA)</li> <li>2 : Non-Restricted 1 (RCB)</li> <li>3 : Non-Restricted 2 (RCC)</li> <li>4 : Semi-Restricted 1 (RCD)</li> <li>5 : Semi-Restricted 2 (RCE)</li> <li>6 : Restricted 1 (RCF)</li> <li>7 : Restricted 2 (RCG)</li> <li>8 : Fully Restricted (RCH)</li> </ul> </li> </ul> </li> <li>NONE◀: No data</li> </ul>
END		

- When the terminating method is not Remote Access to System (DISA) or Automated Attendant:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CM35</div>	Assign the desired Trunk Restriction Class for tandem connection.	<ul style="list-style-type: none"> <li>• Y=371</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) X Z: Trunk Restriction Class               <ul style="list-style-type: none"> <li>X: 1-8: Day Trunk Restriction Class</li> <li>Z: 1-8: Night Trunk Restriction Class</li> </ul> </li> <li>1 : Unrestricted (RCA)</li> <li>2 : Non-Restricted 1 (RCB)</li> <li>3 : Non-Restricted 2 (RCC)</li> <li>4 : Semi-Restricted 1 (RCD)</li> <li>5 : Semi-Restricted 2 (RCE)</li> <li>6 : Restricted 1 (RCF)</li> <li>7 : Restricted 2 (RCG)</li> <li>8 : Fully Restricted (RCH)</li> <li>NONE◀: No data</li> </ul>
END		

(2) Assignment of Toll Restriction Pattern Number on Each Class

In addition to the Basic Data Assignment, do the following programming.

START

**DESCRIPTION**

**DATA**

CM81

To set Toll Restriction to the office code, assign the desired Toll Restriction Pattern number for each class.

- Y=01-13  
Toll Restriction Pattern No. 01-13
- (1) 1-8: Trunk Restriction Pattern Class
- (2) 0 : Restricted  
3 : Allowed

TRUNK RESTRICTION CLASS		Y															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
		TOLL RESTRICTION PATTERN NUMBER ON EACH TRUNK RESTRICTION CLASS															
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	00
1	RCA	3	0	3	3	3	0	0	0	3	3	3	3	3	0	3	0
2	RCB	3	0	3	3	0	0	0	0	3	3	0	0	0	0	3	0
3	RCC	3	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0
4	RCD	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
5	RCE	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
6	RCF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
7	RCG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
8	RCH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0

0: Restricted  
3: Allowed

END

## (3) Assignment of Scam Call Detection

In addition to the Basic Data Assignment and Assignment of Toll Restriction Pattern Number on Each Class, do the following programming.

START	DESCRIPTION	DATA
CM81	Specify whether to provide the Toll Restriction by Scam Call detection service.	<ul style="list-style-type: none"> <li>• Y=20</li> <li>(1) XX ZZ XX: Toll Restriction Pattern No. for each class (01-13, 15) ZZ: Outgoing Trunk Route (00-63) 0 : Available</li> <li>(2) 1 : Only detection NONE◀: Not available</li> </ul>
	Assign the period of Scam Call detection to the Toll Restriction Pattern number for each class and the outgoing trunk route assigned by CM81 Y=20.	<ul style="list-style-type: none"> <li>• Y=21</li> <li>(1) XX ZZ XX: Toll Restriction Pattern No. for each class (01-13, 15) ZZ: Outgoing Trunk Route (00-63) 01-99 : 1-99 minutes</li> <li>(2) NONE◀: 60 minutes</li> </ul>
	Assign the number of Scam Call detection to the Toll Restriction Pattern number for each class and the outgoing trunk route assigned by CM81 Y=20.	<ul style="list-style-type: none"> <li>• Y=22</li> <li>(1) XX ZZ XX: Toll Restriction Pattern No. for each class (01-13, 15) ZZ: Outgoing Trunk Route (00-63) 01-99 : 1-99 times</li> <li>(2) NONE◀: 10 times</li> </ul>
<u>END</u>		

## (4) Reading or Canceling the Restriction State by Scam Call Detection

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM81</div>	Display or cancel the restriction state by Scam Call detection.	<ul style="list-style-type: none"> <li>• Y=29</li> <li>(1) XX ZZ               <ul style="list-style-type: none"> <li>XX: Toll Restriction Pattern No. for each class (01-13, 15)</li> <li>ZZ: Outgoing Trunk Route (00-63)</li> <li>0 : Normal</li> </ul> </li> <li>(2) 1 : Scam Call detected (restriction available)</li> <li>2 : Scam Call detected (restriction not available)</li> <li>NONE◀: Not available</li> <li>CCC : To cancel</li> </ul>
END		

## (5) Assignment of Fault Information Collection

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CMEA</div>	Register the fault information into memory and the control of the external alarm for Scam Call detection.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 136: Scam Call detected</li> <li>137: Scam Call detection returned to normal condition</li> <li>(2) 0 : No fault memory store/No output of external alarm</li> <li>1 : Fault memory store/External alarm is MN alarm</li> <li>2 : Fault memory store/External alarm is MJ alarm</li> <li>3◀: Fault memory store/No output of external alarm</li> </ul>
END		

# SECURITY ALARM

## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign the Hot Line to the station connected to the contact.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 04: Hot Line</li> </ul>
CM52	Assign the Attendant Console as the Hot Line destination of the station.	<ul style="list-style-type: none"> <li>• Y=00-99 Hot Line Pair No.</li> <li>(1) 0: Calling Side</li> <li>(2) X-XXXXXXXX: Station No. associated with the contact closure</li> </ul>
<p><b>NOTE:</b> <i>When assigning a station number to a Calling Side, the second data of CM12 Y=03 must be set to "04".</i></p>		<ul style="list-style-type: none"> <li>(1) 1: Called Side</li> <li>(2) E00X X: 0-7: DESKCON No. assigned by CM10 Y=00</li> </ul>
END		



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## *SEMI-AUTOMATIC ATTENDANT CAMP-ON*

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### PROGRAMMING

START	DESCRIPTION	DATA
CM08	Provide Semi-Automatic Camp-On as a type of Camp-On operation from Attendant Console.	(1) 542 (2) 0: Semi-Automatic Camp-On
	Specify the Camp-On Tone sent to busy station.	(1) 068 (2) 0 : Sent out only once 1◀: Repeated at 4 second intervals
CM41	Specify the Attendant Recall timing of Camp-On.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00</li> <li>(2) 01-14: 2.4-33.6 seconds (2.4 second increments)</li> <li>15-24: 38.4-124.8 seconds (9.6 second increments)</li> </ul> If no data is set, the default setting is 31.2-33.6 seconds.
END		

To reenter a Camped-On trunk from an Attendant before Automatic Recall:

START	DESCRIPTION	DATA
CM20	Assign the access code for Call Pickup-Direct.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A021: Call Pickup-Direct</li> </ul>
END		

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To display the busy station number and name on an Attendant Console when reentering a Camped-On trunk by pressing the loop key:

<u>START</u>	<b>DESCRIPTION</b>	<b>DATA</b>
CM08	Provide the Attendant Console with the busy station number/name display when reentering a Camped-On trunk.	(1) 441 (2) 0: Available
<u>END</u>		

## SET RELOCATION (STATION DATA SWAP)

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Set Relocation to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Set Relocation (Station Data Swap) for the setting side.	<ul style="list-style-type: none"> <li>Y=131</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>
	Allow being moved and changed by Set Relocation (Station Data Swap) operation.	<ul style="list-style-type: none"> <li>Y=132</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>
	Allow Authorization Code operation after operating trunk call originating in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=401</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>
CM20	Assign the access code for Authorization Code.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A086: Authorization Code</li> </ul>
CM2A	Set the Authorization Code for Service Restriction Class A assigned by CM15 Y=131.	<p><b>NOTE:</b> For setting the Authorization Code, refer to <i>AUTHORIZATION CODE</i>.</p> <p><a href="#">Page 1-64</a></p>
CM20	Assign the access code for Set Relocation (Station Data Swap).	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A196: Set Relocation (Station Data Swap)</li> </ul>
END		

## SET RELOCATION (STATION KEY DATA COPY)

[9300V4 software required]

### PROGRAMMING

START	DESCRIPTION	DATA
CM20	Assign the access code for Set Relocation (Station Key Data Copy).	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A277: Copy key data of Multiline Terminal
CM08	Specify whether to allow the copy key data of Multiline Terminal by station dialing for different tenants.  <b>NOTE:</b> <i>When the second data is set to 0 and Multiline Terminal key assignment between different tenants is copied, tenant numbers assigned by CM12 Y=04 are also copied with Multiline Terminal key assignment.</i>	(1) 1054 (2) 0 : Allow 1◀: Restricted (Only same tenant stations are allowed)
CM12	Assign Service Restriction Class A to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Specify whether to allow the copy key data of Multiline Terminal by service access code (for copy source station).  <b>NOTE 1:</b> <i>Restrict the particular stations with confidential information, if necessary.</i>  <b>NOTE 2:</b> <i>Because this feature does not support carl cordless telephones, set the second data to 0 (Restricted) for carl cordless telephones (when Multiline Key Assignment is accidentally copied to a Multiline Terminal, the terminal does not operate normally).</i>	<ul style="list-style-type: none"> <li>Y=234</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Restricted 1◀: Allow
A		

A

CM15

END

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**DESCRIPTION**

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**DATA**

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Specify whether to allow the copy key data of Multiline Terminal by service access code (for copy destination station).

- Y=235
- (1) 00-15: Service Restriction Class A  
assigned by CM12 Y=02
- (2) 0 : Restricted  
1◀: Allow

**NOTE 1:** *Restrict the station which you do not want to change the station key data by an operating error such as a meeting room.*

**NOTE 2:** *Because this feature does not support carl cordless telephones, set the second data to 0 (Restricted) for carl cordless telephones (when Multiline Key Assignment is accidentally copied to a Multiline Terminal, the terminal does not operate normally).*

## ***SHORT MESSAGE SERVICE (SMS)***

**[For EMEA]**

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### **PROGRAMMING**

To restrict a toll call, do the programming of CODE RESTRICTION. [☞ Page 1-216](#)

And to provide the caller ID-station, do the programming of CALLER ID-STATION (ETSI-FSK).

[☞ Page 1-190](#)

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### **HARDWARE REQUIRED**

Analog telephone with LCD which supports Caller ID

LLC blade

Short Message Service Center (SM-SC)

## ***SINGLE DIGIT FEATURE ACCESS CODE***

### **PROGRAMMING**

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content;">CM08</div>	<p>To activate the Single Digit Feature Access Code feature, set the data for 050, 051, 069, 148 and 543 to "1".</p>	<p>(1) 050: * button as Switch Hook Flash. (2) 1◀: Ineffective</p>
	<p></p>	<p>(1) 051: # button as Switch Hook Flash. (2) 1◀: Ineffective</p>
	<p></p>	<p>(1) 069: Single Digit Dialing on BT Connection (2) 1◀: Step Call</p>
	<p></p>	<p>(1) 148: Same Last Digit Redialing on BT Connection (2) 1◀: Ineffective</p>
	<p></p>	<p>(1) 543: Step Call (2) 1◀: Allow</p>
	<p>Provide the system with the Single Digit Feature Access Code on RBT or Voice Call connection.</p>	<p>(1) 156 (2) 0: Available</p>
<p>Provide the system with the Single Digit Feature Access Code on BT connection.</p>	<p>(1) 208 (2) 0: Available</p>	
<p>Specify whether the Single Digit Feature Access Code are fixed or not.</p>	<p>(1) 570 (2) 0 : Programmable Access Code 1◀: Fixed Access Code</p>	
<div style="border: 1px solid black; padding: 5px; width: fit-content;">A</div>		

A

CM20

END

DESCRIPTION	DATA
<p>When using programmable access code (CM08&gt;570 is set to 0), assign the Single Digit Feature Access Code for the BT connection.</p>	<ul style="list-style-type: none"> <li>• Y=4</li> <li>(1) X: Access code (0-9, A (*), B (#))</li> <li>(2) 2 : Call Back/Trunk Queuing-Outgoing</li> <li>3 : Executive Override</li> <li>4 : Camp-On</li> <li>5 : Call Waiting</li> <li>6 : Message Reminder Set</li> <li>7 : Step Call</li> <li>8 : Message Waiting Record</li> <li>9 : Voice Mail Transfer</li> <li>NONE◀: Single Digit Feature Access Code is not available</li> </ul>
<p>When using programmable access code (CM08&gt;570 is set to 0), assign the Single Digit Feature Access Code for the RBT connection.</p>	<ul style="list-style-type: none"> <li>• Y=5</li> <li>(1) X: Access code (0-9, A (*), B (#))</li> <li>(2) 1 : Internal Tone/Voice Signaling (Voice Call-Multiline Terminal/Attendant)</li> <li>2 : Call Back/Trunk Queuing-Outgoing</li> <li>6 : Message Reminder Set</li> <li>8 : Message Waiting Record</li> <li>9 : Voice Mail Transfer</li> <li>NONE◀: Single Digit Feature Access Code is not available</li> </ul>



When CM08>570 is set to 1, the associated access codes become as shown below, and these access codes cannot be changed.

On Busy Tone Connection

1. None
2. Call Back/Trunk Queuing-Outgoing  
**NOTE 1, 2**
3. Executive Override **NOTE 1, 2**
4. Camp-On
5. Call Waiting
6. Message Reminder/Message Waiting Set
7. Step Call (7 + Last one digit) **NOTE 3**
8. Message Waiting Record
9. None

On Ring Back Tone Connection

1. Internal Tone/Voice Signaling **NOTE 4**
2. Call Back-Don't Answer **NOTE 1, 2, 4**
3. None
4. None
5. None
6. Message Reminder/Message Waiting Set **NOTE 4**
7. None
8. Message Waiting Record **NOTE 4**
9. None

**NOTE 1:** *This feature cannot be set from Attendant Console.*

**NOTE 2:** *This feature cannot be set from a station having a held call.*

**NOTE 3:** *This feature can be set only from a station having a held incoming call.*

**NOTE 4:** *From a DTMF telephone, a hooking operation is required before dialing the single digit access code.*

This feature is mutually exclusive with Step Call.

However, 2 digit dialing Step Call can be provided by using this feature.

## SOFTWARE LINE APPEARANCE (VIRTUAL EXTENSIONS)

### PROGRAMMING

START	DESCRIPTION	DATA
CM11	<p>Assign a Software Line Appearance (Virtual Line station number) to the required Virtual Port number.</p> <p><b>NOTE:</b> <i>The Virtual Port number has no relation with the Physical Port number used in CM10 Y=00. Therefore, any Virtual Port number can be assigned to each Virtual Line station number. However, the Virtual Line station number should be different from the Single Line number assigned by CM10 Y=00.</i></p>	<p>(1) 0000-0999: Virtual Port No. (2) X-XXXXXXXX: Virtual Line Station No.</p>
CM12	<p>Assign the Station Class data to each Virtual Line station number.</p>	<ul style="list-style-type: none"> <li>• Y=01 Trunk Restriction Class</li> <li>• Y=02 Service Restriction Class</li> <li>• Y=03 Kind of Telephone</li> <li>• Y=04 Tenant Allocation</li> </ul> <p>(1) X-XXXXXXXX: Virtual Line Station No. (2) Refer to CLASS OF SERVICE. <a href="#">Page 1-213</a></p>
CM90	<p>Assign the Virtual Line station to a Multiline Terminal. One Virtual Line station number may be assigned to plural Multiline Terminals.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> <p>(1) My Line No. + <input type="text"/> + Key No. (2) X-XXXXXXXX: Virtual Line Station No.</p>
END		

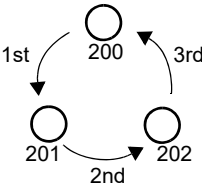
### HARDWARE REQUIRED

Multiline Terminal and DLC blade

# STATION HUNTING

## STATION HUNTING-CIRCULAR

### PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM18</div>	<p>To set up each Station Hunting group, assign station numbers, one by one, in order of the Hunting as shown below.</p> <p><b>Example:</b> For setting station number 200, 201, 202 into one Hunting group.</p> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 10px;"> <p>1st Operation [ (1) 200 (2) 201</p> <p>2nd Operation [ (1) 201 (2) 202</p> <p>3rd Operation [ (1) 202 (2) 200</p> </div> <div style="text-align: center;">  </div> </div> <p>Specify the Hunting capability of each station. To continue the hunt in the original direction, if the station is busy, set to "1"; to reverse the direction (last station only), set to "5".</p> <p><b>NOTE 1:</b> <i>The maximum number of stations per hunt group is 60. And there is no limit to the number of Circular Hunt groups within the system.</i></p> <p><b>NOTE 2:</b> <i>Each station can belong to only one hunt group.</i></p> <p><b>NOTE 3:</b> <i>The Attendant Console cannot be member of a hunt group.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Station No. to be included in Station Hunting Group</li> <li>(2) X-XXXXXXXX: Another Station No. to be linked</li> </ul> <ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: If busy, hunt in original direction 5: If busy, hunt in reverse direction</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		

A	DESCRIPTION	DATA
CM08	Specify the operation of Station Hunting for a station with Do Not Disturb set (for DID/Tie Line/Station call).	(1) 240 (2) 0 : Station Hunting 1◀: Do Not Disturb (ROT connection)
	<p><b>NOTE:</b> <i>Regardless of this data, Do Not Disturb is available for Direct-In Termination when a Pilot station of Station Hunting group is set Do Not Disturb.</i></p>	
	Assign the way of a call termination to the My Line while the station user makes a call with a Sub Line on a Multiline terminal.	(1) 593 (2) 0 : To activate the Station Hunting that set an incoming call 1◀: As per CM08>268
	If the second data of CM08>593 is set to “1”, assign how to handle the call terminated to the My Line.	(1) 268 (2) 0 : Busy Line 1◀: Station Call
END		

## STATION HUNTING-TERMINAL

### PROGRAMMING

START	DESCRIPTION	DATA
CM18	<p>To set up each Station Hunting group, assign station numbers, one by one, as shown below.</p> <p>1st Operation    [ (1) Station A                           (2) Station B</p> <p>2nd Operation    [ (1) Station B                           (2) Station C</p> <p>Assign the pilot station to required station number within the Hunting group. For the member stations, set the data to "0".</p> <p><b>NOTE:</b> <i>The maximum number of stations that can be included on one Station Hunting group is 60 including the Pilot Station. And there is no limit to the number of Terminal Hunt groups within the system.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Station No. to be included in Station Hunting Group</li> <li>(2) X-XXXXXXXX: Another Station No. to be included in the Same Hunting Group</li> </ul> <ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Pilot Station</li> </ul>
CM08	<p>Specify the operation of Station Hunting for a station with Do Not Disturb set (for DID/Tie Line/Station call).</p> <p><b>NOTE:</b> <i>Regardless of this data, Do Not Disturb is available for Direct-In Termination when a Pilot station of Station Hunting group is set Do Not Disturb.</i></p> <p>Assign the way of a call termination to the My Line while the station user makes a call with a Sub Line on a Multiline terminal.</p> <p>If the second data of CM08&gt;593 is set to "1", assign how to handle the call terminated to the My Line.</p>	<ul style="list-style-type: none"> <li>(1) 240</li> <li>(2) 0 : Station Hunting 1◀: Do Not Disturb (ROT connection)</li> </ul> <ul style="list-style-type: none"> <li>(1) 593</li> <li>(2) 0 : To activate the Station Hunting that set an incoming call 1◀: As per CM08&gt;268</li> </ul> <ul style="list-style-type: none"> <li>(1) 268</li> <li>(2) 0 : Busy Line 1◀: Station Call</li> </ul>
<u>END</u>		



A

CM08

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**DESCRIPTION**

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**DATA**

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Assign the way of a call termination to the My Line while the station user makes a call with a Sub Line on a Multiline terminal.

- (1) 593
- (2) 0 : To activate the Station Hunting that set an incoming call
- 1◀: As per CM08>268

If the second data of CM08>593 is set to "1", assign how to handle the call terminated to the My Line.

- (1) 268
- (2) 0 : Busy Line
- 1◀: Station Call

END

## ***STATION MESSAGE DETAIL RECORDING (SMDR)***

### **SYSTEM OUTLINE**

The Station Message Detail Recording (SMDR) feature allows the system to send a raw data of the trunk outgoing/incoming call information. The SMDR data can be received by a personal computer (PC) which runs an RS-232C or a LAN terminal emulation software. (referred to the rest of this manual as simply "SMDR terminal")

Call information is sent out from the CPU to the SMDR terminal when each call is completed. If the SMDR terminal is not connected to the system or if the SMDR terminal is not ready for receiving information, the call information is temporarily stored in the CPU. As soon as the SMDR terminal becomes ready to receive information, the call information temporarily stored in the CPU is sent out to the SMDR terminal.



(1) SMDR on RS-232C

The system outline of the SMDR on RS-232C is shown below. The SMDR on RS-232C consists of the CPU blade and the external SMDR terminal.

- CPU blade:

The CPU stores various kinds of information on an event basis. When a call is completed, the CPU sends out the call information pertaining to that specific call to the SMDR terminal.

Two RS-232C ports can be used for the SMDR terminal interface.

The CPU keeps supervising the status of the SMDR terminal. If the SMDR terminal is not ready to receive information (Busy Status), the CPU temporarily stores the call information into its internal memory.

When the number of the call records stored in the CPU reaches the maximum, new call records will be lost.

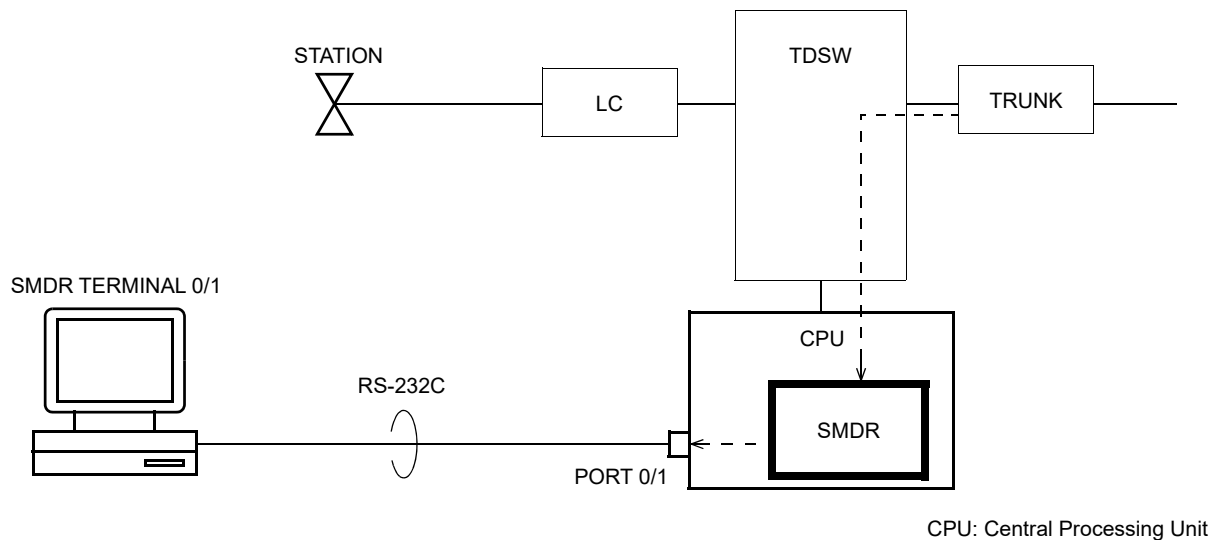
The call record memory will be cleared by CPU reset.

- SMDR Terminal:

An Asynchronous Personal Computer is used as the SMDR terminal for receiving and processing the call information via RS-232C.

Only one SMDR terminal is available.

### System Outline of SMDR on RS-232C



(2) SMDR on IP

The system outline of the SMDR on IP is shown below. The SMDR on IP consists of the CPU blade and the external SMDR terminal.

- CPU blade:

The CPU stores various kinds of information on an event basis. When a call is completed, the CPU sends out the call information pertaining to that specific call to the SMDR terminal.

Two LAN port can be used for the SMDR terminal interface.

The CPU keeps supervising the status of the SMDR terminal. If the SMDR terminal is not ready to receive information (Busy Status), the CPU temporarily stores the call information into its internal memory.

When the number of the call records stored in the CPU reaches the maximum, new call records will be lost.

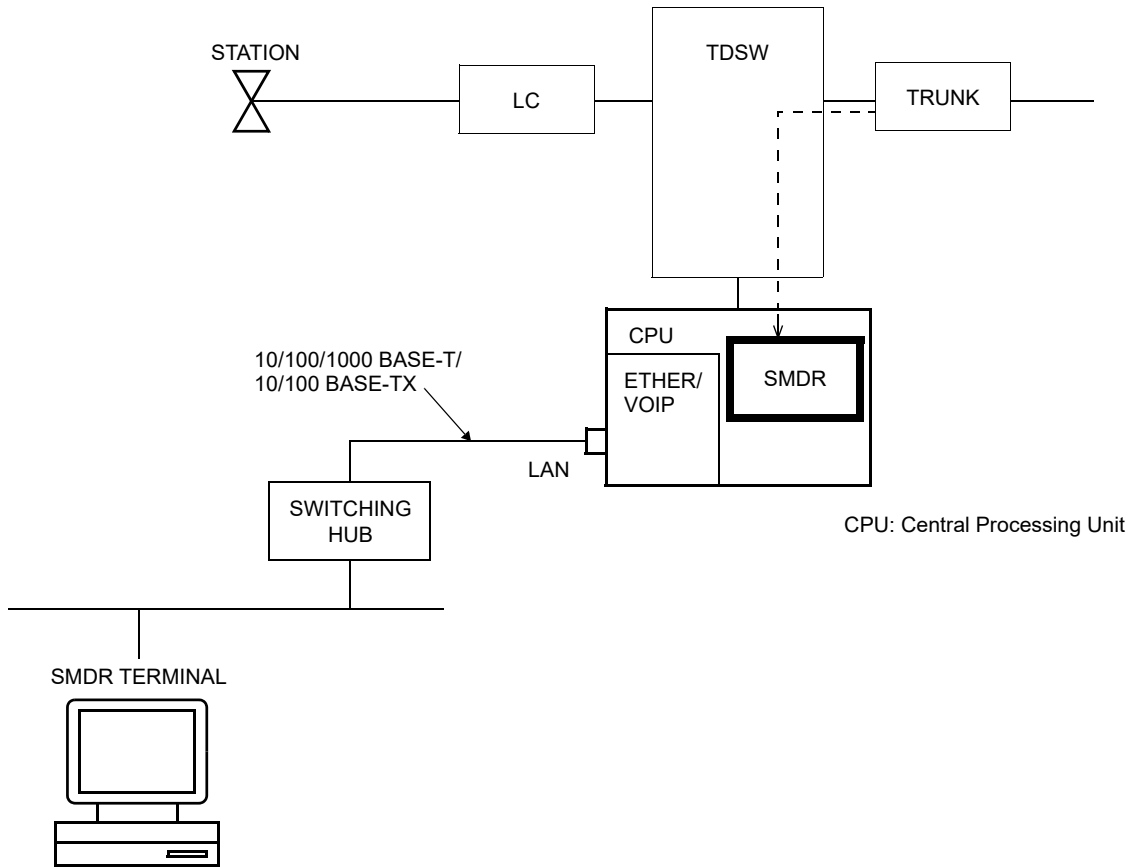
The call record memory will be cleared by CPU reset.

- SMDR Terminal:

A Personal Computer with LAN port is used as the SMDR terminal for receiving and processing the call information via LAN.

Only one SMDR terminal is available.

**System Outline of SMDR on IP**



## BILLING DATA STORAGE TO SMDR

(1) The billing data is stored into the SRAM in a CPU blade of Unit01 and concurrently output to the following devices.

- SMDR on RS-232C **NOTE 1**
- SMDR on IP **NOTE 2**
- PMS (LAN interface) **NOTE 2**
- Centralized Billing-CCIS for Center Office

**NOTE 1:** *The billing data can be output from either RS-232C Port1 or Port2 (CM40 Y=00: 11/14). Only one SMDR on RS-232C can be connected.*

**NOTE 2:** *The billing data can be output from either Maintenance Port or VOIP Port (CM0B Y=001>93). Only one SMDR on IP can be output.*

(2) When SMDR in a CPU blade overflowed by the failures such as LAN connection or terminal down, SMDR abandons from the oldest record and stores the latest record into the SRAM.

(3) The conditions of call record output for specified stations are as follows.

- Even if the number of maximum stored calls is set to about 27000 calls by the system data (CM04 Y=01>12: 0), the call record output of specified stations is only for about the latest 12000 calls.
- When changing the number of maximum stored calls by the system data (CM04 Y=01>12: 0/3) during the call record output of specified stations, SRAM area all clear is required (CM00>02: CCC).

## COMBINATION OF SMDR SERVICE

By system data programming, the same call record can be output to multiple SMDR terminals simultaneously. Following table shows the combination pattern of call record output available at the same time regardless of the type of Message Format.

### Combination of SMDR Service

×: Available  
–: Not available

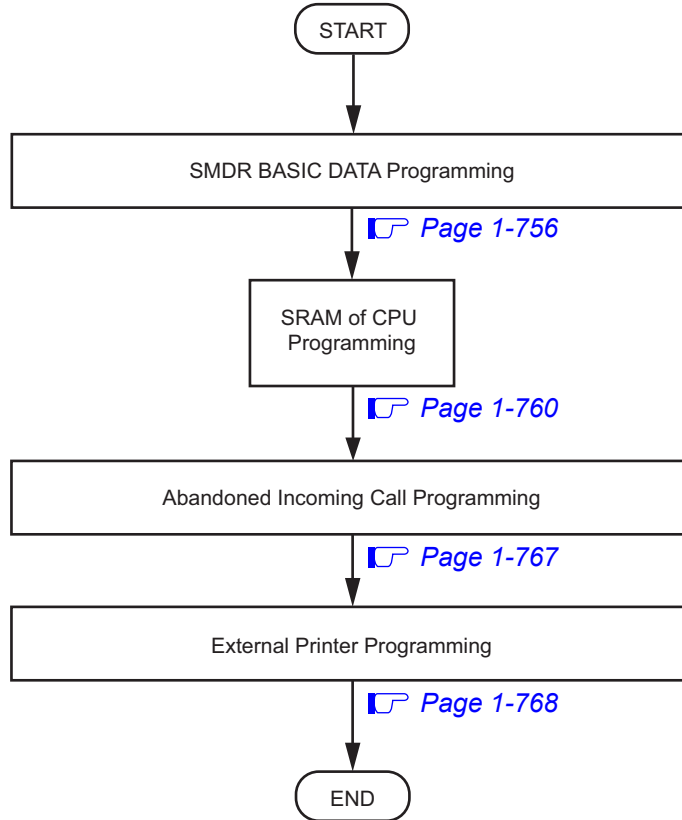
SMDR TYPE	PATTERN A	PATTERN B
SMDR on RS-232C	×	–
SMDR on IP	–	×

## **HARDWARE REQUIRED**

- (1) SMDR on RS-232C  
CPU blade  
RS RVS-4SCA-C/RS RVS-15S CA-A or RS NORM-4S CA-A  
SMDR terminal
  
- (2) SMDR on IP  
CPU blade  
SMDR terminal

## PROGRAMMING SUMMARY

### Programming Summary for SMDR



## PROGRAMMING

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### Precaution

Before programming the system data for SMDR, confirm that the system is under the following status.

- The system is under On-Line mode. (“RUN” lamp is flashing on the CPU blade.)
- All the system data pertaining to the station, trunks and services are already programmed.

### SMDR BASIC DATA Programming

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: 50px; margin: 0 auto;">CM02</div> <div style="text-align: center; margin-top: 100px;"> <div style="border: 1px solid black; padding: 2px; width: 30px; margin: 0 auto;">A</div> </div>	Assign the system clock data.	<p>(1) 0: Calendar Year (2) 2014-2099</p> <p>(1) 1: Date (2) MM DD WW MM : 01-12 (Month) DD : 01-31 (Date) WW: 00 (Sun)       01 (Mon)       02 (Tue)       03 (Wed)       04 (Thu)       05 (Fri)       06 (Sat)</p> <p>(1) 2: Time (2) HH MM SS HH : 00-23 (Hour) MM: 00-59 (Minute) SS : 00-59 (Second)</p>



A

CM08

DESCRIPTION	DATA
Specify whether SMDR output for Tandem calls is available or not.	(1) 040 (2) 0 :Not available 1◀:Available
Specify the method of charging a transferred call.	(1) 424: Charging method (2) 0 : Charging to transferring station or transfer destination station 1◀: Split charging to both transferring station and transfer destination station
The following table shows the station to which call charging is to be made in the case of various transfer patterns.	(1) 425: Charging destination (2) 0 : Charging to transferring station 1◀: Charging to transfer destination station

TRANSFER PATTERN		CM08>424=1	CM08>424=0	CM08>424=0
FROM	TO		CM08>425=1	CM08>425=0
STAA	STAB	Split charging to STA A and STA B	STAB	STAA
STA	DESKCON	STA	STA	STA
DESKCON	STA	STA	STA	STA
DESKCON A	DESKCON B	Split charging to DESKCON A and DESKCON B	DESKCON B	DESKCON A

STA : Station  
DESKCON: Desk Console

Specify whether to provide the SMDR service for incoming calls without Account Code.	(1) 426: SMDR for incoming call (2) 0 : Not provided 1◀: To provide
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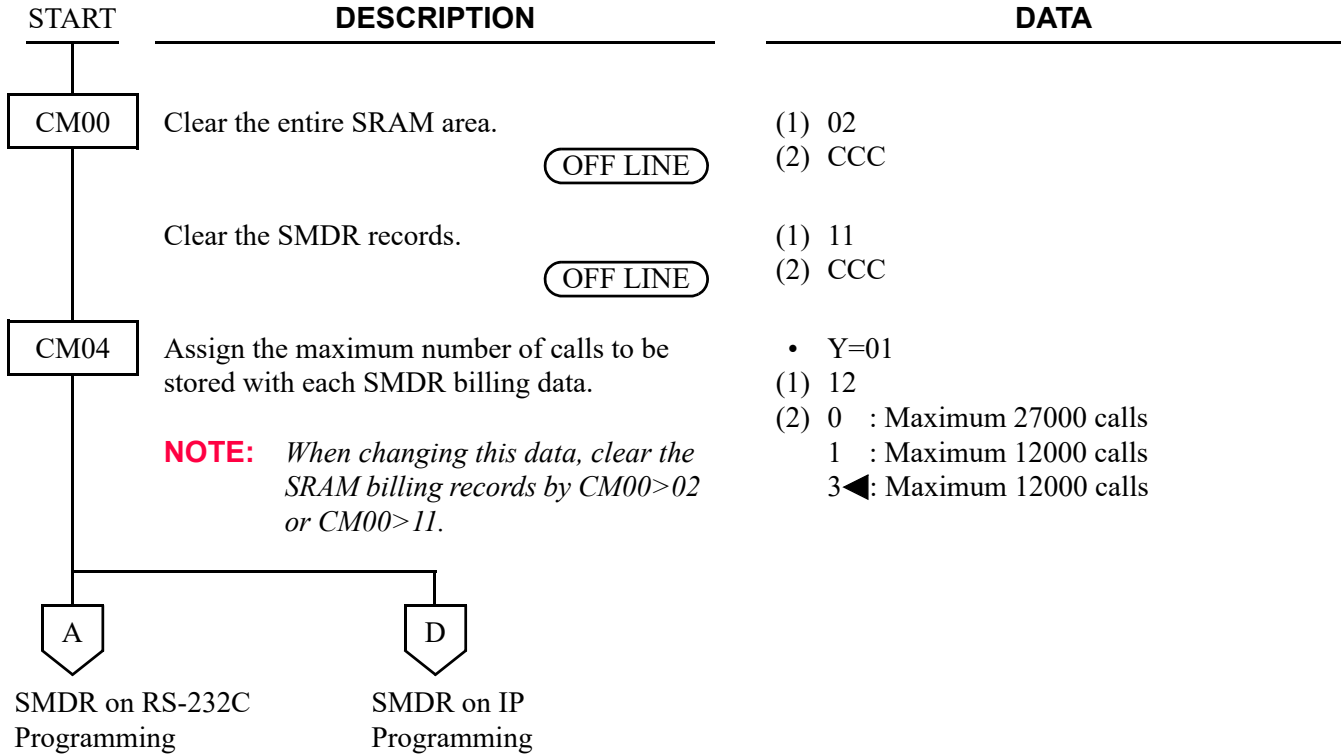
B

	DESCRIPTION	DATA
B		
CM08	<p>Specify whether the ANI/Caller ID is sent to SMDR.</p> <p><b>NOTE 1:</b> <i>When providing incoming calls with ANI, assign this data in addition to the programming for AUTOMATIC NUMBER IDENTIFICATION (ANI).</i> <a href="#">Page 1-99</a></p> <p><b>NOTE 2:</b> <i>When this data is assigned to 1, SMDR service for incoming calls is not provided even if CM13 Y=05 is 0 (To provide).</i></p> <p>Select the calling party information for SMDR when the station call or incoming call to the virtual station (CM11) is transferred by Call Forwarding-All Calls/Busy Line/No Answer-Outside.</p> <p><b>NOTE:</b> <i>When the second data of CM08&gt; 849 is set to 1, originating station number/incoming trunk number is sent to SMDR.</i></p>	<p>(1) 463: ANI/Caller ID to SMDR            (2) 0 : To send            1◀: Not sent</p> <p>(1) 849            (2) 0 : Virtual station (CM11)            1◀: Calling Station or Trunk</p>
CM12	Assign tenant number to each station.	<ul style="list-style-type: none"> <li>• Y=04</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-63: Tenant No.                01◀ : Tenant No.</li> </ul>
CM13	<p>Provide the SMDR service for outgoing calls to the required stations.</p> <p>Provide the SMDR service for incoming calls to the required stations.</p>	<ul style="list-style-type: none"> <li>• Y=06</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Not provided                1◀: To provide</li> <li>• Y=05</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To provide                1◀: Not provided</li> </ul>
C		

C	DESCRIPTION	DATA
CM30	Assign tenant number to each trunk.	<ul style="list-style-type: none"> <li>• Y=01 Tenant Allocation</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00-63: Tenant No.</li> <li>01◀: Tenant No.</li> </ul>
CM35	<p>Provide the SMDR service for outgoing calls to the required trunk routes.</p> <p>Assign a trunk access code sent to SMDR for outgoing calls.</p> <p>Provide the SMDR service for incoming calls to the required trunk routes.</p>	<ul style="list-style-type: none"> <li>• Y=014</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Not provided</li> <li>1◀: To provide</li> </ul> <ul style="list-style-type: none"> <li>• Y=044</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00-99: Trunk access code</li> </ul> <ul style="list-style-type: none"> <li>• Y=049</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : To provide</li> <li>1◀: Not provided</li> </ul>
<u>END</u>		

## SRAM of CPU Programming

To store the billing data of the SMDR to SRAM, do the following programming.



SMDR on RS-232C Programming:

A	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">CM04</div>	<p>Assign the billing data to be output via RS-232C ports.</p> <p><b>NOTE:</b> <i>To clear the stored billing data via SMDR on IP, execute by CM04 Y=61&gt;99: CCC.</i></p> <p>Specify the Message Format for SMDR on RS-232C according to the SMDR terminal specification.</p> <p><b>NOTE 1:</b> <i>To output Call Station time, set the second data to 2.</i></p> <p><b>NOTE 2:</b> <i>This format should be supported by the application for collecting SMDR data.</i></p>	<ul style="list-style-type: none"> <li>• Y=60</li> <li>(1) 00: Station-to-Station call 01: Outgoing trunk call 02: Abandoned outgoing trunk call 03: Incoming trunk call 04: Abandoned incoming trunk call 05: Abandoned incoming trunk call during station is busy 06: Tandem call 07: Abandoned Station to Station call</li> <li>(2) 0 : Available 1◀: Not available</li> </ul> <ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 07: Message Format for SMDR on RS-232C</li> <li>(2) 00 : Extended 2400 IMS Format 01 : Extended 2400 IMS Format (with Trunk seizure timer) <b>NOTE 2</b> 02 : Extended 2400 IMS Format (with Trunk seizure timer and Call Station timer) <b>NOTE 2</b> 15◀: Former 2400 IMS Format</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">CM40</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;">B</div>	<p>Specify the function for the RS ports.</p> <p><b>NOTE:</b> <i>When a port is used for SMDR, assign the 2nd data=14. When a port is used for both MCI and SMDR, assign the 2nd data=11.</i></p> <p>Assign the attribute data for RS ports according to the SMDR terminal specifications.</p>	<ul style="list-style-type: none"> <li>• Y=00 Function</li> <li>(1) 0: Unit01 Port 1 1: Unit01 Port 2</li> <li>(2) 11: MCI and SMDR 14: SMDR</li> </ul> <ul style="list-style-type: none"> <li>• Y=01 Data length</li> <li>(1) 0: Unit01 Port 1 1: Unit01 Port 2</li> <li>(2) 0 : 7 bits 1◀: 8 bits</li> </ul>

	DESCRIPTION	DATA
<div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto; text-align: center; line-height: 30px;">B</div> <div style="border: 1px solid black; width: 80px; height: 30px; margin: 5px auto; text-align: center; line-height: 30px;">CM40</div> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto; text-align: center; line-height: 30px;">C</div>		<ul style="list-style-type: none"> <li>• Y=02 Parity check               <ul style="list-style-type: none"> <li>(1) 0: Unit01 Port 1 1: Unit01 Port 2</li> <li>(2) 0 : Effective 1◀: Ineffective</li> </ul> </li>   <li>• Y=03 Kind of parity               <ul style="list-style-type: none"> <li>(1) 0: Unit01 Port 1 1: Unit01 Port 2</li> <li>(2) 0 : Odd parity 1◀: Even parity</li> </ul> </li>   <li>• Y=04 Stop bit               <ul style="list-style-type: none"> <li>(1) 0: Unit01 Port 1 1: Unit01 Port 2</li> <li>(2) 0 : 1-stop bit 1◀: 2-stop bits</li> </ul> </li>   <li>• Y=05 DTR signal               <ul style="list-style-type: none"> <li>(1) 0: Unit01 Port 1 1: Unit01 Port 2</li> <li>(2) 0 : Low 1◀: High</li> </ul> </li>   <li>• Y=06 RTS signal               <ul style="list-style-type: none"> <li>(1) 0: Unit01 Port 1 1: Unit01 Port 2</li> <li>(2) 0 : Low 1◀: High</li> </ul> </li>   <li>• Y=08 Data speed               <ul style="list-style-type: none"> <li>(1) 0: Unit01 Port 1 1: Unit01 Port 2</li> <li>(2) 1 : 1200 bps 2 : 2400 bps 3 : 4800 bps 4 : 9600 bps 5 : 19200 bps NONE◀: 9600 bps</li> </ul> </li> </ul>

C	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for SMDR service for station to station calls to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15: Service Restriction Class A</li> </ul>
CM15	Allow SMDR service for station-to-station calls in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=213</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>
<u>END</u>		

## SMDR on IP Programming:

**NOTE:** The CPU blade (or the CPU blade in a Main Unit when Remote UNIT over IP feature is provided) communicates with the SMDR terminal. For the settings in the SMDR terminal side, set IP address assigned by CM0B Y=0XX/1XX>00 (or CM0B Y=0XX/1XX>50 when VLAN is provided) as a destination of the SMDR terminal, and set “60010” as the port number.

D	DESCRIPTION	DATA
CM04	Assign the billing data to be output via SMDR on IP.	<ul style="list-style-type: none"> <li>• Y=61</li> <li>(1) 00: Station-to-Station call</li> <li>01: Outgoing trunk call</li> <li>02: Abandoned outgoing trunk call</li> <li>03: Incoming trunk call</li> <li>04: Abandoned incoming trunk call</li> <li>05: Abandoned incoming trunk call during station is busy</li> <li>06: Tandem call</li> <li>07: Abandoned Station to Station call</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul>
	<p><b>NOTE:</b> To clear the stored billing data via SMDR on IP, execute by CM04 Y=61&gt;99: CCC.</p>	
	Specify the Message Format SMDR on IP according to the SMDR terminal specification.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 08: Message Format SMDR on IP</li> <li>(2) 00 : Extended 2400 IMS Format</li> <li>01 : Extended 2400 IMS Format (with Trunk seizure timer) <b>NOTE 2</b></li> <li>02 : Extended 2400 IMS Format (with Trunk seizure timer and Call Station timer) <b>NOTE 2</b></li> <li>15◀: Former 2400 IMS Format</li> </ul>
	<p><b>NOTE 1:</b> To output Call Station time, set the second data to 2.</p>	
	<p><b>NOTE 2:</b> This format should be supported by the application for collecting SMDR data.</p>	
CM0B	Assign the IP Address for the system.	<ul style="list-style-type: none"> <li>• Y=0XX (Maintenance Port [0] + Unit No. [01-50])</li> <li>1XX (VOIP Port [1] + Unit No. [01-50])</li> <li>(1) 00</li> <li>(2) XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: IP Address for the system (Maximum 15 digits)</li> </ul>
	<b>RESET</b>	
	<p><b>NOTE:</b> The second data must be entered including the periods (.)</p>	
E		



E	DESCRIPTION	DATA
CM0B	Assign the Subnet Mask for the system.	<ul style="list-style-type: none"> <li>• Y=0XX (Maintenance Port [0] + Unit No. [01-50]) 1XX (VOIP Port [1] + Unit No. [01-50])</li> <li>(1) 01</li> <li>(2) XXX.XXX.XXX.XXX: 255.0.0.0-255.255.255.252: Subnet Mask for the system (Maximum 15 digits)</li> </ul>
	RESET	
	<b>NOTE:</b> <i>The second data must be entered including the periods (.)</i>	
	Assign the Default Gateway Address for the system.	<ul style="list-style-type: none"> <li>• Y=0XX (Maintenance Port [0] + Unit No. [01-50]) 1XX (VOIP Port [1] + Unit No. [01-50])</li> <li>(1) 02</li> <li>(2) XXX.XXX.XXX.XXX: 0.0.0.0-255.255.255.254: Default Gateway Address for the system (Maximum 15 digits)</li> </ul>
	RESET	
	<b>NOTE 1:</b> <i>The second data must be entered including the periods (.)</i>	
<b>NOTE 2:</b> <i>There are the following conditions when setting the Default Gateway Address by this command.</i>		
<ul style="list-style-type: none"> <li>• <i>Only one Default Gateway Address can be set for the system.</i></li> <li>• <i>Set the Default Gateway Address to the Maintenance port (Y=0XX) when not using VoIPDB.</i></li> <li>• <i>Set the Default Gateway Address to the VOIP port (Y=1XX) when using VoIPDB.</i></li> </ul>		
Select the port for SMDR.	RESET	<ul style="list-style-type: none"> <li>• Y=001</li> <li>(1) 92</li> <li>(2) 0 : Maintenance Port 1 ◀: VOIP Port</li> </ul>
CM12	Assign Service Restriction Class A for SMDR service for station-to-station calls to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15: Service Restriction Class A</li> </ul>
	F	

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	<b>DESCRIPTION</b>	<b>DATA</b>
F		
CM15	Allow SMDR service for station-to-station calls in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"><li>• Y=213</li><li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li><li>(2) 0: Allow</li></ul>
CM08	Specify whether the SMDR output for tandem calls is divided into terminating trunk and originating trunk.	<ul style="list-style-type: none"><li>(1) 803</li><li>(2) 0 : To provide</li><li>1 ◀: Not provided (Originating trunk only)</li></ul>
<u>END</u>		

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## Abandoned Incoming Call Programming

To provide SMDR for abandoned incoming calls, do the following programming.

START	DESCRIPTION	DATA
CM08	Specify whether the SMDR service for incoming calls of each station (assigned by CM13 Y=05) is effective or not.  <b>NOTE:</b> <i>To provide the SMDR for abandoned incoming calls, assign the second data of CM08&gt;823 to 0 (Ineffective).</i>	(1) 823 (2) 0 : Ineffective 1◀: Effective
	Specify whether to send SMDR output of abandoned incoming call when no answer is received, if required.	(1) 833 (2) 0 : To send 1◀: Not sent
	Specify whether to send SMDR output of abandoned incoming call when an internal call is terminated from a trunk and the station/trunk is busy, if required.	(1) 848 (2) 0 : To send 1◀: Not sent
	Specify whether to send SMDR output of abandoned outgoing call, if required.	(1) 852 (2) 0 : To send 1◀: Not sent
	Specify whether to send SMDR output of abandoned station to station call, if required.  <b>NOTE:</b> <i>This command is effective when set as follows.</i> - SMDR on RS-232C: CM04 Y=60>07 is set to 0 and CM04 Y=01>07 is set to 02 - SMDR on IP: CM04 Y=61>07 is set to 0 and CM04 Y=01>08 is set to 02	(1) 1708 (2) 0 : Available 1◀: Not available
CM35	Specify whether to send SMDR output of abandoned incoming call to the trunk route, if required.	• Y=205 (1) 00-63: Trunk Route No. (2) 0 : To send 1◀: Not sent
END		

## External Printer Programming

START

DESCRIPTION

DATA

CM40

Assign the function of RS-232C ports.

**NOTE:** *This data setting of Port Location Number 4-7 is available when resetting the system or waiting for 10 minutes after this data setting.*

- Y=00
- (1) 0: Unit01 port1  
1: Unit01 port2  
4: Unit02 port1 **NOTE**  
5: Unit02 port2 **NOTE**  
6: Unit03 port1 **NOTE**  
7: Unit03 port2 **NOTE**
- (2) 20 : External printer for PMS  
NONE◀: No data

Assign the attribute data for External printer.

- Y=01-06, 08
- (1) See the following table.
- (2) See the following table.

◀: Default

Y		1st DATA		2nd DATA	
No.	MEANING	DATA	PORT LOCATION No.	DATA	MEANING
01	Data length	0	Unit01 Port 1	0	7 bit
		1	Unit01 Port 2	1◀	8 bit
02	Parity check	4	Unit02 Port 1	0	Effective
		5	Unit02 Port 2	1◀	Ineffective
		6	Unit03 Port 1		
03	Kind of parity	7	Unit03 Port 2	0	Odd parity
				1◀	Even parity
04	Stop bit			0	1-Stop bit
				1◀	2-Stop bit
05	DTR signal sent to terminal			0	Low
				1◀	High
06	RTS signal sent to terminal			0	Low
				1◀	High
08	Data speed			1	1200 bps
				2	2400 bps
				3	4800 bps
				4	9600 bps
				5	19200 bps
				NONE◀	9600 bps

A

A	DESCRIPTION	DATA
CM15	Specify whether to send detail information of Immediate Printout Call Record for the Printer.	<ul style="list-style-type: none"> <li>• Y=390</li> <li>(1) 00-15: Charging Station Class No. assigned by CM12 Y=45</li> <li>(2) 0 : To send</li> <li>1◀: Not sent</li> </ul>
CM08	Specify the printing way of call charge for ISDN calls.	<ul style="list-style-type: none"> <li>(1) 881</li> <li>(2) 0 : Information from ISDN network</li> <li>1◀: Built-in charge on CPU</li> </ul>
<u>END</u>	<p><b>NOTE:</b> <i>When the second data is set to "0", and the ISDN call charge is not notified, print out Built-in charge on CPU.</i></p>	

## STATION SPEED DIALING

(1) To provide Single Line Telephone or Multiline Terminal:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Station Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=007</li> <li>(1) 00-15: Service Restriction Class A</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign access codes for Station Speed Dialing Origination, Entry and Cancel, respectively.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A064: Origination A065: Entry A066: Cancel</li> </ul>
CM08	Specify whether to provide Toll Restriction for an outgoing call by Station Speed Dialing.	<ul style="list-style-type: none"> <li>(1) 035</li> <li>(2) 0 : Not provided 1◀: To provide</li> </ul>
	Specify whether to set “* #” dialing as a delimiter mark between the called number and the DTMF signal.	<ul style="list-style-type: none"> <li>(1) 448</li> <li>(2) 0 : “* #” is set as dialed digit 1◀: “* #” is set as a delimiter mark between called number and DTMF</li> </ul>
	Specify whether to set “#” dialing as paused data (1.5 seconds) or called number to C.O. line when Multiline Terminal dials “#” in the setting of Station Speed Dialing feature.	<ul style="list-style-type: none"> <li>(1) 168</li> <li>(2) 0 : Paused data (1.5 seconds) 1◀: Dialed digit</li> </ul>
	Specify “*” dialing is set as programmable pause by CM41 Y=0>38 or dialed digit when Multiline Terminal dials “*” in the setting of the Station Speed Dialing feature.	<ul style="list-style-type: none"> <li>(1) 171</li> <li>(2) 0 : Programmable pause by CM41 Y=0&gt;38 1◀: Dialed digit</li> </ul>
A		

A	DESCRIPTION	DATA
CM41	Assign the Programmable pause of Station Speed Dialing. <div style="text-align: center; border: 1px solid black; border-radius: 15px; padding: 2px 10px; display: inline-block;">BLADE RESET</div>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 38</li> <li>(2) 00-07: 1.5-12 seconds (1.5 second increments)</li> </ul> If no data is set, the default setting is 1.5 seconds.
CM73	Specify Station Speed Dialing for the usage of Speed Dialing memory for each 1000-Slot Memory Block.  Allocate a memory area for Station Speed Dialing.  <b>NOTE:</b> <i>Allocate a station-based memory area to each 1000-Slot Memory Block No. for which any data is not assigned by CM73 Y=0.</i>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00-99: 1000-Slot Memory Block No.</li> <li>(2) 0 : System Speed Dialing (for individual tenants)</li> <li>1 : System Speed Dialing (for all tenants) (Up to 10 blocks)</li> <li>NONE◀: Station Speed Dialing/One-touch Memory</li> </ul> <ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) WW XX YYY Z</li> <li>WW : 00-99: 1000-Slot Memory Block No.</li> <li>XX : 00-99: 10-Slot Memory Start Block No.</li> <li>YYY : 001-100: Number of 10-Slot Memory Blocks</li> <li>Z : Availability of programming for the dialed No. from the station: 0: Allowed 1: Not allowed</li> <li>NONE◀: No data</li> </ul>
B		

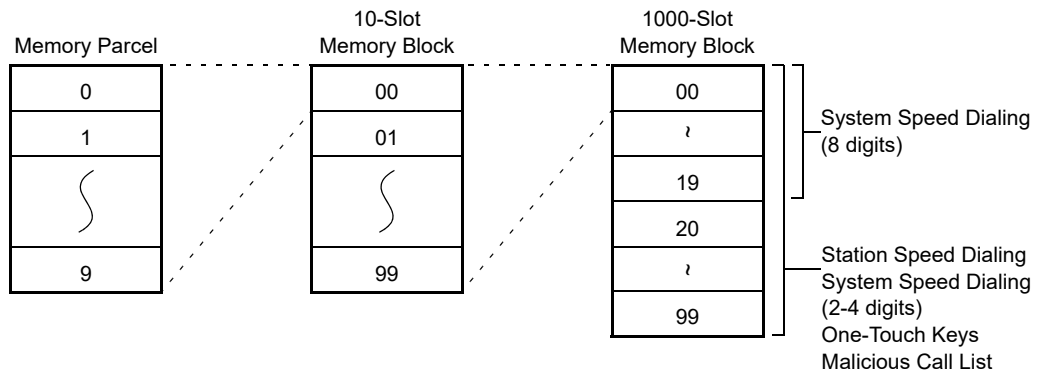
B

**DESCRIPTION**

**DATA**

CM73

- The relation among memory areas  
The memory area for storing a called number for Speed Dialing is called a “Memory Parcel”. An assembly of 10 Memory Parcels is called a “10-Slot Memory Block,” and one hundred 10-Slot Memory Blocks are called a “1000-Slot Memory Block”.



- How to assign a 10-Slot Memory Start Block No.  
**Example:** If the desired number of Speed Dialing memory parcels is 10 for Station No. 300, 20 for Station No. 301, 30 for Station No. 302 and 10 for Station No. 303, respectively, assign the memory areas as below.

Station No.	1000-Slot Memory Block No.	10-Slot Memory Start Block No.	Number of 10-Slot Memory Block
300	00	00	1
301	00	01	2
302	00	03	3
303	00	06	1

C



C

**DESCRIPTION**

**DATA**

CM73

- About abbreviated codes

The abbreviated codes for this feature are automatically determined by assigning this command, on a station basis.

If the number of Memory Parcels per station does not exceed 10, then the Abbreviated Code is 0-9.

If the number of Memory Parcels per station exceeds 10, then the Abbreviated Code is 00-99.

The following figure shows the relation between Abbreviated Codes and Memory Parcels.

In the case of 10 Memory Parcels

Memory Parcel Number	(Abbreviated Code)
0	0
1	1
2	2
3	3
4	4
5	5
∴	∴
9	9

10-Slot Memory Block

In the case of 20 Memory Parcels

Memory Parcel Number	(Abbreviated Code)
0	00
1	01
∴	∴
9	09
0	10
1	11
∴	∴
9	19

10-Slot Memory Block

D

D	DESCRIPTION	DATA
CM74	Assign the number to be dialed to each Memory Slot number.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX YY Z XX: 00-99: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No.</li> <li>(2) Called Party No.: Trunk Access Code (Maximum 4 digits) + <input type="checkbox"/> + Called Party No. (Maximum 26 digits) To set a pause into the Called Party No., enter “C” (Fixed Pause=1.5 seconds) or “D” (Programmable Pause specified by CM41 Y=0&gt;38) after desired digits. NONE◀: No data</li> </ul>
	Assign the station name to be displayed on Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) XX YY Z XX: 00-99: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name by entering with character codes (Maximum 32 digits, 16 characters) NONE◀: No data See APPENDIX A: Character Code Table. <a href="#">Page A-2</a></li> <li>• Y=2</li> <li>(1) XX YY Z XX: 00-99: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name by entering with characters from PCPro/CAT (Maximum 16 characters) NONE◀: No data</li> </ul>
E		

E	DESCRIPTION	DATA
CM74	Assign the Called Party Name to be displayed on Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=4               <ol style="list-style-type: none"> <li>(1) XX YY Z                    XX: 00-99: 1000-Slot Memory Block No.                    YY: 00-99: 10-Slot Memory Block No.                    Z : 0-9: Memory Parcel No.</li> <li>(2) XXX...X: Called Party Name by entering with character codes (Maximum 32 digits: 16 characters) (for Russian)                    See APPENDIX A: Character Code Table for Russian. <a href="#">Page A-3</a></li> </ol> </li> <li>• Y=6               <ol style="list-style-type: none"> <li>(1) XX YY Z                    XX: 00-99: 1000-Slot Memory Block No.                    YY: 00-99: 10-Slot Memory Block No.                    Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name in Simplified Chinese (Maximum 8 two-byte characters)                    NONE◀: No data</li> </ol> </li> <li>• Y=7               <ol style="list-style-type: none"> <li>(1) XX YY Z                    XX: 00-99: 1000-Slot Memory Block No.                    YY: 00-99: 10-Slot Memory Block No.                    Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name in Traditional Chinese (Maximum 8 two-byte characters)                    NONE◀: No data</li> </ol> </li> </ul>
F		

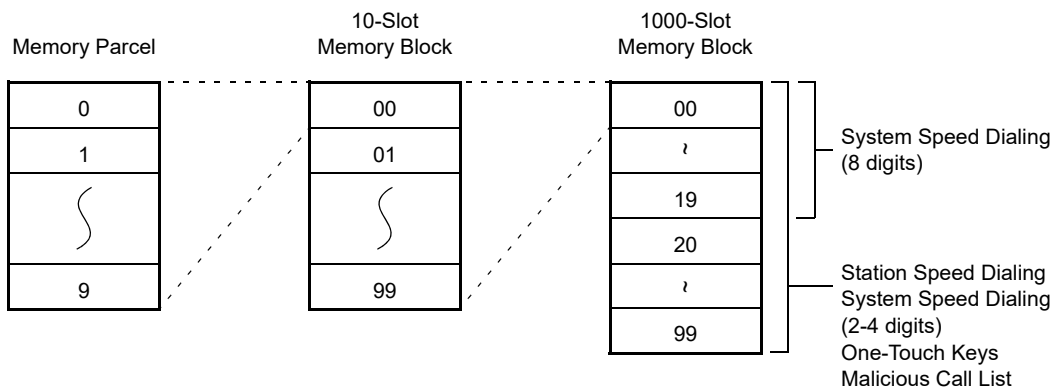
F	DESCRIPTION	DATA
CM90	<p>Assign Station Speed Dialing keys on each Multiline Terminal, if required.</p> <p><b>NOTE 1:</b> For detail of Multiline Terminal key layout set by CM12 Y=24, refer to the Command Manual.</p> <p><b>NOTE 2:</b> The Station Speed Dialing numbers 00-99 in the second data correspond to the 100 blocks beginning with the 10-Slot Memory Start Block No. assigned by CM73 Y=1.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F11XX</li> <li>XX: 00-99: Station Speed Dialing 00-99</li> </ul>
END		

(2) To provide Multiline Terminal with One Touch keys:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ</li> <li>XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Station Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=007</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM08	<p>Specify whether to provide Toll Restriction for an outgoing call by Station Speed Dialing.</p> <p>Specify whether to set “#” dialing as paused data (1.5 seconds) or called number to C.O. line when Multiline Terminal dials “#” in the setting of Station Speed Dialing feature.</p>	<ul style="list-style-type: none"> <li>(1) 035</li> <li>(2) 0 : Not provided</li> <li>1◀: To provide</li> <li>(1) 168</li> <li>(2) 0 : Paused data (1.5 seconds)</li> <li>1◀: Dialed digit</li> </ul>
A		

A	DESCRIPTION	DATA
CM08	<p>Specify whether to set “*” dialing as programmable pause by CM41 Y=0&gt;38 or dialed digit when Multiline Terminal dials “*” in the setting of Station Speed Dialing feature.</p> <p>Send additional DTMF signals when called station answers, if assigning station number or outside number and additional DTMF signals to One-Touch key on Multiline Terminal.</p>	<p>(1) 171                      (2) 0 : Programmable pause by CM41 Y=0&gt;38                      1◀: Dialed digit</p> <p>(1) 427                      (2) 0 : To send                      1◀: Not sent</p>
CM41	<p>Assign the pause for Station Speed Dialing.</p> <p style="text-align: center;"><b>BLADE RESET</b></p>	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> <p>(1) 38                      (2) 00-07: 1.5-12 seconds                      (1.5 second increments)</p> <p>If no data is set, the default setting is 1.5 seconds.</p>
CM94	<p>Allocate the memory area for Station Speed Dialing by Multiline Terminal One Touch keys to each station.</p>	<p>(1) X-XXXXXXXX: My Line No.                      (2) WW XX YYY Z</p> <p>WW : 00-99: 1000-Slot Memory Block No.                      XX : 00-99: 10-Slot Memory Start Block No.                      YYY : 001-010: Number of 10-Slot Memory Blocks                      Z : 0/1: Facility for programming the dialed number from the station Effective/Ineffective</p> <p>NONE◀: No data</p>

**NOTE:** For 1000-Slot Memory Block to which any data is not assigned by CM73 Y=0, allocate a station-based memory area using this command.



END

- (3) To provide the One Touch key to send “Hooking Signal + Called Number” to a Centrex, set the following data in addition to the programming (2).

START	DESCRIPTION	DATA
CM20	Assign the access code for sending of a Hooking signal to a Centrex.  <b>NOTE:</b> <i>Maximum of two digits are available.</i>	<ul style="list-style-type: none"> <li>Y=0-3</li> <li>(1) X-XXXX: Access code</li> <li>(2) A158: Hooking signal to a Centrex</li> </ul>
CM90	Assign a Recall key on the Multiline Terminal. Recall key is used to return to a former line.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No. (90)</li> <li>(2) F1015◀: Recall</li> </ul>
CM35	Provide Centrex trunk route with Centrex function.	<ul style="list-style-type: none"> <li>Y=086</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
END		

- (4) To provide the One Touch key to send “Called Number + DTMF Signal” for such as VMS operation when the called number includes a trunk access code, set the following data in addition to the programming (2).

**NOTE:** *If the called number includes no trunk access code, this data is not required.*

START	DESCRIPTION	DATA
CM08	Specify whether to set “* #” dialing as a delimiter mark between the called number and the DTMF signal.	<ul style="list-style-type: none"> <li>(1) 448</li> <li>(2) 0 : “* #” is set as dialed digit</li> <li>1◀: “* #” is set as a delimiter mark between called number and DTMF signal</li> </ul>
END		



# STEP CALL

## PROGRAMMING

START	DESCRIPTION	DATA
CM08	<p>Provide the system with the Step Call feature.</p> <p>Provide Step Call for an incoming call from a Tie Line.</p> <p>Restrict dialing of a Single Digit Feature Access code while the calling station hears busy tone.</p> <p><b>NOTE:</b> <i>This feature is mutually exclusive with the single digit feature access code.</i></p>	<p>(1) 069: For internal Call  (2) 1◀: Available</p> <p>(1) 163: For Tie Line incoming call  (2) 1◀: Available</p> <p>(1) 208 <b>NOTE</b>  (2) 1◀: Not available</p>
END		



# ***SUPERVISORY CONTROL OF PERIPHERAL EQUIPMENT***

## **PROGRAMMING**

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM13</div>	Provide the station connected to the peripheral equipment with momentary reversal/open capability.	<ul style="list-style-type: none"> <li>• Y=22</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: To provide</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

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## *SYSTEM CLOCK SETUP BY STATION DIALING*

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### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to a required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow System Clock Setup by Station Dialing in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=130</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>
CM20	Assign the access code for System Clock Setup by Station Dialing.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A197: System Clock Setup by Station Dialing</li> </ul>
CM90	Assign a System Clock Setup by Station Dialing key to Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0A97: System Clock Setup by Station Dialing</li> </ul>
END		

# SYSTEM SPEED DIALING

## PROGRAMMING

To provide System Speed Dialing with 2-4 digit-abbreviated code, do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow System Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=006 System Speed Dialing</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the Access Code for System Speed Dialing.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A067: System Speed Dialing origination (2-4 digits)</li> </ul>
CM90	Assign an access key for System Speed Dialing to the Multiline Terminals, if required.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0067: System Speed Dialing origination (2-4 digits)</li> </ul>
CM73	Specify System Speed Dialing for each 1000 Slot memory Block of Speed Dialing memory.	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) 00-99: 1000-Slot Memory Block No.</li> <li>(2) 0 : System Speed Dialing (for individual tenants)</li> <li>1 : System Speed Dialing (for all tenants) (Up to 10 blocks)</li> <li>NONE◀: Station Speed Dialing/One-touch Memory</li> </ul>
A		

A	DESCRIPTION	DATA
CM73	<p>Allocate a memory area for System Speed Dialing</p> <p><b>NOTE:</b> <i>Allocate a tenant-based memory area to each 1000-Slot Memory Block No. assigned as System Speed Dialing (for individual tenants) by CM73 Y=0.</i></p>	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 00-63: Tenant No.</li> <li>(2) WW XX YYYY Z <ul style="list-style-type: none"> <li>WW : 00-99: 1000-Slot Memory Block No.</li> <li>XX : 00-99: 10-Slot Memory Start Block No.</li> <li>YYYY : 0001-1000: Number of 10-Slot Memory Blocks</li> <li>Z : 0: To allocate memory area only for individual tenants 1: To allocate both memory areas for individual tenants and for all tenants</li> <li>FFFFFFFF: To allocate only common memory area for all tenants.</li> <li>NONE◀ : No data</li> </ul> </li> </ul>
CM74	<p>Assign a Called Party Number to be stored for each Memory Slot number.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX YY Z <ul style="list-style-type: none"> <li>XX: 00-99: 1000-Slot Memory Block No.</li> <li>YY: 00-99: 10-Slot Memory Block No.</li> <li>Z : 0-9: Memory Parcel No.</li> </ul> </li> <li>(2) Called Party No.: <ul style="list-style-type: none"> <li>Trunk Access Code (Maximum 1-4 digits) + [ ] + Called Party No. (Maximum 26 digits)</li> <li>To set a pause into the Called Party No., enter "C" (Fixed Pause=1.5 seconds) or "D" (Programmable Pause specified by CM41 Y=0&gt;38) after desired digits.</li> <li>NONE◀: No data</li> </ul> </li> </ul>
B		

B	DESCRIPTION	DATA
CM74	Assign a Called Party Name to be displayed on Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=1               <ol style="list-style-type: none"> <li>(1) XX YY Z                    XX: 00-99: 1000-Slot Memory Block No.                    YY: 00-99: 10-Slot Memory Block No.                    Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name                    (Maximum 16 characters) by entering with character codes.                    See APPENDIX A: Character Code Table. <a href="#">Page A-2</a></li> </ol> <p>NONE◀: No data</p> </li> <li>• Y=2               <ol style="list-style-type: none"> <li>(1) XX YY Z                    XX: 00-99: 1000-Slot Memory Block No.                    YY: 00-99: 10-Slot Memory Block No.                    Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name (MAX. 16 characters) by entering from PC-Pro/CAT.</li> </ol> <p>NONE◀: No data</p> </li> <li>• Y=4               <ol style="list-style-type: none"> <li>(1) XX YY Z                    XX: 00-99: 1000-Slot Memory Block No.                    YY: 00-99: 10-Slot Memory Block No.                    Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name in Russian (Maximum 16 characters) by entering with Russian character codes.                    See APPENDIX A: Character Code Table for Russian.  <a href="#">Page A-3</a></li> </ol> <p>NONE◀: No data</p> </li> </ul>
C		

C	DESCRIPTION	DATA
CM74	Assign a Called Party Name to be displayed on Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=6</li> <li>(1) XX YY Z XX: 00-99: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name in Simplified Chinese (Maximum 8 two-byte characters) NONE◀: No data</li> </ul>
CM08	Specify System Speed Dialing security. (Stored number displays on Multiline Terminal for an outgoing call by System Speed Dialing.)	<ul style="list-style-type: none"> <li>• Y=7</li> <li>(1) XX YY Z XX: 00-99: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name in Traditional Chinese (Maximum 8 two-byte characters) NONE◀: No data</li> </ul>
CM04	Specify Toll Restriction for an outgoing call by System Speed Dialing, if required.	<ul style="list-style-type: none"> <li>(1) 043</li> <li>(2) 0 : Not displayed 1◀: To display</li> </ul>
CM04	Specify Trunk Restriction Class for System Speed Dialing	<ul style="list-style-type: none"> <li>(1) 044</li> <li>(2) 0 : Not provided 1◀: To provide</li> </ul>
CM04	<p><b>NOTE 1:</b> <i>This data is common to Day Mode, Night Mode, A Mode and B Mode.</i></p> <p><b>NOTE 2:</b> <i>Assign a class in which C.O. line calls are allowed.</i> * <i>This data is also used for C.O. line calls to other offices via CCIS.</i></p>	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 18: Trunk Restriction Class for System Speed Dialing</li> <li>(2) 1 : Unrestricted (RCA) 2 : Non-Restricted 1 (RCB) 3 : Non-Restricted 2 (RCC) 4 : Semi-Restricted 1 (RCD) 5 : Semi-Restricted 2 (RCE) 6 : Restricted 1 (RCF) 7 : Restricted 2 (RCG) 8 : Fully-Restricted (RCH) NONE◀: As per Trunk Restriction Class for Station (CM12 Y=01)</li> </ul>
D		

D	DESCRIPTION	DATA
CM15	Select Trunk Restriction Class for System Speed Dialing	<ul style="list-style-type: none"> <li>• Y=232</li> <li>(1) 00-15: Service Restriction Class A</li> <li>(2) 0 : As per Trunk Restriction Class for Station (CM12 Y=01)</li> <li>1 ◀: As per Trunk Restriction Class for System Speed Dialing (CM04 Y=01 1st data=18)</li> </ul>
<u>END</u>	<p><b>NOTE:</b> <i>Assign 2nd data=1 to a station for which "System Speed Dialing Origination" is allowed, and 2nd data=0 to a station on which the "System Speed Dialing Origination" is restricted.</i></p>	

**NOTE:** *For Trunk Restriction Class setting, see [Page 1-214](#). For C.O. line calls to other office via CCIS, Trunk Restriction Class data setting in the destination office is also required in addition to the originating office setting above.*

To provide System Speed Dialing with 8 digit-code, do the following programming.

START	DESCRIPTION	DATA
CM73	Specify System Speed Dialing for each 1000 Slot memory Block of Speed Dialing memory.	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) 00-19: 1000-Slot Memory Block No.</li> <li>(2) 0 : System Speed Dialing (for individual tenants)</li> <li>1 : System Speed Dialing (for all tenants) (Up to 10 blocks)</li> <li>NONE◀: Station Speed Dialing/One-touch Memory</li> </ul>
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ</li> <li>XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow System Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=006 System Speed Dialing</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM42	Specify the number of digits for the abbreviated code of System Speed Dialing origination.	<ul style="list-style-type: none"> <li>(1) 77</li> <li>(2) 01-08 : 1-8 digits</li> <li>NONE◀: 4 digits</li> </ul>
CM20	Assign the Access Code for System Speed Dialing.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A243: System Speed Dialing origination (1-8 digits Abbreviated Code: depends on CM42&gt;77)</li> </ul>
CM90	Assign an access key for System Speed Dialing to the Multiline Terminals, if required.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F0B43: System Speed Dialing origination (1-8 digits Abbreviated Code)</li> </ul>
A		



A	DESCRIPTION	DATA
CM74	Assign a Called Party number to be stored for each Memory slot number.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX YY Z XX: 00-19: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No.</li> <li>(2) Called Party No.: Trunk Access Code (Maximum 4 digits) + <input type="text"/> + Called Party No. (Maximum 26 digits) To set a pause into the Called Party No., enter “C” (Fixed Pause=1.5 seconds) or “D” (Programmable Pause specified by CM41 Y=0&gt;38) after desired digits. NONE◀: No data</li> </ul>
	Assign a Called Party Name to be displayed on Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) XX YY Z XX: 00-19: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name (Maximum 32 digits, 16 characters) by entering with character codes NONE◀: No data See APPENDIX A: Character Code Table. <a href="#">Page A-2</a></li> </ul>
		<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) XX YY Z XX: 00-19: 1000-Slot Memory Block No. YY: 00-99: 10-Slot Memory Block No. Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name (Maximum 16 characters) by entering from PCPro/CAT NONE◀: No data</li> </ul>
B		

B	DESCRIPTION	DATA
CM74	Assign a Called Party Name to be displayed on Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=4               <ol style="list-style-type: none"> <li>(1) XX YY Z                    XX: 00-03: 1000-Slot Memory Block No.                    YY: 00-99: 10-Slot Memory Block No.                    Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name (Maximum 32 digits: 16 characters) by entering with Character Codes (for Russian)                    NONE◀: No data                    See APPENDIX A: Character Code Table for Russian. <a href="#">Page A-3</a></li> </ol> </li> <li>• Y=6               <ol style="list-style-type: none"> <li>(1) XX YY Z                    XX: 00-19: 1000-Slot Memory Block No.                    YY: 00-99: 10-Slot Memory Block No.                    Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name in Simplified Chinese (Maximum 8 two-byte characters)                    NONE◀: No data</li> </ol> </li> <li>• Y=7               <ol style="list-style-type: none"> <li>(1) XX YY Z                    XX: 00-19: 1000-Slot Memory Block No.                    YY: 00-99: 10-Slot Memory Block No.                    Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name in Traditional Chinese (Maximum 8 two-byte characters)                    NONE◀: No data</li> </ol> </li> </ul>
C		

C

**DESCRIPTION**

**DATA**

CM74

Assign an Abbreviated code (up to 8 digits) to each Block number of System Speed Dialing where a Called Party Number has been assigned in CM74 Y=0.

- Y=5
- (1) X-XXXXXXXX: Abbreviated Code  
X: 0-9
- (2) XX YY Z  
 XX : 00-19: 000-Slot Memory Block No.  
 YY : 00-99: 10-Slot Memory Block No.  
 Z : 0-9 :Memory Parcel No.  
 NONE◀: No data

**NOTE 1:** Memory area of System Speed Dialing with 1-8 digits abbreviated code is also used as the memory area of Station Speed Dialing and System Speed Dialing (2-4 digits). Do not assign the same Memory Slot number of System Speed Dialing with 1-8 digits abbreviated code (set by CM74 Y=0) as Memory Slot number of Station Speed Dialing (set by CM73 Y=1/2, CM94).

**NOTE 2:** Set the first data with the same number of digits that is assigned in CM42>77.

**NOTE 3:** An abbreviated code for System Speed Dialing (8 digits) can be arbitrarily assigned within the range from 0 to 99999999 by using this command. The maximum number of assignable abbreviated codes varies depending on the digit length. The following table shows the maximum number of patterns allowed based on the length of abbreviated code digits assigned.

The number of abbreviated code digits	The number of expansion patterns (The maximum number of assignable abbreviated codes)	
	Upper limit	Lower limit
1-4 digits	1000	
5 digits	9990	500
6 digits	9980	333
7 digits	9970	250
8 digits	9960	200

CM08

Specify System Speed Dialing security. (Stored number displays on Multiline Terminal for an outgoing call by System Speed Dialing.)

- (1) 043
- (2) 0 : Not displayed  
1◀: To display

D

D	DESCRIPTION	DATA
CM08	Specify Toll Restriction for an outgoing call by System Speed Dialing, if required.	(1) 044 (2) 0 : Not provided 1◀: To provide
CM04	Specify Trunk Restriction Class for System Speed Dialing  <b>NOTE 1:</b> <i>This data is common to Day Mode, Night Mode, A Mode and B Mode.</i>  <b>NOTE 2:</b> <i>Assign a class in which C.O. line calls are allowed.</i> <i>* This data is also used for C.O. line calls to other offices via CCIS.</i>	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 18: Trunk Restriction Class for System Speed Dialing</li> <li>(2) 1 : Unrestricted (RCA)</li> <li>2 : Non-Restricted 1 (RCB)</li> <li>3 : Non-Restricted 2 (RCC)</li> <li>4 : Semi-Restricted 1 (RCD)</li> <li>5 : Semi-Restricted 2 (RCE)</li> <li>6 : Restricted 1 (RCF)</li> <li>7 : Restricted 2 (RCG)</li> <li>8 : Fully-Restricted (RCH)</li> <li>NONE◀: As per Trunk Restriction Class for Station (CM12 Y=01)</li> </ul>
CM15	Select Trunk Restriction Class for System Speed Dialing  <b>NOTE:</b> <i>Assign 2nd data=1 to a station for which "System Speed Dialing Origination" is allowed, and 2nd data=0 to a station on which the "System Speed Dialing Origination" is restricted.</i>	<ul style="list-style-type: none"> <li>• Y=232</li> <li>(1) 00-15: Service Restriction Class A</li> <li>(2) 0 : As per Trunk Restriction Class for Station (CM12 Y=01)</li> <li>1◀: As per Trunk Restriction Class for System Speed Dialing (CM04 Y=01 1st data=18)</li> </ul>
<u>END</u>		

**NOTE:** For Trunk Restriction Class setting, see [Page 1-214](#).  
 For C.O. line calls to other office via CCIS, Trunk Restriction Class data setting in the destination office is also required in addition to the originating office setting above.

# TENANT SERVICE

## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign a Tenant number to each station.	<ul style="list-style-type: none"> <li>Y=04</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00 : Tenant No. 00 01◀-63: Tenant No. 01-63</li> </ul>
CM30	Assign a Tenant number to each trunk.	<ul style="list-style-type: none"> <li>Y=01</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00 : Tenant No. 00 01◀-63: Tenant No. 01-63</li> </ul>
CM29	Assign a Numbering Plan Group number to each Tenant.	<ul style="list-style-type: none"> <li>(1) 00-63: Tenant No.</li> <li>(2) 710-713 : Numbering Plan Group 0-3 NONE◀: Numbering Plan Group 0</li> </ul>
CM20	Assign required access codes for each Numbering Plan Group.  <b>NOTE:</b> <i>To provide a trunk route for each Tenant, assign the second data 300-323 (Tenant Block 00-23) to desired Trunk Route access code.</i>	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) Refer to Command Manual (CM20)</li> </ul>
CM23	When Tenant Block 00-23 is assigned by CM20, assign a trunk route and Tenant number to the Tenant Block.	<ul style="list-style-type: none"> <li>Y=00-23 Tenant Block 00-23</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 100-163: Trunk Route 00-63</li> </ul>
CM62	Specify the Tenants to be handled by each ATT Group.	<ul style="list-style-type: none"> <li>Y=0-3 ATT Group 0-3 assigned by CM60 Y=00</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : To handle 1◀: Not handled</li> </ul>
	(RESET)	
A		

A	DESCRIPTION	DATA
CM63	Specify whether Inter-Tenant connection is available for TAS Answer, station to station calling and Incoming Call Termination.	<ul style="list-style-type: none"> <li>• Y=0 TAS Answer               <ul style="list-style-type: none"> <li>(1) XX ZZ                    XX: 00-63: Tenant No. of TAS Answer Station                    ZZ : 00-63: Tenant No. of Trunk</li> <li>(2) 0 : Allow                    1◀: Restricted</li> </ul> </li> <li>• Y=1 Station-to-Station Calling               <ul style="list-style-type: none"> <li>(1) XX ZZ                    XX: 00-63: Tenant No. of Calling Station                    ZZ : 00-63: Tenant No. of Called Station</li> <li>(2) 0 : Restricted                    1◀: Allow</li> </ul> </li> <li>• Y=2 Incoming Call Termination               <ul style="list-style-type: none"> <li>(1) XX ZZ                    XX: 00-63: Tenant No. of Called Station                    ZZ : 00-63: Tenant No. of Trunk</li> <li>(2) 0 : Restricted                    1◀: Allow</li> </ul> </li> </ul>
<u>END</u>		

To provide an External Key (To use the PGD(2)-U10 ADP):

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the DLC blade.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
	<div style="border: 1px solid black; border-radius: 15px; padding: 2px 10px; display: inline-block;">BLADE RESET</div>	
	<p><b>NOTE:</b> <i>When the PGD(2)-U10 ADP is accommodated to the Remote Unit, execute the system data copy by CMEC Y=8 before executing the blade reset.</i></p>	
CM10	Assign the station number connected to PGD(2)-U10 ADP to its associated Physical Port number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
CM12	Assign the Kind of PGD(2)-U10 station for external relay/external key.	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 3: External relay/external key only</li> </ul>
	<p><b>NOTE:</b> <i>After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</i></p>	
	Specify the External Key group number.	<ul style="list-style-type: none"> <li>• Y=66</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 00-63◀: External Key Group No.</li> </ul>
CM13	For the station connected to PGD (2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> </ul>
	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when answering a station call.	<ul style="list-style-type: none"> <li>• Y=41</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.	<ul style="list-style-type: none"> <li>• Y=49</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
<div style="border: 1px solid black; width: 40px; height: 30px; margin: 0 auto; text-align: center; line-height: 30px;">A</div>		

A

**DESCRIPTION****DATA**

For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when answering a trunk call.

- Y=60
- (1) X-XXXXXXXXX: Station No.
- (2) 1: Not stored

For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.

- Y=61
- (1) X-XXXXXXXXX: Station No.
- (2) 1: Not stored

Allow the accommodation of PGD(2)-U10 ADP.

- Y=63
- (1) X-XXXXXXXXX: Station No.
- (2) 0: To accommodate

**BLADE RESET**

**NOTE 1:** Set this data only for a Base Port No. (Circuit No. 01) of DLC blade.

**NOTE 2:** Whether the following equipment can be accommodated to the same DLC blade or not depends on this data.

- When the second data is set to "0"

Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/PGD(2)-U10 ADP

Unaccommodatable: DESKCON

- When the second data is set to "1"

Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/DESKCON

Unaccommodatable: PGD(2)-U10 ADP

**NOTE 3:** When the second data is set to 0, and accommodating DT300/DT400 series DESI-less to the same DLC blade to which PGD(2)-U10 ADP is accommodated, the Line Key of the DT300/DT400 series DESI-less does not light up (however, Character Display or Icon Display on the DESI-less screen is provided).

CM61

To provide external keys for Day/Night Mode change or Class of Service change, assign a Tenant number to the External Key.

- Y=00
- (1) XX Z
  - XX: 00-63: External key Group No. assigned by CM12 Y=66
  - Z : 0/1: Circuit No.
- (2) 00-63: Tenant No.

END

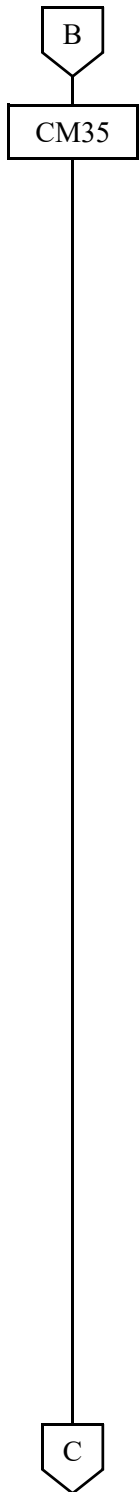


# TIE LINES

## PROGRAMMING

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the ODT blade. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 31: ODT blade</li> </ul>
CM10	Assign a trunk number for the ODT blade to the required Physical Port number. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) D000-D511: Trunk No.</li> </ul>
CM20	Assign a trunk route access code to each Tie Line trunk route.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) 100-163: Trunk Route 00-63 (01/02)</li> </ul>
CM30	Assign a trunk route and tenant number to each trunk. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00-63: Trunk Route No. (01/02)</li> </ul>
CM35	Assign trunk route data to the trunk route number assigned by CM30 Y=00. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>Y=01</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 00-63: Tenant No. (00/00) 01◀ : Tenant No.</li> </ul>
	<p><b>NOTE:</b> All circuits in one ODT blade must be set to same type interface (2-wire or 4-wire).</p>	<ul style="list-style-type: none"> <li>Y=105 2-wire E&amp;M/4-wire E&amp;M Trunk <b>BLADE RESET</b></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : 2-wire E&amp;M Trunk 1◀ : 4-wire E&amp;M Trunk</li> </ul>
A		

A	DESCRIPTION	DATA		
CM35		<ul style="list-style-type: none"> <li>• Y=104 Polarity of E&amp;M Trunk               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1 : E wire (Open), M wire (Open), Signaling (Type V)</li> <li>2 : E wire (Ground), M wire (Battery), Signaling (Type I)</li> <li>3◀: E wire (Ground), M wire (Ground), Signaling (Type V/Type II)</li> </ol> </li>   <li>• Y=000 Kind of Trunk Route               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No. (01/02)</li> <li>(2) 04: Tie Line</li> </ol> </li>   <li>• Y=001               <div style="text-align: right; border: 1px solid black; border-radius: 10px; padding: 2px; display: inline-block; margin-right: 20px;">BLADE RESET</div> <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No. (01/02)                   <table style="margin-left: 40px; border-collapse: collapse;"> <tr> <td style="padding: 0 10px;">&lt; Incoming &gt;</td> <td style="padding: 0 10px;">&lt; Outgoing &gt;</td> </tr> </table> </li> <li>(2) 2 : DP-10PPS      DP-10PPS</li> <li>4 : DTMF              DTMF</li> <li>7◀: DP/DTMF        DTMF</li> </ol> </li>   <li>• Y=002 IC/OG               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No. (01/02)</li> <li>(2) 1 : Incoming trunk</li> <li>2 : Outgoing trunk</li> <li>3◀: Bothway trunk</li> </ol> </li>   <li>• Y=004 Answer Signal from distant office               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No. (01/02)</li> <li>(2) 2 : Answer signal arrives</li> <li>7◀: No answer signal arrives</li> </ol> </li>   <li>• Y=005 Release Signal from distant office               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No. (01/02)</li> <li>(2) 1◀: Release signal arrives</li> </ol> </li>   <li>• Y=008 Sending of Dial Pulse               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No. (01/02)</li> <li>(2) 3◀: Dial pulses are sent out</li> </ol> </li> </ul>	< Incoming >	< Outgoing >
< Incoming >	< Outgoing >			
B				



**DESCRIPTION**

**DATA**

Assign the appropriate data for the characteristic of the distant PBX.

- Y=009 Incoming Connection Signaling  
BLADE RESET
  - (1) 00-63: Trunk Route No. (01/02)
  - (2) 03: Wink Start  
 04: Delay Dial  
 05: Immediate Start  
 06: 2nd Dial Tone/Timing Start
- Y=010 2nd DT sending on call termination
  - (1) 00-63: Trunk Route No. (01/02)
  - (2) 0 : Not sent  
 1◀: To send
- Y=013 Maximum Number of Sending Digits
  - (1) 00-63: Trunk Route No.
  - (2) 001-254: 1-254 digits

If no data is set, sender is released when time out occurs or the called station answers.
- Y=020 Sender start condition  
BLADE RESET
  - (1) 00-63: Trunk Route No. (01/02)
  - (2) 00 : Wink Start  
 01 : Delay Dial  
 15◀: Timing Start (Prepause per CM35 Y=021)

The above data should be set to each route according to the data for CM35 Y=009, as shown below.

<u>Data for</u> CM35 Y=009	→	<u>Data for</u> CM35 Y=020
03	→	00
04	→	01
05	→	15
06	→	15

C	DESCRIPTION	DATA
CM35	If CM35 Y=001 is set to 2, assign the data for the DP Sender Characteristics.	<ul style="list-style-type: none"> <li>• Y=021 Sender Prepause Timing</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00 : 0 second</li> <li>01 : 0.5 seconds</li> <li>02 : 1.0 second</li> <li>03 : 1.5 seconds</li> <li>04 : 2.0 seconds</li> <li>05 : 2.5 seconds</li> <li>06 : 4.0 seconds</li> <li>07 : 5.0 seconds</li> <li>08 : 6.0 seconds</li> <li>09 : 7.0 seconds</li> <li>10 : 8.0 seconds</li> <li>11 : 9.0 seconds</li> <li>12 : 10.0 seconds</li> <li>13 : 11.0 seconds</li> <li>14 : 12.0 seconds</li> <li>15◀: 3.0 seconds</li> </ul>
	BLADE RESET	<ul style="list-style-type: none"> <li>• Y=023 DP Sender Inter-Digital Pause</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : 300 ms.</li> <li>1 : 400 ms.</li> <li>2 : 500 ms.</li> <li>3 : 600 ms.</li> <li>4 : 700 ms.</li> <li>5 : 900 ms.</li> <li>6 : 1100 ms.</li> <li>7◀: 800 ms.</li> </ul>
	<b>NOTE:</b> <i>This command is available for LDT/ODT.</i>	<ul style="list-style-type: none"> <li>• Y=025 DP Make Ratio <b>NOTE</b></li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : 39 % Make Ratio</li> <li>1◀: 33 % Make Ratio</li> </ul>
D		

D	DESCRIPTION	DATA
CM35	<p>If CM35 Y=001 is set to 4, assign data for the DTMF Sender Characteristics.</p> <p>Specify the desired Station Ringing Cadence for Tie Lines.</p> <p><b>[North America Only]</b></p> <p><b>NOTE:</b> <i>To make this data assignment effective, enter the data "1" for CM08&gt;180.</i></p>	<ul style="list-style-type: none"> <li>• Y=024 DTMF Inter-Digital Pause               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : 32 ms.</li> <li>1 : 64 ms.</li> <li>2 : 80 ms.</li> <li>3 : 96 ms.</li> <li>4 : 160 ms.</li> <li>5 : 192 ms.</li> <li>6 : 240 ms.</li> <li>7◀: 128 ms.</li> </ol> </li> <li>• Y=026 DTMF Signal Width               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : 64 ms.</li> <li>1◀: 128 ms.</li> </ol> </li> <li>• Y=046 DP/DTMF Release Timing               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : 2 seconds</li> <li>1 : 4 seconds</li> <li>2 : 6 seconds</li> <li>3 : 8 seconds</li> <li>4 : 12 seconds</li> <li>5 : 14 seconds</li> <li>6 : 16 seconds</li> <li>7◀: 10 seconds</li> </ol> </li> <li>• Y=033 Ringing Cadence               <ol style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 2 : 1 second ON-2 seconds OFF</li> <li>3◀: 2 seconds ON-4 seconds OFF</li> </ol> </li> </ul>
E		

E

CM35

**DESCRIPTION**

Specify the Ringer Tone Pattern of the Multi-line Terminal to each trunk route.

**DATA**

- Y=034, 164 Ringer Tone Pattern
- (1) 00-63: Trunk Route No.
- (2) See the table below.

◀: Default

<b>Y=034</b>	<b>Y=164: 0</b>	<b>Y=164: 1</b> ◀
0	Ringer Tone Pattern 3	Ringer Tone Pattern 0
1	Ringer Tone Pattern 6	Ringer Tone Pattern 1
2	Ringer Tone Pattern 5	Ringer Tone Pattern 2
3 ◀	Ringer Tone Pattern 4	Ringer Tone Pattern 7

CM65

Specify the ring frequency of the Multiline Terminal corresponding with the ringer tone pattern number.

- Y=40
- (1) 00-63: Tenant No. assigned by CM30  
Y=01/CM12 Y=04
- (2) See the table below.

◀: Default

<b>Ringer Tone Pattern No.</b>	<b>Y=40: 0</b>	<b>Y=40: 1</b> ◀
1	Ringer Tone 1	520 + 660 [Hz]/8 [Hz] Modulating Signal
2	Ringer Tone 2	660 + 760 [Hz]/16 [Hz] Modulating Signal
3	Ringer Tone 3	1100 [Hz] Envelop
4	Ringer Tone 4	540 [Hz]
5	Ringer Tone 5	1100 [Hz]
6	Not used	1400 + 1100 [Hz]
7	Not used	520 + 660 [Hz]/16 [Hz] Modulating Signal

**NOTE 1:** When using music ring with DT900/DT500 Series, use CM13 Y=99 and CM64 Y=20-27.

**NOTE 2:** When this data is set or changed, a reset of the terminal is required to reflect the settings of CM64 Y=20-27 for DT900/DT500 Series.

F

F	DESCRIPTION	DATA
CM64	Specify the ring frequency of DT900/DT500 Series corresponding with the ringer tone pattern number. <b>[9300V7 software required]</b>	<ul style="list-style-type: none"> <li>• Y=20-27</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 15 : Music Ring 1 <b>Note 2</b></li> <li>16 : Music Ring 2 <b>Note 2</b></li> <li>17 : Music Ring 3 <b>Note 2</b></li> <li>NONE◀ : As per CM65 Y=40</li> </ul>
	<b>NOTE 1:</b> This command is effective only for DT900/DT500 Series. For other Multiline Terminals, use CM65 Y=40.	
	<b>NOTE 2:</b> For music ring unsupported terminals, follow the setting of CM65 Y=40.	
	<b>NOTE 3:</b> A reset of the terminal is required when this data is set or changed for DT900/DT500 Series.	
CM13	Assign the music ring feature to each station. <b>[9300V7 software required]</b>	<ul style="list-style-type: none"> <li>• Y=99</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul>
	<b>NOTE 1:</b> This command is effective only for DT900/DT500 Series.	
	<b>NOTE 2:</b> Be sure to set this data to "1" (Not available) for music ring unsupported terminals.	
	<b>NOTE 3:</b> When music ring is not used, set this data to "1" (Not available) even for music ring supported terminals.	
	<b>NOTE 4:</b> Music ring can be used regardless of this command when music ring is set by the terminal operation ( <b>Feature</b> key + 3) or on a terminal menu.	
CM63	Specify the incoming call termination to different tenants is allowed.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) XX ZZ                XX: 00-63: Tenant No. of called station                ZZ : 00-63: Tenant No. of Trunk Route</li> <li>(2) 0 : Restricted</li> <li>1◀: Allowed</li> </ul>
END		

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## ***TIE LINE TANDEM SWITCHING***

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### **PROGRAMMING**

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM36</div>	Specify the combination of trunk routes allowing the Tandem Connection.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ                XX: 00-63: Incoming Trunk Route                ZZ : 00-63: Outgoing Trunk Route</li> <li>(2) 0: Allow</li> </ul>
END	<p><b>NOTE:</b> <i>The incoming trunk route must provide a release signal for the Tandem Connection. (See CM35 Y=005 in the Command Manual)</i></p>	

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### **HARDWARE REQUIRED**

ODT blade



# TIMED FORCED RELEASE

## PROGRAMMING

START	DESCRIPTION	DATA
CM35	<p>Provide the outgoing trunk route with forced release in designated time.</p> <p>Provide the incoming trunk route with forced release in designated time.</p>	<ul style="list-style-type: none"> <li>• Y=247</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul> <ul style="list-style-type: none"> <li>• Y=248</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
CM41	<p>Specify the warning SST sending timer for forced release, to Timer A, B and C respectively.</p> <p><b>NOTE:</b> <i>Set the time from the start of communications to the warning SST is sent. Forced release is executed at 16 seconds later from the warning SST is sent.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 114: Timer A 115: Timer B 116: Timer C</li> <li>(2) 01-99 : 64-6336 seconds (64 second increments)</li> <li>NONE◀: No data</li> </ul>
CM12	<p>Specify the warning SST sending timer for forced release to the required stations.</p> <p><b>NOTE:</b> <i>This data is effective when the forced release is provided to the destination trunk route (CM35 Y=247 and CM35 Y=248 is set to 0).</i></p>	<ul style="list-style-type: none"> <li>• Y=61</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Depends on Timer A 1 : Depends on Timer B 2 : Depends on Timer C 3◀: Forced Release is not provided</li> </ul>
CM35	<p>Specify the warning SST sending timer for forced release to the incoming trunk route of tandem connection.</p> <p><b>NOTE:</b> <i>This data is effective when the forced release is provided to the outgoing trunk route of tandem connection (CM35 Y=247 is set to 0).</i></p>	<ul style="list-style-type: none"> <li>• Y=249</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Depends on Timer A 1 : Depends on Timer B 2 : Depends on Timer C 3◀: Forced Release is not provided</li> </ul>
A		

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A	DESCRIPTION	DATA
CM08	Specify whether to allow the operation of hooking/call holding after a station receives the warning SST.	(1) 664 (2) 0 : Allow 1◀: Restricted
	Specify whether to allow the shift from the communication between station and trunk to Conference (Three/Four Party) while the timer for forced release is in progress.	(1) 665 (2) 0 : Allow 1◀: Restricted
<u>END</u>		

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## ***TIMED NOTIFICATION***

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### **PROGRAMMING**

To use the Timed Notification by Default Pattern:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CM02</div>	Assign the system clock data.	<ul style="list-style-type: none"> <li>(1) 0: Calendar Year</li> <li>(2) 2014-2099</li>   <li>(1) 1: Date</li> <li>(2) MM DD WW               <ul style="list-style-type: none"> <li>MM: 01-12 (Month)</li> <li>DD : 01-31 (Date)</li> <li>WW: 00 (Sun)</li> <li>      01 (Mon)</li> <li>      02 (Tue)</li> <li>      03 (Wed)</li> <li>      04 (Thu)</li> <li>      05 (Fri)</li> <li>      06 (Sat)</li> </ul> </li>   <li>(1) 2: Time</li> <li>(2) HH MM SS               <ul style="list-style-type: none"> <li>HH : 00-23 (Hour)</li> <li>MM: 00-59 (Minute)</li> <li>SS : 00-59 (Second)</li> </ul> </li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content;">A</div>		

A

CM4A

## DESCRIPTION

Assign the Default Pattern number to each tenant to simplify the schedule assignment, if required.

See “Default Pattern of Time Schedule”.

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**NOTE 1:** *When CM4A Y=90 is assigned, previously assigned system data is overwritten.*

**NOTE 2:** *The schedule of each Default Pattern can be changed after the Default Pattern has been assigned.*

Assign the time and the alarm group that start sounding the alarm.

**NOTE 1:** *The time of time schedule is specified in units of 5 minutes. Set the last one digit of the “Minute” of the first data in units of 0 or 5 (truncation).*

**NOTE 2:** *The service set by this command and the service such as Day/Night Mode change set by CM4A Y=20-27 can be started up at the same time.*

## DATA

- Y=90
- (1) 00-63: Tenant No.
- (2) 00: Default Pattern No. 0  
01: Default Pattern No. 1  
02: Default Pattern No. 2  
03: Default Pattern No. 3

- Y=30 (Time Schedule No. 0 [2nd Service])
- Y=31 (Time Schedule No. 1 [2nd Service])
- Y=32 (Time Schedule No. 2 [2nd Service])
- Y=33 (Time Schedule No. 3 [2nd Service])
- Y=34 (Time Schedule No. 4 [2nd Service])
- Y=35 (Time Schedule No. 5 [2nd Service])
- Y=36 (Time Schedule No. 6 [2nd Service])
- Y=37 (Time Schedule No. 7 [2nd Service])
- (1) XX ZZ: Time  
XX: 00-23: Hour  
ZZ : 00-55: Minute **NOTE**
- (2) 00 : Calling Station for Time Notification Group 01  
01 : Calling Station for Time Notification Group 02  
02 : Calling Station for Time Notification Group 03  
03 : Calling Station for Time Notification Group 04  
NONE◀: No service

B

B	DESCRIPTION	DATA
CM57	Assign the alarm group to each station.	<ul style="list-style-type: none"> <li>• Y=35</li> <li>(1) XX Z: Time XX: 01-04: Alarm Group No. 1-4 Z : 1-8: Registration No.</li> <li>(2) X-XXXXXXXX: Station No.</li> </ul>
CM48	Assign the dummy station number for Timed Notification.  <b>NOTE 1:</b> <i>When registering an IP Multiline Terminal (DT700/DT800/DT900 Series/D<sup>term</sup>85 (Series i)/D<sup>term</sup>IP) in the alarm group (set by CM57 Y=35), be sure to set any station number.</i>  <b>NOTE 2:</b> <i>The station number assigned by this command cannot be used as an ordinary station.</i>	<ul style="list-style-type: none"> <li>• Y=9</li> <li>(1) 00: Dummy station number for Timed Notification</li> <li>(2) X-XXXXXXXX: Station No. NONE◀ : No data</li> </ul>
CM42	Set the volume of the alarm.  <b>NOTE:</b> <i>Normally, this data is not needed to assign.</i>	<ul style="list-style-type: none"> <li>(1) 214</li> <li>(2) 01 : -32 dB (Min.) 02 : -30 dB 03 : -28 dB ? (2 dB increment) 09 : -16 dB 10 : -14 dB 11 : -12 dB 12 : -10 dB 13 : -8 dB 14 : -6 dB (Max.) NONE◀: -12 dB</li> </ul>
<u>END</u>		

To use the Timed Notification by Calendar:

START	DESCRIPTION	DATA
CM02	Assign the system clock data.	(1) 0: Calendar Year (2) 2014-2099  (1) 1: Date (2) MM DD WW MM: 01-12 (Month) DD : 01-31 (Date) WW: 00 (Sun) 01 (Mon) 02 (Tue) 03 (Wed) 04 (Thu) 05 (Fri) 06 (Sat)
CM4A	Assign the calendar number to each tenant number/system.	• Y=00 (1) 00-63: Tenant No. 100 : System (2) 00 : Calendar No. 1 01 : Calendar No. 2 02 : Calendar No. 3 03 : Calendar No. 4 CCC : Data clear NONE◀: Ineffective
A		

A	DESCRIPTION	DATA
CM4A	<p>Assign the week schedule number to the date to change schedule, in each calendar number assigned by CM4A Y=00.</p> <p><b>NOTE 1:</b> <i>The schedule not related to the weekly schedule (such as no-business day) shall be “Peculiar Day”, and the time schedule can be set directory for the month and the date.</i></p> <p><b>NOTE 2:</b> <i>This command is shared by Automatic Day/Night Mode Change, Automatic RC/DND Mode Select, Do Not Disturb-Group, Room Cut-off-Group and Ecology Mode.</i></p>	<ul style="list-style-type: none"> <li>• Y=01 Calendar No. 1</li> <li>• Y=02 Calendar No. 2</li> <li>• Y=03 Calendar No. 3</li> <li>• Y=04 Calendar No. 4</li> </ul> <p>(1) XX ZZ: Date  XX: 01-12: Month  ZZ : 01-31: Date</p> <p>(2) 10 : Week Schedule No. 0  11 : Week Schedule No. 1  12 : Week Schedule No. 2  13 : Week Schedule No. 3  20 : Peculiar Day Time Schedule No. 0  21 : Peculiar Day Time Schedule No. 1  22 : Peculiar Day Time Schedule No. 2  23 : Peculiar Day Time Schedule No. 3  24 : Peculiar Day Time Schedule No. 4  25 : Peculiar Day Time Schedule No. 5  26 : Peculiar Day Time Schedule No. 6  27 : Peculiar Day Time Schedule No. 7  CCC : Data clear  NONE◀: Week Schedule No. 0</p>
B		

B

CM4A

## DESCRIPTION

Assign the time schedule number to each day in the week schedule assigned by CM4A Y=01-04.

**NOTE:** *This command is shared by Automatic Day/Night Mode Change, Automatic RC/DND Mode Select, Do Not Disturb-Group, Room Cut-off-Group and Ecology Mode.*

Assign the time of the time schedule and the alarm group that start sounding the alarm.

**NOTE 1:** *The time of time schedule is specified in units of 5 minutes. Set the last one digit of the "Minute" of the first data in units of 0 or 5 (truncation).*

**NOTE 2:** *The service set by this command and the service such as Day/Night Mode change set by CM4A Y=20-27 can be started up at the same time.*

## DATA

- Y=10 Week Schedule No. 0
- Y=11 Week Schedule No. 1
- Y=12 Week Schedule No. 2
- Y=13 Week Schedule No. 3

- (1) 0: Sunday  
 1: Monday  
 2: Tuesday  
 3: Wednesday  
 4: Thursday  
 5: Friday  
 6: Saturday
- (2) 20 : Time Schedule No. 0  
 21 : Time Schedule No. 1  
 22 : Time Schedule No. 2  
 23 : Time Schedule No. 3  
 24 : Time Schedule No. 4  
 25 : Time Schedule No. 5  
 26 : Time Schedule No. 6  
 27 : Time Schedule No. 7  
 CCC : Data clear  
 NONE◀: Time Schedule No. 0

- Y=30 (Time Schedule No. 0 [2nd Service])
- Y=31 (Time Schedule No. 1 [2nd Service])
- Y=32 (Time Schedule No. 2 [2nd Service])
- Y=33 (Time Schedule No. 3 [2nd Service])
- Y=34 (Time Schedule No. 4 [2nd Service])
- Y=35 (Time Schedule No. 5 [2nd Service])
- Y=36 (Time Schedule No. 6 [2nd Service])
- Y=37 (Time Schedule No. 7 [2nd Service])

- (1) XX ZZ: Time  
 XX: 00-23: Hour  
 ZZ : 00-55: Minute **NOTE**
- (2) 00 : Calling Station for Time Notification Group 01  
 01 : Calling Station for Time Notification Group 02  
 02 : Calling Station for Time Notification Group 03  
 03 : Calling Station for Time Notification Group 04  
 NONE◀: No service

C



C	DESCRIPTION	DATA
CM57	Assign the alarm group to each station.	<ul style="list-style-type: none"> <li>• Y=35</li> <li>(1) XX Z: Time XX: 01-04: Alarm Group No. 1-4 Z : 1-8: Registration No.</li> <li>(2) X-XXXXXXXX: Station No.</li> </ul>
CM48	Assign the dummy station number for Timed Notification.  <b>NOTE 1:</b> <i>When registering an IP Multiline Terminal (DT700/DT800/DT900 Series/D<sup>term</sup>85 (Series i)/D<sup>term</sup>IP) in the alarm group (set by CM57 Y=35), be sure to set any station number.</i>  <b>NOTE 2:</b> <i>The station number assigned by this command cannot be used as an ordinary station.</i>	<ul style="list-style-type: none"> <li>• Y=9</li> <li>(1) 00: Dummy station number for Timed Notification</li> <li>(2) X-XXXXXXXX: Station No. NONE◀: No data</li> </ul>
CM42	Set the volume of the alarm.  <b>NOTE:</b> <i>Normally, this data is not needed to assign.</i>	<ul style="list-style-type: none"> <li>(1) 214</li> <li>(2) 01 : -32 dB (Min.) 02 : -30 dB 03 : -28 dB ? (2 dB increment) 09 : -16 dB 10 : -14 dB 11 : -12 dB 12 : -10 dB 13 : -8 dB 14 : -6 dB (Max.) NONE◀: -12 dB</li> </ul>
<u>END</u>		

# TIMED QUEUE

## PROGRAMMING

START	DESCRIPTION	DATA
CM41	Specify the timer data for Timed Queue feature.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 35: Number of Times of Call Attempt</li> <li>(2) 01-07: 1-7 times</li> <li>If no data is set, the default setting is 3 times.</li> <li>(1) 36: Interval time of Call Attempt</li> <li>(2) 11-31: 44-124 seconds</li> <li>(4 second increments)</li> <li>If no data is set, the default setting is 120-124 seconds.</li> <li>(1) 37: Duration of Calling</li> <li>(2) 05-31: 20-124 seconds</li> <li>(4 second increments)</li> <li>If no data is set, the default setting is 32 seconds.</li> </ul>
CM90	Assign the Call Back feature to the required key on the Multiline Terminals, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0004: Call Back</li> </ul>
END		

## HARDWARE REQUIRED

Multiline Terminal and DLC blade

# TIMED REMINDER

## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Timed Reminder to required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Timed Reminder in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=013 Guest station</li> <li>• Y=020 Administrative station allowing single Timed Reminder operation</li> <li>• Y=021 Administrative station allowing multiple Timed Reminder operations</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
	Allow Voice Response System access (Record/Replay/Delete) in the Service Restriction Class A assigned by CM12 Y=02, if required.	<ul style="list-style-type: none"> <li>• Y=33</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Timed Reminder Set and Cancel.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A024: Timed Reminder Set from guest station A025: Timed Reminder Cancel from guest station A026: Timed Reminder check from guest station A027: Timed Reminder set from administrative station with Single Timed Reminder operation A028: Timed Reminder set from administrative station with Multiple Timed Reminder operations</li> </ul>
A		

A	DESCRIPTION	DATA
CM90	Assign the Timed Reminder feature access key to a Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0024: Timed Reminder set/reset from guest station</li> <li>F0026: Timed Reminder check from guest station</li> <li>F0027: Timed Reminder set/reset from administrative station with Single Timed Reminder operation</li> <li>F0028: Timed Reminder set/reset from administrative station with Multiple Timed Reminder operations</li> </ul>
CM08	Specify the timing for Timed Reminder Start.	<ul style="list-style-type: none"> <li>(1) 228: Timed Reminder Start timing</li> <li>(2) 0 : At preset time</li> <li>1◀: Before 5 minutes of preset time</li> </ul>
CM41	Specify the ringing duration of a Timed Reminder call.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 23</li> <li>(2) 02-14: 8-56 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 28-32 seconds.</p>
CM42	Specify the number of Timed Reminder attempts before abandonment.	<ul style="list-style-type: none"> <li>(1) 03</li> <li>(2) 01-05 : 1-5 calls</li> <li>NONE◀: 5 calls</li> </ul>
CM42	Specify the maximum number of Timed Reminder calls at the same time.	<ul style="list-style-type: none"> <li>(1) 181</li> <li>(2) 01-32 : 1-32 calls</li> <li>NONE◀: No limit</li> </ul>
CM08	Specify the operation for the case where the number of required Timed Reminder settings exceeds the limitation assigned by CM42>181.	<ul style="list-style-type: none"> <li>(1) 850</li> <li>(2) 0 : Set it to one minute ahead</li> <li>1◀: Restricted</li> </ul>
B		

B	DESCRIPTION	DATA		
CM08	Specify the tone source of Wake Up Call/Timed Reminder Canceled.	(1) 1876 (2) 0 : Service Set Tone (SST) 1◀: Speech Synthesis		
	<p><b>NOTE:</b> <i>When using Speech Synthesis (CM08&gt;1876:1), it is necessary that the second data of CM48 Y=1&gt;00 is set to 0400 (Speech Synthesis).</i></p>			
CM48	Specify the type of tone source for Timed Reminder.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) 00: Tone source of Timed Reminder</li> <li>(2) 0000: No Tone</li> <li>0200: External Tone Source</li> <li>0400: Speech Synthesis</li> <li>0500: Voice Response System</li> <li>1301: External Hold Tone Source</li> <li>1400: Hold Tone Source on CPU blade</li> <li>1500: Internal Tone Generator</li> </ul>		
	<p><b>NOTE 1:</b> <i>When the second data is set to 0200, the tone source for IP terminals is set to Hold Tone Source on CPU.</i></p>			
	<p><b>NOTE 2:</b> <i>When the second data is set to 1301/1400/1500/NONE, the tone source for each IP terminal is set as shown below.</i></p> <ul style="list-style-type: none"> <li>- IP Terminal (other than Standard SIP terminal): Tone Source on the Terminal.</li> <li>- For Standard SIP terminal: As per hold tone source setting for Standard SIP terminals (CM08&gt;1007 and CM13 Y=74).</li> </ul>			
	Specify the type of guide announcement source when setting Wake Up Call/Timed Reminder.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) 02:</li> <li>(2) 1000 : Service Set Tone (SST)</li> <li>NONE◀: Speech Synthesis</li> </ul>		
	<p><b>[9300V3 software required]</b></p>			
CM48 Y=1>00: 0200 (External Tone Source)	CM48 Y=1>00: 0400 (Speech Synthesis)	CM48 Y=1>00: 0500 (Voice Response System)	CM48 Y=1>00: 1301 (External Hold Tone Source)	CM48 Y=1>00: 1400 (Hold Tone Source on CPU blade)
C	D	E	END	F
Page 1-818	Page 1-821	Page 1-823		Page 1-825

C	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the DLC blade.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
	<b>BLADE RESET</b>	
	<b>NOTE:</b> <i>When the PGD(2)-U10 ADP is accommodated to the Remote Unit, execute the system data copy by CMEC Y=8 before executing the blade reset.</i>	
CM10	Assign the station number connected to PGD(2)-U10 ADP to its associated Physical Port number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-16: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
CM13	For the station connected to PGD (2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> </ul>
	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when answering a station call.	<ul style="list-style-type: none"> <li>• Y=41</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.	<ul style="list-style-type: none"> <li>• Y=49</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when answering a trunk call.	<ul style="list-style-type: none"> <li>• Y=60</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.	<ul style="list-style-type: none"> <li>• Y=61</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
C1		

C1	DESCRIPTION	DATA
CM13	Allow the accommodation of PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=63</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To accommodate</li> <li>1 ◀: Not accommodated</li> </ul>
	<b>BLADE RESET</b>	
	<p><b>NOTE 1:</b> Set this data only for a Base Port No. (Circuit No. 01) of DLC blade.</p> <p><b>NOTE 2:</b> Whether the following equipment can be accommodated to the same DLC blade or not depends on this data.</p> <ul style="list-style-type: none"> <li>- When the second data is set to "0" <ul style="list-style-type: none"> <li>Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/PGD(2)-U10 ADP</li> <li>Unaccommodatable: DESKCON</li> </ul> </li> <li>- When the second data is set to "1" <ul style="list-style-type: none"> <li>Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/DESKCON</li> <li>Unaccommodatable: PGD(2)-U10 ADP</li> </ul> </li> </ul> <p><b>NOTE 3:</b> When the second data is set to 0, and accommodating DT300/DT400 series DESI-less to the same DLC blade to which PGD(2)-U10 ADP is accommodated, the Line Key of the DT300/DT400 series DESI-less does not light up (however, Character Display or Icon Display on the DESI-less screen is provided).</p>	
CM12	Assign the kind of PGD(2)-U10 station (CH1).	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 3: External Tone Source</li> </ul>
	<p><b>NOTE:</b> After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</p>	
CM48	Specify the External Tone Source for Timed Reminder per Unit.	<ul style="list-style-type: none"> <li>• Y=8</li> <li>(1) 01-50: Unit No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No.</li> <li>NONE ◀ : Hold Tone Source on CPU blade</li> </ul>
CM41	Specify the Announcement duration of Timed Reminder.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 24</li> <li>(2) 02-99: 4-396 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 28-32 seconds.</p>
C2		

C2	DESCRIPTION	DATA
CM44	Assign the External Announcement to the PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX Y XX: 00-31: Relay Group No. Y : 0-3: Circuit No. of PGD(2)-U10 ADP</li> <li>(2) 01XX: External Announcement Machine Start 00 : External Announcement Machine for Timed Reminder</li> </ul>
	Associate the PGD(2)-U10 station number with the Relay Group number.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 00-31: Relay Group No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No. NONE◀ : No data</li> </ul>
CME5	Make the PGD(2)-U10 station busy to restrict a calling from the PGD(2)-U10 station.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: Make busy set</li> </ul>
<u>END</u>		



D

DESCRIPTION

DATA

CM04

Specify the Combination of Language Indicated number and speech synthesis language.

- Y=02
- (1) 1-9: Language Indicated No.
- (2) 01 : Japanese announcement
- 02 : English announcement
- 06 : Chinese announcement
- 08 : Korean announcement
- CCC : Clear
- NONE◀: English announcement

Assign the maximum number of channels for Speech synthesis and Voice Response System.

**NOTE:** *The number of channels for Voice Response System (default: 8 channels) is the difference calculated by subtracting the number of channels for Speech synthesis from the number of simultaneously usable channels (16 channels).*

- Y=10 (Unit No. 01)
- (1) 05
- (2) 00 : 0 channels for Speech synthesis, 16 channels for Voice Response System
- 01 : 1 channel for Speech synthesis, 15 channels for Voice Response System
- 02 : 2 channels for Speech synthesis, 14 channels for Voice Response System
- 03 : 3 channels for Speech synthesis, 13 channels for Voice Response System
- 04 : 4 channels for Speech synthesis, 12 channels for Voice Response System
- 05 : 5 channels for Speech synthesis, 11 channels for Voice Response System
- 06 : 6 channels for Speech synthesis, 10 channels for Voice Response System
- 07 : 7 channels for Speech synthesis, 9 channels for Voice Response System
- 08 : 8 channels for Speech synthesis, 8 channels for Voice Response System
- NONE◀: 8 channels for Speech synthesis, 8 channels for Voice Response System

D1

D1	DESCRIPTION	DATA
CM08	Specify whether to replay a message for Timed Reminder in English after replaying the first message.	(1) 894 (2) 0 : Available 1◀: Not available
	Specify whether to print out the language information on the Hotel Printer, when the Language Indicated number is set from the Hotel Console.	(1) 895 (2) 0 : Available 1◀: Not available
CM90	Assign the speech synthesis language setting function keys on the Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1074 : Set F1076 : Cancel F1079 : Language NONE◀: No data</li> </ul>
<u>END</u>	<p><b>NOTE:</b> <i>To set the speech synthesis language, refer to OPERATING PROCEDURE FOR SETTING SPEECH SYNTHESIS LANGUAGE.</i> <a href="#">📄 Page 1-355</a></p>	

E	DESCRIPTION	DATA
CM04	Assign the maximum number of channels for Speech synthesis and Voice Response System.	<ul style="list-style-type: none"> <li>• Y=10 (Unit No. 01)</li> <li>(1) 05</li> <li>(2) 00 : 0 channels for Speech synthesis, 16 channels for Voice Response System</li> <li>01 : 1 channel for Speech synthesis, 15 channels for Voice Response System</li> <li>02 : 2 channels for Speech synthesis, 14 channels for Voice Response System</li> <li>03 : 3 channels for Speech synthesis, 13 channels for Voice Response System</li> <li>04 : 4 channels for Speech synthesis, 12 channels for Voice Response System</li> <li>05 : 5 channels for Speech synthesis, 11 channels for Voice Response System</li> <li>06 : 6 channels for Speech synthesis, 10 channels for Voice Response System</li> <li>07 : 7 channels for Speech synthesis, 9 channels for Voice Response System</li> <li>08 : 8 channels for Speech synthesis, 8 channels for Voice Response System</li> <li>NONE◀: 8 channels for Speech synthesis, 8 channels for Voice Response System</li> </ul>
E1	<p><b>NOTE:</b> <i>The number of channels for Voice Response System (default: 8 channels) is the difference calculated by subtracting the number of channels for Speech synthesis from the number of simultaneously usable channels (16 channels).</i></p>	

E1	DESCRIPTION	DATA
CM49	Assign the function of the Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 0C XX: Answering Message on Timed Reminder XX: 00-63: Message No.</li> </ul>
	<b>NOTE:</b> <i>Assign CM49 Y=00: 17XX, if necessary.</i>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 17 XX: Voice Guide <b>NOTE</b> XX: 00-63: Message No.</li> </ul>
		<ul style="list-style-type: none"> <li>• Y=08</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 00-63: Message No. assigned by CM49 Y=00</li> </ul>
CM41	Specify the duration of message replay for Timed Reminder.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 52</li> <li>(2) 01-99: 4-396 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 60-64 seconds.</p>
CM49	Assign the restriction announcement for Timed Reminder to the VRS.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 1900: Restriction Announcement for Timed Reminder</li> </ul>
CM20	To record, replay, or delete a message, assign the appropriate Voice Response System access code.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A100: Record A101: Replay A102: Delete</li> </ul>
<u>END</u>		

F

CM48

END

**DESCRIPTION**

**DATA**

Set the music for Hold Tone.

**NOTE:** *This data setting is available only for Single Line Telephone/Digital Multiline Terminal. For IP Station, this data setting is not available. IP Station uses the tone source in IP Adapter (Minuet).*

- Y=3
- (1) 01
- (2) 00 : Nocturne
- 01 : Minuet
- 02 : Fur Elise
- 03 : The Maiden's Prayer
- 04 : When the saints go marching in
- 06 : Spring (by four seasons)
- 08 : Ich bin ein Musikante (German folk song)
- 10 : Amaryllis (French folk song)
- NONE◀: Minuet

To use the dual port mode, do the following programming (the following programming is not required only when using the single port mode).

START	DESCRIPTION	DATA
CM10	Assign the station number connected to PGD(2)-U10 ADP (CH2) to its associated Physical Port number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 17-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
	<p><b>NOTE:</b> <i>The setting of the Dual port mode is required when using 2 paging equipment on the PGD(2)-U10 ADP. For details, refer to “Setting Method of Port number/Station number in Dual port mode” in CM10 of the Command Manual.</i></p>	
CM12	Assign the kind of PGD(2)-U10 station (CH2).	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 3: External Tone Source</li> </ul>
	<p><b>NOTE:</b> <i>After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</i></p>	
CM13	For the station connected to PGD (2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> </ul>
	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when answering a station call.	<ul style="list-style-type: none"> <li>• Y=41</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.	<ul style="list-style-type: none"> <li>• Y=49</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when answering a trunk call.	<ul style="list-style-type: none"> <li>• Y=60</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
	For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.	<ul style="list-style-type: none"> <li>• Y=61</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
A		

A	DESCRIPTION	DATA
CM48	<p>Designate the type of tone source to be connected when answering a Timed Reminder call.</p> <p><b>NOTE:</b> <i>When IP Station is used, this data is not effective. In this case, the hold tone source on IP Station is used.</i></p> <p>Specify the External Tone Source for Timed Reminder per Unit.</p>	<ul style="list-style-type: none"> <li>• Y=1               <ol style="list-style-type: none"> <li>(1) 00: Tone Source of Timed Reminder</li> <li>(2) 0200: External Tone Source <b>NOTE</b></li> </ol> </li> <li>• Y=8               <ol style="list-style-type: none"> <li>(1) 01-50: Unit No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No.                    NONE◀ : Hold Tone Source on CPU blade</li> </ol> </li> </ul>
CM41	<p>Specify the Announcement duration of Timed Reminder.</p>	<ul style="list-style-type: none"> <li>• Y=0               <ol style="list-style-type: none"> <li>(1) 24</li> <li>(2) 02-99: 4-396 seconds (4 second increments)</li> </ol> <p>If no data is set, the default setting is 28-32 seconds.</p> </li> </ul>
CM44	<p>Assign the External Announcement to the PGD(2)-U10 ADP.</p> <p>Associate the PGD(2)-U10 station number with the Relay Group number.</p>	<ul style="list-style-type: none"> <li>• Y=00               <ol style="list-style-type: none"> <li>(1) XX Y                    XX: 00-31: Relay Group No.                    Y : 0-3: Circuit No. of PGD(2)-U10 ADP</li> <li>(2) 01XX: External Announcement Machine Start                    00 : External Announcement Machine for Timed Reminder</li> </ol> </li> <li>• Y=01               <ol style="list-style-type: none"> <li>(1) 00-31: Relay Group No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No.                    NONE◀ : No data</li> </ol> </li> </ul>
CM13	<p>Provide the connection with Dual port mode to the PGD(2)-U10 ADP (CH1).</p>	<ul style="list-style-type: none"> <li>• Y=32               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To connect                    1◀: Not connected</li> </ol> </li> </ul>
B		

B	DESCRIPTION	DATA
CM13	Set the port mode of the PGD(2)-U10 ADP (CH1) to Dual port mode.	<ul style="list-style-type: none"> <li>• Y=33</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Dual port mode</li> <li>1 ◀: Single port mode</li> </ul>
	<b>BLADE RESET</b>	
	Assign the station connected to Dual port mode of the PGD(2)-U10 ADP (CH2).	<ul style="list-style-type: none"> <li>• Y=34</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Station connected to Dual port mode of the PGD(2)-U10 ADP</li> <li>1 ◀: Station not connected to the PGD(2)-U10 ADP</li> </ul>
<u>END</u>		

**HARDWARE REQUIRED**

To provide the Internal Music Source:  
CPU blade

To provide the internal digital announcement source:  
CPU blade (VRS using a built-in Flash ROM)

To provide the External Announcement Machine:  
PGD(2)-U10 ADP  
External Announcement Machine



## TRUNK-DIRECT APPEARANCES

### PROGRAMMING

To provide Trunk-Direct Appearances on Analog trunk:

START	DESCRIPTION	DATA
CM30	<p>Assign the terminating system for required C.O. trunks to Trunk-Direct Appearances.</p> <p>Provide the Trunk-Direct Appearances feature to the required C.O. trunk assigned by CM30 Y=02.</p>	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> </ul> <p>(1) 000-511: Trunk No. (2) 02: Trunk-Direct Appearances</p> <ul style="list-style-type: none"> <li>• Y=18</li> </ul> <p>(1) 000-511: Trunk No. (2) 0: To provide</p>
CM90	<p>Assign the Trunk-Direct Appearances key to each Multiline Terminal, if required.</p> <p>Assign a Hold key for holding the Trunk-Direct Appearances call, to each Multiline Terminal, as required.</p> <p><b>NOTE:</b> <i>By this assignment, the held Trunk-Direct Appearances call can be transferred by voice call, and can be answered by the Trunk-Direct Appearances key on the destination station.</i></p>	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> <p>(1) My Line No. + [ ] + Key No. (2) D000-D511: Trunk No.</p> <ul style="list-style-type: none"> <li>• Y=00</li> </ul> <p>(1) My Line No. + [ ] + Key No. (2) F0058: Hold Key</p>
CM08	<p>Specify whether a Dial Tone is sent when the call is held by the Hold key for Trunk-Direct Appearances (CM90 Y=00&gt;F0058).</p> <p>Specify whether Hold Transfer for a trunk line placed in Consultation Hold is available or not.</p>	<p>(1) 365 (2) 0 : To send 1◀: Not sent</p> <p>(1) 161 (2) 0 : Available (Hold Transfer) 1◀: Not available (Consultation Hold)</p>
END		

To provide enhanced Trunk-Direct Appearances on Analog trunk:

START	DESCRIPTION	DATA
CM90	Assign the enhanced Hold key to each Multi-line Terminal.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. ++ Key No. (2) F0058: Hold Key
	Assign the Trunk Answer key.	(1) My Line No. + <input type="text"/> + Key No. (2) F0059: Trunk Answer Key
CM20	Assign the access code for Trunk Answer to be used for analog telephones.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A059: Trunk Answer
	Assign the access code for Trunk Hold to be used for analog telephones.	(1) X-XXXX: Access Code (2) A058: Trunk Hold
CM30	Assign the Trunk ID code for each C.O. trunk.	<ul style="list-style-type: none"> <li>Y=19</li> </ul> (1) 000-511: Trunk No. (2) XXXX: Trunk ID code
CM08	Assign Answer preference for enhanced Trunk-Direct Appearance.	(1) 114 (2) 0 : Display by 2-digit Trunk ID code (last two digits assigned by CM30 Y=19) 1◀: Display by 4-digit Trunk ID code (four digits assigned by CM30 Y=19)
CM51	Assign the destination of alternate Hot Recall for enhanced Trunk-Direct Appearance.	<ul style="list-style-type: none"> <li>Y=21</li> </ul> (1) 00-63: Tenant No. (2) X-XXXXXXXXX: Station No.
END		

**NOTE:** *If the incoming call is routed via the Internal Automated Attendant feature (VRS), the tenant number programmed in CM49 Y=01 must match the tenant number programmed in CM20 Y=01 for the incoming trunk.*

The table below shows the availability of the Hold key (CM90 Y=00: F0058) on each condition.

<b>Trunk-Direct Appearances (CM30 Y=18)</b>	<b>Trunk ID Code Assignment (CM30 Y=19)</b>	<b>Kind of Trunks</b>	<b>Trunk ID Code Display</b>	<b>Availability of Hold Key (CM90 Y=00: F0058)</b>
0 (Provide)	–	–	–	Available
1 (Not provided)	Not assigned	–	–	Not available
	Assign	CCIS trunk	–	Not available
		ISDN trunk	CM35 Y=146 is set to 0. (Trunk ID Code is displayed.)	Available
			CM35 Y=146 is set to 1. (Calling/called sub-address is displayed)	Not available
		Other trunks	CM35 Y=075 is set to 0. (DID incoming LDN is displayed.)	Not available
			CM35 Y=075 is set to 1. (Trunk ID Code is displayed.)	Available

To provide Trunk-Direct Appearances on ISDN BRI trunk:

**NOTE:** *ISDN Trunk Connection is required before setting following programming. For details, refer to "ISDN FEATURES" [Page 3-1](#)*

START	DESCRIPTION	DATA
CM30	Assign the terminating system for required C.O. trunks to Trunk-Direct Appearances.	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 02 : Trunk-Direct Appearances</li> <li>03 : Trunk-Direct Appearances+TAS</li> <li>06 : Direct-In Termination+Trunk-Direct Appearances</li> <li>11 : Attendant Console+Trunk-Direct Appearance</li> <li>12 : Attendant Console+Trunk-Direct Appearance+TAS</li> <li>31 ◀: DID, Tie Line and the call which is not handled by the PBX</li> </ul>
	Provide the Trunk-Direct Appearances feature to the required C.O. trunk assigned by CM30 Y=02.	<ul style="list-style-type: none"> <li>• Y=18</li> <li>(1) 000-511: Trunk No.</li> <li>(2) 0: To provide</li> </ul>
CM76	Assign the Number Conversion Block number for Development Table 0.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXX: DID No.</li> <li>(2) 000-999 : Number Conversion Block No.</li> <li>NONE ◀: No data</li> </ul>
	Assign the Number Conversion Block number for Development Table 1.	<ul style="list-style-type: none"> <li>• Y=90</li> <li>(1) X-XXXXXXXX: DID No.</li> <li>(2) 000-999 : Number Conversion Block No.</li> <li>NONE ◀: No data</li> </ul>
A		

A	DESCRIPTION	DATA
CM76	Assign the data for interpreting the digits received.	<ul style="list-style-type: none"> <li>• Y=01 Day Mode</li> <li>• Y=02 Night Mode</li> <li>• Y=03 Mode A</li> <li>• Y=04 Mode B</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) X-XXXXXXXX: Station No. to be terminated DXX: Change Terminating System to: D02: Trunk-Direct Appearances D03: Trunk-Direct Appearances+TAS D06: Direct-In Termination+Trunk-Direct Appearances
CM90	Assign a Trunk-Direct Appearances key to each Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) My Line No. + <input type="text"/> + Key No. (2) D000-D511: Trunk No.
CM35	Assign a trunk access code sent to SMDR for outgoing call.  <b>NOTE:</b> <i>This command is effective when CM35 Y=189 is not assigned.</i>  Assign a trunk access code for Trunk-Direct Appearances Multiline Operation.	<ul style="list-style-type: none"> <li>• Y=044</li> </ul> (1) 00-63: Trunk Route No. (2) 00-99: Trunk Access Code  <ul style="list-style-type: none"> <li>• Y=189</li> </ul> (1) 00-63: Trunk Route No. (2) X-XX: Trunk Access Code X=0-9, A (*), B (#)
CM41	Specify the Timing Start when making ISDN call from a Single Line Telephone (PB/DP), Multiline Terminal or Attendant Console.  Specify the ORT timer when sending LCR.	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> (1) 50 (2) 03-14: 3-14 seconds (1 second increment) If no data is set, the default setting is 10 seconds.  <ul style="list-style-type: none"> <li>• Y=0</li> </ul> (1) 111 (2) 02-15: 2-15 seconds (1 second increment) If no data is set, the default setting is 7 seconds.
B		

B	DESCRIPTION	DATA
CM48	Allow second Dial Tone for ISDN trunk route.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 04: 2nd DT on ISDN trunks</li> <li>(2) 1◀: To provided</li> </ul>
CM8A	Provide outgoing calls by pressing “#” key.	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 180</li> <li>(2) 0: To provide</li> </ul>
<u>END</u>		

To provide Trunk-Direct Appearances on T1 trunk:  
**[9300V5 software required] [For North America]**

START	DESCRIPTION	DATA
CM30	Assign the terminating system for required T1 trunks to Trunk-Direct Appearances.	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> </ul> (1) 000-511: Trunk No. (2) 02: Trunk-Direct Appearances
	Provide the Trunk-Direct Appearances feature to the required T1 trunk assigned by CM30 Y=02.	<ul style="list-style-type: none"> <li>• Y=18</li> </ul> (1) 000-511: Trunk No. (2) 0: To provide
	Assign the Trunk ID code for each T1 trunk.	<ul style="list-style-type: none"> <li>• Y=19</li> </ul> (1) 000-511: Trunk No. (2) XXXX: Trunk ID code
CM90	Assign the Trunk-Direct Appearances key to each Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) My Line No. + [ ] + Key No. (2) D000-D511: Trunk No.
	Assign a Hold key for holding the Trunk-Direct Appearances call, to each Multiline Terminal, as required.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) My Line No. + [ ] + Key No. (2) F0058: Hold Key
	<p><b>NOTE:</b> <i>By this assignment, the held Trunk-Direct Appearances call can be transferred by voice call, and can be answered by the Trunk-Direct Appearances key on the destination station.</i></p>	
CM08	Specify whether a Dial Tone is sent when the call is held by the Hold key for Trunk-Direct Appearances (CM90 Y=00>F0058).	(1) 365 (2) 0 : To send 1◀: Not sent
	Specify whether Hold Transfer for a trunk line placed in Consultation Hold is available or not.	(1) 161 (2) 0 : Available (Hold Transfer) 1◀: Not available (Consultation Hold)
END		

**HARDWARE REQUIRED**

Multiline Terminal, DLC blade, and COT blade



## TRUNK QUEUING-OUTGOING

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Trunk Queuing-Outgoing to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Trunk Queuing-Outgoing in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=002</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Trunk Queuing-Outgoing Set/Cancel.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A004: Set A005: Cancel</li> </ul>
CM90	Assign the Trunk Queuing-Outgoing (Call Back) key to the required Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0004: Trunk Queuing-OG/Call Back</li> </ul>
CM35	Specify the Trunk Queuing-Outgoing capability for each trunk route.	<ul style="list-style-type: none"> <li>Y=028</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Restricted 1◀: Allow</li> </ul>
END		

**NOTE:** To provide Trunk Queuing-Outgoing in conjunction with Least Cost Routing-3/6 Digit, you must set Route Pattern No. 000-126 (CM8A Y=0000-0126). Route Pattern No. 127-255 cannot be used for Trunk Queuing-Outgoing with Least Cost Routing-3/6 Digit.

# TRUNK-TO-TRUNK CONNECTION

## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>Y=07</li> </ul> (1) X-XXXXXXXX: My Line No. (2) 00-15◀: Service Restriction Class C
CM15	Provide the switch hook flash capability during C.O. line connection, to the required stations.	<ul style="list-style-type: none"> <li>Y=090, 091</li> </ul> (1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 1◀: Allow
CM36	Specify the combination of trunk routes allowing the Trunk-to-Trunk Connection.	<ul style="list-style-type: none"> <li>Y=0</li> </ul> (1) XX ZZ XX: 00-63: Incoming trunk route ZZ : 00-63: Outgoing trunk route (2) 0: Allow
CM08	Provide the system with Ring Transfer for Call Transfer-All Calls to a trunk when a station holds another station or trunk.	(1) 253 (2) 0: Available
	Provide the system with forced release when a tandem call duration passes a predetermined time.	(1) 029 (2) 0: To disconnect
CM35	Allow or restrict forced release of tandem connection for the incoming trunk route.	<ul style="list-style-type: none"> <li>Y=119</li> </ul> (1) 00-63: Trunk Route No. (2) 0 : Allow 1◀: Restricted
	<b>NOTE:</b> This data is available when CM08> 029 is set to 0.	
CM41	Specify the forced release timing for tandem call.	<ul style="list-style-type: none"> <li>Y=0</li> </ul> (1) 54 (2) 01-06: 64-224 minutes (32 minute increments) If no data is set, the default setting is 96-128 minutes
A		

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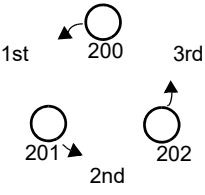
	DESCRIPTION	DATA
A		
CM08	Provide the system with Trunk-to-Trunk Connection transferred by a station or an attendant, when no answer signal arrives and release signal arrives from the outgoing trunk route.	(1) 028 (2) 0: Available
CM41	Specify the forced release timing for tandem connection when the called party does not answer.  <b>NOTE:</b> <i>This data is available when no release signal arrives from incoming trunk route.</i>	<ul style="list-style-type: none"><li>• Y=0</li></ul> (1) 55 (2) 01-13: 12-60 seconds (4 second increments) If no data is set, the default setting is 20-24 seconds.
<u>END</u>		

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# UNIFORM CALL DISTRIBUTION (UCD)

## PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM17</div>	<p>For each UCD group, assign station numbers, one by one, in the order of hunting.</p> <p><b>NOTE 1:</b> <i>Up to 60 stations can be assigned into a single UCD group.</i></p> <p><b>Example:</b> For setting station numbers 200, 201, 202 into one UCD group.</p> <p>1st Operation (1) 200 (2) 201</p> <p>2nd Operation (1) 201 (2) 202</p> <p>3rd Operation (1) 202 (2) 200</p> 	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X-XXXXXXXX: Another station No. to be linked</li> </ul>
	<p><b>NOTE 2:</b> <i>CM17 Y=0 assignment is not required for a UCD group including only a station. In that case, assign CM17 Y=1/2 and other commands accordingly.</i></p>	
	<p>Assign the Pilot station or Member station to the stations included in UCD group.</p>	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) X-XXXXXXXX: UCD Station No.</li> <li>(2) 0◀: Member station 1 : Pilot station</li> </ul>
	<p>Assign the UCD group number.</p>	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) X-XXXXXXXX: UCD Station No.</li> <li>(2) 00-99: UCD Group 00-99</li> </ul>

A

A	DESCRIPTION	DATA
CM17	Specify the UCD service for each type of call.	<ul style="list-style-type: none"> <li>• Y=4 Incoming Call               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Pilot Station No. ofUCD group</li> <li>(2) 0 : Not provided 1◀: To provide</li> </ol> </li> <li>• Y=5 C.O./DID incoming call               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Pilot Station No. ofUCD group</li> <li>(2) 0 : Not provided 1◀: To provide</li> </ol> </li> <li>• Y=6 Tie Line incoming call               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Pilot Station No. ofUCD group</li> <li>(2) 0 : Not provided 1◀: To provide</li> </ol> </li> <li>• Y=7 DID/Automated Attendant Call               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Pilot Station No. ofUCD group</li> <li>(2) 0 : Not provided 1◀: To provide</li> </ol> </li> <li>• Y=B Designation of number of queuing in each UCD group               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Pilot Station No. ofUCD group</li> <li>(2) 0 : To provide (As per CM42&gt;16) 1◀: Not provided (No limit)</li> </ol> </li> </ul>
CM42	Specify the maximum number of queuing in each UCD group.	<ol style="list-style-type: none"> <li>(1) 16</li> <li>(2) 01-99 : 1-99 calls NONE◀: No limit</li> </ol>
CM41	Specify the call waiting time before answer or abandonment for PEG Count analysis.	<ul style="list-style-type: none"> <li>• Y=0               <ol style="list-style-type: none"> <li>(1) 16</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ol> </li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
B		

B	DESCRIPTION	DATA
CM20	Assign the access code for UCD station Busy Out Set and Reset.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A044: Busy Out Set A045: Busy Out Reset
CM90	Assign the UCD Busy Out key on the Multi-line Terminal, if required.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. + [ ] + Key No. (2) F0044: UCD Busy Out
	Assign the Release key on the Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. + [ ] + Key No. (2) F1020: Release
CM08	Specify the processing for an incoming call when all UCD stations are busy.	(1) 212 (2) 0 : Busy Tone Connection 1◀: Queuing
	Specify the processing for a held call after setting the UCD Busy Out.	(1) 214: For the held call from Tie Line (2) 0 : Reconnected by Switch Hook Flash 1◀: Disconnected
	Specify that the transferred C.O. call from a station or an attendant is placed into queuing mode when all UCD stations are busy.	(1) 215: For the held call from C.O. Line (2) 0 : Reconnected by Switch Hook Flash 1◀: Disconnected
	Specify that the transferred C.O. call from a station or an attendant is placed into queuing mode when all UCD stations are busy.	(1) 227 (2) 0 : The call is placed into queuing mode
	<b>NOTE:</b> <i>This data is only effective when CM08&gt;212 is set to 1.</i>	<b>NOTE</b> 1◀: Recall to the transferring station when the call is transferred from station, or Attendant Camp-On is set when the call is transferred from Attendant
	Enable the UCD Busy Out Set and Reset from the Sub Line.	(1) 442 (2) 0: Available
<u>END</u>		

## BUSY IN/BUSY OUT-UCD

### PROGRAMMING

To provide UCD Busy Out indication on DSS Console:

START	DESCRIPTION	DATA
CM08	Provide the system with UCD Busy Out indication on DSS Console.	(1) 265 (2) 0: To provide
CM97	Assign the function key used for UCD Busy Out on each DSS Console.	(1) DSS Console No. (00-31) + <input type="text"/> + Function Key No. (57-59) (2) F1055: UCD Busy Out display
<u>END</u>		

## CALL WAITING INDICATION-UCD

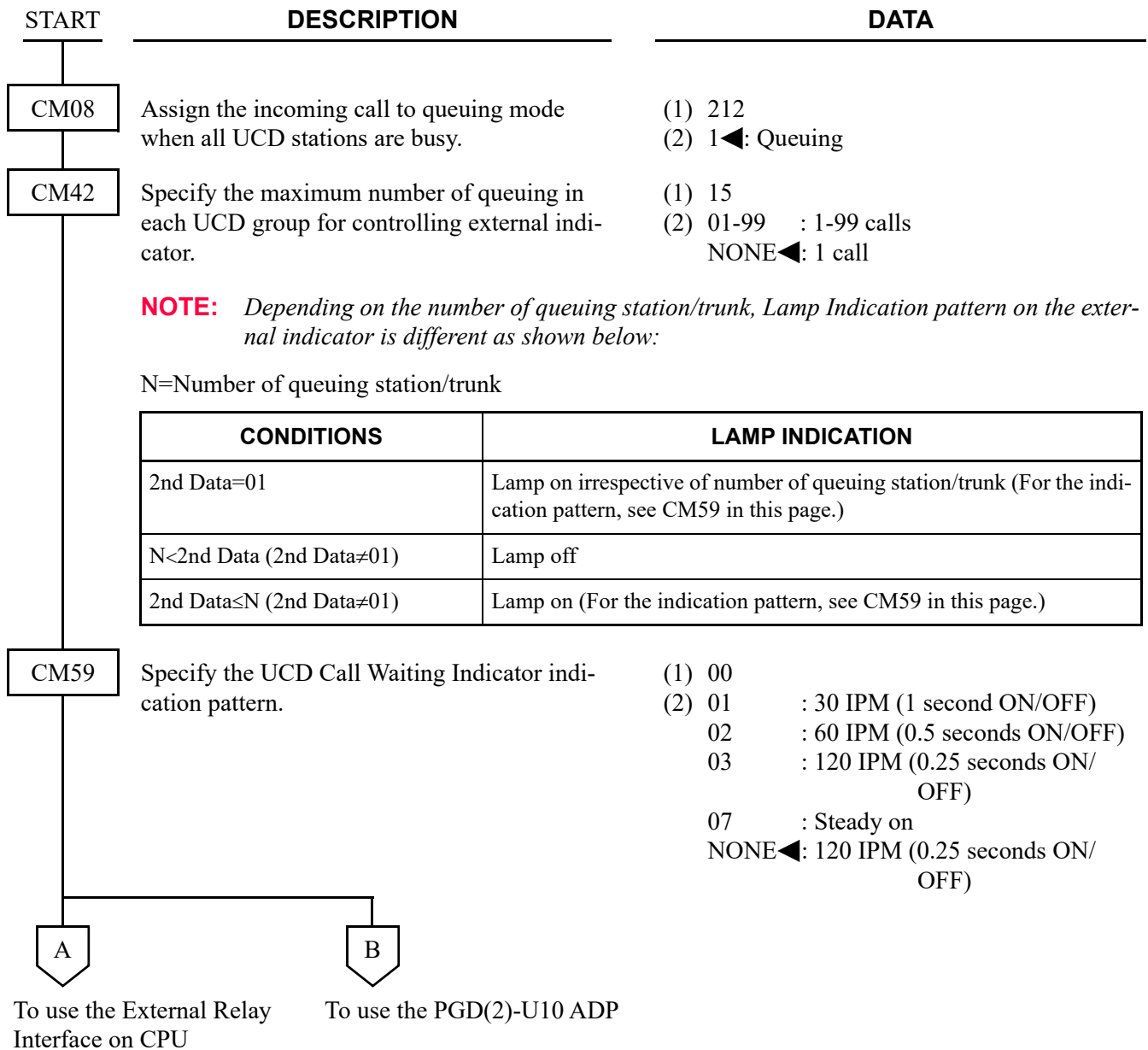
To provide the lamps on the Multiline Terminal for UCD Call Waiting Indication:

### PROGRAMMING

START	DESCRIPTION	DATA								
START										
CM08	Assign the incoming call to queuing mode when all UCD stations are busy.	(1) 212 (2) 1◀: Queuing								
CM42	Specify the maximum number of queuing in each UCD group for controlling call waiting lamp of a Multiline Terminal.	(1) 15 (2) 01-99 : 1-99 calls NONE◀: 1 call								
	<p><b>NOTE:</b> Depending on the number of queuing station/trunk, Lamp Indication pattern on a Multiline Terminal is different as shown below:</p> <p>N=Number of queuing station/trunk</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">CONDITIONS</th> <th style="text-align: center;">LAMP INDICATION</th> </tr> </thead> <tbody> <tr> <td>2nd Data=01</td> <td>Steady on red irrespective of number of queuing station/trunk</td> </tr> <tr> <td>1≤N&lt;2nd Data (2nd Data≠01)</td> <td>Steady on red</td> </tr> <tr> <td>2nd Data≤N (2nd Data≠01)</td> <td>Flashing red</td> </tr> </tbody> </table>		CONDITIONS	LAMP INDICATION	2nd Data=01	Steady on red irrespective of number of queuing station/trunk	1≤N<2nd Data (2nd Data≠01)	Steady on red	2nd Data≤N (2nd Data≠01)	Flashing red
CONDITIONS	LAMP INDICATION									
2nd Data=01	Steady on red irrespective of number of queuing station/trunk									
1≤N<2nd Data (2nd Data≠01)	Steady on red									
2nd Data≤N (2nd Data≠01)	Flashing red									
CM90	Assign the Call Waiting Lamp Indication to the required Multiline Terminal, as required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F1500-F1599:UCD Group 00-99 (Busy Lamp)</li> </ul>								
END										



To provide an external indicator for UCD Call Waiting:



A	DESCRIPTION	DATA
CM44	Set the function of UCD Call Waiting Indication to the External Relay Interface on CPU.	<ul style="list-style-type: none"><li>• Y=00</li><li>(1) 312, 313: External Relay Interface on CPU</li><li>(2) 14XX</li><li>XX: 00-99: UCD Group No. assigned by CM17</li></ul>
<u>END</u>		

B	DESCRIPTION	DATA
CM05	<p>Assign a Unit and Slot number to the DLC blade.</p> <p style="text-align: center;"><b>BLADE RESET</b></p> <p><b>NOTE:</b> <i>When the PGD(2)-U10 ADP is accommodated to the Remote Unit, execute the system data copy by CMEC Y=8 before executing the blade reset.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
CM10	<p>Assign the station number connected to PGD(2)-U10 ADP to its associated Physical Port number.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
CM12	<p>Assign the Kind of PGD(2)-U10 station for external relay/external key.</p> <p><b>NOTE:</b> <i>After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</i></p>	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 3: External relay/external key only</li> </ul>
CM13	<p>For the station connected to PGD (2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.</p> <p>For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when answering a station call.</p> <p>For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.</p> <p>For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when answering a trunk call.</p>	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1:Not provided</li> <li>• Y=41</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1:Not stored</li> <li>• Y=49</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> <li>• Y=60</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not stored</li> </ul>
C		

C

**DESCRIPTION**

**DATA**

CM13

For the station connected to PGD (2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.

- Y=61
- (1) X-XXXXXXXXX: Station No.
- (2) 1: Not stored

Allow the accommodation of PGD(2)-U10 ADP.

- Y=63
- (1) X-XXXXXXXXX: Station No.
- (2) 0: To accommodate

BLADE RESET

**NOTE 1:** Set this data only for a Base Port No. (Circuit No. 01) of DLC blade.

**NOTE 2:** Whether the following equipment can be accommodated to the same DLC blade or not depends on this data.

- When the second data is set to "0"

Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/PGD(2)-U10 ADP

Unaccommodatable: DESKCON

- When the second data is set to "1"

Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/DESKCON

Unaccommodatable: PGD(2)-U10 ADP

**NOTE 3:** When the second data is set to 0, and accommodating DT300/DT400 series DESI-less to the same DLC blade to which PGD(2)-U10 ADP is accommodated, the Line Key of the DT300/DT400 series DESI-less does not light up (however, Character Display or Icon Display on the DESI-less screen is provided).

CM44

Set the function of UCD Call Waiting Indication to the PGD(2)-U10 ADP.

- Y=00
- (1) XX Y  
XX: 00-31: Relay Group No.  
Y : 0-3: Circuit No.
- (2) 14XX  
XX: :00-99:UCD Group No. assigned by CM17

Associate the PGD(2)-U10 station number with the Relay Group number.

- Y=01
- (1) 00-31: Relay Group No.
- (2) X-XXXXXXXXX: PGD(2)-U10 Station No.  
NONE◀: No data

END

## DELAY ANNOUNCEMENT-UCD

### PROGRAMMING

To provide UCD Delay Announcement (for Incoming Trunk Call):

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Voice Response System Access to the required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ                      XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Voice Response System Access in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=033</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM17	Specify the pattern of message sent to each UCD group.  Select the UCD group for Delay Announcement (for Incoming Trunk Call) /Overflow Announcement.  <b>NOTE 1:</b> Set this data when sharing a VRS assigned by CM49 Y=00: 0B0XX/11XX/12XX with multiple UCD groups and using VRS other than own group number.  <b>NOTE 2:</b> Set this data for the pilot station (assigned by CM17 Y=1).	<ul style="list-style-type: none"> <li>Y=A</li> <li>(1) X-XXXXXXXX: Pilot Station No. of UCD group</li> <li>(2) 0 : To send periodically                      1◀: To send only once</li> <li>Y=C</li> <li>(1) X-XXXXXXXX: Pilot Station No. of UCD group</li> <li>(2) 00-99 : Use VRS of UCD group number 00-99                      NONE◀: Use VRS of own UCD Group (CM17 Y=2)</li> </ul>
CM41	If the data for CM17 Y=A is "0", set the interval time for UCD Delay Announcement (for Incoming Trunk Call).	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) 47</li> <li>(2) 01-30: 4-120 seconds                      (4 second increments)</li> </ul> If no data is set, the default setting is 32-36 seconds.
A		

A	DESCRIPTION	DATA
CM41	Specify the UCD Delay Announcement (for Incoming Trunk Call) connection timer.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 67</li> <li>(2) 01-99: 4-396 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 8-12 seconds.
	Specify the maximum UCD call waiting time before answer or abandonment for UCD PEG Count, and waiting time before UCD Delay Announcement (for Incoming Trunk Call).	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 16</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 32-36 seconds.
CM49	Assign the UCD Delay Announcement (for Incoming Trunk Call) function to the required Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 0B0XX: UCD Delay Announcement (for Incoming Trunk Call) 11XX : UCD Second Delay Announcement XX : 00-99: UCD Group No.</li> </ul>
CM20	To record, replay and delete a message, assign the Voice Response System access code, respectively.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access code</li> <li>(2) A100: Record A101: Replay A102: Delete</li> </ul>
CM51	When transferring the call to a station or Attendant after the 1st interval time of UCD Delay Announcement (for Incoming Trunk Call), assign the destination.	<ul style="list-style-type: none"> <li>• Y=17</li> <li>(1) 00-63: Tenant No.</li> <li>(2) Destination: X-XXXXXXXX: Station No. E000 : Attendant Console</li> </ul>
CM08	Specify a diversion display on a Multiline Terminal or Attendant Console when transferring a UCD call.	<ul style="list-style-type: none"> <li>(1) 357</li> <li>(2) 0 : Available 1◀: Not available</li> </ul>
<u>END</u>		

To set an outside party as the UCD overflow destination after the delay announcement:

START	DESCRIPTION	DATA
CM17	Specify the pattern of message sent to each UCD group to send periodically.	<ul style="list-style-type: none"> <li>Y=A</li> <li>(1) X-XXXXXXXX: Pilot Station No. of UCD group</li> <li>(2) 0: To send periodically</li> </ul>
CM51	When transferring the call to an outside party after the first interval time of UCD Delay Announcement (for Incoming Trunk Call), assign the destination.	<ul style="list-style-type: none"> <li>Y=17</li> <li>(1) 00-63: Tenant No.</li> <li>(2) Destination: X-XXXXXXXX: Virtual Line Station No. assigned by CM11</li> </ul>
CM11	Assign the Virtual Line station number to the required Virtual Port number.	<ul style="list-style-type: none"> <li>(1) 0000-0999: Virtual Port No.</li> <li>(2) X-XXXXXXXX: Virtual Line Station No.</li> </ul>
CM12	Assign Service Restriction Class A to the Virtual Line station.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Forwarding-All Calls-Outside in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=026</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CME6	Assign the destination number for Call Forwarding-All Calls-Outside to the Virtual Line station number assigned by CM11.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) X-XXXXXXXX: Virtual Line Station No. assigned by CM11</li> <li>(2) Destination No.: X-XXXX + [ ] + YY...Y X-XXXX : Outgoing Trunk/LCR Group Access Code (1-4 digits) [ ] : Separate Mark YY...Y : Called No. (Maximum 26 digits)</li> </ul>
CM35	To apply Call Forwarding-All Calls-Outside, set the trunk route combinations for Tandem Connection.	<ul style="list-style-type: none"> <li>Y=005</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li> </ul>
CM36		<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) Incoming Trunk Route No. + Outgoing Trunk Route No. assigned by CM35 Y=005</li> <li>(2) 0: Allow</li> </ul>
END		

To provide UCD Delay Announcement (for Station Call):

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for Voice Response System Access to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ                      XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Voice Response System Access in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=033</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM17	Specify the pattern of message sent to each UCD group.  Select the UCD group for Delay Announcement (for Station Call)  <b>NOTE 1:</b> Set this data when sharing a VRS assigned by CM49 Y=00: 0B1XX with multiple UCD groups and using VRS other than own group number.  <b>NOTE 2:</b> Set this data for the pilot station (assigned by CM17 Y=1).	<ul style="list-style-type: none"> <li>• Y=D</li> <li>(1) X-XXXXXXXX: Pilot Station No. of UCD group</li> <li>(2) 0 : To send periodically                      1◀: To send only once</li> <li>• Y=E</li> <li>(1) X-XXXXXXXX: Pilot Station No. of UCD group</li> <li>(2) 00-99 : Use VRS of UCD group number 00-99                      NONE◀: Use VRS of own UCD Group (CM17 Y=2)</li> </ul>
CM41	If the data for CM17 Y=D is "0", set the interval time for UCD Delay Announcement (for Station Call).  Specify the UCD Delay Announcement (for Station Call) connection timer.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 168</li> <li>(2) 01-30: 4-120 seconds                      (4 second increments)                      If no data is set, the default setting is 32-36 seconds.</li> <li>• Y=0</li> <li>(1) 169</li> <li>(2) 01-99: 4-396 seconds                      (4 second increments)                      If no data is set, the default setting is 8-12 seconds.</li> </ul>
A		



A	DESCRIPTION	DATA
CM41	Specify the maximum UCD call waiting time before answer or abandonment for UCD PEG Count, and waiting time before UCD Delay Announcement (for Station Call).	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 167</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 32-36 seconds.
CM08	Specify the VRS for UCD Delay Announcement (for Station Call).	<ul style="list-style-type: none"> <li>(1) 1407</li> <li>(2) 0 : Use VRS for Incoming Trunk Call 1◀: Use VRS for Station Call</li> </ul>
CM49	Assign the UCD Delay Announcement (for Station Call) function to the required Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015:VRS No.</li> <li>(2) 0B1XX: UCD Delay Announcement (for Station Call) XX: 00-99: UCD Group No.</li> </ul>
CM20	To record, replay and delete a message, assign the Voice Response System access code, respectively.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access code</li> <li>(2) A100: Record A101: Replay A102: Delete</li> </ul>
<u>END</u>		

## HUNT PAST NO ANSWER-UCD

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### PROGRAMMING

Refer to CALL FORWARDING-NO ANSWER. [📄 Page 1-130](#)

## IMMEDIATE OVERFLOW-UCD

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### PROGRAMMING

Refer to CALL FORWARDING-BUSY LINE. [📄 Page 1-127](#)

## PRIORITY QUEUING-UCD

### PROGRAMMING

To provide Priority Queuing per trunk route:

START	DESCRIPTION	DATA
CM35	Provide Priority Queuing per trunk route.	<ul style="list-style-type: none"> <li>• Y=060</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
END		

To provide Priority Queuing per DID incoming LDN:

START	DESCRIPTION	DATA
CM35	Provide DID digit conversion to the trunk route number.	<ul style="list-style-type: none"> <li>• Y=018</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
	Provide Priority Queuing per trunk route.	<ul style="list-style-type: none"> <li>• Y=060</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
CM76	Assign the Number Conversion Block number for Development Table 0.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXX: DID No.</li> <li>(2) 000-999 : Number Conversion Block No. NONE◀: No data</li> </ul>
	Provide Priority Queuing per DID incoming LDN.	<ul style="list-style-type: none"> <li>• Y=11</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00</li> <li>(2) 1◀: To provide</li> </ul>
END		

## QUEUE SIZE CONTROL-UCD

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### PROGRAMMING

Refer to UNIFORM CALL DISTRIBUTION (UCD). [📄 Page 1-840](#)

## SILENT MONITOR-UCD

### PROGRAMMING

To monitor a UCD call, with or without a warning tone:

**NOTE:** *Monitoring telephone conversations may be illegal under certain circumstances and laws. Consult a legal advisor before implementing the monitoring of telephone conversations. Some federal and state laws require a party monitoring a telephone conversation to use beep-tones, to notify all parties to the telephone conversation, and/or obtain consent from all parties to the telephone conversation. Some of these laws provide strict penalties for illegal monitoring of telephone conversations.*

START	DESCRIPTION	DATA
CM08	Specify the warning tone sent to connected stations when monitoring a station-to-station or station-to-trunk call.  Specify whether the warning tone is sent to the outside party when a station monitor is on.	(1) 259 (2) 0 : Not sent 1◀: To send (only once)  (1) 076 (2) 0 : To send 1◀: Not sent
CM12	Assign Service Restriction Class A for monitoring stations.	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow monitoring stations in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=103</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM12	Assign Service Restriction Class A for monitored stations.	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow being monitored in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=104</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
A		

A	DESCRIPTION	DATA
CM20	Assign the access code for monitor, if required.	<ul style="list-style-type: none"> <li>Y=0-3 Number Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A033: Monitor</li> </ul>
CM90	Assign a monitoring function key to the required Multiline Terminals.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0033: Monitoring</li> </ul>
CM08	Specify the action of monitoring station after the hold/hooking key is pressed in the monitored station or the monitored station becomes idle.	<ul style="list-style-type: none"> <li>(1) 560</li> <li>(2) 0 : Keep monitoring</li> <li>1◀: Stop monitoring</li> </ul>
CM48	When setting the second data of CM08>560 to 0 (keep monitoring), set the music for Hold Tone that is sent to monitoring station.	<ul style="list-style-type: none"> <li>Y=3</li> <li>(1) 01</li> <li>(2) 00 : Nocturne</li> <li>01 : Minuet</li> <li>02 : Fur Elise</li> <li>03 : The Maiden's Prayer</li> <li>04 : When the saints go marching in</li> <li>06 : Spring (by four seasons)</li> <li>08 : Ich bin ein Musikante (German folk song)</li> <li>10 : Amaryllis (French folk song)</li> <li>NONE◀: Minuet</li> </ul>
<u>END</u>	Define the type of call to be provided with Hold Tone on the CPU blade.	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) 02: Internal Call</li> <li>(2) 1400: Hold Tone Source on CPU blade</li> </ul>

## **HARDWARE REQUIRED**

To provide the delay announcement for UCD:  
CPU blade (VRS using a built-in Flash ROM)

To provide the lamps on the Multiline Terminal:  
Multiline Terminal and DLC blade

To provide the external Call Waiting Indicator:  
CPU (with built-in External Equipment Interface)  
External Indicator provided by the customer

Requirement for External Indicator:  
Control Method: Ground/Battery (Maximum 125 mA)  
Type: Visual and/or Audible type with volume control



# UNIFORM NUMBERING PLAN (UNP)-VOICE AND DATA

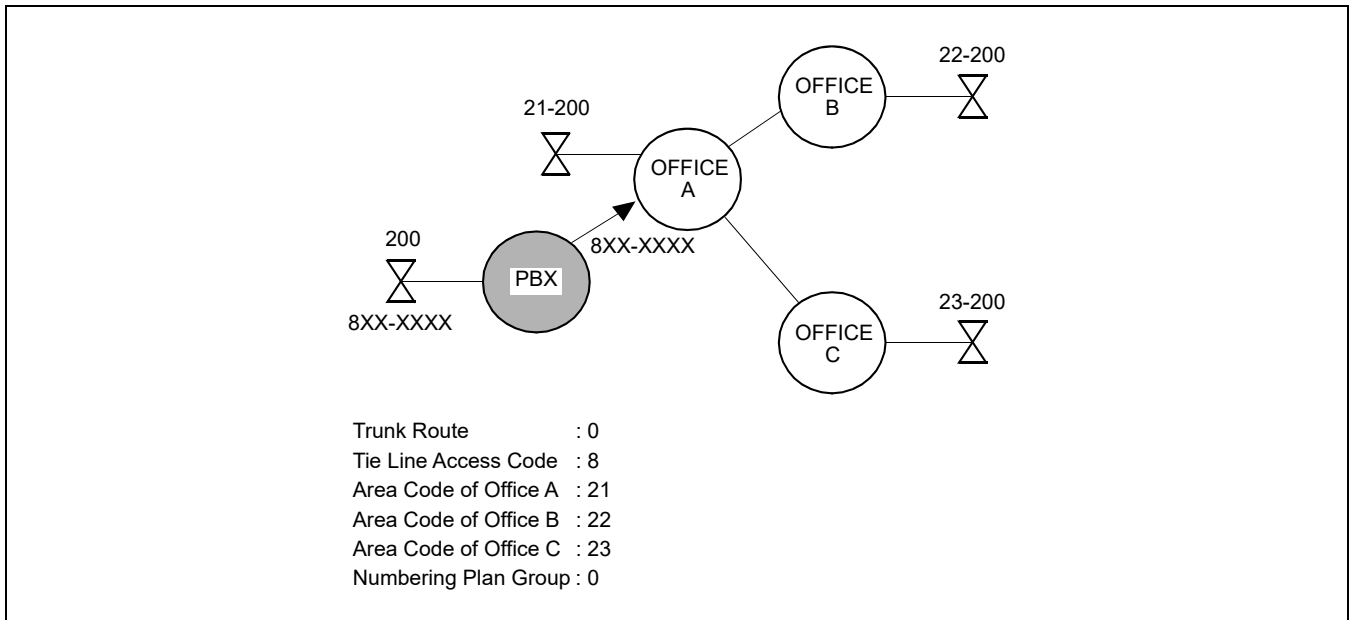
## PROGRAMMING

For an open numbering system:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM20</div>	Assign an access code for LCR Group 0-3.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A126: LCR Group 0 A127: LCR Group 1 A128: LCR Group 2 A129: LCR Group 3</li> </ul>
	<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM8A</div>	Assign an Area Code Development Pattern number to each LCR Group.
Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.		<ul style="list-style-type: none"> <li>• Y=4005-4007 Area Code Development Pattern No. 5-7</li> <li>(1) NXX/1NXX: Area Code (Maximum 8 digits)</li> <li>(2) 0000-0255: Route Pattern No. 000-255</li> </ul>
Assign an area code for Intra-office terminations, if required.		<ul style="list-style-type: none"> <li>• Y=4005-4007 Area Code Development Pattern No. 5-7</li> <li>(1) X-XXXXXXXX: Area Code (1-8 digits)</li> <li>(2) 8000 : Intra-office termination 8001-8008: 1-8 digits Intra-office station</li> </ul>
Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4005-4007.		<ul style="list-style-type: none"> <li>• Y=0000-0255 Route Pattern No. 000-255</li> <li>(1) 1-4: Order of LCR Selection                             <ul style="list-style-type: none"> <li>1: 1st</li> <li>2: 2nd</li> <li>3: 3rd</li> <li>4: 4th</li> </ul> </li> <li>(2) XXX ZZ XXX: 000-255: LCR Pattern No. ZZ : 00-63: Trunk Route No.</li> </ul>
<div style="border: 1px solid black; padding: 5px; width: 30px; margin: 0 auto;">A</div>		

A	DESCRIPTION	DATA
CM8A	<p>Assign the digits to be deleted from the calls to distant offices. To delete all digits of an area code:</p> <p>To delete the designated digit of an area code:</p>	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 151: Deletion of all digits of area code (NXX, 1NXX) assigned by CM8A Y=4000-4007</li> <li>(2) 0: To delete</li> </ul>
	<p>To delete the designated digit of an area code:</p>	<ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>(1) 153: Designation of digit to be deleted</li> <li>(2) 00 : No digits deleted 01-10 : First 1-10 digits deleted NONE◀: No digits deleted</li> </ul>
	<p>Assign the digits to be added to the digits sent to the distant office.</p>	<ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>(1) 100: Designation of Digit Addition Pattern No.</li> <li>(2) 9000-9255 : Digit Addition Pattern No. 000-255 NONE◀ : No digits added</li> <li>• Y=9000-9255 Digit Addition Pattern No. 000-255</li> <li>(1) 0: Entry of digit code to be added</li> <li>(2) X-X...X: Digits to be added (Maximum 32 digits) X=0-9, A (*), B (#), C (Fixed Pause), D (Programmable Pause)</li> </ul>
CM35	<p>Assign the digits to be added to the required trunk routes when adding digits to those received from a distant office.</p>	<ul style="list-style-type: none"> <li>• Y=017</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00-09: Add "0"-Add "9" 10 : Add 2 digits per CM50 Y=00&gt;0</li> </ul>
	<p>Assign the data for digit deletion to the required trunk routes for deleting the first one or two digits received from a distant office.</p>	<ul style="list-style-type: none"> <li>• Y=017</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 11: Delete first digit 12: Delete first 2 digits</li> </ul>
CM50	<p>If two digits are to be added (CM35 Y=017, 2nd data=10), assign the digits to be added.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 0</li> <li>(2) XX: Digits to be added</li> </ul>
END		

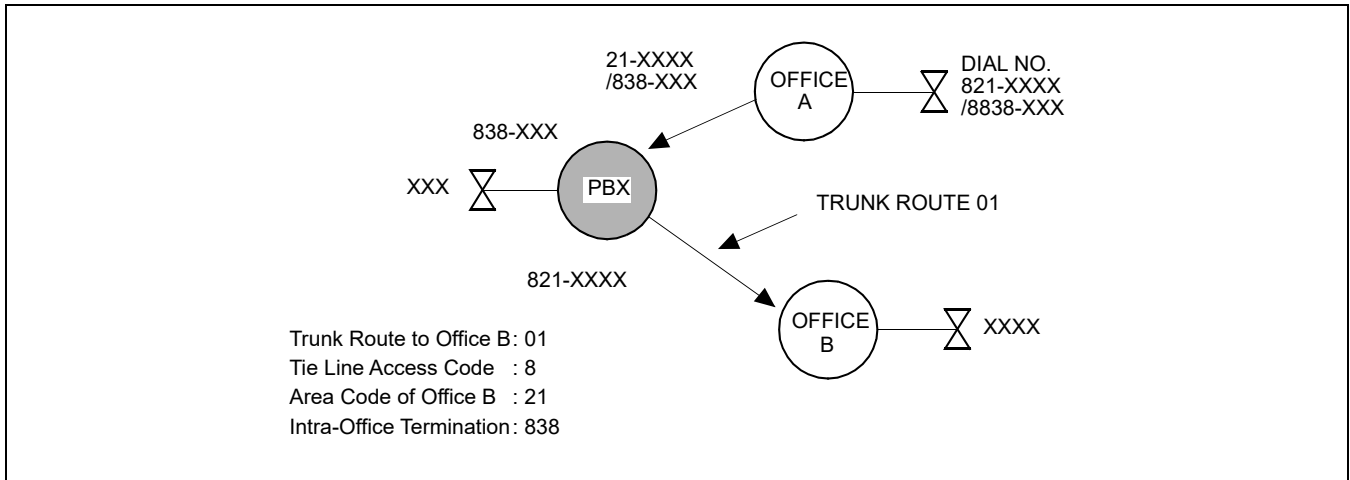
**Example 1:** When the PBX is an end office in a network employing an Open Numbering System, office A requires all the digits dialed on an incoming call from the PBX.



Programming for **Example 1:**

COMMAND CODE	1ST DATA	2ND DATA	REMARKS
20 Y=0	8	A126	Assignment of Access Code 8 of LCR Group 0.
8A Y=A000	0	4005	Assignment of Area Code Development Pattern No. 5.
8A Y=4005	21	0000	Assignment of Route Pattern
8A Y=4005	22	0000	No. 00 to Area Codes 21, 22 and 23.
8A Y=4005	23	0000	
8A Y=0000	1	00000	Assignment of the order of LCR selection (1st) for Route Pattern No. assigned by Y=4005.
8A Y=5000	100	9000	Assignment of Digit Addition Pattern No. 000.
8A Y=9000	0	8	Assignment of the digital code to be added for each area code.

**Example 2:** When the PBX is a Tandem Office in the network.



Programming for **Example 2:**

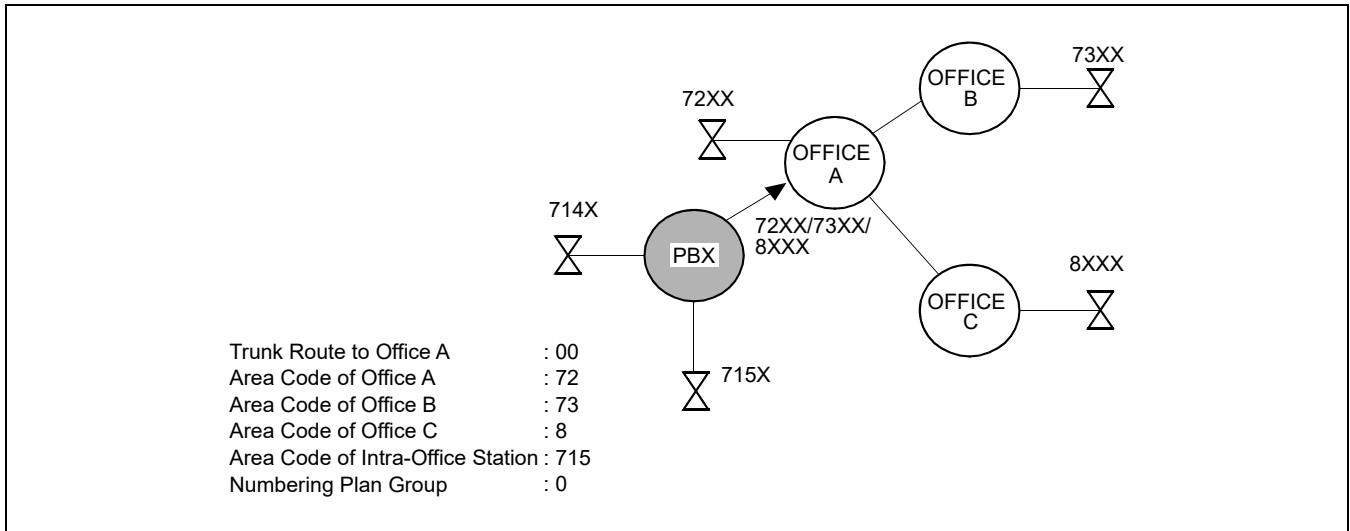
COMMAND CODE	1ST DATA	2ND DATA	REMARKS
20 Y=0	8	A126	Assignment of Access Code 8 of LCR Group 0.
8A Y=A000	0	4005	Assignment of Area Code Development Pattern No. 5.
8A Y=4005	21	0001	Assignment of Route Pattern No. 001 to Area Code 21 of office B.
8A Y=4005	838	8000	Assignment of Intra-Office Termination to the office code 838.
8A Y=0000	1	00001	Assignment of the order of LCR selection (1st) for Route Pattern No. assigned by Y=4005.

- For Closed Numbering System

START	DESCRIPTION	DATA
CM20	Assign an access code for LCR Group 3.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A129: LCR Group 3</li> </ul>
CM8A	Assign an Area Code Development Pattern number to LCR Group 3.	<ul style="list-style-type: none"> <li>• Y=A000</li> <li>(1) 3: LCR Group 3</li> <li>(2) 4005-4007: Area Code Development Pattern No. 5-7</li> </ul>
	Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.	<ul style="list-style-type: none"> <li>• Y=4005-4007 Area Code Development Pattern No. 5-7</li> <li>(1) X-XXXXXXXX: Area Code, Maximum 8 digits</li> <li>(2) 0000-0255: Route Pattern No. 000-255</li> </ul>
	Assign an area code (station number) for Intra-Office Terminations, if required.	<ul style="list-style-type: none"> <li>• Y=4005-4007 Area Code Development Pattern No. 5-7</li> <li>(1) X-XXXXXXXX: Area Code (Maximum 8 digits)</li> <li>(2) 8001-8008: 1-8 digits Intra-office station</li> </ul>
	Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4005-4007.	<ul style="list-style-type: none"> <li>• Y=0000-0255 Route Pattern No. 000-255</li> <li>(1) 1-4: Order of LCR Selection                             <ul style="list-style-type: none"> <li>1: 1st</li> <li>2: 2nd</li> <li>3: 3rd</li> <li>4: 4th</li> </ul> </li> <li>(2) XXX ZZ                             <ul style="list-style-type: none"> <li>XXX: 000-255: LCR Pattern No.</li> <li>ZZ : 00-63: Trunk Route No.</li> </ul> </li> </ul>
	Assign the digits to be deleted when deleting digits of an area code sent to a distant office. To delete all digits of an area code:	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 151: Deletion of all digits of area code assigned by CM8A Y=4005-4007</li> <li>(2) 0: To delete</li> </ul>
A		

A	DESCRIPTION	DATA
CM8A	<p>To delete the designated digits of an area code:</p> <p>Assign the digits to be added when adding digits to those sent to a distant office.</p>	<ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>(1) 153: Designation of digit to be deleted</li> <li>(2) 00 : No digits deleted</li> <li>01-10 : First 1-10 digits deleted</li> <li>NONE◀: No digits deleted</li> </ul> <ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>(1) 100: Designation of digit Addition Pattern No.</li> <li>(2) 9000-9255: Digit Addition Pattern No. 000-255</li> <li>NONE◀ : No digits added</li> </ul> <ul style="list-style-type: none"> <li>• Y=9000-9255 Digit Addition Pattern No. 000-255</li> <li>(1) 0: Entry of digit code to be added</li> <li>(2) X-X...X: Digits to be added (Maximum 32 digits)</li> <li>X=0-9, A (*), B (#), C (Fixed Pause), D (Programmable Pause)</li> </ul>
CM35	<p>Assign the digit to be added to the required trunk routes when adding digits to those received from a distant office.</p> <p>Assign the data for digit deletion to required trunk routes for deleting the first one or two digits received from a distant office.</p>	<ul style="list-style-type: none"> <li>• Y=017</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00-09: Add "0"-Add "9"</li> <li>10 : Add 2 digits per CM50 Y=00&gt;0</li> </ul> <ul style="list-style-type: none"> <li>• Y=017</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 11: Delete first digit</li> <li>12: Delete first 2 digits</li> </ul>
CM50	<p>If two digit addition is required (CM35 Y=017, 2nd data=10), assign the digits to be added.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 0</li> <li>(2) XX: Digits to be added</li> </ul>
END		

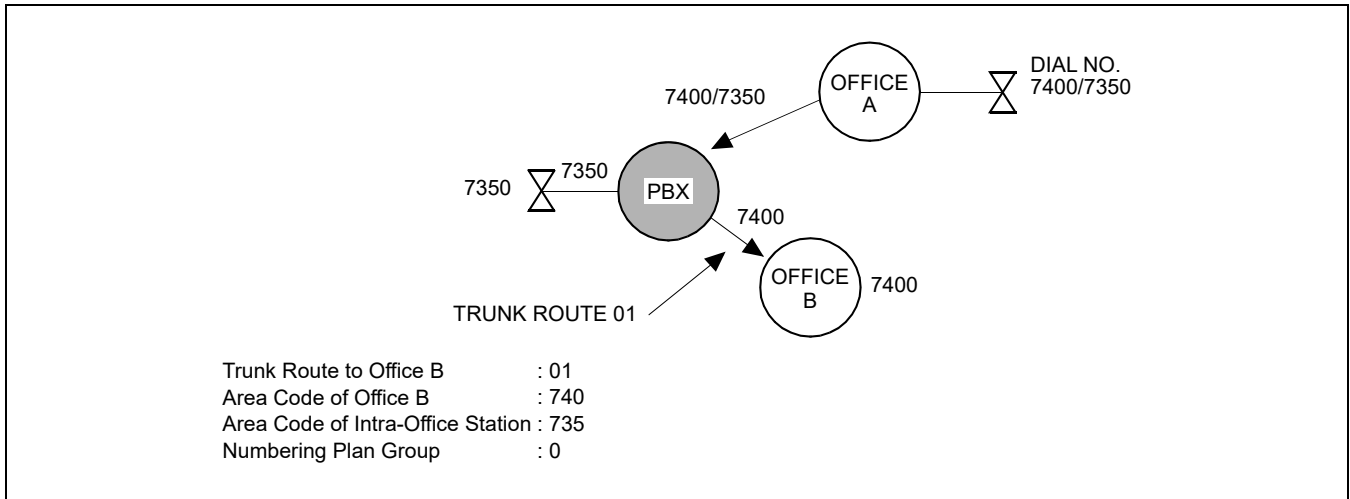
**Example 1:** When the PBX is an end office in a network employing a Closed Numbering System.



Programming for **Example 1:**

COMMAND CODE	1ST DATA	2ND DATA	REMARKS
20 Y=0	7	A129	Assignment of Access Code (7, 8) to LCR Group
20 Y=0	8	A129	3.
8A Y=A000	0	4005	Assignment of Area Code Development Pattern No. 5.
8A Y=4005	72	0000	Assignment of Route Pattern No. 000 to Area
8A Y=4005	73	0000	Code (72, 73, 8).
8A Y=4005	8	0000	
8A Y=4005	715	8004	Assignment of the 4-digit Intra-Office Station to the Area Code 715.
8A Y=0000	1	00000	Assignment of the order of LCR selection (1st) for Route Pattern No. assigned by CM8A Y=4005.

**Example 2:** When the PBX is a Tandem Office in the network.



Programming for **Example 2:**

COMMAND CODE	1ST DATA	2ND DATA	REMARKS
20 Y=0	7	A129	Assignment of Access Code 7 of LCR Group 3.
8A Y=A000	3	4005	Assignment of Area Code Development Pattern No. 5.
8A Y=4005	740	0001	Assignment of Route Pattern No. 001 to Area Code 740 of Office B.
8A Y=4005	735	8004	Assignment of the 4-digit Intra-Office Station to the Area Code 735.
8A Y=0000	1	00001	Assignment of the order of LCR selection (1st) for Route Pattern No. assigned by CM8A Y=4005.



## UNIVERGE BLUE Connect Bridge

[9300V9 software required]

**NOTE:** This feature is available from 9300V9 (V9.2.1) software or later.

### PROGRAMMING

#### (1) Basic Data Assignment for UNIVERGE BLUE Connect (UBC) Bridge

##### (a) SIP Trunk Data Assignment

For details, refer to the “SIP TRUNK DATA ASSIGNMENT” of the Chapter 2 SYSTEM DATA PROGRAMMING in the System Manual.

In addition to the SIP TRUNK DATA ASSIGNMENT, do the programming as shown in the following table.

**NOTE:** To use UNIVERGE BLUE Connect Bridge feature, the system data as shown in the following table must be assigned. Be sure to follow the settings in the table below.

◀: Default

CM	Y No.	MEANING	1 ST DATA	2ND DATA
0B	101	VoIP port assignment	53: SIP trunk source IP address check	0: Available
36	0	Setting of restriction data for tandem connection	aabb aa: 00-63 (Incoming Trunk Route) bb: 00-63 (Outgoing Trunk Route)	0: Allow
BA	21	Voice encoding selection precedence for SIP trunk	00-63: Profile number for control packet	7◀: Standard Mode 1
BA	25	Query a DNS server to get the IP Address <input type="button" value="RESET"/>		0: Provide
BA	31	SIP server Port number <input type="button" value="RESET"/>		NONE◀: 5060
BA	32	Representative number (registration number) assignment <input type="button" value="RESET"/>		9300: Representative number

Continued on next page

◀: Default

CM	Y No.	MEANING	1 ST DATA	2ND DATA
BA	45	Setting of SIP AoR user name with character <b>RESET</b>	00-63: Profile number for control packet	SIP AoR user name (Maximum 32 characters)
		<p><b>NOTE 1:</b> This command assigns the SIP AoR user name for Web settings of the Cloud UC server.</p> <p><b>NOTE 2:</b> Assign the same SIP AoR user name as one assigned by CMBA Y=72.</p>		
BA	52	DTMF out-band mode for SIP trunk	00-63: Profile number for control packet	03: Out-band mode (with RFC2833)
BA	55	Setting of SIP trunk identity header <b>RESET</b>		1: SIP-URL
BA	70	SIP trunk registration method to the SIP server <b>RESET</b>		0: To register the time set by CMBA Y=71
BA	71	Setting of SIP trunk registration expiry time to the SIP server <b>RESET</b>		30: 30 seconds
BA	72	Setting of Authentication user name when registering to/receiving from the SIP server with character code <b>RESET</b>		User name (Maximum 32 characters)
		<p><b>NOTE 1:</b> This command assigns the Authentication user name for Web settings of the Cloud UC server.</p> <p><b>NOTE 2:</b> Assign the same SIP AoR user name as one assigned by CMBA Y=45.</p>		
BA	74	Setting of Authentication password when registering to/sending from the SIP server with character code <b>RESET</b>	00-63: Profile number for control packet	Password (Maximum 32 digits)
		<p><b>NOTE:</b> This command assigns the Authentication password for Web settings of the Cloud UC server.</p>		

Continued on next page

◀: Default

CM	Y No.	MEANING	1 ST DATA	2ND DATA
BA	76	Setting of SIP trunk domain name for SIP-URI with character <b>RESET</b>	00-63: Profile number for control packet	Domain name (Maximum 128 characters)
		<p><b>NOTE 1:</b> This command assigns the domain name for Web settings of the Cloud UC server.</p> <p><b>NOTE 2:</b> Assign the same SIP AoR user name as one assigned by CMBA Y=93.</p>		
BA	83	Session Timer providing	00-63: Profile number for control packet	0: Not provided
BA	85	IP address used for SIP-URI <b>RESET</b>		0: IP address set by CM0BY=1xx>00 (xx=01-50)
BA	86	Identity header of SIP Trunk <b>RESET</b>		0: P-Asserted-Identity
BA	92	Setting of the display name/user name for From Header <b>RESET</b>		0: Display name: SIP AoR User name following CMBA Y=45 User name: SIP AoR User name following CMBA Y=45
BA	93	Setting of the Fully Qualified Domain Name (FQDN) for SIP server <b>RESET</b>		Domain name (By entering characters (up to 128))
		<p><b>NOTE 1:</b> This command assigns the domain name for Web settings of the Cloud UC server.</p> <p><b>NOTE 2:</b> Assign the same SIP AoR user name as one assigned by CMBA Y=76.</p>		
BA	97	Error response code when the system receives the incoming call, but all SIP trunks are busy	00-63: Profile number for control packet	1: 486 Busy Here

Continued on next page

◀: Default

CM	Y No.	MEANING	1 ST DATA	2ND DATA
BA	105	Request provisional responses with reliability (100rel) when sending from SIP trunk	00-63: Profile number for control packet	1: Available (Supported header)
BA	106	Response code when the terminating terminal/trunk is busy		7◀: 486
BA	108	Perform registration even when receiving “Subscriber error”, “Authentication error” or “Time-out error” during the registration <b>RESET</b>		0: To provide
BA	109	Response when receiving NON-INVITE in IDLE state		1◀: To answer with 481
BA	110	Send a signal to require a deletion during a reset setting registration <b>RESET</b>		0: To provide
BA	112	Logic for contact header user field <b>RESET</b>		1◀: As per the setting for User name assigned by CMBA Y=92
BA	116	Setting of the Host Field for From Header when the calling number is not informed		1◀: anonymous.invalid
BA	124	Setting of the display name/user name for ‘From header’ of an initial INVITE when the calling number is not informed.		3◀: Display name: Anonymous, User name: Anonymous

Continued on next page

◀: Default

CM	Y No.	MEANING	1 ST DATA	2ND DATA
BA	105	Request provisional responses with reliability (100rel) when sending from SIP trunk	00-63: Profile number for control packet	1: Available (Supported header)
BA	126	Selection of reference to Caller ID		0: Get Caller ID from the Username field if the Displayname field of the From header of initial INVITE message is blank
BA	135	Selection of called number		1: Get called number from Request-Line of INVITE message
BA	160	Caller ID conversion in SIP trunk tandem connection		02: Caller ID conversion mode 2

## (b) Caller ID Display/Name Display Data Assignment

START	DESCRIPTION	DATA
CM35	Provide the Enblock Dialing Method (for Forced on PBX).	<ul style="list-style-type: none"> <li>• Y=340</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : To provide</li> <li>1◀: Not provided</li> </ul>
CM08	Provide the Caller ID Display/Name Display (Attendant Called/Calling Name Display) for the called extension when a call is terminated via SIP.	<ul style="list-style-type: none"> <li>(1) 379</li> <li>(2) 1◀: To provide</li> </ul>
<u>END</u>		

(c) UBC Bridge Termination/UBC Bridge Forwarding Data Assignment

START	DESCRIPTION	DATA
CM08	Set the operation mode for UBC Bridge to "Station Base".	(1) 1026 (2) 0 : Station Base
CM10	Assign the Premise Extension number for UBC Bridge.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) FX-FXXXXXXX :Digital Multiline Terminal Station No. X-XXXXXXX :Single Line Station No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 0000-1535: Virtual Port No.</li> <li>(2) FX-FXXXXXXX: IP Station No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=04</li> <li>(1) 000-511: Virtual Port No.</li> <li>(2) X-XXXXXXX: Standard SIP station No.</li> </ul>
<p><b>NOTE:</b> When Digital Multiline terminal or IP station is assigned by this command, the second data of each office data below is automatically set to "0" (To provide/To store).</p> <ul style="list-style-type: none"> <li>- CM13 Y=03: 0 (To provide the function of Message Waiting/Message Reminder.)</li> <li>- CM13 Y=41: 0 (To store the call record when answering an extension call.)</li> <li>- CM13 Y=49: 0 (To store the call record when handling an unanswered call.)</li> <li>- CM13 Y=60: 0 (To store the call record when answering a trunk call.)</li> <li>- CM13 Y=61: 0 (To store the call record when handling an unanswered trunk call.)</li> </ul>		
CM12	Assign Service Restriction Class A to each extension.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXX: Premise Extension No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
A		

A	DESCRIPTION	DATA
CM15	Allow UBC Bridge in Service Restriction Class A assigned by CM12 Y=02.  <b>NOTE:</b> <i>This command is set to the Premise Extension.</i>	<ul style="list-style-type: none"> <li>• Y=216</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM64	Assign a trunk access code 1 for call forwarding in UBC Bridge.  <b>NOTE:</b> <i>Assign the access code of the trunk for call forwarding in UBC Bridge.</i>	<ul style="list-style-type: none"> <li>• Y=10</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXX: Trunk Access Code (1-4 digits) X: 0-9, A (*), B (#) NONE◀: No data</li> </ul>
	Assign a trunk access code 2 for call forwarding in UBC Bridge.  <b>NOTE:</b> <i>Assign the access code of the trunk for call forwarding in UBC Bridge when using UBC Bridge with each telecommunications carrier by Mobility Access.</i>	<ul style="list-style-type: none"> <li>• Y=14</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXX: Trunk Access Code (1-4 digits) X: 0-9, A (*), B (#) NONE◀: No data</li> </ul>
	Assign a trunk access code 3 for call forwarding in UBC Bridge.  <b>NOTE:</b> <i>Assign the access code of the trunk for call forwarding in UBC Bridge when UBC Bridge with each telecommunications carrier by Mobility Access.</i>	<ul style="list-style-type: none"> <li>• Y=15</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXX: Trunk Access Code (1-4 digits) X: 0-9, A (*), B (#) NONE◀: No data</li> </ul>
	Assign a trunk access code 4 for call forwarding in UBC Bridge.  <b>NOTE:</b> <i>Assign the access code of the trunk for call forwarding in UBC Bridge when using UBC Bridge with each telecommunications carrier by Mobility Access.</i>	<ul style="list-style-type: none"> <li>• Y=16</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXX: Trunk Access Code (1-4 digits) X: 0-9, A (*), B (#) NONE◀: No data</li> </ul>
B		



B	DESCRIPTION	DATA
CM35	Specify the operation for UBC Bridge Forwarding in tandem connection that the outgoing trunk route of UBC Bridge Forwarding is the same as the incoming trunk route.	<ul style="list-style-type: none"> <li>• Y=373</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Not transfer</li> <li>1◀: To transfer</li> </ul>
CM04	Assign Service activation dial for Cloud Extension in UBC Bridge.	<ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) 0: Disabling service activation dial</li> <li>1: Hooking dial</li> <li>(2) X-XX: Activation dial</li> <li style="padding-left: 20px;">X=0-9, A (*), B (#)</li> </ul>
CM08	Specify the operation for when a Cloud Extension does a hooking form consultation hold.	<ul style="list-style-type: none"> <li>(1) 1028</li> <li>(2) 0 : Three Party Conference</li> <li>1◀: Broker's Call</li> </ul>
<u>END</u>	Set the operation in call back to the Premise Extension.	<ul style="list-style-type: none"> <li>(1) 1029</li> <li>(2) 1◀: Premise Extension</li> </ul>

(2) UBC Bridge Set/Cancel

- To set or cancel UBC Bridge from a Cloud Extension:

START	DESCRIPTION	DATA
CM20	Assign an access code for UBC Bridge.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A231: Station Authorization Code Set/Change</li> </ul>
CM2B	Assign a Station Authorization Code to each station.  <b>NOTE:</b> <i>The maximum number of digits for Authorization Code is set by CM42&gt;73.</i>	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) X-XXXXXXXX: Premise Extension No.</li> <li>(2) X-XXXXXXXX: Authorization Code</li> </ul>
CM42	Specify the number of digits for Station Authorization Code.	<ul style="list-style-type: none"> <li>(1) 73</li> <li>(2) 01-08 : 1-8 digits NONE◀: 4 digits</li> </ul>
<u>END</u>		

- To set or cancel UBC Bridge from a Premise Extension:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM20</div>	Assign an access code for UBC Bridge.  <b>NOTE:</b> <i>Assign CM20 Y=0-3: A267/A268/A269 for Multi-Carrier connection when using Call Forwarding in UBC Bridge.</i>	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A256: UBC Bridge Set (Trunk Access Code 1)</li> <li>A257: UBC Bridge Cancel</li> <li>A267: UBC Bridge Set (Trunk Access Code 2)</li> <li>A268: UBC Bridge Set (Trunk Access Code 3)</li> <li>A269: UBC Bridge Set (Trunk Access Code 4)</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM90</div>	Assign the function key of UBC Bridge Set/Cancel to the Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F0B56: UBC Bridge Set/Cancel</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content;">END</div>		

- To set or cancel UBC Bridge from PCPro/CAT:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CME6</div>	Assign the Cloud Extension number paired with the Premise Extension number.	<ul style="list-style-type: none"> <li>Y=50</li> <li>(1) X-XXXXXXX: Premise Extension No. X-XXXXXXX: Cloud Extension No.</li> <li>(2) (Maximum 6 digits)</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM12</div>	Assign Trunk Access Code for Call Forwarding in UBC Bridge.	<ul style="list-style-type: none"> <li>Y=80</li> <li>(1) X-XXXXXXX: Premise Extension No. 1-4 : Trunk Access Code 1-4</li> <li>(2) NONE◀: Trunk Access Code 1</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; text-align: center;">A</div>		

A	DESCRIPTION	DATA
CM12	Specify whether to provide the UBC Bridge.	<ul style="list-style-type: none"> <li>• Y=88</li> <li>(1) X-XXXXXXX: Premise Extension No.</li> <li>(2) 0 : Available</li> <li style="padding-left: 20px;">1◀: Not available</li> </ul>
	<p><b>NOTE 1:</b> <i>When a trunk number link up with a Premise Extension number (CME6 Y=50) is assigned, the second data is automatically set to “0 (Available)”.</i></p> <p><i>If the trunk number link up with a Premise Extension number is deleted, the second data is automatically set to “1 (Not available)”.</i></p>	
	<p><b>NOTE 2:</b> <i>This command setting is available only when a trunk number link up with a Premise Extension number (CME6 Y=50) is assigned.</i></p>	
END		

(3) Dual Ringing for call forwarding in UBC Bridge

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each extension.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXX: Premise Extension No.</li> <li>(2) XX ZZ</li> <li style="padding-left: 20px;">XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow UBC Bridge in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=216</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
	<p><b>NOTE:</b> <i>This command is set to the Premise Extension.</i></p>	
CM41	Specify the dual ringing starting timer while an alert from Cloud UC server is not received.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 162</li> <li>(2) 01-60: 1-60 seconds (1 second increment)</li> </ul> <p>If no data is set, the default setting is 8 seconds.</p>
	<p><b>NOTE:</b> <i>Dual ringing timer is not started when this data is set to “00”.</i></p>	
END		

To set or cancel Dual Ringing from Premise Extension:

START	DESCRIPTION	DATA
CM20	Assign an access code for Dual Ringing.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access code</li> <li>(2) A261: Dual Ringing Set A262: Dual Ringing Cancel</li> </ul>
CM90	Assign the function key of Dual Ringing Set/Cancel to the Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0B61: Dual Ringing Set/Cancel</li> </ul>
END		

To set or cancel Dual Ringing from PCPro/CAT:

START	DESCRIPTION	DATA
CM12	Allow Dual Ringing.	<ul style="list-style-type: none"> <li>Y=77</li> <li>(1) X-XXXXXXX: Premise Extension No. 0 : Available</li> <li>(2) 1◀: Not available</li> </ul>
END		

(4) Calling Party Number (DID number) of Premise Extension displayed on the Cloud Extension  
Refer to “SID TO NETWORK-PRESENT/CPN TO NETWORK-PRESENT” [Page 3-59](#)

(5) Call Forwarding-No Answer/Busy Line for call forwarding in UBC Bridge/  
Call Forwarding-No Answer/Busy Line for call forwarding from a Cloud Extension

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each extension.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXX: Premise Extension No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
A		

A	DESCRIPTION	DATA
CM15	<p>Allow Call Forwarding-No Answer/-Busy Line in Service Restriction Class A assigned by CM12 Y=02.</p> <p>Allow Call Forwarding-No Answer for call forwarding in UBC Bridge in Service Restriction Class A assigned by CM12 Y=02.</p>	<ul style="list-style-type: none"> <li>• Y=012 Call Forwarding-Busy Line/No Answer</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul> <ul style="list-style-type: none"> <li>• Y=219</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	<p>Assign the access code for Call Forwarding-No Answer/Busy Line Set and Cancel, respectively.</p>	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A012: Call Forwarding-No Answer/Busy Line Set</li> <li>A013: Call Forwarding-No Answer/Busy Line Cancel</li> </ul>
CM41	<p>Specify the timing for Call Forwarding-No Answer for call forwarding in UBC Bridge, as required.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 161</li> <li>(2) 01-30: 0-120 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
CM90	<p>Assign Call Forwarding-No Answer/Busy Line keys to the Multiline Terminal.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0014: Call Forwarding-Busy Line Set/Cancel</li> <li>F0016: Call Forwarding-No Answer Set/Cancel</li> </ul> <p>For setting the same key as Call Forwarding-No Answer/Busy Line</p> <ul style="list-style-type: none"> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0012: Call Forwarding-No Answer/Busy Line Set/Cancel</li> </ul>
<u>END</u>		

(6) Call Forwarding-All Calls of Premise Extension/Call Forwarding-All Calls from a Cloud Extension

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each extension.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXX: Premise Extension No. XX ZZ</li> <li>(2) XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Forwarding-All Calls of UBC Bridge call in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=218</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
<b>NOTE:</b> <i>This command is set to the Premise Extension.</i>		
CM12	Assign Service Restriction Class C to each extension.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXX: Premise Extension No. 00-15◀: Service Restriction Class C</li> <li>(2)</li> </ul>
A		





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(7) Other services of UBC Bridge from Cloud Extension

The services of UBC Bridge from Cloud Extension as shown below have the same functions as the services from Single Line Telephone. For details, refer to each feature description.

<b>FEATURE NAME</b>	<b>REFERENCE PAGE</b>
Call Park	<a href="#">Page 1-164</a>
Call Pickup	<a href="#">Page 1-168</a>
Call Transfer	<a href="#">Page 1-173</a>
Station Speed Dialing	<a href="#">Page 1-770</a>
System Speed Dialing	<a href="#">Page 1-783</a>
Camp-On (Transfer Method)	<a href="#">Page 1-208</a>

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## ***USER WEB PORTAL***

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### **PROGRAMMING**

This section explains the basic system data requiring the settings to use User Web Portal and the settings of each service.

- |  |  |
|--|--|
| (1) Basic Data Assignment for User Web Portal            |  <a href="#">Page 1-887</a> |
| (2) Common Directory/Personal Directory Registration     |  <a href="#">Page 1-893</a> |
| (3) Data Assignment for Storing Call History             |  <a href="#">Page 1-896</a> |
| (4) Login Password Data Assignment for User Web Portal   |  <a href="#">Page 1-899</a> |
| (5) Confirmation of User Setting Data by User Web Portal |  <a href="#">Page 1-900</a> |
| (6) Clearing User Setting Data by User Web Portal        |  <a href="#">Page 1-902</a> |

As for the following service features, refer to the each related manual.

- Fault Information Display of User Web Portal by User Operation → System Maintenance Manual
- Log Collection of User Web Portal → PC Programming Manual

(1) Basic Data Assignment for User Web Portal

START	DESCRIPTION	DATA
<p>CM0B</p>	<p>When connecting to User Web Portal via the Maintenance Port, assign the IP address/Subnet Mask/Default Gateway of the system for the Maintenance Port.</p>	<ul style="list-style-type: none"> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])               <ul style="list-style-type: none"> <li>(1) 00: IP Address <b>RESET</b></li> <li>(2) XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: IP Address (Maximum 15 digits) NONE◀: 192.168.1.1</li> </ul> </li> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])               <ul style="list-style-type: none"> <li>(1) 01: Subnet Mask <b>RESET</b></li> <li>(2) XXX.XXX.XXX.XXX: 255.0.0.0-255.255.255.252: Subnet Mask (Maximum 15 digits) NONE◀: No data</li> </ul> </li> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])               <ul style="list-style-type: none"> <li>(1) 02: Default Gateway <b>RESET</b></li> <li>(2) XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: Default Gateway Address (Maximum 15 digits) NONE◀: No data</li> </ul> </li> </ul>
<p>A</p>		

A	DESCRIPTION	DATA
CM0B	<p>When connecting to User Web Portal via the VOIP Port, assign the IP address/Subnet Mask/Default Gateway of the system for the VOIP Port.</p>	<ul style="list-style-type: none"> <li>• Y=101 (VOIP Port [1] + Unit No. [01])               <ol style="list-style-type: none"> <li>(1) 00: IP Address <b>RESET</b></li> <li>(2) XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: IP Address (Maximum 15 digits) NONE◀: No data</li> </ol> </li> <li>• Y=101 (VOIP Port [1] + Unit No. [01])               <ol style="list-style-type: none"> <li>(1) 01: Subnet Mask <b>RESET</b></li> <li>(2) XXX.XXX.XXX.XXX: 255.0.0.0-255.255.255.252: Subnet Mask (Maximum 15 digits) NONE◀: No data</li> </ol> </li> <li>• Y=101 (VOIP Port [1] + Unit No. [01])               <ol style="list-style-type: none"> <li>(1) 02: Default Gateway <b>RESET</b></li> <li>(2) XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: Default Gateway Address (Maximum 15 digits) NONE◀: No data</li> </ol> </li> </ul>
B	<p>Allow the connection with User Web Portal via the Maintenance Port and the VOIP Port.</p>	<ul style="list-style-type: none"> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])               <ol style="list-style-type: none"> <li>(1) 21</li> <li>(2) 0: Allow</li> </ol> </li> <li>• Y=101 (VOIP Port [0] + Unit No. [01])               <ol style="list-style-type: none"> <li>(1) 21</li> <li>(2) 0: Allow</li> </ol> </li> </ul>

B	DESCRIPTION	DATA
CM0B	<p>Assign the connection mode for User Web Portal.</p> <p><b>[9300V8 software required]</b></p> <p><b>NOTE:</b> <i>This setting is also applied to the system when connecting User Web Portal via VoIP Port.</i></p>	<ul style="list-style-type: none"> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])</li> <li>(1) 23</li> <li>(2) 0 : HTTPS</li> <li>1◀: HTTP</li> </ul>
	<p>Assign the connection port number for User Web Portal.</p> <p><b>NOTE 1:</b> <i>This setting is also applied to the system when connecting User Web Portal via VoIP Port.</i></p> <p><b>NOTE 2:</b> <i>The default value is as follows depending on the connection mode that is assigned by CM0B.</i></p> <p><i>Y=001&gt;23.</i></p> <ul style="list-style-type: none"> <li>- HTTP (CM0B Y=001&gt;23:1◀): Port No. 80</li> <li>- HTTPS (CM0B Y=001&gt;23:0): Port No. 443*</li> </ul> <p><i>* Port No. 443 is available for 9300V8 software or later.</i></p>	<ul style="list-style-type: none"> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])</li> <li>(1) 22</li> <li>(2) 1024-65534</li> <li>NONE◀: 80/443 (HTTP/HTTPS)</li> </ul>
C		

C	DESCRIPTION	DATA
CM41	<p>Assign the automatic logout timer for User Web Portal.  <b>[9300V3 software required]</b></p> <p><b>NOTE:</b> <i>A timer value indicates non-operation time after logging in. Web Server reset (assigned by CME0 Y=C) is required to activate a change to this data.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 216</li> <li>(2) 01-14: 1-14 hours (1 hour increment)</li> </ul> <p>If no data is set, the default setting is 0.5 hours.</p>
CM08	<p>Specify the communication speed for User Web Portal.  <b>[9300V4 software required]</b></p> <p><b>NOTE:</b> <i>Coexisting the VoIP communication, PCPro and Web communication in a narrowband network may affect the voice quality. In that case, set the second data to 0 (Low-speed).</i></p> <p>Specify whether to call my station when dialing from User Web Portal.  <b>[9300V4 software required]</b></p> <p><b>NOTE:</b> <i>This command is effective only for Multiline Terminals and Soft Phone.</i></p> <p>Specify how to display the telephone No. column of Directory/History on User Web Portal.  <b>[9300V4 software required]</b></p>	<ul style="list-style-type: none"> <li>(1) 1960</li> <li>(2) 0 : Low-speed [same as 9300V3 or before]</li> <li>1◀: High-speed</li> </ul>
		<ul style="list-style-type: none"> <li>(1) 1051</li> <li>(2) 0 : Not available (Automatic dial by handsfree)</li> <li>1◀: Available (Response to call)</li> </ul>
		<ul style="list-style-type: none"> <li>(1) 1412</li> <li>(2) 0 : Dial Prefix + Telephone No.</li> <li>1◀: Telephone No. only</li> </ul>
CM73	<p>To use the Common Directory/Personal Directory, specify the usage of System Speed Dialing for each 1000 Slot Memory Block of Speed Dialing memory.</p> <p><b>NOTE:</b> <i>A maximum of 10 blocks can be assigned.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00-99: 1000-Slot Memory Block No.</li> <li>(2) 0 : System Speed Dialing (for individual tenants)</li> <li>1 : System Speed Dialing (for all tenants) (Up to 10 blocks)</li> <li>NONE◀: Station Speed Dialing/One touch Memory</li> </ul>
D		

D

CM73

E

**DESCRIPTION**

**DATA**

When using the Common Directory, allocate the memory area for System Speed Dialing.

**NOTE:** *Allocate a tenant-based memory area to each 1000-Slot Memory Block No. assigned as System Speed Dialing (for individual tenants) by CM73 Y=0.*

When using the Personal Directory, allocate the memory area for Station Speed Dialing.

**NOTE:** *Allocate a station-based memory area to each 1000-Slot Memory Block No. for which any data is not assigned for System Speed Dialing/ Malicious Call List by CM73 Y=0.*

- Y=2
- (1) 00-63: Tenant No.
- (2) WW XX YYYY Z
  - WW : 00-99: 1000-Slot Memory Block No.
  - XX : 00-99: 10-Slot Memory Start Block No.
  - YYYY: 0001-1000: Number of 10-Slot Memory Blocks
  - Z : 0: To allocate memory area only for individual tenants  
1: To allocate both memory areas for individual tenants and for all tenants
  - FFFFFFFF: To allocate only common memory area for all tenants.
  - NONE◀: No data

- Y=1
- (1) X-XXXXXXXX: Station No.
- (2) WW XX YYY Z
  - WW : 00-99: 1000-Slot Memory Block No.
  - XX : 00-99: 10-Slot Memory Start Block No.
  - YYY: 001-100: Number of 10-Slot Memory Blocks
  - Z : Availability of programming for the dialed No. from the station:  
0: Allowed  
1: Not allowed
  - NONE◀: No data

E	DESCRIPTION	DATA
CM12	<p>Specify the user permission for User Web Portal.</p> <p><b>NOTE 1:</b> <i>The user permission for User Web Portal can also be set on the screen of User Web Portal (usually, set the user permission from User Web Portal).</i></p> <p><b>NOTE 2:</b> <i>When any user permission has been assigned by using User Web Portal (i.e. when a value other than NONE has been set to the 2nd data of CMEF Y=08), the setting assigned by CMEF Y=08 takes priority over the setting of this command.</i></p>	<ul style="list-style-type: none"> <li>• Y=55</li> <li>(1) X-XXXXXXXXX:Station No. (Login ID of User Web Portal) X: 0-9, A, B, (*), (#)</li> <li>(2) 0 : Administrator 1 : Supervisor 2 : User 3 : Unauthorized User NONE◀: User</li> </ul>
CME0	Reset the web server.	<ul style="list-style-type: none"> <li>• Y=C</li> <li>(1) 01: Unit01</li> <li>(2) 0: Start to reset (write only)</li> </ul>
<u>END</u>		



(2) Common Directory/Personal Directory Registration

**NOTE:** *Common Directory/Personal Directory can also be set on the screen of User Web Portal.*

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM74</div>	<p>Assign a Called Party Number to the Speed Dialing memory.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) WW XX Z                      WW:00-99: 1000-Slot Memory Block No.                      XX :00-99: 10-Slot Memory Block No.                      Z :0-9: Memory Parcel No.</li> <li>(2) Called Party No.:                      Trunk Access Code (Maximum 4 digits) + <input type="text"/> + Called Party No. (Maximum 26 digits)                      To set a pause into the Called Party No., enter “C” (Fixed Pause=1.5 seconds) or “D” (Programmable Pause specified by CM41 Y=0&gt;38) after desired digits.                      NONE◀: No data</li> </ul>
	<p>Assign a Called Party Name to the Speed Dialing memory.</p>	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) WW XX Z                      WW: 00-99: 1000-Slot Memory Block No.                      XX : 00-99: 10-Slot Memory Block No.                      Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name (Maximum 16 characters) by entering with character codes. See APPENDIX A: Character Code Table.  <a href="#">Page A-2</a>                      NONE◀: No data</li> </ul>
	<p>Assign a Called Party Name to the Speed Dialing memory.</p>	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) WW XX Z                      WW: 00-99: 1000-Slot Memory Block No.                      XX : 00-99: 10-Slot Memory Block No.                      Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX: Called Party Name (Maximum 16 characters) by entering from PCPro.                      NONE◀: No data</li> </ul>

A

A

CM74

**DESCRIPTION**

Assign the illumination color of Multiline Terminal to the Speed Dialing memory.

**DATA**

- Y=8
- (1) WW XX Z  
 WW: 00-99: 1000-Slot Memory Block No.  
 XX : 00-99: 10-Slot Memory Block No.  
 Z : 0-9: Memory Parcel No.
- (2) 0 : Pattern 0  
 1 : Pattern 1  
 2 : Pattern 2  
 3 : Pattern 3  
 4 : Pattern 4  
 5 : Pattern 5  
 6 : Pattern 6  
 7 : Pattern 7  
 NONE ◀: As per CM12 Y=83/CM76 Y=72

**NOTE2**

**NOTE 1:** When an illumination color is changed by the Directory of User Web Portal, the setting is applied to this data.

**NOTE 2:** The illumination color for each pattern can be set as shown in the table below depending on the terminal type (7-color LED/3-color LED).

Pattern No.	7-color LED Terminal	3-color LED Terminal		
	DT530/DT730/DT730CG/ DT730DG/DT730 DESI-less/ DT830/DT830CG/DT830DG/ DT830 DESI-less/DT830DG DESI-less/DT900 Series	DT310/DT330/ DT410/DT430/ DT430 DESI-less/ DT510/DT710/ DT820	DT710 DESI-less	DT820 DESI-less
Pattern 0	Red	Red	Red	Red
Pattern 1	Green	Green	Green	Green
Pattern 2	Blue	Yellow	-	Yellow
Pattern 3	Yellow	Yellow	Yellow	Yellow
Pattern 4	Purple	Yellow	-	Yellow
Pattern 5	Light blue	Yellow	-	Yellow
Pattern 6	White	Yellow	-	Yellow
Pattern 7	7-color rotation	Yellow	3-color rotation	3-color rotation

**NOTE 3:** For DT820 including a DESI-less terminal, use the 9300V3 STEP2 software or later. When the DT820 is connected to SV9300 using the 9300V3 software or before, the DT820 operates as DT710.

B

B	DESCRIPTION	DATA
CM74	<p>Assign a department to the Speed Dialing memory.  <b>[9300V4 software required]</b></p> <p><b>NOTE:</b> <i>When a department is changed by the Directory of User Web Portal, the setting is applied to this data.</i></p>	<ul style="list-style-type: none"> <li>• Y=A</li> <li>(1) WW XX Z                      WW: 00-99: 1000-Slot Memory Block No.                      XX : 00-99: 10-Slot Memory Block No.                      Z : 0-9: Memory Parcel No.</li> <li>(2) 00-99 : Department No.                      NONE◀: No data</li> </ul>
CM77	<p>Assign a department name to be displayed on User Web Portal.  <b>[9300V4 software required]</b></p> <p><b>NOTE:</b> <i>When a department name is changed by the Department Name Menu of User Web Portal, the setting is applied to this data.</i></p>	<ul style="list-style-type: none"> <li>• Y=F</li> <li>(1) 00-99: Department No.</li> <li>(2) XX...XX: Department Name (Maximum 64 characters)</li> <li>NONE◀: No data</li> </ul>
<u>END</u>		

(3) Data Assignment for Storing Call History

START	DESCRIPTION	DATA
<p>CM08</p>	<p>Specify whether to provide the system with Last Number Redial for Single Line Telephone/Standard SIP station.</p>	<p>(1) 177                      (2) 0 : Available                      1◀: Not available</p>
	<p><b>NOTE:</b> <i>To store the outgoing call histories of Single Line Station/Standard SIP station, set the second data to 0 (Available).</i></p>	
<p>CM13</p>	<p>Specify whether to store the call history (IC) when answering a station call.</p>	<p>• Y=41                      (1) X-XXXXXXXX: Station No.                      (2) 0 : To store                      1◀: Not stored</p>
	<p><b>NOTE:</b> <i>To store the incoming call histories of Single Line Station/Standard SIP station, set the second data to 0 (To store).                      For Multiline Terminals, the second data is automatically set to 0 (To store) when assigning a station number.</i></p>	
	<p>Specify whether to store the call history (IC) when handling of unanswered call.</p>	<p>• Y=49                      (1) X-XXXXXXXX: Station No.                      (2) 0 : To store                      1◀: Not stored</p>
	<p><b>NOTE:</b> <i>To store the incoming call histories of Single Line Station/Standard SIP station, set the second data to 0 (To store).                      For Multiline Terminals, the second data is automatically set to 0 (To store) when assigning a station number.</i></p>	
<p>A</p>		

A

CM13

END

**DESCRIPTION**

**DATA**

Specify whether to store the call history (IC) when answering a trunk call.

**NOTE:** *To store the incoming call histories of Single Line Station/Standard SIP station, set the second data to 0 (To store).  
For Multiline Terminals, the second data is automatically set to 0 (To store) when assigning a station number.*

Specify whether to store the call history (IC) when handling of unanswered a trunk call.

**NOTE:** *To store the incoming call histories of Single Line Station/Standard SIP station, set the second data to 0 (To store).  
For Multiline Terminals, the second data is automatically set to 0 (To store) when assigning a station number.*

- Y=60
- (1) X-XXXXXXXX: Station No.
- (2) 0 : To store
- 1◀: Not stored

- Y=61
- (1) X-XXXXXXXX: Station No.
- (2) 0 : To store
- 1◀: Not stored

(4) Mobility Access Setting for User Web Portal  
**[9300V5 software required]**

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	Specify whether to store the input history on User Web Portal.	(1) 1414 (2) 0 : Not available 1◀: Available
END	<p><b>NOTE:</b> <i>When the second data is set to “0”, history of input from User Web Portal is not stored.</i></p>	

(5) Login Password Data Assignment for User Web Portal

**NOTE:** Login password can also be assigned on the screen of User Web Portal.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM2B</div>	Assign the login password for User Web Portal.	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) X-XXXXXXXXX: Station No. (Login ID of User Web Portal) X: 0-9, A, B, (*), (#)</li> <li>(2) X-XX...XX: Password of User Web Portal (1-16 digits)</li> <li>NONE◀ : No data</li> </ul>
	<p><b>NOTE 1:</b> The following characters can be used for a password; Alphabet upper case (A-Z), alphabet lower case (a-z), numeric (0-9), symbol (! " # \$ % &amp; ' ( ) * + , : ; &lt; = &gt; ? @ [ ] ^ _ ` {   } ~), Space, hyphen (-), period (.), slash (/), backslash (\)</p> <p><b>NOTE 2:</b> The character string "CCC" cannot be registered when setting this data in CAT mode. (If "CCC" is entered, a password clearing will be performed.)</p> <p><b>NOTE 3:</b> If a password has been already set by this command, **** (4 digits fixed) is displayed regardless of the number of digits set for the password.</p>	
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

(6) Confirmation of User Setting Data by User Web Portal

User setting data by User Web Portal can be confirmed by the following system data (set details can also be changed).

(a) To confirm the user setting of Name Display:

START	DESCRIPTION	DATA
START   [ CMEF ]   END	Read the setting of Name Display.  <b>NOTE:</b> <i>When using the CAT mode, available alphanumeric characters are 0-9 and A-F.</i>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXXXXXX: Station No. X: 0-9, A, B, (*), (#)</li> <li>(2) XXX...X: Name to be displayed with characters (maximum 16 digits) NONE◀: As per CM77 Y=1</li> </ul>

(b) To confirm the displayed details of My Line Information Display:

START	DESCRIPTION	DATA
START   [ CMEF ]   END	Read the setting of Name Display.	<ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) X-XXXXXXXX: Station No. X: 0-9, A, B, (*), (#)</li> <li>(2) 0 : Station No. 1 : Station Name 2 : Station No. + Station Name 3 : Station Name + Station No. NONE◀: As per CM12 Y=57</li> </ul>



(c) To confirm the Illumination Color of Multiline Terminal for Internal Call/External Call:

START

DESCRIPTION

DATA

CMEF

Assign the illumination color of Multiline Terminal for internal call/external call.

- Y=6 Illumination Color of Multiline Terminal for Internal Call
  - Y=7 Illumination Color of Multiline Terminal for External Call
- (1) X-XXXXXXXXX: Station No.  
X: 0-9, A, B, (\*), (#)
- (2) 0 : Pattern 0  
1 : Pattern 1  
2 : Pattern 2  
3 : Pattern 3  
4 : Pattern 4  
5 : Pattern 5  
6 : Pattern 6  
7 : Pattern 7
- NONE ◀: As per CM12 Y=83 (for Internal Call)/As per CM12 Y=84 (for External Call)

**NOTE 1**

**NOTE 1:** The illumination color for each pattern can be set as shown in the table below depending on the terminal type (7-color LED/3-color LED).

Pattern No.	7-color LED Terminal	3-color LED Terminal		
	DT530/DT730/DT730CG/ DT730DG/DT730 DESI-less/ DT830/DT830CG/ DT830DG/DT830 DESI-less/ DT830DG DESI-less/ DT900 Series	DT310/DT330/ DT410/DT430/ DT430 DESI-less/ DT510/DT710/ DT820	DT710 DESI-less	DT820 DESI-less
Pattern 0	Red	Red	Red	Red
Pattern 1	Green	Green	Green	Green
Pattern 2	Blue	Yellow	-	Yellow
Pattern 3	Yellow	Yellow	Yellow	Yellow
Pattern 4	Purple	Yellow	-	Yellow
Pattern 5	Light blue	Yellow	-	Yellow
Pattern 6	White	Yellow	-	Yellow
Pattern 7	7-color rotation	Yellow	3-color rotation	3-color rotation

**NOTE 2:** For DT820 including a DESI-less terminal, use the 9300V3 STEP2 software or later. When the DT820 is connected to SV9300 using the 9300V3 software or before, the DT820 operates as DT710.

**NOTE 3:** For DT700/DT800/DT900 Series terminals, follow the setting of the terminal if its color-coding method for a distinction between an internal call and an external call is set to a method other than "Automatic".

END

(d) To confirm the setting of User Permission for User Web Portal:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CMEF</div>	Read the setting of user permission for User Web Portal.	<ul style="list-style-type: none"> <li>• Y=08</li> <li>(1) X-XXXXXXXX: Station No. X: 0-9, A, B, (*), (#)</li> <li>(2) 0 : Administrator 1 : Supervisor 2 : User 3 : Unauthorized User NONE◀: As per CM12 Y=55</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

(7) Clearing User Setting Data by User Web Portal

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CMEF</div>	Clear the user setting data by User Web Portal.	<ul style="list-style-type: none"> <li>• Y=90</li> <li>(1) X-XXXXXXXX: Station No. X: 0-9, A, B, (*), (#)</li> <li>(2) CCC: User setting data all clear</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

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# VARIABLE TIMING PARAMETERS

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## PROGRAMMING

START	DESCRIPTION	DATA
CM41	<p>Specify the Timing Parameters according to the user's requirements.</p> <p><b>NOTE:</b> <i>If no data is set (Displayed "NONE") the standard timing which is initially set is applied.</i></p>	<ul style="list-style-type: none"><li>• Y=0-3</li><li>(1) XX: See the Command Manual.</li><li>(2) XX: See the Command Manual.</li></ul>
END		

# VOICE GUIDE

## PROGRAMMING

To provide the message that is sent when a station goes off-hook while Message Waiting/Call Forwarding-All Calls/Do Not Disturb service is set to the station:

START	DESCRIPTION	DATA
 CM08	Provide the multiple connections of the Voice Response System (VRS) on Announcement Service.	(1) 124 (2) 0: Available
CM12	Assign Service Restriction Class A for Announcement Service to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Announcement Service in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=034 Announcement Service Group 0 (Replay)</li> <li>• Y=035 Announcement Service Group 1 (Replay)</li> <li>• Y=036 Announcement Service Group 2 (Replay)</li> <li>• Y=037 Announcement Service Group 3 (Replay)</li> <li>• Y=038 Announcement Service Group 4 (Replay)</li> <li>• Y=039 Announcement Service Group 0-4 (Record)</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
 A		

A	DESCRIPTION	DATA
CM20	Assign access codes for Announcement Service.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A103: Announcement Service Group 0-4 (Record)</li> <li>A104: Announcement Service Group 0 (Replay)</li> <li>A105: Announcement Service Group 1 (Replay)</li> <li>A106: Announcement Service Group 2 (Replay)</li> <li>A107: Announcement Service Group 3 (Replay)</li> <li>A108: Announcement Service Group 4 (Replay)</li> <li>A109: Announcement Service Group 0-4 (Delete)</li> </ul>
CM48	Specify the dial tone, which is sent when a station goes off-hook while the service is set for the station, as Special Dial Tone.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 12: Dial Tone on setting Message Reminder</li> <li>13: Dial Tone on setting Call Forwarding-All Calls</li> <li>14: Dial Tone on setting Do Not Disturb</li> <li>(2) 0: Special Dial Tone</li> </ul>
CM15	Allow Voice Guide set by CM48 Y=2>12, 13, 14 in Service Restriction Class A assigned by CM12.	<ul style="list-style-type: none"> <li>• Y=116</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12</li> <li>(2) 1◀: Allow</li> </ul>
CM49	Assign the Voice Guide function for each Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 17XX: Voice Guide</li> <li>XX : 00-63: Message No.</li> </ul>
	Assign the Message sent when the station goes off-hook.	<ul style="list-style-type: none"> <li>• Y=13</li> <li>(1) 00: Message sent when Message Waiting is set</li> <li>03: Message sent when Call Forwarding-All Calls/Do Not Disturb is set</li> <li>(2) 00-63: Message No. assigned by CM49</li> <li>Y=00</li> </ul>
<u>END</u>		

**NOTE 1:** While both Message Waiting and Call Forwarding-All Calls/Do Not Disturb Service are set to the station, the message assigned by CM49 Y=13>00 is sent.

**NOTE 2:** While Message Reminder (from station/attendant) Service is set to the station, the message assigned by CM49 Y=13>00 is sent.

**NOTE 3:** While Split Call Forwarding-All Calls Service is set to the station, the message assigned by CM49 Y=13>03 is sent.

To provide the Message which is sent when the service setting to the station is completed or canceled:

START	DESCRIPTION	DATA
CM49	Assign the Voice Guide function for each Voice Response System.  Assign the message number when service setting is completed or canceled to station.  <b>NOTE:</b> This data is not available for IP Station.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 17XX: Voice Guide XX : 00-63: Message No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=13</li> <li>(1) 01: Message sent when service is set 02: Message sent when service is canceled</li> <li>(2) 00-63: Message No. assigned by CM49 Y=00</li> </ul>
CM41	Assign the Message Replay Timer for Announcement Service.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 53</li> <li>(2) 01-99: 4-396 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 60-64 seconds.</p>
END		

## HARDWARE REQUIRED

CPU blade (VRS using a built-in Flash ROM)

# VOICE MAIL INTEGRATION (ANALOG)

## PROGRAMMING

In addition to the programming of CALL FORWARDING-ALL CALLS/BUSY LINE/NO ANSWER, do the following programming.

START	DESCRIPTION	DATA
CM08	Specify whether Ringing Transfer to an Attendant via VMS is available.	(1) 063 (2) 0 : Available 1◀: Not available
	Specify whether to send the Mail Box number to the VMS when the VMS is recalled after transferring a call to an unanswered station.	(1) 333 (2) 0 : To send 1◀: Not sent
CM13	Provide Message Waiting service for a station with MW lamp.	<ul style="list-style-type: none"> <li>Y=03</li> </ul> (1) X-XXXXXXXX: Station No. (2) 0: To provide
	<b>NOTE:</b> <i>The 2nd data of this command is automatically set to 0 (To provide) when Digital Multiline terminal/IP station No. (FX-FXXXXXXXX) is assigned by CM10 Y=00/01.</i>	
	Provide VMS service for a station port interfaced with the VMS (VMS station).	<ul style="list-style-type: none"> <li>Y=10</li> </ul> (1) X-XXXXXXXX: Station No. (2) 0: To provide
	Provide Message Waiting service for a VMS station port.	<ul style="list-style-type: none"> <li>Y=13</li> </ul> (1) X-XXXXXXXX: Station No. (2) 0: To provide
CM12	Assign Service Restriction Class A for Message Waiting to a station with a MW lamp and a VMS station port.	<ul style="list-style-type: none"> <li>Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
A		

A	DESCRIPTION	DATA
CM15	Allow Message Waiting in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=024 Station with MW lamp</li> <li>• Y=040 VMS Station with MW lamp control</li> </ul> <ol style="list-style-type: none"> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ol>
CM20	Assign the access code for MW lamp Set/Reset from a VMS station port.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> </ul> <ol style="list-style-type: none"> <li>(1) X-XXXX: Access code</li> <li>(2) A040: Set A041: Reset</li> </ol>
CM50	Assign the access code to retrieve a message from the VMS and search Message Reminder/Message Waiting.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> </ul> <ol style="list-style-type: none"> <li>(1) X-XXXX: Access code</li> <li>(2) A146: Search A147: Retrieve</li> </ol>
CM50	Assign the access code to be sent out to a VMS after/before a Mail Box number, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> <ol style="list-style-type: none"> <li>(1) 3: Access Code to be sent out before a Mail Box No. <b>NOTE 1</b> 4: Access Code to be sent out after a Mail Box No.</li> <li>(2) XX-XXXX: Access code to be sent out to a VMS X: 0-9, A (*), B (#), C/D (Pause) <b>NOTE 2</b> NONE ◀: Not sent out</li> </ol>
	<p><b>NOTE 1:</b> "C" or "D" should not be assigned as the first digit of an access code, to insert prepause timing. Preactive timing is assigned by CM41 Y=0&gt;44.</p> <p><b>NOTE 2:</b> If "C" is inserted in the access code, it can be used as a pause (1.5 seconds). To provide a programmable pause, insert "D" instead of "C" (Programmable Pause: CM41 Y=0&gt;38).</p>	
CM41	Specify the prepause timing, DTMF signal width and Interdigit Pause for VMS.	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> <ol style="list-style-type: none"> <li>(1) 44: Preactive Timing</li> <li>(2) 00-12, 13: 0-12, 0.5 seconds</li> </ol> <p>If no data is set, the default setting is 1 second.</p>
B		



B	DESCRIPTION	DATA
CM41	Specify the DTMF signal width for VMS.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 48</li> <li>(2) 00: 64 ms. 01: 128 ms.</li> </ul> <p>If no data is set, the default setting is 128 ms.</p>
	Specify the DTMF Interdigit Pause for VMS.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 49</li> <li>(2) 00: 32 ms.            04: 120 ms 01: 64 ms.                05: 160 ms. 02: 80 ms.                06: 200 ms. 03: 100 ms.               07: 240 ms.</li> </ul> <p>If no data is set, the default setting is 160 ms.</p>
CM77	Assign VMS display, if required.	<ul style="list-style-type: none"> <li>• Y=0 By Character Code</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 564D53: VMS character code</li> <li>• Y=1 By Character using PCPro</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) VMS (Character)</li> </ul>
CM51	Assign the VMS station as the destination of a call from a station which is set Message.	<ul style="list-style-type: none"> <li>• Y=15</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXXXX: VMS Station No.</li> </ul>
CM90	Assign the MW lamp on a Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1005: MW Lamp</li> </ul>
	To access the VMS from DESKCON, assign Out Pulse (DTMF signal) -short/long key.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) DESKCON No. (E000-E007) + <input type="text"/> + Key No.</li> <li>(2) F6112: Out Pulse (DTMF signal)-short F6113: Out Pulse (DTMF signal)-long</li> </ul>
C		

C	DESCRIPTION	DATA
CM41	<p>When Out Pulse (DTMF signal)-long is designated by CM90, assign the DTMF signal width.</p> <p><b>NOTE:</b> <i>When Out Pulse (DTMF signal)-short is designated by CM90, DTMF signal width is set to 128 ms. (Fixed).</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 14: DTMF signal width</li> <li>(2) 01-50: 64-3200 ms. (64 ms. increments)</li> </ul> <p>If no data is set, default setting is 512 ms.</p>
CM65	<p>Assign Password Privacy for the Tenant number of the VMS ports.</p> <p><b>NOTE:</b> <i>This is effective for ports assigned as VMS ports in CM13 Y=10.</i></p>	<ul style="list-style-type: none"> <li>• Y=30</li> <li>(1) 00-63: Tenant No. of VMS ports</li> <li>(2) 0 : Allow 1 ◀: Not allowed</li> </ul>
END		

To provide the Message Waiting Indication per line when a Multiline Terminal accommodates multiline:

START	DESCRIPTION	DATA
CM11	Assign a Virtual Line station number to required Virtual Port number.  <b>NOTE:</b> <i>The Virtual Port number has no relation with the Physical Port number used in CM10 Y=00. Therefore, any Virtual Port number can be assigned to each Virtual Line station number. However, the Virtual Line station number should be different from Single line number assigned by CM10 Y=00.</i>	(1) 0000-0999: Virtual Port No. (2) X-XXXXXXXX: Virtual Line station No.
CM90	Accommodate the Virtual Line to the Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) My Line No. + <input type="text"/> + Key No. (2) X-XXXXXXXX: Virtual Line station No.
CM08	Provide the system with Message Waiting indication on both My Line and Sub Line of Multiline Terminal.	(1) 140 (2) 0: Available
CM12	Specify the Message Waiting Lamp Indication on Line/Trunk/Feature keys of Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=62</li> </ul> (1) X-XXXXXXXX: Station No. (2) 0 : Not indicated 3◀: Message Waiting Lamp Indication
END		

The specify whether to light MW lamp on Multiline Terminal for each service of MW lamp control, refer to the programming in INCOMING CALL HISTORY (CID CALL BACK). [Page 1-157](#)

## ***VOICE MAIL LIVE RECORD***

**NOTE:** *As for the programming of VOICE MAIL LIVE RECORD, refer to the UM8000 Installation Manual.*

# VOICE MAIL TRANSFER

## PROGRAMMING

To transfer a call from an Attendant to a VMS, if Camp-On is set to the transferred destination, and that is not answered by predetermined timing:

START	DESCRIPTION	DATA
CM08	Provide the system with VMS transfer.	(1) 428: VMS transfer with Camp-On (2) 0: To provide
CM41	Specify the timer of Attendant Recall for Camp-On.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 00: Attendant Recall Timer</li> <li>(2) 01-14: 2.4-33.6 seconds (2.4 second increments)</li> <li>15-24: 38.4-124.8 seconds (9.6 second increments)</li> </ul> If no data is set, the default setting is 31.2-33.6 seconds.
CM51	Specify the destination VMS station number when a Camp-On call is not answered. The first data should be the tenant number of the destination station called.	<ul style="list-style-type: none"> <li>• Y=18 Destination VMS No. assignment</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXXXX: VMS Pilot No.</li> </ul>
END		

## VRS WAITING MESSAGE

### PROGRAMMING

- (1) To provide the type of VRS Waiting Message and operation.  
 (a) When Ring Down calls is provided

START	DESCRIPTION	DATA
CM35 	Assign the type of VRS Waiting Message to the required trunk routes.	<ul style="list-style-type: none"> <li>• Y=320 Day Mode</li> <li>• Y=321 Night Mode</li> <li>• Y=322 Mode A</li> <li>• Y=323 Mode B</li> </ul> (1) 00-63: Trunk Route No. (2) 0 : To provide VRS Waiting Message function (Announcement Service Start after Call Termination) 1 : To provide VRS Waiting Message (Greeting Mode) 3◀: Not available
	Assign the Message No. for 1st VRS Waiting Message.	<ul style="list-style-type: none"> <li>• Y=324 Day Mode</li> <li>• Y=325 Night Mode</li> <li>• Y=326 Mode A</li> <li>• Y=327 Mode B</li> </ul> (1) 00-63: Trunk Route No. (2) 00-63 : Message No. NONE◀: No data
	Assign the Message No. for 2nd VRS Waiting Message.	<ul style="list-style-type: none"> <li>• Y=328 Day Mode</li> <li>• Y=329 Night Mode</li> <li>• Y=330 Mode A</li> <li>• Y=331 Mode B</li> </ul> (1) 00-63: Trunk Route No. (2) 00-63 : Message No. NONE◀: No data
A		

	DESCRIPTION	DATA
A		
CM35	<p>Assign the pattern of send a Message for VRS Waiting Message.</p> <p>Assign the timing for VRS Waiting Message.</p> <p><b>NOTE:</b> <i>Since second time, the connection is from the beginning of the message.</i></p>	<ul style="list-style-type: none"> <li>• Y=332 Day Mode</li> <li>• Y=333 Night Mode</li> <li>• Y=334 Mode A</li> <li>• Y=335 Mode B</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : To send only one time</li> <li>1◀: To send periodically</li> </ul> <ul style="list-style-type: none"> <li>• Y=336 Day Mode</li> <li>• Y=337 Night Mode</li> <li>• Y=338 Mode A</li> <li>• Y=339 Mode B</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Play the message any time <b>NOTE</b></li> <li>1◀: Play the beginning of the message</li> </ul>
END		

(b) When Dial-In service is provided

START	DESCRIPTION	DATA
CM76	Assign the type of VRS Waiting Message to the required Number Conversion Block No.	<ul style="list-style-type: none"> <li>• Y=45 Day Mode</li> <li>• Y=46 Night Mode</li> <li>• Y=47 Mode A</li> <li>• Y=48 Mode B</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 0 : To provide VRS Waiting Message function (Announcement Service Start after Call Termination)</li> <li>1 : To provide VRS Waiting Message (Greeting Mode)</li> <li>3◀: As per CM35 Y=320-323</li> </ul>
A		

A	DESCRIPTION	DATA
CM76	Assign the Message No. for 1st VRS Waiting Message.	<ul style="list-style-type: none"> <li>• Y=49 Day Mode</li> <li>• Y=50 Night Mode</li> <li>• Y=51 Mode A</li> <li>• Y=52 Mode B</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 00-63 : Message No. NONE◀: As per CM35 Y=324-327
	Assign the Message No. for 2nd VRS Waiting Message.	<ul style="list-style-type: none"> <li>• Y=53 Day Mode</li> <li>• Y=54 Night Mode</li> <li>• Y=55 Mode A</li> <li>• Y=56 Mode B</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 00-63 : Message No. NONE◀: As per CM35 Y=328-331
	Assign the pattern of send a Message for VRS Waiting Message.	<ul style="list-style-type: none"> <li>• Y=57 Day Mode</li> <li>• Y=58 Night Mode</li> <li>• Y=59 Mode A</li> <li>• Y=60 Mode B</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0 : To send only one time. 1◀: As per CM35 Y=332-335
	Assign the timing for VRS Waiting Message.	<ul style="list-style-type: none"> <li>• Y=61 Day Mode</li> <li>• Y=62 Night Mode</li> <li>• Y=63 Mode A</li> <li>• Y=64 Mode B</li> </ul> (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90 (2) 0 : Play the message any time <b>NOTE</b> 1◀: As per CM35 Y=336-339
	<b>NOTE:</b> <i>Since second time, the connection is from the beginning of the message.</i>	

END



(2) Assign the VRS Waiting Message Assignment

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM49</div>	Assign the VRS Waiting Message.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS number</li> <li>(2) 24XX: VRS Waiting Message (1st/2nd) XX: 00-63: VRS Waiting Message No.</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CM20</div>	To record, replay, or delete a message, assign the respective Voice Response System access code.	<ul style="list-style-type: none"> <li>• Y=0-3 Number Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A100: Record A101: Replay A102: Delete</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

(3) Assign the timer for VRS Waiting Message.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM41</div>	Assign the timing for send a VRS Waiting Message.  <b>NOTE:</b> <i>When setting the second data 01 (0-4 seconds), the ringing tone may inaudible to the caller.</i>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 208: Time to start the 1st VRS Waiting Message from Incoming (Announcement Service Start after Call Termination)</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 4-8 seconds. <b>NOTE</b>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">A</div>		<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 209: Time to start the 1st VRS Waiting Message from Incoming (Greeting Mode)</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 4-8 seconds. <b>NOTE</b>

A	DESCRIPTION	DATA
CM41	Assign the timing for send a VRS Waiting Message.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 210: Hold-tone timer between the 1st and the 2nd VRS Waiting Message</li> <li>(2) 01-30: 4-120 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 32-36 seconds.
END		

(4) Assignment of VRS Waiting Message for each station.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15: Service Restriction Class A</li> </ul>
CM15	Allow VRS Waiting Message in Service restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=408</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
END		

# WHISPER PAGE

## PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for required stations.	<ul style="list-style-type: none"> <li>Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Specify Service Restriction Class A for whispering station and whispered station.	<ul style="list-style-type: none"> <li>Y=111 Whispering station</li> <li>Y=112 Whispered station</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0 : Restricted 1◀: Allow
CM20	Assign the access code for Whisper Page.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access code (2) A188: Whisper Page
CM90	Provide the Multiline Terminal (whispering side) with a Whisper Page key, if required.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. + <input type="text"/> + Key No. (2) F0A88: Whisper Page
CM08	Specify whether the call termination to My Line is restricted or allowed, while the station user makes a call with a Sub Line or trunk line on the Multiline Terminal.	(1) 268 (2) 0 : Restricted 1◀: Allow
	Specify Busy/Idle status check method as "Station Base" or "Extension Base".	(1) 269 (2) 0 : Station base 1◀: Extension base
	<p><b>NOTE:</b> When CM08&gt;268 and CM08&gt;269 is set to "0", Whisper Page is available for the extension which is making a call with a secondary extension or trunk line on the Multiline Terminal.</p>	
A		

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A	DESCRIPTION	DATA
CM48	Specify the hold tone sent to other party on answering Whisper Page.  <b>NOTE:</b> <i>IPT (P2P CCIS) is fixed to Hold Tone.</i>	<ul style="list-style-type: none"><li>• Y=2</li><li>(1) 17</li><li>(2) 0 : No Tone</li><li>1 ◀: Hold Tone</li></ul>
<u>END</u>		

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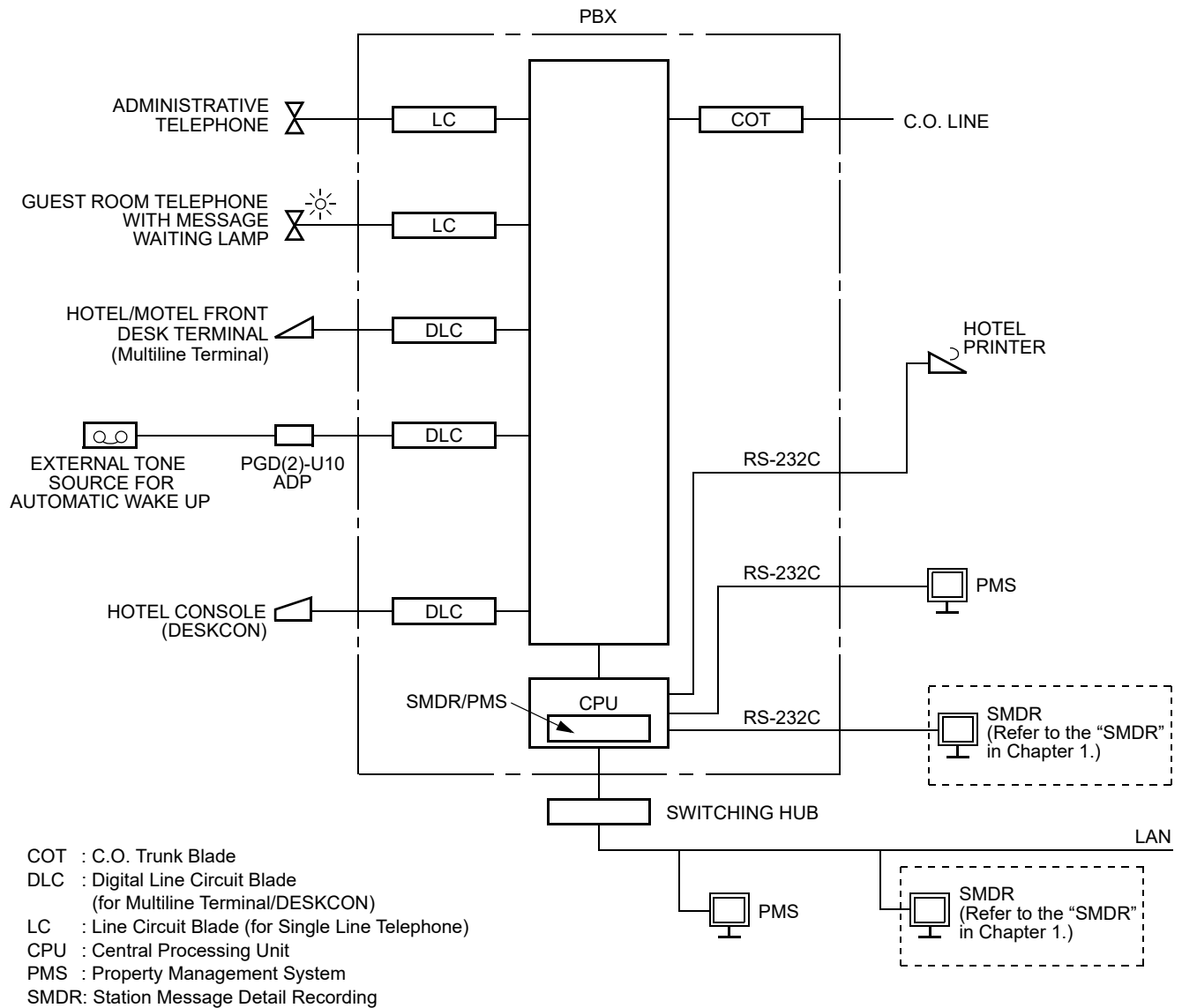
## ***HOTEL FEATURES***

This chapter explains the system outline, system capacity, system specifications, system programming and hardware requirements for the Hotel System.

## ***HOTEL SYSTEM OUTLINE***

The figure below shows the system outline of hotel system.

### **System Outline of Hotel System**



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## Application Processor/Central Processing Unit

- PMS on IP  
The Central Processing Unit (CPU) manages guest or administration room status and stores call information on each guest or administrative station. The CPU also provides a LAN interface port for a Property Management System (PMS) terminal or a Station Message Detail Recording (SMDR) terminal.
- PMS on RS-232C  
The Central Processing Unit (CPU) manages guest or administration room status and stores call information on each guest or administrative station. The CPU also provides RS-232C interface ports for a Property Management System (PMS) terminal, a Station Message Detail Recording (SMDR) terminal and a Hotel Printer.

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## Hotel Console

The DESKCON is programmed as a Hotel Console. The Hotel Console can access Room Cutoff (individual and group), Automatic Wake Up, Message Waiting, or Do Not Disturb (individual and group) with the function keys; in addition to the attendant features and functions.

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## Hotel/Motel Front Desk Terminal

The Multiline Terminal can be programmed to function as a Hotel/Motel Front Desk Terminal. This allows setting and canceling of the following hotel features:

- Automatic Wake Up
- Check In/Check Out **NOTE**
- Do Not Disturb
- Do Not Disturb-Override
- Message Waiting
- Room Cutoff
- Room Status **NOTE**
- Hotel/Motel Toll Restriction Change-Guest Station

**NOTE:** *When CPU built-in PMS on IP is provided, you can set and cancel these hotel features only from PMS.*

- *Check In/Check Out*
- *Room Status*

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## Property Management System (PMS)

The PBX provides a data link interface to the customer supplied Property Management System (PMS) accommodating hotel management features. The PMS can be any computer connected to the PBX via a RS-232C interface or a LAN interface. It communicates with the PBX using the specified protocols.

The data link interface allows the PMS to accommodate both front- and back-office hotel management features, by providing a means of communication between the PMS and the PBX for features such as Check In/Check Out, Message Waiting, Station Message Detail data, and control functions such as Do Not Disturb and Room Cutoff.

The PMS can communicate with the PBX to obtain the following information:

- (1) Maid Status  
This information can be entered from either a guest room telephone or Front Desk Terminal, and will automatically be transmitted to the PMS for data update.
- (2) Message Waiting Lamp Status Change  
This information can be entered from the Attendant Console or Front Desk Terminal. It is then automatically transmitted to the PMS for data update. If the automatic MW lamp off feature is activated, MW data is cleared and status is sent to PMS.
- (3) Station Message Detail Data  
This information is transmitted to the PMS after completion of each local and toll call.
- (4) Wake Up Service  
This information can be entered from the Attendant Console, Front Desk Terminal or guest room station, and will be automatically transmitted to the PMS for data update.
- (5) Do Not Disturb/Room Cutoff  
This information can be entered from the Attendant Console or Front Desk Terminal, and will be transmitted to the PMS by request from the PMS.
- (6) Check In/Check Out  
This information can be entered only from the PMS and will be transmitted to the PBX for status update.
- (7) Room data image messages indicating requests for data base updates and data base images.



- (8) Room change, room swap and room copy for data update.
- (9) Room occupancy change and room data change for data update.
- (10) Routine activity checks between the PMS and the PBX.
- (11) Hotel/Motel DID Number Allocation to Guest Station  
Hotel/Motel DID Number Allocation to Guest Station is set or canceled from PMS.  
This information is sent to PMS when the DID number is set or canceled.

The PMS can send the following information to the PBX.

- (1) Maid status
- (2) MW lamp status changes
- (3) Telephone restriction status changes
- (4) Check In/Out messages
- (5) Room data image inquiry
- (6) Wake Up status changes
- (7) Room change, room swap and room copy
- (8) Room occupancy and room data change
- (9) Status inquiry for routine activity checks
- (10) Guest Name and Guest Room Information to be displayed on Administrative Station, Front Desk Terminal and Hotel Console
- (11) Hotel/Motel DID Number Allocation to Guest Station

### **Station Message Detail Recording (SMDR)**

The Station Message Detail Recording (SMDR) sends out the outgoing/incoming C.O. call information to an external SMDR terminal (Personal Computer). The SMDR is usually used in conjunction with the PMS and used for the following purposes.

- Management of guest/administrative station call  
The PMS does not manage the guest/administrative station call.
- Backup of guest/administrative station call for a PMS failure
- Management of either guest or administrative station call  
For example, the SMDR manages an administrative station call, and the PMS manages a guest station call

### **Hotel Printer**

If the print out function key is provided on the Front Desk Terminal, the status of the following features are printed out when the feature is set or reset and Room Status print out is activated:

- Automatic Wake Up
- Check In/Check Out
- Do Not Disturb
- Message Waiting
- Room Cutoff
- Room Status-individual guest station/all guest stations

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***HOTEL SYSTEM CAPACITY***

<b>ITEM</b>	<b>CAPACITY</b>
Guest/Administrative Station	1536
Front Desk Terminal	8
Hotel Console	8
Hotel Printer	1
I/O port for PMS/SMDR/Hotel Printer	1
I/O port for SMDR/PMS via LAN	1
I/O port for Hotel Printer	1

## ***HOTEL SYSTEM SPECIFICATIONS***

- SMDR Interface via RS-232C/Hotel Printer Interface

ITEM	SPECIFICATIONS	
	PMS/SMDR INTERFACE	HOTEL PRINTER INTERFACE
Physical Interface	RS-232C	RS-232C
Synchronization	Asynchronous	Asynchronous
Protocol	IMS Procedure	-
Transmission Speed	1200/2400/4800/9600/19200 bps	1200/2400/4800 bps
I/O port	No. 1/2 port of CPU blade	No. 1/2 port of CPU blade

- PMS/SMDR Interface via LAN

ITEM	SPECIFICATIONS
Physical layer	Ethernet
Connection layer	The Ethernet packet format complies with the DIX standard.
TCP/IP protocol	ARP, IP, ICMP, UDP, TCP
Socket interface	Complies with 4.3 BSD socket interface
Transport protocol	TCP stream type protocol
Application port number	SMDR: 60010 (fixed) PMS : 60050 (fixed)
Number of connection	1
Client/Server	Client : SMDR/PMS terminal Server: PBX
Transmission code	7-bit ASCII code
Quasi-normal restriction condition	1. When connection is closed 2. Status monitoring text

**NOTE:** *The CPU blade in Main unit communicates with the SMDR/PMS terminal. Therefore, in the communication settings in SMDR/PMS terminal side, set the IP address to be connected to the address specified by system data (CM0B Y=0XX/1XX>00), and application port number shown in the above table.*

## ***HOTEL FEATURE LIST***

### Hotel Feature List

×: Applicable –: Not applicable

FEATURE NAME	APPLICATION				
	GUEST	ADMINISTRATIVE	FRONT DESK TERMINAL	HOTEL CONSOLE	PMS
Automatic Wake Up	×	×	×	×	×
Check In/Check Out <b>NOTE 1</b>	–	–	×	–	×
Direct Data Entry	×	–	–	–	×
Do Not Disturb-Hotel/Motel	×	×	×	×	×
Do Not Disturb-System <b>NOTE 2</b>	–	–	×	×	–
Hotel/Motel Attendant Console	–	–	–	×	–
Hotel/Motel DID Number Allocation to Guest Station	×	–	–	–	×
Hotel/Motel Front Desk Instru- ment	–	–	×	–	–
Hotel/Motel Toll Restriction Change-Guest Station	×	–	×	×	–
House Phone	×	×	×	×	–
Maid Status	×	×	×	–	×
Message Registration	–	–	×	–	×
Message Waiting <b>NOTE 2</b>	–	×	×	×	×
Property Management System Interface	–	–	–	–	–
Room Cutoff <b>NOTE 2</b>	–	–	×	×	×
Room Status <b>NOTE 2</b>	–	–	×	×	–
Single Digit Dialing	×	×	×	×	–

**NOTE 1:** Only PMS can set/cancel this feature to a guest station.

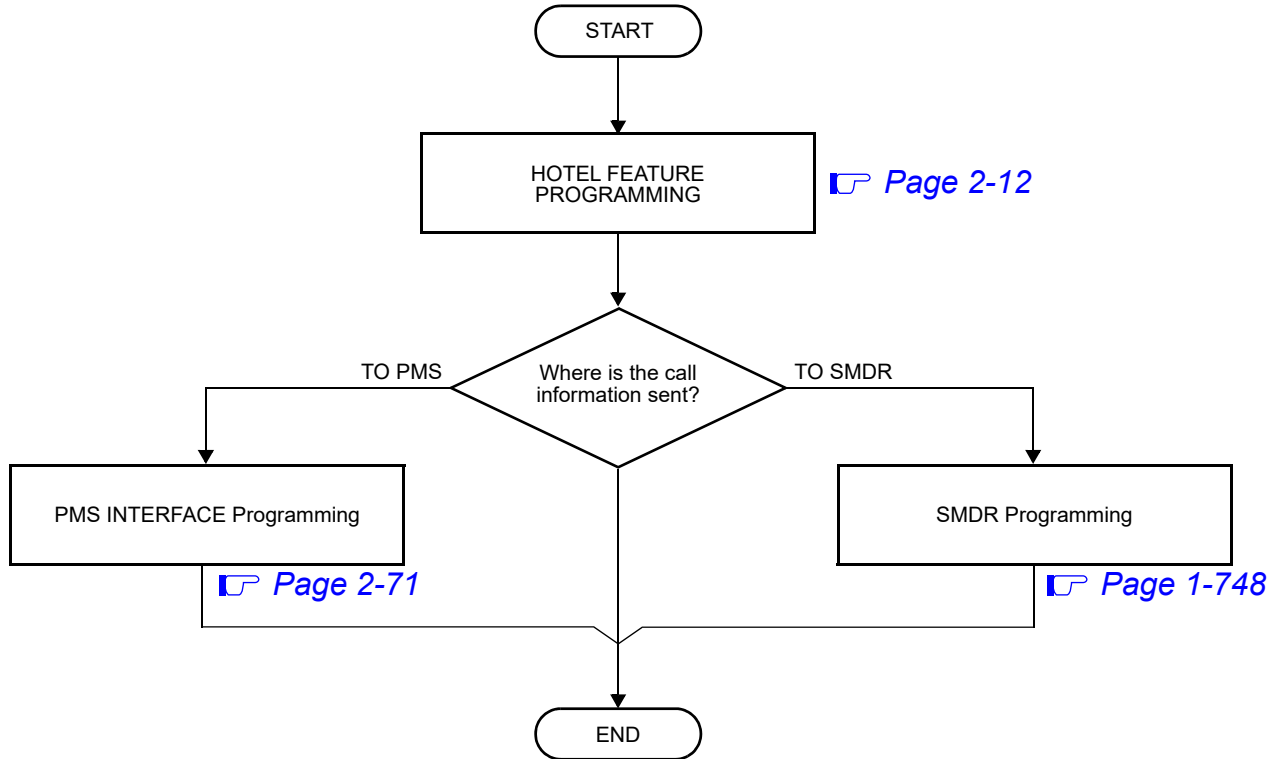
**NOTE 2:** Front Desk Terminal, Hotel Console or administrative station can set/cancel this feature to a guest station.

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# *HOTEL SYSTEM PROGRAMMING SUMMARY*

## Programming Summary for Hotel System



## ***HOTEL SYSTEM PROGRAMMING***

### **PRECAUTION**

Before programming the system data for the Hotel feature, confirm that the system is under the following status.

- The system is under On-Line mode. (“RUN” lamp is flashing on the CPU blade.)
- All the system data pertaining to the station, trunks, and services have already been programmed.

## HOTEL FEATURE PROGRAMMING

- AUTOMATIC WAKE UP [Page 2-13](#)
- CHECK IN/CHECK OUT [Page 2-34](#)
- DIRECT DATA ENTRY [Page 2-40](#)
- DO NOT DISTURB-HOTEL/MOTEL [Page 2-42](#)
- DO NOT DISTURB-SYSTEM [Page 2-47](#)
- HOTEL/MOTEL ATTENDANT CONSOLE [Page 2-50](#)
- HOTEL/MOTEL DID NUMBER ALLOCATION  
TO GUEST STATION [Page 2-51](#)
- HOTEL/MOTEL FRONT DESK INSTRUMENT [Page 2-52](#)
- HOTEL/MOTEL TOLL RESTRICTION  
CHANGE-GUEST STATION [Page 2-55](#)
- HOUSE PHONE [Page 2-60](#)
- MAID STATUS [Page 2-61](#)
- MESSAGE REGISTRATION [Page 2-66](#)
- MESSAGE WAITING [Page 2-68](#)
- PROPERTY MANAGEMENT SYSTEM INTER-  
FACE [Page 2-71](#)
- ROOM CUTOFF [Page 2-89](#)
- ROOM CUTOFF-GROUP [Page 2-90](#)
- ROOM STATUS [Page 2-94](#)
- SINGLE DIGIT DIALING [Page 2-95](#)
- SUITE ROOM SERVICE [Page 2-97](#)



## AUTOMATIC WAKE UP

### PROGRAMMING

**NOTE:** *When using the new tone sources (exclusive use for Wake Up Call) with the SV9300 upgraded from 9300V2 to 9300V3 software, upgrade the Speech Synthesis data (if Speech Synthesis data is not upgraded, the current Speech Synthesis data is used). For details, refer to the “Speech Synthesis Data Upgrade” in PC Programming Manual.*

(1) Basic Data Assignment

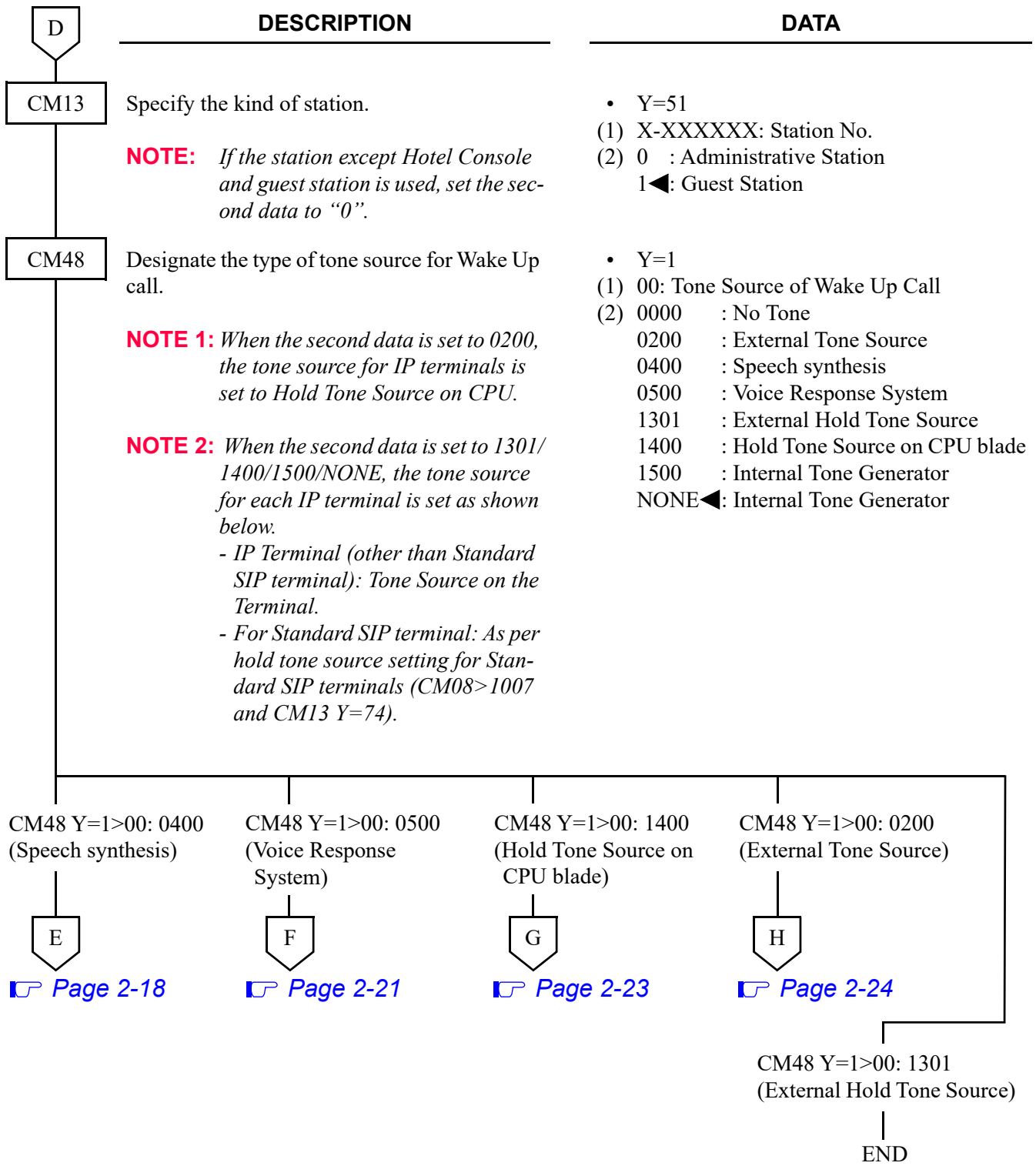
To provide Automatic Wake Up from a guest station, administrative station, Front Desk Terminal, or PMS:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to required guest or administrative station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15 ◀: Service Restriction Class A</li> </ul>
CM15	Allow Automatic Wake Up in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=013 Guest station</li> <li>• Y=020 Administrative station allowing single Wake Up Time operation</li> <li>• Y=021 Administrative station allowing multiple Wake Up Time operation</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1 ◀: Allow</li> </ul>
	Allow Voice Response System access (Record/Replay/Delete) in the Service Restriction Class A assigned by CM12 Y=02, if required.	<ul style="list-style-type: none"> <li>• Y=033</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1 ◀: Allow</li> </ul>
A		

A	DESCRIPTION	DATA
CM20	<p>Assign the access code for Wake Up Call set, cancel and check.</p> <p><b>NOTE:</b> <i>This data assignment is not required when Wake Up is set by PMS.</i></p>	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A024: Wake Up Call set from guest</li> <li>A025: Wake Up Call cancel from guest</li> <li>A026: Wake Up Call check from guest</li> <li>A027: Wake Up Call set from administrative station with Single Wake Up Time operation <b>NOTE</b></li> <li>A028: Wake Up Call set from administrative station with Multiple Wake Up Time operation <b>NOTE</b></li> </ul>
CM08	<p>Specify the sending Wake Up message to Hotel Printer and PMS, when setting Wake Up feature from guest station.</p> <p>Specify the timing for Wake Up call start.</p> <p>Specify whether Automatic Wake Up record is printed out on Hotel Printer, and the report is sent to PMS when setting or resetting Automatic Wake Up.</p> <p>Specify printing of each hotel feature record with the printer.</p> <p>Specify whether the printing of Automatic Wake Up for a individual station execution is available, or not.</p> <p>Specify the printing way of Automatic Wake Up for a individual station execution.</p>	<p>(1) 200</p> <p>(2) 0: Available</p> <p>(1) 228: Wake Up Call Start Timing</p> <p>(2) 0 : At preset time 1◀: 5 minutes prior to preset time</p> <p>(1) 267</p> <p>(2) 0 : Available 1◀: Not available</p> <p>(1) 835</p> <p>(2) 0 : To allow 1◀: Not allowed</p> <p>(1) 859</p> <p>(2) 0 : Not available 1◀: Available</p> <p>(1) 860</p> <p>(2) 0 : To print process and result 1◀: To print only result</p>
B		

B	DESCRIPTION	DATA
CM90	<p>Assign the function keys for Automatic Wake Up to the Multiline Terminal of guest room station or administrative station, if required.</p> <p><b>NOTE:</b> <i>This data assignment is not required when Wake Up is set by PMS.</i></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0024: Automatic Wake Up set/reset from guest station</li> <li>F0026: Automatic Wake Up check from guest station</li> <li>F0027: Automatic Wake Up set/reset from administrative station with Single Wake Up Time operation. <b>NOTE</b></li> <li>F0028: Automatic Wake Up set/reset from administrative station with Multiple Wake Up Time operation. <b>NOTE</b></li> </ul>
	<p>Assign the function keys for Automatic Wake Up to the Front Desk Terminal.</p> <p><b>NOTE:</b> <i>This data assignment is not required when Wake Up is set by PMS.</i></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1067: Automatic Wake Up <b>NOTE</b></li> <li>F1074: Set</li> <li>F1075: Reset</li> <li>F1077: Release</li> </ul>
CM41	<p>Specify the ringing duration of Wake Up Call.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 23</li> <li>(2) 02-14: 8-56 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 28-32 seconds.</p>
	<p>Specify the Announcement duration of Automatic Wake Up.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 24</li> <li>(2) 02-99: 4-396 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 28-32 seconds.</p>
C		

C	DESCRIPTION	DATA
CM42	<p>Specify the number of Wake Up Call attempts before abandonment.</p> <p>Specify the maximum number of Wake Up Call setting at the same time.</p> <p><b>NOTE:</b> <i>Assign the maximum number of Wake Up Call for the same time per every minute.</i></p>	<p>(1) 03 (2) 01-05 : 1-5 calls NONE◀: 5 calls</p> <p>(1) 181 (2) 01-32 : 1-32 calls NONE◀: No limit</p>
CM08	<p>Specify the operation for Wake Up Call setting over the limitation assigned by CM42&gt;181.</p> <p><b>NOTE:</b> <i>If one minute ahead also exceeds the limitation on the number of Wake Up Call, it is set to one more minute ahead. If the attempt cannot be set up to 10 minutes.</i></p> <p>Specify the tone source of Wake Up Call/ Timed Reminder Canceled.</p> <p><b>NOTE:</b> <i>When using Speech Synthesis (CM08&gt;1876:1), it is necessary that the second data of CM48 Y=1&gt;00 is set to 0400 (Speech Synthesis).</i></p> <p>Select a Speech Synthesis message to be heard at a Wake Up Call/Timed Reminder operation. <b>[9300V3 software required]</b></p>	<p>(1) 850 (2) 0 : Set it to one minute ahead 1◀: Restricted</p> <p>(1) 1876 (2) 0 : Service Set Tone (SST) 1◀: Speech Synthesis</p> <p>(1) 1877: (2) 0 : Message for Wake Up Call 1◀: Message for Timed Reminder</p>
D		



E	DESCRIPTION	DATA
CM04	<p>Assign the maximum number of channels for Speech synthesis and Voice Response System.</p> <p><b>NOTE:</b> <i>The number of channels for Voice Response System (default: 8 channels) is the difference calculated by subtracting the number of channels for Speech synthesis from the number of simultaneously usable channels (16 channels).</i></p>	<ul style="list-style-type: none"> <li>• Y=10 (Unit No. 01)</li> <li>(1) 05</li> <li>(2) 00 : 0 channels for Speech synthesis, 16 channels for Voice Response System</li> <li>01 : 1 channel for Speech synthesis, 15 channels for Voice Response System</li> <li>02 : 2 channels for Speech synthesis, 14 channels for Voice Response System</li> <li>03 : 3 channels for Speech synthesis, 13 channels for Voice Response System</li> <li>04 : 4 channels for Speech synthesis, 12 channels for Voice Response System</li> <li>05 : 5 channels for Speech synthesis, 11 channels for Voice Response System</li> <li>06 : 6 channels for Speech synthesis, 10 channels for Voice Response System</li> <li>07 : 7 channels for Speech synthesis, 9 channels for Voice Response System</li> <li>08 : 8 channels for Speech synthesis, 8 channels for Voice Response System</li> <li>NONE◀: 8 channels for Speech synthesis, 8 channels for Voice Response System</li> </ul>
CM90	<p>Assign the language key on the Multiline Terminal.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1079: Language</li> </ul>
E1		

E1

**DESCRIPTION**

**DATA**

CM08

Select the guest information displayed on an administrative station (Multiline Terminal/Attendant Console) for 8 characters display in left-side on upper line of LCD.

- (1) 548
- (2) 0 : Display PMS information A/B  
1◀: Display VIP/Language

**NOTE 1:** Details of 2nd data are as follows.

- Property Management System Interface (via IP) information A: Language information of the guest room received from the server at Check In of the guest
- Property Management System Interface (via IP) information B: Rank information of the guest room received from the server at Check In of the guest
- VIP information: VIP division of the guest room received from the server at Check In of the guest (VIP/general)
- Language information display: Language information of the guest room received from the server at Check In of the guest

**NOTE 2:** To display the language information (abbreviation) on the Hotel Console that is connected to the extension of the guest room (during telephone conversation), according to the language division number entered from the Hotel Console, set the second data to "1" (VIP/language information).

Specify whether to replay a Wake Up call in English after replaying the first Wake up call.

- (1) 894
- (2) 0 : Available  
1◀: Not available

Specify whether to printout the language information from Hotel Printer, when the language indicated number is entered by the Hotel Console.

- (1) 895
- (2) 0 : Not available  
1◀: Available

CM13

Specify whether the PMS information for 8 characters display in left-side on upper line of LCD is to be displayed on administrative station (Multiline Terminal) or not.

- Y=52
- (1) X-XXXXXXXX: Station No.
- (2) 0 : Display information assigned by CM08>548  
1◀: Not displayed

**NOTE:** Set this command when you display Property Management System Interface (via IP) information in the Multiline Terminal.

E2

E2

CM04

**DESCRIPTION**

**DATA**

Specify the Combination of Language Indicated number and speech synthesis language.

- Y=02
- (1) 1-9: Language Indicated No.
- (2) 01 : Japanese announcement
- 02 : English announcement
- 06 : Chinese announcement
- 08 : Korean announcement
- CCC : Clear
- NONE◀: English announcement

Specify the combination of Language Indicated number and language information display of the Multiline Terminal/language information to be printed out by the printer.

- Y=03
- (1) 1-9: Language Indicated No.
- (2) 01 : JPN (Japanese)
- 02 : ENG (English)
- 06 : CHI (Chinese)
- 08 : KOR (Korean)
- CCC : Clear
- NONE◀: See **NOTE 2**

**NOTE 1:** *The Language Indicated number means the number entered by the Hotel Console and the number sent from the Property Management System (PMS).*

**NOTE 2:** *When the second data is set to "NONE", the following language information (fixed sentence) is displayed or printed out according to the Language Indicated number entered by the Multiline Terminal.*  
*Language Indicated number 1: JPN*  
*Language Indicated number 2: ENG*  
*Language Indicated number 3: GER*  
*Language Indicated number 4: FR*  
*Language Indicated number 5: SP*  
*Language Indicated number 6: CHI*  
*Language Indicated number 7: RUS*  
*Language Indicated number 8: KOR*  
*\* For language information other than listed above, Display/Print-out is not provided.*

END



F	DESCRIPTION	DATA
CM20	When providing the VRS as the internal announcement source, assign the access code to record, replay and delete a message, respectively.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A100: Record A101: Replay A102: Delete</li> </ul>
CM04	Assign the maximum number of channels for Speech synthesis and Voice Response System.	<ul style="list-style-type: none"> <li>• Y=10 (Unit No. 01)</li> <li>(1) 05</li> <li>(2) 00 : 0 channels for Speech synthesis, 16 channels for Voice Response System</li> <li>01 : 1 channel for Speech synthesis, 15 channels for Voice Response System</li> <li>02 : 2 channels for Speech synthesis, 14 channels for Voice Response System</li> <li>03 : 3 channels for Speech synthesis, 13 channels for Voice Response System</li> <li>04 : 4 channels for Speech synthesis, 12 channels for Voice Response System</li> <li>05 : 5 channels for Speech synthesis, 11 channels for Voice Response System</li> <li>06 : 6 channels for Speech synthesis, 10 channels for Voice Response System</li> <li>07 : 7 channels for Speech synthesis, 9 channels for Voice Response System</li> <li>08 : 8 channels for Speech synthesis, 8 channels for Voice Response System</li> <li>NONE◀: 8 channels for Speech synthesis, 8 channels for Voice Response System</li> </ul>
F1	<p><b>NOTE:</b> <i>The number of channels for Voice Response System (default: 8 channels) is the difference calculated by subtracting the number of channels for Speech synthesis from the number of simultaneously usable channels (16 channels).</i></p>	

F1	DESCRIPTION	DATA
CM49	When providing VRS, assign the answering message for Wake Up to the VRS.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 0C XX: Answering message on Automatic Wake Up                          XX : 00-63: Message No.</li> </ul>
CM41	When providing the VRS, specify the duration of message replay timer for Automatic Wake Up.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 52</li> <li>(2) 01-99: 4-396 seconds                          (4 second increments)</li> </ul> If no data is set, the default setting is 60-64 seconds.
CM49	Assign a restriction announcement to the VRS for the case that an automatic wake up setting fails.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 1900: Restriction Announcement for Automatic Wake Up</li> </ul>
<u>END</u>		

G

**DESCRIPTION**

**DATA**

CM48

Set the music for Hold Tone.

**NOTE:** *This data setting is effective only for Single Line Telephone/Digital Multiline Terminal.  
 For IP Station, this data setting is not effective. IP Station uses the tone source in IP Adapter (Minuet).*

- Y=3
- (1) 01
- (2) 00 : Nocturne
- 01 : Minuet
- 02 : Fur Elise
- 03 : The Maiden's Prayer
- 04 : When the saints go marching in
- 06 : Spring (by four seasons)
- 08 : Ich bin ein Musikante (German folk song)
- 10 : Amaryllis (French folk song)
- NONE◀: Minuet

END

H	DESCRIPTION	DATA
CM05	<p>Assign a Unit and Slot number to the DLC blade.</p> <p style="text-align: center;"><b>BLADE RESET</b></p> <p><b>NOTE:</b> <i>When the PGD(2)-U10 ADP is accommodated to the Remote Unit, execute the system data copy by CMEC Y=8 before executing the blade reset.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 10: DLC blade</li> </ul>
CM10	<p>Assign the station number connected to PGD(2)-U10 ADP to its associated Physical Port number.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-16: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
CM13	<p>For the station connected to PGD(2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.</p> <p>For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a station call.</p> <p>For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.</p> <p>For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a trunk call.</p> <p>For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.</p>	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> <li>• Y=41</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> <li>• Y=49</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> <li>• Y=60</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> <li>• Y=61</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> </ul>
H1		

H1	DESCRIPTION	DATA
CM13	Allow the accommodation of PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=63</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To accommodate</li> <li>1 ◀: Not accommodated</li> </ul>
	<div style="border: 1px solid black; border-radius: 15px; padding: 2px 10px; display: inline-block;">BLADE RESET</div>	
	<p><b>NOTE 1:</b> Set this data only for a Base Port No. (Circuit No. 01) of DLC blade.</p> <p><b>NOTE 2:</b> Whether the following equipment can be accommodated to the same DLC blade or not depends on this data.</p> <ul style="list-style-type: none"> <li>- When the second data is set to "0" <ul style="list-style-type: none"> <li>Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/PGD(2)-U10 ADP</li> <li>Unaccommodatable: DESKCON</li> </ul> </li> <li>- When the second data is set to "1" <ul style="list-style-type: none"> <li>Accommodatable : DT300/DT400/DT500/D<sup>term</sup>85/DESKCON</li> <li>Unaccommodatable: PGD(2)-U10 ADP</li> </ul> </li> </ul> <p><b>NOTE 3:</b> When the second data is set to 0, and accommodating DT300/DT400 series DESI-less to the same DLC blade to which PGD(2)-U10 ADP is accommodated, the Line Key of the DT300/DT400 series DESI-less does not light up (however, Character Display or Icon Display on the DESI-less screen is provided).</p>	
CM12	Assign the kind of PGD(2)-U10 station (CH1).	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 3: External Tone Source</li> </ul>
	<p><b>NOTE:</b> After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</p>	
CM48	Specify the External Tone Source for Wake Up Call per Unit.	<ul style="list-style-type: none"> <li>• Y=8</li> <li>(1) 01-50: Unit No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No.</li> <li>NONE◀ : Hold Tone Source on CPU blade</li> </ul>
H2		

H2	DESCRIPTION	DATA
CM44	Assign the External Announcement to the PGD(2)-U10 ADP.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX Y                      XX: 00-31: Relay Group No.                      Y : 0-3: Circuit No. of PGD(2)-U10 ADP</li> <li>(2) 01XX: External Announcement Machine Start                      00 : External Announcement Machine for Wake Up Call</li> </ul>
	Associate the PGD(2)-U10 station number with the Relay Group number.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 00-31: Relay Group No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No.                      NONE◀ : No data</li> </ul>
H3		

To use the dual port mode, do the following programming (the following programming is not required only when using the single port mode).

H3	DESCRIPTION	DATA
CM10	Assign the station number connected to PGD(2)-U10 ADP (CH2) to its associated Physical Port number.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 17-32: Circuit No.</li> <li>(2) FX-FXXXXXXXXX: Station No.</li> </ul>
	<p><b>NOTE:</b> <i>The setting of the Dual port mode is required when using 2 paging equipment on the PGD(2)-U10 ADP. For details, refer to “Setting Method of Port number/Station number in Dual port mode” in CM10 of the Command Manual.</i></p>	
CM13	For the station connected to PGD(2)-U10 ADP, set the Message Waiting/Stored Call Record lamps not to be lit.	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> </ul>
	For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a station call.	<ul style="list-style-type: none"> <li>• Y=41</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> </ul>
	For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered station call.	<ul style="list-style-type: none"> <li>• Y=49</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> </ul>
	For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when answering a trunk call.	<ul style="list-style-type: none"> <li>• Y=60</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> </ul>
	For the station connected to PGD(2)-U10 ADP, set the call history not to be stored when handling an unanswered trunk call.	<ul style="list-style-type: none"> <li>• Y=61</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 1: Not provided</li> </ul>
H4		

H4	DESCRIPTION	DATA
CM12	<p>Assign the kind of PGD(2)-U10 station (CH2).</p> <p><b>NOTE:</b> <i>After this data setting, a reset of the PGD(2)-U10 ADP (Unplugged and plugged in/Blade Reset) is required.</i></p>	<ul style="list-style-type: none"> <li>• Y=65</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 3: External Tone Source</li> </ul>
CM48	<p>Specify the External Tone Source for Wake Up Call per Unit.</p>	<ul style="list-style-type: none"> <li>• Y=8</li> <li>(1) 01-50: Unit No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No. NONE◀ : Hold Tone Source on CPU blade</li> </ul>
CM44	<p>Assign the External Announcement to the PGD(2)-U10 ADP.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX Y XX: 00-31: Relay Group No. Y : 0-3: Circuit No. of PGD(2)-U10 ADP</li> <li>(2) 01XX: External Announcement Machine Start 00 : External Announcement Machine for Wake Up Call</li> </ul>
	<p>Associate the PGD(2)-U10 station number with the Relay Group number.</p>	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 00-31: Relay Group No.</li> <li>(2) X-XXXXXXXX: PGD(2)-U10 Station No. NONE◀ : No data</li> </ul>
CM13	<p>Provide the connection with Dual port mode to the PGD(2)-U10 ADP (CH1).</p> <p>Set the port mode of the PGD(2)-U10 ADP (CH1) to Dual port mode.</p> <p style="text-align: center;"><b>BLADE RESET</b></p> <p>Assign the station connected to Dual port mode of the PGD(2)-U10 ADP (CH2).</p>	<ul style="list-style-type: none"> <li>• Y=32</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To connect 1◀: Not connected</li> </ul> <ul style="list-style-type: none"> <li>• Y=33</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Dual port mode 1◀: Single port mode</li> </ul> <ul style="list-style-type: none"> <li>• Y=34</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Station connected to Dual port mode of the PGD(2)-U10 ADP 1◀: Station not connected to the PGD(2)-U10 ADP</li> </ul>
END		



(2) Guide Announcement Data Assignment  
**[9300V3 software required]**

START	DESCRIPTION	DATA
CM48	<p>Specify the type of guide announcement when setting Wake Up Call.</p> <p><b>NOTE:</b> <i>When using a Voice Response System, set the type of VRS to "Guide Announcement when setting Wake Up Call/Timed Reminder" by system data (CM49 Y=00: 2500).</i></p>	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) 01</li> <li>(2) 0400 : Speech Synthesis</li> <li>      0500 : Voice Response System</li> <li>      NONE◀: Special Dial Tone (SPDT)</li> </ul>
CM49	<p>When using a Voice Response System, assign the Guide Announcement function for Wake Up Call to the required Voice Response System.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 2500: Guide announcement when setting Wake Up Call</li> </ul>
CM41	<p>Specify the Guide Announcement time of Wake Up Call setup operation.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 214</li> <li>(2) 02-30: 8-120 seconds           (4 second increments)</li> </ul> <p>If no data is set, the default setting is 32- 36 seconds.</p>
<u>END</u>		

(3) Snooze Feature Data Assignment  
**[9300V3 software required]**

START	DESCRIPTION	DATA
CM20	Assign the access code for the snooze feature of Wake Up Call.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A274: Wake Up Call Set with Snooze
CM90	Assign the Wake Up Call key to the Multiline Terminal, if required.  <b>NOTE:</b> <i>The Snooze feature can be used when Wake Up Call is set by this command.</i>	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. + <input type="text"/> + Key No. (2) F0B74: Wake Up Call with Snooze
CM04	Assign the Snooze setting number in answering a Wake Up Call.  <b>NOTE:</b> <i>Be sure to assign this command when using the Snooze feature.</i>	<ul style="list-style-type: none"> <li>Y=01</li> </ul> (1) 19 (2) 0-9: Dial 0-9
CM41	Specify the snooze time when setting Wake Up Call/Timed Reminder.	<ul style="list-style-type: none"> <li>Y=0</li> </ul> (1) 217 (2) 05-30: 5-30 minutes (1 minute increments) If no data is set, the default setting is 10 minutes.
CM48	Specify the tone source of Wake Up Call.	<ul style="list-style-type: none"> <li>Y=1</li> </ul> (1) 00 (2) 0400 : Speech Synthesis 0500 : Voice Response System NONE◀: Internal Tone Generator
CM49	Assign a message group number for Wake Up Call.  Assign a message group number for answering announcement for Wake Up Call with Snooze.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) 000-015: VRS No. (2) 0C XX: Answering message on Wake Up Call XX: 00-63: Message No.
		<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) 000-015: VRS No. (2) 2600: Answering Announcement for Wake Up Call with Snooze XX: 00-63: Message No.
A		

A	DESCRIPTION	DATA
CM41	Specify the announcement duration of Wake Up Call.	<ul style="list-style-type: none"><li>• Y=0</li></ul> (1) 24 (2) 02-99: 8-396 seconds (4 second increments) If no data is set, the default setting is 28-32 seconds.
	Specify the announcement time for Wake Up Call with Snooze.	<ul style="list-style-type: none"><li>• Y=0</li></ul> (1) 218 (2) 02-99: 8-396 seconds (4 second increments) If no data is set, the default setting is 28-32 seconds.
<u>END</u>		

(4) Printout of Wake-Up Call Execution Result by the Hotel Console Operation  
**[9300V5 software required]**

START

DESCRIPTION

DATA

CM40

Assign the function of RS-232C ports.

**NOTE:** This data setting of Port Location Number 4-7 is available when resetting the system or waiting for 10 minutes after this data setting.

- Y=00
- (1) 0: Unit01 port1  
1: Unit01 port2  
4: Unit02 port1 **NOTE**  
5: Unit02 port2 **NOTE**  
6: Unit03 port1 **NOTE**  
7: Unit03 port2 **NOTE**
- (2) 20 : External printer for PMS  
NONE◀: No data

Assign the attribute data for External printer.

- Y=01-06, 08
- (1) See the following table.
- (2) See the following table.

◀: Default

Y		1st DATA		2nd DATA	
No.	MEANING	DATA	PORT LOCATION No.	DATA	MEANING
01	Data length	0	Unit01 Port 1	0	7 bit
		1	Unit01 Port 2	1◀	8 bit
02	Parity check	4	Unit02 Port 1	0	Effective
		5	Unit02 Port 2	1◀	Ineffective
		6	Unit03 Port 1		
03	Kind of parity	7	Unit03 Port 2	0	Odd parity
				1◀	Even parity
04	Stop bit			0	1-Stop bit
				1◀	2-Stop bit
05	DTR signal sent to terminal			0	Low
				1◀	High
06	RTS signal sent to terminal			0	Low
				1◀	High
08	Data speed			1	1200 bps
				2	2400 bps
				3	4800 bps
				4	9600 bps
				5	19200 bps
				NONE◀	9600 bps

A

A	DESCRIPTION	DATA
CM08	Provide the Hotel features.	(1) 835 (2) 0: To allow
	Specify whether the printing of Automatic Wake Up for an individual station execution is available, or not.	(1) 859 (2) 0 : Not available 1◀: Available
	Specify the printing way of Automatic Wake Up for an individual station execution.	(1) 860 (2) 0 : To print process and result 1◀: To print only result
	<b>NOTE:</b> <i>When the second data is set to 0, the record of the start of calling/the called station is busy/re-calling is also printed.</i>	
	Specify number of sending digits for printer.	(1) 888 (2) 0 : Printer for 80 digits 1◀: Printer for 20 digits
	Specify the line feed code for external printer (for 20 digits).	(1) 856 (2) 0 : CR 1◀: CR/LF
<u>END</u>		

To provide printing records of Automatic Wake Up set/cancel, refer to the programming in “PROPERTY MANAGEMENT SYSTEM INTERFACE”. [Page 2-77](#)

## HARDWARE REQUIRED

To provide Hotel Printer, Front Desk Terminal, PMS, or Hotel Console:  
Printer (Customer provided) and RS PRT-15S CA/RS PRT-15S CA-C/RS NORM-4S CA  
Front Desk Terminal  
PMS  
Hotel Console

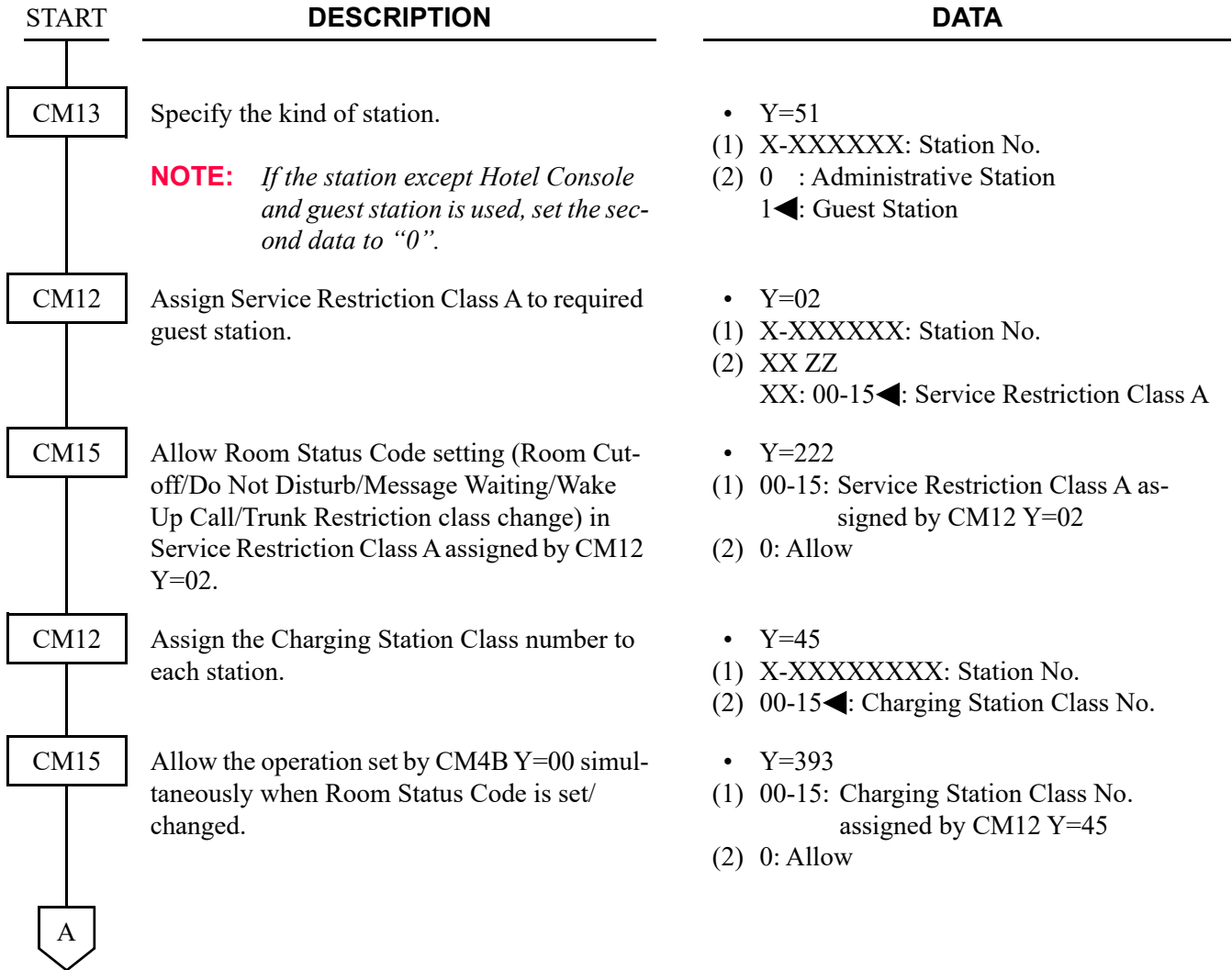
To provide the internal digital announcement source:  
CPU blade (VRS using a built-in Flash ROM)

To provide the External Announcement Machine:  
PGD(2)-U10 ADP  
External Announcement Machine

## CHECK IN/CHECK OUT

### PROGRAMMING

To provide Check In/Check Out from a Front Desk Terminal:



A	DESCRIPTION	DATA
CM42	Assign Room Status Code set by Check In operation.	(1) 186 (2) 01-08 : Room Status Code 1-8 NONE◀: Not used
	Assign Room Status Code set by Check Out operation.	(1) 187 (2) 01-08 : Room Status Code 1-8 NONE◀: Not used
CM4B	Assign the each function to the Room Status Code assigned by CM42>186 and 187.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X 00: Room Cutoff set/reset X: 1-8: Room Status Code</li> <li>(2) 1 : To set 2 : To reset NONE◀: Not available</li> <li>• Y=00</li> <li>(1) X 01: Do Not Disturb set/reset X: 1-8: Room Status Code</li> <li>(2) 1 : To set 2 : To reset NONE◀: Not available</li> <li>• Y=00</li> <li>(1) X 02: Automatic Wake Up call reset X: 1-8: Room Status Code</li> <li>(2) 1 : Available NONE◀: Not available</li> <li>• Y=00</li> <li>(1) X 03: Message Waiting set/reset X: 1-8: Room Status Code</li> <li>(2) 1 : To set 2 : To reset NONE◀: Not available</li> <li>• Y=00</li> <li>(1) X 05: Room Status Code dialing from guest room is allowed X: 1-8: Room Status Code</li> <li>(2) 1 : Allow NONE◀: Not allowed</li> </ul>
B		

B	DESCRIPTION	DATA
CM4B		<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X 06: Change of Trunk Restriction Class X: 1-8: Room Status Code</li> <li>(2) 1 : Unrestricted (RCA)</li> <li>2 : Non-Restricted 1 (RCB)</li> <li>3 : Non-Restricted 2 (RCC)</li> <li>4 : Semi-Restricted 1 (RCD)</li> <li>5 : Semi-Restricted 2 (RCE)</li> <li>6 : Restricted 1 (RCF)</li> <li>7 : Restricted 2 (RCG)</li> <li>8 : Fully-Restricted (RCH)</li> <li>9 : Restriction reset (As per CM12 Y=01)</li> <li>NONE◀: Not available</li> </ul> <ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X 07: Check Out lamp control on DSS Console X: 1-8: Room Status Code</li> <li>(2) 1 : Lamp OFF</li> <li>2 : Flash (slowly)</li> <li>3 : Flash (120IPM)</li> <li>4 : Lamp ON</li> <li>NONE◀: Not controlled</li> </ul>
CM08	Specify printing of each hotel feature record with the printer.	<ul style="list-style-type: none"> <li>(1) 835</li> <li>(2) 0 : To allow</li> <li>1◀: Not allowed</li> </ul>
<u>END</u>		



To set Toll Restriction when Check In (FTC=16, FC=1/A/B or FTC=56, FC=1)/Check Out (FTC=16, FC=2 or FTC=56, FC=2) or Restriction Control (FTC=15, FC=1) is set from the PMS.

(1) When Check In/Check Out is set from the PMS:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	<p>Assign the trunk restriction class to be changed when Check In (FTC=16, FC=1/A/B or FTC=56, FC=1) is set from the PMS.</p>	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XZ: Trunk Restriction Class               <ul style="list-style-type: none"> <li>X: 1◀-8: In Day Mode</li> <li>Z: 1◀-8: In Night Mode                   <ul style="list-style-type: none"> <li>1: Unrestricted (RCA)</li> <li>2: Non-Restricted 1 (RCB)</li> <li>3: Non-Restricted 2 (RCC)</li> <li>4: Semi-Restricted 1 (RCD)</li> <li>5: Semi-Restricted 2 (RCE)</li> <li>6: Restricted 1 (RCF)</li> <li>7: Restricted 2 (RCG)</li> <li>8: Fully-Restricted (RCH)</li> </ul> </li> </ul> </li> </ul>
	<p>Assign the required Service Restriction Class to each station.</p>	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ               <ul style="list-style-type: none"> <li>XX: 00-15◀: Service Restriction Class A</li> <li>ZZ : 00-15◀: Service Restriction Class B</li> </ul> </li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM15</div>	<p>Assign the trunk restriction class to be changed over when Check Out (FTC=16, FC=2 or FTC=56, FC=2) is set from the PMS.</p>	<ul style="list-style-type: none"> <li>• Y=403</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1-8: Trunk Restriction Class               <ul style="list-style-type: none"> <li>1 : Unrestricted (RCA)</li> <li>2 : Non-Restricted 1 (RCB)</li> <li>3 : Non-Restricted 2 (RCC)</li> <li>4 : Semi-Restricted 1 (RCD)</li> <li>5 : Semi-Restricted 2 (RCE)</li> <li>6 : Restricted 1 (RCF)</li> <li>7 : Restricted 2 (RCG)</li> <li>8 : Fully-Restricted (RCH)</li> <li>NONE◀: Set Room Cutoff</li> </ul> </li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

(2) When the Restriction Control (FTC=15, FC=1) is set from the PMS:

START	DESCRIPTION	DATA
CM12	Assign the trunk restriction class to be changed when the Restriction Level=0, 5 (Room Cutoff Cancel) of the Restriction Control (FTC=15, FC=1) is set from the PMS.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XZ: Trunk Restriction Class</li> <li style="padding-left: 20px;">X: 1◀-8: In Day Mode</li> <li style="padding-left: 20px;">Z: 1◀-8: In Night Mode</li> <li style="padding-left: 40px;">1: Unrestricted (RCA)</li> <li style="padding-left: 40px;">2: Non-Restricted 1 (RCB)</li> <li style="padding-left: 40px;">3: Non-Restricted 2 (RCC)</li> <li style="padding-left: 40px;">4: Semi-Restricted 1 (RCD)</li> <li style="padding-left: 40px;">5: Semi-Restricted 2 (RCE)</li> <li style="padding-left: 40px;">6: Restricted 1 (RCF)</li> <li style="padding-left: 40px;">7: Restricted 2 (RCG)</li> <li style="padding-left: 40px;">8: Fully-Restricted (RCH)</li> </ul>
	Assign the required Service Restriction Class to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ</li> <li style="padding-left: 20px;">XX: 00-15◀: Service Restriction Class A</li> <li style="padding-left: 20px;">ZZ : 00-15◀: Service Restriction Class B</li> </ul>
CM15	Assign the trunk restriction class to be changed over when Check Out (FTC=16, FC=2 or FTC=56, FC=2) is set from the PMS.	<ul style="list-style-type: none"> <li>• Y=403</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1-8: Trunk Restriction Class</li> <li style="padding-left: 20px;">1 : Unrestricted (RCA)</li> <li style="padding-left: 20px;">2 : Non-Restricted 1 (RCB)</li> <li style="padding-left: 20px;">3 : Non-Restricted 2 (RCC)</li> <li style="padding-left: 20px;">4 : Semi-Restricted 1 (RCD)</li> <li style="padding-left: 20px;">5 : Semi-Restricted 2 (RCE)</li> <li style="padding-left: 20px;">6 : Restricted 1 (RCF)</li> <li style="padding-left: 20px;">7 : Restricted 2 (RCG)</li> <li style="padding-left: 20px;">8 : Fully-Restricted (RCH)</li> <li style="padding-left: 20px;">NONE◀: Set Room Cutoff</li> </ul>
A		

A	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">CM15</div>	<p>Assign the trunk restriction class to be changed when the Restriction Level=1, 6 (Room Cutoff Set) of the Restriction Control (FTC=15, FC=1) is set from the PMS.</p>	<ul style="list-style-type: none"> <li>• Y=404</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1-8: Trunk Restriction Class               <ul style="list-style-type: none"> <li>1 : Unrestricted (RCA)</li> <li>2 : Non-Restricted 1 (RCB)</li> <li>3 : Non-Restricted 2 (RCC)</li> <li>4 : Semi-Restricted 1 (RCD)</li> <li>5 : Semi-Restricted 2 (RCE)</li> <li>6 : Restricted 1 (RCF)</li> <li>7 : Restricted 2 (RCG)</li> <li>8 : Fully-Restricted (RCH)</li> <li>NONE◀: Set Room Cutoff</li> </ul> </li> </ul>
<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">CM08</div>	<p>Specify the Trunk Call Restriction setting from Front Desk Instrument.</p> <p><b>NOTE 1:</b> <i>When operated restriction of an outgoing call for a station in Check in status from Front Desk Instrument while CM08&gt;1872: 0, the trunk restriction class is changed from the class assigned by CM12 Y=01 to the class assigned by CM15 Y=404.</i></p> <p><b>NOTE 2:</b> <i>Check out operation cancels the Trunk Call Restriction setting from Front Desk Instrument.</i></p>	<ul style="list-style-type: none"> <li>(1) 1872</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: 40px; margin: 0 auto;">END</div>		

To provide printing records of Check In/Check In cancel, Check Out/Check Out cancel, refer to the programming in “PROPERTY MANAGEMENT SYSTEM INTERFACE”. [📄 Page 2-77](#)

## HARDWARE REQUIRED

Front Desk Terminal or  
PMS

## DIRECT DATA ENTRY

### PROGRAMMING

In addition to the programming of “PROPERTY MANAGEMENT SYSTEM INTERFACE” [Page 2-71](#), do the following programming.

START	DESCRIPTION	DATA																																																
CM20	Assign the access code for Direct Data Entry.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A097																																																
CM90	Provide the guest room station with the function key for Direct Data Entry, if required.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. + <input type="text"/> + Key No. (2) F0097: Direct Data Entry																																																
CM13	Specify the kind of station.	<ul style="list-style-type: none"> <li>Y=51</li> </ul> (1) X-XXXXXXXX: Station No. (2) 0 : Administrative station 1◀: Guest station																																																
CM08	Specify the Printout by Direct Data Entry.	(1) 1800 (2) 0 : Available 1◀: Not available																																																
	Specify the Printing format of Direct Data Entry.	(1) 1801 (2) 0 : Format 2 1◀: Format 1																																																
	<p><b>NOTE:</b> Example of the printing format of Direct Data Entry is as follows.</p> <p>- Format 1</p> <table border="1"> <tr><td>2 0 1 4</td><td>0 8 / 0 1</td><td>1 7 : 0 0</td><td></td></tr> <tr><td>No .</td><td>2 2 0</td><td></td><td></td></tr> <tr><td>C O D E 0 1</td><td></td><td></td><td>1</td></tr> <tr><td>C O D E 0 2</td><td></td><td></td><td>2</td></tr> <tr><td>C O D E 0 3</td><td></td><td></td><td>3</td></tr> <tr><td>C O D E 0 4</td><td></td><td></td><td>4</td></tr> </table> <p>- Format 2</p> <table border="1"> <tr><td>2 0 1 4</td><td>0 8 / 0 1</td><td>1 7 : 0 0</td><td></td></tr> <tr><td>No .</td><td>2 2 0</td><td></td><td></td></tr> <tr><td>C O D E</td><td></td><td></td><td>1</td></tr> <tr><td>Q T Y</td><td></td><td></td><td>2</td></tr> <tr><td>C O D E</td><td></td><td></td><td>3</td></tr> <tr><td>Q T Y</td><td></td><td></td><td>4</td></tr> </table>		2 0 1 4	0 8 / 0 1	1 7 : 0 0		No .	2 2 0			C O D E 0 1			1	C O D E 0 2			2	C O D E 0 3			3	C O D E 0 4			4	2 0 1 4	0 8 / 0 1	1 7 : 0 0		No .	2 2 0			C O D E			1	Q T Y			2	C O D E			3	Q T Y			4
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C O D E			3																																															
Q T Y			4																																															
END																																																		

**HARDWARE REQUIRED**

Printer (Customer provided) and RS PRT-15S CA/RS PRT-15S CA-C/RS NORM-4S CA  
PMS

## DO NOT DISTURB-HOTEL/MOTEL

### PROGRAMMING

To provide Do Not Disturb from a guest station, administrative station, Front Desk Terminal, or PMS:

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to required stations.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	<p>Allow Do Not Disturb in Service Restriction Class A assigned by CM12 Y=02.</p> <p>Allow Room Status Code setting (Do Not Disturb/Trunk Restriction class change) in Service Restriction Class A assigned by CM12 Y=02.</p>	<ul style="list-style-type: none"> <li>Y=019</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> <li>Y=222</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>
CM20	Assign the access code for Do Not Disturb Set/Cancel.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A022: Set A023: Cancel</li> </ul>
CM51	Assign the transfer destination of an incoming call when Do Not Disturb is set to the called station.	<ul style="list-style-type: none"> <li>Y=10</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXX: Station No. or E000: Attendant Console</li> </ul>
CM90	<p>Assign the Call Forwarding-Intercept (ICPT) key, if DESKCON is assigned as destination by CM51 Y=10.</p> <p>Assign the DND function key to the Multiline Terminal, if required.</p>	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) DESKCON No. (E000-E007) + <input type="text"/> + Key No.</li> <li>(2) F6065: Call Forwarding-Intercept</li> <li>Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0022: Do Not Disturb set/reset</li> </ul>
A		

A	DESCRIPTION	DATA
CM90	<p>Assign the DND function keys to the Front Desk Terminal, if required.</p> <p>Assign the DND function keys to the Hotel Console, if required.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F1064: Do Not Disturb F1074: Set F1075: Reset F1077: Release F1080: Do Not Disturb Override</li> </ul> <ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) DESKCON No. (E000-E007) + <input type="text"/> + Key No.</li> <li>(2) F6102: Do Not Disturb F6103: Do Not Disturb Override F6104: Reset</li> </ul>
CM08	<p>Provide the sending Do Not Disturb message to Hotel Printer and PMS when setting Do Not Disturb from guest station.</p> <p>Specify the operation of Call Forwarding-Busy Line for a station with Do Not Disturb set (for DID/DIT/Tie Line/Station call).</p> <p><b>NOTE:</b> <i>Regardless of this data, Do Not Disturb is available for Direct-In Termination when a Pilot station of Station Hunting group is set Do Not Disturb.</i></p> <p>For a system with multiple-tenant, specify the destination of a call transferred in CM51 Y=10 for the tenant of calling or called station.</p> <p>Specify whether Do Not Disturb record is printed out on Hotel Printer, and the report is sent to PMS when setting or resetting Do Not Disturb.</p>	<ul style="list-style-type: none"> <li>(1) 201</li> <li>(2) 0: Available</li> </ul> <ul style="list-style-type: none"> <li>(1) 240</li> <li>(2) 0 : Call Forwarding-Busy Line 1◀: To transfer to the another station (assigned by CM51 Y=10)</li> </ul> <ul style="list-style-type: none"> <li>(1) 241</li> <li>(2) 0 : Tenant of called station 1◀: Tenant of calling station</li> </ul> <ul style="list-style-type: none"> <li>(1) 267</li> <li>(2) 0 : Available 1◀: Not available</li> </ul>
CM48	Select the Dial Tone on setting Do Not Disturb.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 14: Dial Tone on setting Do Not Disturb</li> <li>(2) 0 : Special Tone 1◀: Dial Tone</li> </ul>
END		

To set the Do Not Disturb feature to the stations of SLT/sub line of Multiline Terminal that are accommodated to the Multiline Terminal multiline as the sub line, and to display the Do Not Disturb Set/Reset status of the stations on the lamp of Multiline Terminal:

**NOTE:** *To make this feature available, do the programming both of the setting side (Multiline Terminal) and the set side (stations of SLT, sub line of Multiline Terminal, or virtual line stations).*

- For Setting Side (Multiline Terminal)

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to the required stations.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Allow Do Not Disturb setting in Service Restriction Class C assigned by CM12 Y=07.	<ul style="list-style-type: none"> <li>• Y=188</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0: Allow</li> </ul>
CM08	Provide the system with Message Waiting indication on both My Line and Sub Line of Multiline Terminal.	<ul style="list-style-type: none"> <li>(1) 140</li> <li>(2) 0: Available</li> </ul>
CM12	To indicate the Do Not Disturb Set/Reset status on the Line/Trunk/Feature keys of Multiline Terminal, assign the Do Not Disturb Lamp Indication to the station number of Multiline Terminals.	<ul style="list-style-type: none"> <li>• Y=62</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Not indicated</li> <li>2 : Do Not Disturb Lamp Indication</li> <li>3◀: Message Waiting Lamp Indication</li> </ul>
<u>END</u>		



- For Set Side (stations of SLT, sub line of Multiline Terminal)

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No./Sub Line No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Do Not Disturb in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=019</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM12	Assign Service Restriction Class C to the required stations.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No./Sub Line No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Allow Do Not Disturb in Service Restriction Class C assigned by CM12 Y=07.	<ul style="list-style-type: none"> <li>• Y=189</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0: Allow</li> </ul>
CM65	Provide Do Not Disturb feature to each tenant.	<ul style="list-style-type: none"> <li>• Y=19</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 1◀: To provide</li> </ul>
CM08	Provide the system with Message Waiting indication on both My Line and Sub Line of Multiline Terminal.	<ul style="list-style-type: none"> <li>(1) 140</li> <li>(2) 0: Available</li> </ul>
CM12	Specify the Do Not Disturb Lamp Indication on Line/Trunk/Feature keys of Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=62</li> <li>(1) X-XXXXXXXX: Station No./Sub Line No.</li> <li>(2) 0 : Not indicated 2 : Do Not Disturb Lamp Indication 3◀: Message Waiting Lamp Indication</li> </ul>
END		

To provide the Preset Do Not Disturb-Hotel/Motel Override by Station dialing/Programmable key on Multiline terminal, refer to “To provide the Preset Do Not Disturb Override by Station dialing/Function key on Multiline terminal”. [📄 Page 1-354](#)

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## **HARDWARE REQUIRED**

To provide Front Desk Terminal or PMS:  
Front Desk Terminal or  
PMS

## DO NOT DISTURB-SYSTEM

### PROGRAMMING

To provide Do Not Disturb-System from a Front Desk Terminal:

START	DESCRIPTION	DATA
CM13	<p>Provide Do Not Disturb-System to required stations.</p> <p><b>NOTE:</b> <i>Do Not Disturb is set to the stations assigned by this command simultaneously from the Front Desk Terminal or Attendant Console.</i></p>	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) X-XXXXXX: Station No.</li> <li>(2) 0: To provide</li> </ul>
CM51	<p>Assign the transfer destination of an incoming call when Do Not Disturb is set to the called station (for DID/DIT/Tie Line/station call).</p> <p><b>NOTE:</b> <i>This data is available when CM08&gt;240 is set to 1.</i></p>	<ul style="list-style-type: none"> <li>Y=10</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXX: Station No.</li> <li>or</li> <li>E000: Attendant Console</li> </ul>
CM90	<p>Assign the Call Forwarding-Intercept (ICPT) key, if the DESKCON is assigned as destination by CM51 Y=10.</p> <p>Assign the DND function keys to the Front Desk Terminal, if required.</p> <p>Assign the DND function keys to the Hotel Console, if required.</p>	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) F6065: Call Forwarding-Intercept</li> <li>Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F1064: Do Not Disturb</li> <li>F1072: Group</li> <li>F1074: Set</li> <li>F1075: Reset</li> <li>F1077: Release</li> <li>F1080: Do Not Disturb Override</li> <li>Y=00</li> <li>(1) DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) F6102: Do Not Disturb</li> <li>F6103: Do Not Disturb Override</li> <li>F6104: Reset</li> </ul>
A		

A	DESCRIPTION	DATA
CM08	<p>Specify the operation of Call Forwarding-Busy Line for a station with Do Not Disturb set (for DID/DIT/Tie Line/Station call).</p> <p><b>NOTE:</b> <i>Regardless of this data, Do Not Disturb is available for Direct-In Termination when a Pilot station of Station Hunting group is set Do Not Disturb.</i></p>	<p>(1) 240 (2) 0 : Call Forwarding-Busy Line 1◀: To transfer to the another station (assigned by CM51 Y=10)</p>
	<p>For a system with multiple tenant, specify the destination of a call transferred in CM51 Y=10 for the tenant of calling or called station.</p>	<p>(1) 241 (2) 0 : Tenant of called station 1◀: Tenant of calling station</p>
	<p>Specify whether Do Not Disturb record is printed out on Hotel Printer, and the report is sent to PMS when setting or resetting Do Not Disturb.</p>	<p>(1) 267 (2) 0 : Available 1◀: Not available</p>
CM48	<p>Select the Dial Tone on setting Do Not Disturb.</p>	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 14: Dial Tone on setting Do Not Disturb</li> <li>(2) 0 : Special Tone 1◀: Dial Tone</li> </ul>
<u>END</u>		

To provide Do Not Disturb group set/cancel at specified timing in advance:

START	DESCRIPTION	DATA
CM13	Provide Do Not Disturb group to the required stations.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXX: Station No.</li> <li>(2) 0: To provide</li> </ul>
CM90	Assign a Do Not Disturb function key to the Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="text"/> + Key No.</li> <li>(2) F0022: Do Not Disturb Set/Reset</li> </ul>
CM97	Assign a Do Not Disturb function key on each DSS Console, if required.	<ul style="list-style-type: none"> <li>(1) DSS Console No. (00-31) + <input type="text"/> + DSS Key No. (57-59)</li> <li>(2) F1053: Do Not Disturb Set/Reset</li> </ul>
<u>END</u>		

To provide the Preset Do Not Disturb-System Override by Station dialing/Programmable key on Multiline terminal, refer to “To provide the Preset Do Not Disturb Override by Station dialing/Function key on Multiline terminal”. [Page 1-354](#)

## HOTEL/MOTEL ATTENDANT CONSOLE

### PROGRAMMING

In addition to the programming of DESKCON as described in CHAPTER 1, assign the Hotel function keys to the Console.

For DESKCON, refer to SN716 DESKCON. [☞ Page 1-24](#)

For Multi-function key, refer to MULTI-FUNCTION KEY. [☞ Page 1-53](#)

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM90</div>	Assign the required hotel function keys.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) ATTCON No. (E000-E007) + <span style="border: 1px solid black; padding: 0 5px;"> </span> + Key No.</li> <li>(2) F6100: Room Cutoff  F6101: Message Waiting  F6102: Do Not Disturb  F6103: Automatic Wake Up/Do Not Disturb Override  F6104: Reset  F6108: Do Not Disturb Override  F6109: Wake Up</li> </ul>
<u>END</u>		

To provide printing records of hotel features such as Automatic Wake Up/Do Not Disturb/Room Cutoff/Message Waiting from the Console, refer to the programming in “PROPERTY MANAGEMENT SYSTEM INTERFACE”. [☞ Page 2-77](#)

## HOTEL/MOTEL DID NUMBER ALLOCATION TO GUEST STATION

### PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	<p>Specify the DID Development Table for guest station.</p> <p><b>NOTE:</b> <i>Set the second data the same as the DID Development Table number assigned by CM35 Y=170.</i></p>	<p>(1) 824 (2) 0 : Development Table 1 for DID No. assigned by CM76 Y=90 1◀: Development Table 0 for DID No. assigned by CM76 Y=00</p>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM76</div>	<p>Assign the Number Conversion Block number for Development Table 0.</p> <p>Assign the Number Conversion Block number for Development Table 1.</p> <p><b>NOTE:</b> <i>If the DID digits are more than 4 and up to 8, then program CM76 Y=90. If programming CM76 Y=90, then set CM35 Y=170: 0.</i></p> <p>Allow Hotel/Motel DID number allocation to guest station.</p> <p>Assign the data for interpreting the digits received.</p> <p><b>NOTE:</b> <i>This data is effective when the destination station number from PMS is not set.</i></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXX: DID No.</li> <li>(2) 000-999: Number Conversion Block No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=90</li> <li>(1) X-XXXXXXXX: DID No.</li> <li>(2) 000-999: Number Conversion Block No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=32</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 0: Available</li> </ul> <ul style="list-style-type: none"> <li>• Y=01 Day Mode</li> <li>• Y=02 Night Mode</li> <li>• Y=03 Mode A</li> <li>• Y=04 Mode B</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) X-XXXXXXXX: DID station No. D04: Direct-In Termination</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

### HARDWARE REQUIRED

PMS

## HOTEL/MOTEL FRONT DESK INSTRUMENT

### PROGRAMMING

START	DESCRIPTION	DATA
CM02	Assign the system clock data.	<ul style="list-style-type: none"> <li>(1) 0: Calendar Year</li> <li>(2) 2014-2099</li>   <li>(1) 1: Date</li> <li>(2) MM DD WW <ul style="list-style-type: none"> <li>MM : 01-12 (Month)</li> <li>DD : 01-31 (Date)</li> <li>WW: 00 (Sun)</li> <li>      : 01 (Mon)</li> <li>      : 02 (Tue)</li> <li>      : 03 (Wed)</li> <li>      : 04 (Thu)</li> <li>      : 05 (Fri)</li> <li>      : 06 (Sat)</li> </ul> </li>   <li>(1) 2: Time</li> <li>(2) HH MM SS <ul style="list-style-type: none"> <li>HH : 00-23 (Hour)</li> <li>MM : 00-59 (Minute)</li> <li>SS : 00-59 (Second)</li> </ul> </li> </ul>
CM04	Specify the control method of Hotel feature.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 10: Control method of Hotel feature</li> <li>(2) 1: Hotel/Motel Front Desk Instrument</li> </ul>
CM05	Assign a Unit and Slot number to the DLC blade.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ <ul style="list-style-type: none"> <li>XX: 01-50: Unit No.</li> <li>ZZ : 01-18: Slot No.</li> </ul> </li> <li>(2) 10: DLC blade</li> </ul>
	<b>BLADE RESET</b>	
CM10	Assign a My Line number for Front Desk Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. <ul style="list-style-type: none"> <li>XX: 01-50: Unit No.</li> <li>YY: 01-18: Slot No.</li> <li>ZZ : 01-32: Circuit No.</li> </ul> </li> <li>(2) FX-FXXXXXXX: My Line No.</li> </ul>
A	<p><b>NOTE:</b> <i>The number of Front Desk Terminals is limited to 8 units per system.</i></p>	



A	DESCRIPTION	DATA
CM12	Assign Service Restriction Class B for Front Desk Terminal to the required Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXX: My Line No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	Allow Front Desk Terminal in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=062</li> <li>(1) 00-15◀: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM90	Assign the Hotel function keys on the Front Desk Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F1064: Do Not Disturb F1065: Room Cutoff F1066: Message Waiting F1067: Automatic Wake Up F1068: Check In F1069: Room Status F1071: Print Out F1072: Group F1074: Set F1075: Reset F1076: Cancel F1077: Release F1080: Do Not Disturb Override</li> </ul>

Multiline Terminal (8) Key Number

(01)	(02)	(03)	(04)
(05)	(06)	(07)	(08)

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Multiline Terminal (16) Key Number

(01)	(02)	(03)	(04)
(05)	(06)	(07)	(08)
(09)	(10)	(11)	(12)
(13)	(14)	(15)	(16)

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Multiline Terminal (32) Key Number

(01)	(02)	(03)	(04)	(05)	(06)
(07)	(08)	(09)	(10)	(11)	(12)
(13)	(14)	(15)	(16)	(17)	(18)
(19)	(20)	(21)	(22)	(23)	(24)

END

To provide printing records of hotel features such as Automatic Wake Up/Do Not Disturb/Room Cutoff/Message Waiting from Front Desk Terminals, refer to the programming in “PROPERTY MANAGEMENT SYSTEM INTERFACE”. [☞ Page 2-77](#)

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## **HARDWARE REQUIRED**

Front Desk Terminal

Printer and RS PRT-15S CA/RS PRT-15S CA-C/RS NORM-4S CA

## HOTEL/MOTEL TOLL RESTRICTION CHANGE-GUEST STATION

### PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM13</div>	<p>Specify the kind of station.</p> <p><b>NOTE:</b> <i>If the station except Hotel Console and guest station is used, set the second data to "0".</i></p>	<ul style="list-style-type: none"> <li>• Y=51</li> <li>(1) X-XXXXXXX: Station No.</li> <li>(2) 0 : Administrative Station 1◀: Guest Station</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	<p>Assign Service Restriction Class A to required guest station.</p>	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM15</div>	<p>Allow Room Status Code setting (Room Cut-off/Trunk Restriction class change).</p>	<ul style="list-style-type: none"> <li>• Y=222</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	<p>Assign the Charging Station Class to each station.</p>	<ul style="list-style-type: none"> <li>• Y=45</li> <li>(1) X-XXXXXXXXX: Station No.</li> <li>(2) 00-15◀: Charging Station Class No.</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM15</div>	<p>Allow the operation set by CM4B Y=00 simultaneously when Room Status Code is set/changed.</p>	<ul style="list-style-type: none"> <li>• Y=393</li> <li>(1) 00-15: Charging Station Class No. assigned by CM12 Y=45</li> <li>(2) 0: Allow</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM42</div>	<p>Assign Room Status Code set by Check In operation.</p> <p>Assign Room Status Code set by Check Out operation.</p>	<ul style="list-style-type: none"> <li>(1) 186</li> <li>(2) 01-08 : Room Status Code 1-8 NONE◀: Not used</li> </ul> <ul style="list-style-type: none"> <li>(1) 187</li> <li>(2) 01-08 : Room Status Code 1-8 NONE◀: Not used</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		

A

CM4B

	DESCRIPTION	DATA
<div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: -10px; left: 50%; transform: translate(-50%, -100%);">A</div> <div style="position: absolute; top: 10px; left: 50%; transform: translate(-50%, 100%);">CM4B</div> </div>	<p>Assign the each function to the Room Status Code assigned by CM42&gt;186 and 187.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X 00: Room Cutoff is set/reset X: 1-8: Room Status Code</li> <li>(2) 1 : To set 2 : To reset NONE◀: Not available</li>   <li>• Y=00</li> <li>(1) X 06: Change of Trunk Restriction Class X: 1-8: Room Status Code</li> <li>(2) 1 : Unrestricted (RCA) 2 : Non-Restricted 1 (RCB) 3 : Non-Restricted 2 (RCC) 4 : Semi-Restricted 1 (RCD) 5 : Semi-Restricted 2 (RCE) 6 : Restricted 1 (RCF) 7 : Restricted 2 (RCG) 8 : Fully-Restricted (RCH) 9 : Restriction reset (As per CM12 Y=01) NONE◀: Not available</li>   <li>• Y=00</li> <li>(1) X 07: Check Out lamp control on DSS Console X: 1-8: Room Status Code</li> <li>(2) 1 : Lamp OFF 2 : Flash (slowly) 3 : Flash (120IPM) 4 : Lamp ON NONE◀: Not controlled</li> </ul>

END

To provide the speech synthesis language feature for the calling party set call restriction, do the following programming in addition to the programming of Hotel/Motel Toll Restriction Change- Guest Station.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM04</div>	<p>Specify the combination of Language Indicated number and speech synthesis language.</p> <p><b>NOTE:</b> <i>This command is required when changing the speech synthesis language (default: English). When the language is changed by this command, the operation for setting speech synthesis language from the Multiline Terminal is required for individual station. For the operation, refer to OPERATING PROCEDURE FOR SETTING SPEECH SYNTHESIS LANGUAGE.</i></p> <p><a href="#">Page 1-355</a></p>	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) 1-9: Language Indicated No.</li> <li>(2) 01 : Japanese announcement</li> <li>02 : English announcement</li> <li>06 : Chinese announcement</li> <li>08 : Korean announcement</li> <li>CCC : Clear</li> <li>NONE◀: English announcement</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	<p>Specify whether to replay the announcement in English after replaying the first announcement assigned by CM04 Y=02.</p> <p>Allow the speech synthesis language feature for the Room Cutoff.</p>	<ul style="list-style-type: none"> <li>(1) 894</li> <li>(2) 0 : Available</li> <li>1◀: Not available</li> </ul> <ul style="list-style-type: none"> <li>(1) 1401</li> <li>(2) 0: Allow</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM90</div>	<p>Assign the speech synthesis language setting function keys on Front Desk Terminal.</p> <p><b>NOTE:</b> <i>This command is required when setting the speech synthesis language from the Multiline Terminal for individual station. For the operation, refer to OPERATING PROCEDURE FOR SETTING SPEECH SYNTHESIS LANGUAGE.</i></p> <p><a href="#">Page 1-355</a></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F1068 : Check in</li> <li>F1074 : Set</li> <li>F1076 : Cancel</li> <li>F1079 : Language</li> <li>NONE◀: No data</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		

	DESCRIPTION	DATA
A		
CM08	<p>Specify whether to print out the language information from Printer, when the language indicated number is entered by the Front Desk Terminal.</p> <p>Select the guest information displayed on an administrative station (Multiline Terminal/Attendant Console) for 8 characters display in left-side on upper line of LCD.</p> <p><b>NOTE 1:</b> <i>Details of 2nd data are as follows.</i></p> <ul style="list-style-type: none"> <li>- Property Management System Interface (via IP) information A: Language Information of the guest room received from the server at Check In of the guest</li> <li>- Property Management System Interface (via IP) information B: Rank information of the guest room received from the server at Check In of the guest</li> <li>- VIP information: VIP division of the guest room received from the server at Check In of the guest (VIP/general)</li> <li>- Language information display: Language information of the guest room received from the server at Check In of the guest</li> </ul> <p><b>NOTE 2:</b> <i>To display the language information (abbreviation) on the Front Desk Terminal that is connected to the extension of the guest room (during telephone conversation), according to the language division number entered from the Front Desk Terminal, set the second data to "1" (VIP/language information).</i></p>	<p>(1) 895 (2) 0 : Not available 1◀: available</p> <p>(1) 548 (2) 0 : Display PMS information A/B 1◀: Display VIP/Language</p>
CM13	<p>Specify whether the PMS information for 8 characters display in left-side on upper line of LCD is to be displayed on administrative station (Multiline Terminal) or not.</p>	<ul style="list-style-type: none"> <li>• Y=52</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Display information assigned by CM08&gt;548 1◀: Not displayed</li> </ul>
B		

	DESCRIPTION	DATA
<div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto; text-align: center; line-height: 20px;">B</div> <div style="border: 1px solid black; width: 60px; height: 20px; margin: 5px auto; text-align: center; line-height: 20px;">CM04</div>	<p>Specify the combination of Language Indicated number and language information display of the Multiline Terminal/language information to be printed out by the printer.</p> <p><b>NOTE 1:</b> <i>The Language Indicated number means the number entered by the Front Desk Terminal and the number sent from the Property Management System (PMS).</i></p> <p><b>NOTE 2:</b> <i>When the second data is set to "NONE", the following language information (fixed sentence) is displayed or printed out according to the Language Indicated number entered by the Multiline Terminal. Language Indicated number 1: JPN Language Indicated number 2: ENG Language Indicated number 3: GER Language Indicated number 4: FR Language Indicated number 5: SP Language Indicated number 6: CHI Language Indicated number 7: RUS Language Indicated number 8: KOR * For language information other than listed above, Display/Print-out is not provided.</i></p>	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) 1-9: Language Indicated No.</li> <li>(2) 01 : JPN (Japanese)</li> <li>02 : ENG (English)</li> <li>06 : CHI (Chinese)</li> <li>08 : KOR (Korean)</li> <li>CCC : Clear</li> <li>NONE◀: See <b>NOTE2</b></li> </ul>
<div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 auto; text-align: center; line-height: 20px;">END</div>		

## HARDWARE REQUIRED

Front Desk Terminal  
CPU blade (Speech Synthesis using a built-in Flash ROM)

## HOUSE PHONE

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	<p>Assign the House Phone Group number to the required stations.</p> <p><b>NOTE:</b> <i>There is no limit to the number of House Phones permitted in the system as long as the maximum number of ports is not exceeded.</i></p>	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) X-XXXX: Station No.</li> <li>(2) 00-03: House Phone Group 0-3</li> </ul>
CM51	<p>Assign the destination of each House Phone Group.</p>	<ul style="list-style-type: none"> <li>• Y=14</li> <li>(1) 00-03: House Phone Group 0-3</li> <li>(2) X-XXXX: Station No. of the destination E000: Attendant Console</li> </ul>
CM08	<p>Specify the result of Switch Hook Flash on stations within a House Phone Group.</p> <p><b>NOTE:</b> <i>To allow stations within a House Phone Group to transfer a call or access a feature, set the data to "0".</i></p>	<ul style="list-style-type: none"> <li>(1) 055: For House Phone Group 0, 1 056: For House Phone Group 2, 3</li> <li>(2) 0 : Special Dial Tone 1◀: Attendant Recall</li> </ul>
<u>END</u>		



## MAID STATUS

### PROGRAMMING

(1) Maid Status (Front Desk Instrument System)

In addition to the programming of “HOTEL/MOTEL FRONT DESK INSTRUMENT” [Page 2-52](#), do the following programming:

START	DESCRIPTION	DATA
CM08	If maid ID Code is used, set the data for 281 to 0.  Provide the Hotel features.	(1) 281 (2) 0: Available  (1) 835 (2) 0: To allow
CM20	Assign the access code for Maid Status.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A029: Maid Status
CM90	Assign the Maid Status key/Room Status key to the Front Desk Terminal.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> (1) My Line No. + <input type="text"/> + Key No. (2) F0029: Maid Status F1069: Room Status
CM12	Assign Service Restriction Class A to the required guest stations.	<ul style="list-style-type: none"> <li>Y=02</li> </ul> (1) X-XXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow Room Status Code setting (Room Cut-off/Trunk Restriction class change).	<ul style="list-style-type: none"> <li>Y=222</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 0: Allow
CM12	Assign the Charging Station Class to each station.	<ul style="list-style-type: none"> <li>Y=45</li> </ul> (1) X-XXXXXXXXX: Station No. (2) 00-15◀: Charging Station Class No.
CM15	Allow the operation set by CM4B Y=00 simultaneously when Room Status Code is set/changed.	<ul style="list-style-type: none"> <li>Y=393</li> </ul> (1) 00-15: Charging Station Class assigned by CM12 Y=45 (2) 0: Allow
A		

A	DESCRIPTION	DATA
CM42	Assign Room Status Code set by Check In operation.	(1) 186 (2) 01-08 : Room Status Code 1-8 NONE◀: Not used
	Assign Room Status Code set by Check Out operation.	(1) 187 (2) 01-08 : Room Status Code 1-8 NONE◀: Not used
CM4B	Assign the each function to the Room Status Code assigned by CM42>186 and 187.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X 00: Room Cutoff set/reset X: 1-8: Room Status Code</li> <li>(2) 1 : To set 2 : To reset NONE◀: Not available</li> <li>• Y=00</li> <li>(1) X 01: Do Not Disturb set/reset X: 1-8: Room Status Code</li> <li>(2) 1 : To set 2 : To reset NONE◀: Not available</li> <li>• Y=00</li> <li>(1) X 02: Automatic Wake Up call reset X: 1-8: Room Status Code</li> <li>(2) 1 : Available NONE◀: Not available</li> <li>• Y=00</li> <li>(1) X 03: Message Waiting set/reset X: 1-8: Room Status Code</li> <li>(2) 1 : To set 2 : To reset NONE◀: Not available</li> <li>• Y=00</li> <li>(1) X 05: Room Status Code dialing from guest room is allowed X: 1-8: Room Status Code</li> <li>(2) 1 : Allow NONE◀: Not allowed</li> </ul>
B		



To provide Room Status Printout:

START	DESCRIPTION	DATA
CM04	Specify the control method of Hotel Feature.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 10</li> <li>(2) 1: Hotel/Motel Front Desk Instrument</li> </ul>
CM08	Specify the Hotel Features.	<ul style="list-style-type: none"> <li>(1) 835</li> <li>(2) 0 : To allow</li> <li style="padding-left: 20px;">1◀: Not allowed</li> </ul>
	Specify number of sending digits for printer.	<ul style="list-style-type: none"> <li>(1) 888</li> <li>(2) 0 : Printer for 80 digits</li> <li style="padding-left: 20px;">1◀: Printer for 20 digits</li> </ul>
	Specify the Wake Up call information Printout of All Guest Station Information by Printer for 20 digits when Wake Up Call is ineffective.	<ul style="list-style-type: none"> <li>(1) 1701</li> <li>(2) 0 : To print</li> <li style="padding-left: 20px;">1◀: Not printed</li> </ul>
	Specify the Room Status Printout of Administrative Stations which are assigned by CM13 Y=51 during Guest Station Information Printout.	<ul style="list-style-type: none"> <li>(1) 1702</li> <li>(2) 0 : To print</li> <li style="padding-left: 20px;">1◀: Not printed</li> </ul>
	Specify Maid Identification number used for Maid Status.	<ul style="list-style-type: none"> <li>(1) 281</li> <li>(2) 0 : Available</li> <li style="padding-left: 20px;">1◀: Not available</li> </ul>
END		

(2) Maid Status (PMS System)

To assign the Flexible Maid Status Code PMS:

START	DESCRIPTION	DATA
CM04	Specify the control method of Hotel Feature.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 10: Control method of Hotel feature</li> <li>(2) 0: PMS</li> </ul>
CM42	Assign the desired Dial No. (0-9, A (*), B (#)) to the Maid status.  <b>NOTE:</b> <i>This data is effective when CM08&gt;1875 is set to 0 (Available).</i>	<ul style="list-style-type: none"> <li>(1) 870: Maid status of Dial 0</li> <li>871: Maid status of Dial 1</li> <li>872: Maid status of Dial 2</li> <li>873: Maid status of Dial 3</li> <li>874: Maid status of Dial 4</li> <li>875: Maid status of Dial 5</li> <li>876: Maid status of Dial 6</li> <li>877: Maid status of Dial 7</li> <li>878: Maid status of Dial 8</li> <li>879: Maid status of Dial 9</li> <li>880: Maid status of Dial *</li> <li>881: Maid status of Dial #</li> <li>(2) 01-05 : Maid status 1-5</li> <li>NONE◀: Invalid dial</li> </ul>
CM08	Provide the Flexible Maid Status Code PMS.	<ul style="list-style-type: none"> <li>(1) 1875</li> <li>(2) 0: Available</li> </ul>
END		

### HARDWARE REQUIRED

Printer (Customer provided) and RS PRT-15S CA/RS PRT-15S CA-C/RS NORM-4S CA  
Front Desk Terminal

## MESSAGE REGISTRATION

### PROGRAMMING

The SMDR is used to provide Message Registration information to a call accounting system. For details, refer to STATION MESSAGE DETAIL RECORDING (SMDR). [Page 1-748](#)

To provide Message Registration on PMS:

START	DESCRIPTION	DATA
CM04	Specify PMS via LAN port as the destination to send a call information.	<ul style="list-style-type: none"> <li>Y=01</li> <li>(1) 05: Destination to send a call information</li> <li>(2) 1 : PMS via LAN port</li> </ul>
CM08	Assign the Pseudo-Answer signal function when the answer signal (Battery Reversal) has not been detected within the time assigned by CM41 Y=0>03 after making an outgoing trunk call.  <b>NOTE:</b> <i>This data is effective when CM35 Y=004 is set to "1".</i>	<ul style="list-style-type: none"> <li>(1) 123</li> <li>(2) 0 : Not sent</li> <li>1◀: To send <b>[Other than Australia]</b></li> <li>0 : To send</li> <li>1◀: Not sent <b>[Australia Only]</b></li> </ul>
CM13	Provide SMDR service for outgoing calls to required stations.	<ul style="list-style-type: none"> <li>Y=06</li> <li>(1) X-XXXXXXX: Station No.</li> <li>(2) 1◀: To provide</li> </ul>
CM35	Specify the type of answer signal from distant office in outgoing connection for each trunk route.	<ul style="list-style-type: none"> <li>Y=004</li> <li>00-63: Trunk Route No.</li> <li>(1) 1 : Battery Reversal from C.O. line</li> <li>(2) 2 : Answer signal arrives from Tie Line/ISDN</li> <li>7◀: No answer signal arrives</li> </ul>
A		

A	DESCRIPTION	DATA
CM35	Provide SMDR service for outgoing calls to the required trunk routes.	<ul style="list-style-type: none"> <li>• Y=014</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 1◀: To provide</li> </ul>
	Assign a trunk access code sent to SMDR for outgoing calls.	<ul style="list-style-type: none"> <li>• Y=044</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00-99: Trunk Access Code</li> </ul>
CM41	Specify the timing of SMDR valid call timer (pseudo-answer timer).	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 03</li> <li>(2) 00-08: 8-40 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 20-24 seconds.</p>
<u>END</u>		

### HARDWARE REQUIRED

Call Accounting System (customer provided) or PMS

## MESSAGE WAITING

### PROGRAMMING

To provide the Message Waiting from an administrative station, Front Desk Terminal, or PMS:

START	DESCRIPTION	DATA												
CM12	Assign Service Restriction Class A for Message Waiting to the required guest or administrative station as shown below.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>												
CM15	Assign the function of Message Waiting in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=024 Administrative station allowing Message Waiting Set/Reset to guest room</li> <li>Y=040 Guest Station</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0 : Restricted 1◀: Allow</li> <li>Y=222</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0: Allow</li> </ul>												
	<table border="1"> <thead> <tr> <th>GUEST/ADMINISTRATIVE</th> <th>CM15 Y=024</th> <th>CM15 Y=040</th> </tr> </thead> <tbody> <tr> <td>Guest station w/o MW Lamp</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Guest station with MW Lamp</td> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Administrative station</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> </tr> </tbody> </table>	GUEST/ADMINISTRATIVE	CM15 Y=024	CM15 Y=040	Guest station w/o MW Lamp	0	0	Guest station with MW Lamp	0	1	Administrative station	1	0	
GUEST/ADMINISTRATIVE	CM15 Y=024	CM15 Y=040												
Guest station w/o MW Lamp	0	0												
Guest station with MW Lamp	0	1												
Administrative station	1	0												
	Allow Room Status Code setting (Message Waiting/Trunk Restriction class change) in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=03</li> <li>(1) X-XXXXXX: Station No.</li> <li>(2) 0 : To provide 1◀: Not provided</li> </ul>												
CM13	Specify whether to provide Message Waiting for a station with MW lamp.	<ul style="list-style-type: none"> <li>Y=13</li> <li>(1) X-XXXXXX: Station No.</li> <li>(2) 0 : Administrative station 1◀: Guest station</li> </ul>												
	<p><b>NOTE:</b> <i>This command is effective only when using a Single Line Telephone with MW lamp, Standard SIP Terminal.</i></p> <p>Specify guest station or administrative station to each station.</p> <p><b>NOTE:</b> <i>This data assignment is not required when Message Waiting is set by PMS.</i></p>													
A														



A	DESCRIPTION	DATA
CM12	Assign Service Restriction Class C to each station.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-15◀: Service Restriction Class C</li> </ul>
CM15	Specify if MW lamp on Multiline Terminal when Message Waiting is to be lit.  <b>NOTE:</b> <i>This command is effective only when using the Multiline Terminal.</i>	<ul style="list-style-type: none"> <li>• Y=286</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : Not lit 1◀: To light</li> </ul>
CM20	Assign access code for Message Waiting Set/Reset/Retrieve from administrative station, if required.  <b>NOTE:</b> <i>This data assignment is not required when Message Waiting is set by PMS.</i>	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>• X-XXXX: Access Code</li> <li>(1) A040: MW Lamp Control Set</li> <li>(2) A041: MW Lamp Control Reset A147: MW Retrieve</li> </ul>
CM51	Assign the Message Front destination to be routed by dialing MW Retrieve code or pressing MW key on Multiline Terminal to which Message Waiting is set.	<ul style="list-style-type: none"> <li>• Y=15</li> <li>(1) 00-63: Tenant No. to which MW set Multiline Terminal belongs</li> <li>(2) X-XXXXXX: Station No./My Line No. or E000: Attendant Console</li> </ul>
CM08	<p>If an Attendant Console is assigned to as the Message Front destination by CM51 Y=15, set the data for 233 to 0. With this setting, Message Waiting is automatically reset when the Attendant answers.</p> <p>Specify whether to delete Call History-No Answer/Message Waiting irrespective of the station answering when calling back to the Call History-No Answer or the Message Waiting.</p> <p>Specify whether to delete all stored Call History-No Answer/Message Waiting of the calling station when answering the call.</p>	<ul style="list-style-type: none"> <li>(1) 233</li> <li>(2) 0: Available</li> </ul> <ul style="list-style-type: none"> <li>(1) 234</li> <li>(2) 0 : To delete 1◀: Not delete (To delete only when answering)</li> </ul> <ul style="list-style-type: none"> <li>(1) 235</li> <li>(2) 0 : To delete 1◀: Not delete</li> </ul>
B		

	DESCRIPTION	DATA
B		
CM08	Specify whether Message Waiting record is printed out on Hotel Printer, and the report is sent to PMS when setting or resetting Message Waiting.	(1) 267 (2) 0 : Available 1◀: Not available
CM90	Assign the Message Waiting function key to the Multiline Terminal of administrative station or Front Desk Terminal or Attendant Console, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) • For administrative station               <ul style="list-style-type: none"> <li>F0040: Message Waiting Set</li> <li>F0041: Message Waiting Reset</li> </ul> </li> <li>• For guest station w/o MW Lamp               <ul style="list-style-type: none"> <li>F1005: Message Waiting Lamp</li> </ul> </li> </ul> (1) DESKCON No. (E000-E007) + [ ] + Key No. (2) F6101: Message Waiting F6104: Reset
<u>END</u>		

The specify whether to light MW lamp on Multiline Terminal for each service of MW lamp control, refer to the programming in INCOMING CALL HISTORY (CID CALL BACK). [📄 Page 1-157](#)

### HARDWARE REQUIRED

Single Line Telephone with Message Waiting Lamp  
8LC or 4LC blade

To provide Front Desk Terminal or PMS:  
Front Desk Terminal or  
PMS

## PROPERTY MANAGEMENT SYSTEM INTERFACE

### PROGRAMMING

The following shows the minimal programming to establish the PMS interface link. After this programming, the Status Inquiry (Feature Code “70”, Function Code “F” and “0”) is available.

#### To provide PMS on IP

**NOTE:** *The CPU blade (or the CPU blade in a Main Unit when Remote Unit over IP feature is provided) communicates with the PMS terminal. For the settings in the PMS terminal side, set IP address assigned by CM0B Y=0XX/1XX>00 (or CM0B Y=0XX/1XX>50 when VLAN is provided) as a destination of the PMS terminal, and set “60050” as the port number.*

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content;">CM02</div>	Assign the system clock data.	(1) 0: Calendar Year (2) 2014-2099  (1) 1: Date (2) MM DD WW MM: 01-12 (Month) DD : 01-31 (Date) WW: 00 (Sun) 01 (Mon) 02 (Tue) 03 (Wed) 04 (Thu) 05 (Fri) 06 (Sat)  (1) 2: Time (2) HH MM SS HH : 00-23 (Hour) MM: 00-59 (Minute) SS : 00-59 (Second)
<div style="border: 1px solid black; padding: 2px; width: fit-content;">A</div>		

A	DESCRIPTION	DATA
CM0B	Assign the IP Address for the system.	<ul style="list-style-type: none"> <li>• Y=0XX (Maintenance Port [0] + Unit No. [01-50]) 1XX (VOIP Port [1] + Unit No. [01-50])</li> </ul> (1) 00 (2) XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: IP Address for the system (Maximum 15 digits)
	<p><b>NOTE:</b> <i>The second data must be entered including the periods (.).</i></p>	
	RESET	
	Assign the Subnet Mask for the system.	<ul style="list-style-type: none"> <li>• Y=0XX (Maintenance Port [0] + Unit No. [01-50]) 1XX (VOIP Port [1] + Unit No. [01-50])</li> </ul> (1) 01 (2) XXX.XXX.XXX.XXX: 255.0.0.0-255.255.255.252: Subnet Mask for the system (Maximum 15 digits)
	<p><b>NOTE:</b> <i>The second data must be entered including the periods (.).</i></p>	
	RESET	
	Assign the Default Gateway Address for the system.	<ul style="list-style-type: none"> <li>• Y=0XX (Maintenance Port [0] + Unit No. [01-50]) 1XX (VOIP Port [1] + Unit No. [01-50])</li> </ul> (1) 02 (2) XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: Default Gateway Address for the system (Maximum 15 digits)
	<p><b>NOTE 1:</b> <i>The second data must be entered including the periods (.).</i></p>	
	<p><b>NOTE 2:</b> <i>There are the following conditions when setting the Default Gateway Address by this command.</i></p> <ul style="list-style-type: none"> <li>• <i>Only one Default Gateway Address can be set for the system.</i></li> <li>• <i>Set the Default Gateway Address to Maintenance port (Y=0XX) when not using VoIPDB.</i></li> <li>• <i>Set the Default Gateway Address to VOIP port (Y=1XX) when using VoIPDB.</i></li> </ul>	
B		

B	DESCRIPTION	DATA
CM0B	Select the port for PMS. <div style="text-align: right; border: 1px solid black; border-radius: 15px; padding: 2px 10px;">RESET</div> <p><b>NOTE:</b> Only Unit01 can be set by this data.</p>	<ul style="list-style-type: none"> <li>• Y=001</li> <li>(1) 93</li> <li>(2) 0 : Maintenance Port</li> <li>1◀: VOIP Port</li> </ul>
CM04	Assign the control method of Hotel feature.  Specify PMS as the destination to send a call information.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 10: Control method of Hotel feature</li> <li>(2) 0: PMS</li> </ul> <ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 05: Destination to send a call information</li> <li>(2) 1: PMS</li> </ul>
CM08	Specify the number of digits for a sequence used to communicate with the PMS.  Specify the timing that the system sends a recovery process request to the PMS on IP.	<ul style="list-style-type: none"> <li>(1) 825</li> <li>(2) 0 : 3 digits (000-199)</li> <li>1◀: 2 digits (00-99)</li> </ul> <ul style="list-style-type: none"> <li>(1) 826</li> <li>(2) 0 : At every connection establishment</li> <li>1◀: At the first connection establishment only since system reset</li> </ul>
CM13	Specify the kind of station.  <p><b>NOTE:</b> If the station except Hotel Console and guest station is used, set the second data to "0".</p>	<ul style="list-style-type: none"> <li>• Y=51</li> <li>(1) X-XXXXXX: Station No.</li> <li>(2) 0 : Administrative Station</li> <li>1◀: Guest Station</li> </ul>
<u>END</u>		

To display PMS information on an Administrative station, or a Front Desk Terminal, do the following programming in addition to the programming.

START	DESCRIPTION	DATA												
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CMA7</div>	<p>Specify whether to provide Guest Name Display-CCIS. <b>[9300V3 software required]</b></p> <p><b>NOTE 1:</b> <i>This command setting is required for the own office and the opposite office.</i></p> <p><b>NOTE 2:</b> <i>When the opposite office is SV8300/SV9300 (V2 or before), Guest Name Display-CCIS cannot be used. In such a case, do not set the second data 0 (To provide) of this command.</i></p>	<ul style="list-style-type: none"> <li>• Y=85</li> <li>(1) 00-63: CCIS Channel No.</li> <li>(2) 0 : To provide 1◀: Not provided</li> </ul>												
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	<p>Set the Name Display (Guest Name) function of the Multiline Terminal (time to go back to Data and Time display after the call answered).</p> <p style="text-align: right;"><b>◀: Default</b></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: center;">CM08&gt; 120</th> <th style="text-align: center;">CM08&gt; 121</th> <th style="text-align: center;">DISPLAY CONDITIONS ON MULTILINE TERMINAL</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1◀</td> <td style="text-align: center;">1◀</td> <td>Go back to Data and Time display after 6 seconds.</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> <td>Go back to Data and Time display after 10 seconds.</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">0</td> <td>Guest Name is displayed until call finished.</td> </tr> </tbody> </table> <p><b>NOTE 1:</b> <i>A Guest Name can be displayed on the Multiline Terminal during calling to the party or receiving a incoming call.</i></p> <p><b>NOTE 2:</b> <i>A Guest Name can be displayed on the Attendant Console during calling to the party or answering a incoming call.</i></p>	CM08> 120	CM08> 121	DISPLAY CONDITIONS ON MULTILINE TERMINAL	1◀	1◀	Go back to Data and Time display after 6 seconds.	0	1	Go back to Data and Time display after 10 seconds.	-	0	Guest Name is displayed until call finished.	<ul style="list-style-type: none"> <li>(1) 120</li> <li>(2) 0 : 10 seconds later 1◀: 6 seconds later See the left table.</li> <li>(1) 121</li> <li>(2) 0 : Until call finished 1◀: As per CM08&gt;120 See the left table.</li> </ul>
CM08> 120	CM08> 121	DISPLAY CONDITIONS ON MULTILINE TERMINAL												
1◀	1◀	Go back to Data and Time display after 6 seconds.												
0	1	Go back to Data and Time display after 10 seconds.												
-	0	Guest Name is displayed until call finished.												
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>														

A	DESCRIPTION	DATA
CM35	Assign a trunk name number to each trunk route.	<ul style="list-style-type: none"> <li>• Y=003</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00-14: Trunk Name No.</li> <li>15◀: Kind of trunk route assigned by CM35 Y=000 are displayed</li> <li>16-63: Trunk Name No.</li> </ul>
CM77	Enter the desired station user name to each station number by CM77 Y=0 or Y=1.	<ul style="list-style-type: none"> <li>• Y=0 By Character Code</li> <li>(1) X-XXXXXX: Station No.</li> <li>(2) 20-7F: Character Code Maximum 32 digits See APPENDIX A: Character Code Table. <a href="#">Page A-2</a></li> <li>• Y=1 By Character using PCPro</li> <li>(1) X-XXXXXX: Station No.</li> <li>(2) A-Z, 0-9: Character Maximum 16 characters</li> <li>• Y=2 By Character Code</li> <li>(1) 00-14, 16-63: Trunk Route Name No. assigned by CM35 Y=003</li> <li>(2) 20-7F: Character Code Maximum 8 digits See APPENDIX A: Character Code Table. <a href="#">Page A-2</a></li> <li>• Y=3 By Character using PCPro</li> <li>(1) 00-14, 16-63: Trunk Route Name No. assigned by CM35 Y=003</li> <li>(2) A-Z, 0-9: Character Maximum 4 characters</li> </ul>
	Enter the desired trunk route name to each trunk route by CM77 Y=2 or Y=3.	
CM08	Select the PMS information to be displayed on an Administrative Station, a Front Desk Terminal and a Hotel Console.	<ul style="list-style-type: none"> <li>(1) 548</li> <li>(2) 0 : PMS information A/B</li> <li>1◀: VIP/language</li> </ul>
	<p><b>NOTE:</b> <i>Set this command to the office which accommodates the terminal to display the Guest information.</i></p>	
B		

B	DESCRIPTION	DATA
CM08	<p>Specify the PMS information display assigned by CM08&gt;548 on a Hotel Console.</p> <p><b>NOTE:</b> <i>Set this command to the office which accommodates the Attendant Console to display the Guest information.</i></p>	<p>(1) 549 (2) 0: Display PMS information assigned by CM08&gt;548</p>
CM13	<p>Specify the kind of station in the hotel function.</p> <p><b>NOTE:</b> <i>Set this data to the office which accommodates the terminal to display the Guest information.</i></p> <p>Specify the PMS information display assigned by CM08&gt;548 on an Administrative Station and a Front Desk Console.</p> <p><b>NOTE:</b> <i>Set this command to the office which accommodates the terminal to display the Guest information.</i></p>	<ul style="list-style-type: none"> <li>• Y=51</li> <li>(1) X-XXXXXX: Station No.</li> <li>(2) 0 : Administrative Station 1 ◀: Guest Station</li> </ul> <ul style="list-style-type: none"> <li>• Y=52</li> <li>(1) 0</li> <li>(2) X-XXXXXX: Station No. 0: Display PMS information assigned by CM08&gt;548</li> </ul>
END		



When printing the set/cancel/execution record of hotel features such as Automatic Wake Up/Do Not Disturb/Room Cutoff/Message Waiting, do the following programming in addition to the programming previously mentioned.

To make the printing of each hotel feature record available:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>	Provide the Hotel Features.	(1) 835 (2) 0: To allow
	Specify the number of sending digits for printer.	(1) 888 (2) 0 : 80 digits 1◀: 20 digits
	Specify the line feed code for external printer (for 20 digits).	(1) 856 (2) 0 : CR 1◀: CR/LF
	Specify whether the printing of Do Not Disturb set/cancel from a individual station is available, or not.	(1) 861 (2) 0 : Not available 1◀: Available
	Specify whether the printing of Do Not Disturb for a individual station set/cancel from a Front console/Hotel console/DSS console/PMS/Attendant console is available, or not.	(1) 862 (2) 0 : Not available 1◀: Available
	Specify whether the printing of Room Cutoff for a individual station set/cancel from a Front console/Hotel console/DSS console/PMS/Attendant console is available, or not.	(1) 863 (2) 0 : Not available 1◀: Available
	Specify whether the printing of Message Waiting set/cancel from a Front console/Hotel console/DSS console/PMS/Attendant console is available, or not.	(1) 865 (2) 0 : Not available 1◀: Available
	Specify whether the printing of Automatic Wake Up set/cancel from a individual station is available, or not.	(1) 878 (2) 0 : Not available 1◀: Available
	Specify whether the printing of Automatic Wake Up for a individual station set/cancel from a Front console/Hotel console/DSS console/PMS/Attendant console is available, or not.	(1) 857 (2) 0 : Not available 1◀: Available
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		

A	DESCRIPTION	DATA
CM08	Specify whether the printing of Automatic Wake Up for a individual station execution is available, or not.	(1) 859 (2) 0 : Not available 1◀: Available
	Specify the printing way of Automatic Wake Up for a individual station execution.	(1) 860 (2) 0 : To print process and result 1◀: To print only result
	<b>NOTE:</b> <i>When the second data is set to 0, the record of the start of calling/the called station is busy/re-calling is also printed.</i>	
	Specify whether the printing of Check In/Check In cancel, Check Out/Check Out cancel is available, or not.	(1) 867 (2) 0 : Not available 1◀: Available
	Specify whether the printing when the PMS is connected/disconnected to/from the system is available, or not.	(1) 868 (2) 0 : Not available 1◀: Available
	Specify whether the printing of Room Status Code Record is available, or not.	(1) 866 (2) 0 : Not available 1◀: Available
	Specify the printing way of call charge for ISDN calls.	(1) 881 (2) 0 : Information from ISDN network 1◀: CPU Built-in charge
	Specify whether to provide ACC/AUTH for Station Individual Call Record Print.	(1) 890 (2) 0 : To provide 1◀: Not provided
CM15	Specify the decimal setting for Call charge.	(1) 893 (2) 0 : Raise decimals to the next whole number 1◀: Not raised
	Specify whether to send detail information of Immediate Printout Call Record for the Printer.	• Y=390 (1) 00-15: Charging Station Class No. assigned by CM12 Y=45 (2) 0 : To send 1◀: Not sent
B		

	DESCRIPTION	DATA
B		
CM15	Specify whether to allow the Call Charge Print for hours for long-time call.	<ul style="list-style-type: none"> <li>• Y=394</li> <li>(1) 00-15: Charging Station Class No. assigned by CM12 Y=45</li> <li>(2) 0 : Restricted 1◀: Allow</li> </ul>
CM42	Assign the time for monitoring long-time call duration of trunk call in Call Charge Immediate Printout/Call Charge Printout for individual station/Call Charge Printout of a long-time call.	<ul style="list-style-type: none"> <li>(1) 806</li> <li>(2) 01-99 : 1-99 minutes NONE◀: Not monitored</li> </ul>
CM40	Assign the CS control of RS-232C ports.	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) 0: Unit01 Port 1 1: Unit01 Port 2 4: Unit02 Port 1 <b>NOTE 1</b> 5: Unit02 Port 2 <b>NOTE 1</b> 6: Unit03 Port 1 <b>NOTE 1</b> 7: Unit03 Port 2 <b>NOTE 1</b></li> <li>(2) 0 : CS control is always provided 1◀: As per CS signal input</li> </ul>
	<p><b>NOTE 1:</b> <i>The setting of Port Location Numbers 4-7 are effective after the system reset or for 10 minutes after this data setting.</i></p> <p><b>NOTE 2:</b> <i>Set the second data of CM40 Y=07 to "0" when using a printer cable.</i></p> <p><b>NOTE 3:</b> <i>Set the second data of CM40 Y=07 to "1" when using a cable except for printer.</i></p>	
CM42	Specify the Masked Digits of an outgoing call number in Immediate Printout Call Record/ Station individual Call Record Print/Call Charge Printout of a long-time call.	<ul style="list-style-type: none"> <li>(1) 804</li> <li>(2) 01-15 : 1-15 digits NONE◀: All digits printed</li> </ul>
	Specify the Number of line feeds after printing.	<ul style="list-style-type: none"> <li>(1) 807</li> <li>(2) 01-10 : 1-10 line feeds NONE◀: 1 line feed</li> </ul>
END		

To Clear the Billing memory:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM00</div>	Clear the Billing memory.	(1) 10 (2) CCC
	<p><b>NOTE:</b> <i>The charging data which are cleared by this command are as follows (there is no charge).</i></p> <ul style="list-style-type: none"> <li>• <i>Call charge printout/display for individual station</i></li> <li>• <i>Call charge printout/display for each tenant</i></li> <li>• <i>Call charge printout/display for all tenants (for previous month)</i></li> <li>• <i>Call charge printout/display for all tenants (for this month)</i></li> <li>• <i>Call charge printout/display for all stations</i></li> <li>• <i>Call charge printout/display for tenants at the set date and time</i></li> <li>• <i>Call charge printout/display for stations at the set date and time</i></li> </ul>	
<u>END</u>		

To Clear the SRAM area:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM00</div>	Clear the SRAM area.	(1) 02 (2) CCC
	<p><b>NOTE:</b> <i>Be careful handling CM00&gt;02, because all stored data in a SRAM area is cleared when the SRAM area memory clear is executed by this command. Do not use this command unless the system is initially started, additional Units are accommodated, the CPU blade is replaced, or the SRAM data is corrupted for reasons such as a power discontinuity of SV9300 (because the battery backup for SRAM is effective for approximately one week, the SRAM data can be corrupted if SV9300 has been powered off for more than one week).</i></p>	
<u>END</u>		

To Provide PMS on RS-232C:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM04</div>	<p>Specify the CPU as control method of the Hotel feature.</p> <p>Select the PMS Interface.</p>	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 10: Control method for the Hotel feature</li> <li>(2) 0: PMS</li> </ul> <ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 14: PMS Interface</li> <li>(2) 0: RS-232C</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM40</div>	<p>Assign the function of RS-232C ports.</p> <p><b>NOTE:</b> <i>This data setting of Port Location Number 4-7 is available when resetting the system or waiting for 10 minutes after this data setting.</i></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 0: Unit01 port1</li> <li>1: Unit01 port2</li> <li>4: Unit02 port1 <b>NOTE</b></li> <li>5: Unit02 port2 <b>NOTE</b></li> <li>6: Unit03 port1 <b>NOTE</b></li> <li>7: Unit03 port2 <b>NOTE</b></li> <li>(2) 24: PMS</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>		

A

**DESCRIPTION**

**DATA**

CM40

Assign the attribute data, depending on the PMS.

- Y=01-06, 08
- (1) See the following table.
- (2) See the following table.

◀: Default

Y		1st DATA		2nd DATA	
No.	MEANING	DATA	PORT LOCATION No.	DATA	MEANING
01	Data length	0	Unit01 Port 1	0	7 bit
		1	Unit01 Port 2	1◀	8 bit
02	Parity check	4	Unit02 Port 1	0	Effective
		5	Unit02 Port 2	1◀	Ineffective
		6	Unit03 Port 1		
03	Kind of parity	7	Unit03 Port 2	0	Odd parity
				1◀	Even parity
04	Stop bit			0	1-Stop bit
				1◀	2-Stop bit
05	DTR signal sent to terminal			0	Low
				1◀	High
06	RTS signal sent to terminal			0	Low
				1◀	High
08	Data speed			1	1200 bps
				2	2400 bps
				3	4800 bps
				4	9600 bps
				5	19200 bps
				NONE◀	9600 bps

CM08

Specify whether the send Check OUT Outgoing Call Report (FTC=16, FC=C) to PMS, if a checked out station is engaged in a C.O. outgoing call.

- (1) 1817
- (2) 0 : Not sent
- 1◀: To send

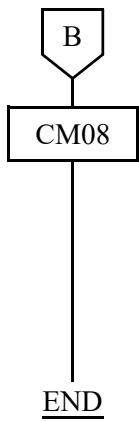
Specify whether the send Check OUT Message Waiting On/Off Report (FTC=16, FC=5/6) to PMS.

- (1) 1818
- (2) 0 : To send
- 1◀: Not sent

Specify the PMS message format for Call information.

- (1) 1819
- (2) 0 : FTC=14, FC=2
- 1◀: FTC=54, FC=1

B

	<b>DESCRIPTION</b>	<b>DATA</b>
	Specify the PMS message format for Message Waiting Lamp ON/OFF changed by PBX.	(1) 1820 (2) 0 : FTC=13, FC=3/4 1◀: FTC=53, FC=2
	Provide the parity LRC to transmission for PMS (Attach BCC to messages).	(1) 1821 (2) 0 : Not provided 1◀: To provide

To Call charge information output for PMS, do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM04</div>	<p>Specify the maximum number of calls to be stored with each SMDR billing data.</p> <p><b>NOTE 1:</b> <i>When changing this data, execute the SRAM billing record clear by CM00&gt;02 or CM00&gt;11.</i></p> <p><b>NOTE 2:</b> <i>When printing billing data of a certain station, be sure to execute CM00&gt;02 command to clear the entire SRAM area before changing this data.</i></p> <p>Specify the destination of PMS to send a call information (SRAM).</p> <p><b>NOTE:</b> <i>This data setting of effective only when the 2nd data of CM04 Y=01&gt;12 is set.</i></p>	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 12: Maximum number of calls to be stored with each SMDR billing data.</li> <li>(2) 0 : SRAM (Maximum 27000 calls)</li> <li>1 : SRAM (Maximum 12000 calls)</li> <li>3◀: SRAM (Maximum 12000 calls)</li> </ul> <ul style="list-style-type: none"> <li>• Y=62</li> <li>(1) 01: Outgoing trunk call</li> <li>(2) 0: Available</li> </ul>
<u>END</u>		



To Clear the Billing memory:

START	DESCRIPTION	DATA
CM00	Clear the Billing memory.	(1) 10 (2) CCC
	<b>OFF LINE</b>	
	<p><b>NOTE:</b> <i>The charging data which are cleared by this command are as follows (there is no charge).</i></p> <ul style="list-style-type: none"> <li>• <i>Call charge printout/display for individual station</i></li> <li>• <i>Call charge printout/display for each tenant</i></li> <li>• <i>Call charge printout/display for all tenants (for previous month)</i></li> <li>• <i>Call charge printout/display for all tenants (for this month)</i></li> <li>• <i>Call charge printout/display for all stations</i></li> <li>• <i>Call charge printout/display for tenants at the set date and time</i></li> <li>• <i>Call charge printout/display for stations at the set date and time</i></li> </ul>	
<u>END</u>		

To Clear the SRAM area.

START	DESCRIPTION	DATA
CM00	Clear the entire SRAM area.	(1) 02 (2) CCC
	<b>OFF LINE</b>	
	<p><b>NOTE:</b> <i>Be careful handling CM00&gt;02, because all stored data in a SRAM area is cleared when the SRAM area memory clear is executed by this command. Do not use this command unless the system is initially started, additional Units are accommodated, the CPU blade is replaced, or the SRAM data is corrupted for reasons such as a power discontinuity of SV9300 (because the battery backup for SRAM is effective for approximately one week, the SRAM data can be corrupted if SV9300 has been powered off for more than one week).</i></p>	
<u>END</u>		

To synchronize Front Desk Instrument to PMS:

**NOTE:** Use the following programming when the Hotel/Motel Front Desk Instrument feature is not used.

START	DESCRIPTION	DATA
CM04	Specify the control method of Hotel feature.	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) 10: Control method of Hotel feature</li> <li>(2) 0: PMS + Front Desk Instrument</li> </ul>
CM42	Assign Room Status Code set by Check In operation.	<ul style="list-style-type: none"> <li>(1) 186</li> <li>(2) 01-02 : Room Status Code 1-2</li> <li>NONE◀: Not used</li> </ul>
	Assign Room Status Code set by Check Out operation.	<ul style="list-style-type: none"> <li>(1) 187</li> <li>(2) 01-02 : Room Status Code 1-2</li> <li>NONE◀: Not used</li> </ul>
CM4B	Assign the each function to the Room Status Code assigned by CM42>186 and 187.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X 00: Room Cutoff set/reset X: 1-2: Room Status Code</li> <li>(2) NONE◀: Not available</li>   <li>• Y=00</li> <li>(1) X 01: Do Not Disturb set/reset X: 1-2: Room Status Code</li> <li>(2) NONE◀: Not available</li>   <li>• Y=00</li> <li>(1) X 02: Automatic Wake Up call reset X: 1-2: Room Status Code</li> <li>(2) NONE◀: Not available</li>   <li>• Y=00</li> <li>(1) X 03: Message Waiting set/reset X: 1-2: Room Status Code</li> <li>(2) NONE◀: Not available</li>   <li>• Y=00</li> <li>(1) X 05: Room Status Code dialing from guest room is allowed X: 1-2: Room Status Code</li> <li>(2) NONE◀: Not allowed</li> </ul>
A		

	DESCRIPTION	DATA
A		
CM4B	Assign the each function to the Room Status Code assigned by CM42>186 and 187.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X 06: Change of Trunk Restriction Class Change-Guest Station</li> <li>(2) X: 1-2: Room Status Code               <ul style="list-style-type: none"> <li>1 : Unrestricted (RCA)</li> <li>2 : Non-Restricted 1 (RCB)</li> <li>3 : Non-Restricted 2 (RCC)</li> <li>4 : Semi-Restricted 1 (RCD)</li> <li>5 : Semi-Restricted 2 (RCE)</li> <li>6 : Restricted 1 (RCF)</li> <li>7 : Restricted 2 (RCG)</li> <li>8 : Fully-Restricted (RCH)</li> <li>9 : Restriction reset (As per CM12 Y=01)</li> </ul> </li> <li>NONE◀: Not available</li> </ul>
END		

Programming example to synchronize Front Desk Instrument with PMS:

Assuming LCR programming is:

RCA for Long Distance, Local, and 911 calls

RCA for Local and 911 calls

RCC for 911 calls

CM04 Y=01>10: 0	Hotel Control by PMS + Front desk Instrument
CM42>186: 01	Room Status Code 01 for Check In
CM42>187: 02	Room Status Code 02 for Check Out
CM4B Y=00>100: NONE	Check In Room Cut Off set/reset not available
CM4B Y=00>101: NONE	Check In Do Not Disturb/reset not available
CM4B Y=00>102: NONE	Check In Wake Up set/reset not available
CM4B Y=00>103: NONE	Check In Message Waiting set/reset not available
CM4B Y=00>105: NONE	Dial code from guest station not allowed
CM4B Y=00>106: 9	Use Trunk Restriction assigned in CM12 Y=01 (unrestricted outgoing when checked in)
CM4B Y=00>200: NONE	Check Out Room Cut Off set/reset not available
CM4B Y=00>201: NONE	Check Out Do Not Disturb set/reset not available
CM4B Y=00>202: NONE	Check Out Wake Up set/reset not available
CM4B Y=00>203: NONE	Check Out Message Waiting set/reset not available
CM4B Y=00>205: NONE	Dial code from guest station not allowed
CM4B Y=00>206: 3	Use RCC for (911) outgoing (when Checked Out).

**HARDWARE REQUIRED**

PMS

## ROOM CUTOFF

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### PROGRAMMING

Refer to “HOTEL/MOTEL TOLL RESTRICTION CHANGE-GUEST STATION”. [📄 Page 2-55](#)

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### HARDWARE REQUIRED

Front Desk Terminal or  
PMS

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## ROOM CUTOFF-GROUP

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### PROGRAMMING

START	DESCRIPTION	DATA
CM4A	Assign the calendar number to each system.	<ul style="list-style-type: none"><li>• Y=00</li><li>(1) 100</li><li>(2) 00 : Calendar No. 1</li><li>01 : Calendar No. 2</li><li>02 : Calendar No. 3</li><li>03 : Calendar No. 4</li><li>CCC : Data clear</li><li>NONE◀: Ineffective</li></ul>
A		

A	DESCRIPTION	DATA
CM4A	<p>Assign the week schedule number to the date to change schedule, in each calendar number assigned by CM4A Y=00.</p> <p><b>NOTE 1:</b> <i>The schedule not related to the weekly schedule (such as no-business day) shall be “Peculiar Day”, and the time schedule can be set directory for the month and the date.</i></p> <p><b>NOTE 2:</b> <i>This command is shared by Automatic Day/Night Mode Change, Automatic DND Mode Select, Do Not Disturb-Group, Timed Notification and Ecology Mode.</i></p>	<ul style="list-style-type: none"> <li>• Y=01 Calendar No. 1</li> <li>• Y=02 Calendar No. 2</li> <li>• Y=03 Calendar No. 3</li> <li>• Y=04 Calendar No. 4</li> </ul> <p>(1) XX ZZ: Date            XX: 01-12: Month            ZZ : 01-31: Date</p> <p>(2) 10 : Week Schedule No. 0            11 : Week Schedule No. 1            12 : Week Schedule No. 2            13 : Week Schedule No. 3            20 : Peculiar Day Time Schedule No. 0            21 : Peculiar Day Time Schedule No. 1            22 : Peculiar Day Time Schedule No. 2            23 : Peculiar Day Time Schedule No. 3            24 : Peculiar Day Time Schedule No. 4            25 : Peculiar Day Time Schedule No. 5            26 : Peculiar Day Time Schedule No. 6            27 : Peculiar Day Time Schedule No. 7            CCC : Data clear            NONE◀: Week Schedule No. 0</p>
B		

B

CM4A

**DESCRIPTION**

**DATA**

Assign the time schedule number to each day in the week schedule assigned by CM4A Y=01-04.

**NOTE:** *This command is shared by Automatic Day/Night Mode Change, Automatic DND Mode Select, Do Not Disturb-Group, Timed Notification and Ecology Mode.*

Assign the time and the kind of system service for the time schedule assigned by CM4A Y=10-13 or Y=01-04.

**NOTE 1:** *The time of time schedule is specified in units of 5 minutes. Set the last one digit of the "Minute" of the first data in units of 0 or 5 (truncation).*

**NOTE 2:** *Actually, the mode is changed after 4-8 seconds of the assigned time.*

**NOTE 3:** *This command is shared by Automatic Day/Night Mode Change, Automatic DND Mode Select, Do Not Disturb-Group and Ecology Mode.*

- Y=10 Week Schedule No. 0
- Y=11 Week Schedule No. 1
- Y=12 Week Schedule No. 2
- Y=13 Week Schedule No. 3

- (1) 0: Sunday  
1: Monday  
2: Tuesday  
3: Wednesday  
4: Thursday  
5: Friday  
6: Saturday
- (2) 20 : Time Schedule No. 0  
21 : Time Schedule No. 1  
22 : Time Schedule No. 2  
23 : Time Schedule No. 3  
24 : Time Schedule No. 4  
25 : Time Schedule No. 5  
26 : Time Schedule No. 6  
27 : Time Schedule No. 7  
NONE◀: Time Schedule No. 0

- Y=20 (Time Schedule No. 0)
- Y=21 (Time Schedule No. 1)
- Y=22 (Time Schedule No. 2)
- Y=23 (Time Schedule No. 3)
- Y=24 (Time Schedule No. 4)
- Y=25 (Time Schedule No. 5)
- Y=26 (Time Schedule No. 6)
- Y=27 (Time Schedule No. 7)

- (1) XX ZZ: Time  
XX: 00-23: Hour  
ZZ : 00-55: Minute **NOTE 1, NOTE 2**
- (2) 50 : System Service No. 0  
51 : System Service No. 1  
52 : System Service No. 2  
53 : System Service No. 3  
54 : System Service No. 4  
55 : System Service No. 5  
56 : System Service No. 6  
57 : System Service No. 7  
CCC : Data clear  
NONE◀: No system service

C



C	DESCRIPTION	DATA
CM4A	Set the Room Cutoff-Group for the system service assigned by CM4A Y=20-27.	<ul style="list-style-type: none"> <li>• Y=50 (System Service No. 0)</li> <li>• Y=51 (System Service No. 1)</li> <li>• Y=52 (System Service No. 2)</li> <li>• Y=53 (System Service No. 3)</li> <li>• Y=54 (System Service No. 4)</li> <li>• Y=55 (System Service No. 5)</li> <li>• Y=56 (System Service No. 6)</li> <li>• Y=57 (System Service No. 7)</li> </ul> (1) 00: Room Cutoff (2) 0: To set
CM13	Provide Room Cutoff-Group to required stations. Room Cutoff-Group is set to these stations (assigned by this command) simultaneously by operation from an Attendant Console.	<ul style="list-style-type: none"> <li>• Y=01</li> </ul> (1) X-XXXXXXXX: Station No. (2) 0: To provide
<u>END</u>		

### HARDWARE REQUIRED

Front Desk Terminal or  
PMS

## ROOM STATUS

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### PROGRAMMING

Refer to “MAID STATUS”. [📄 Page 2-61](#)

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### HARDWARE REQUIRED

Front Desk Terminal

Printer (Customer provided) and RS PRT-15S CA/RS PRT-15S CA-C/RS NORM-4S CA

## SINGLE DIGIT DIALING

### PROGRAMMING

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM21</div>	<p>Assign the single digit access code for the required features.</p> <p>For example, to provide the system with the following numbering plan:</p> <p>1X : Service Access            2XX: }            3XX: } Station Numbers            4XX: }</p> <p>8X : Trunk Route Access            9 : C.O. Outgoing Access            0 : Operator Call            1-8 : Single Digit Station Numbers</p>	<ul style="list-style-type: none"> <li>• Y=0-3: Numbering Plan Group 0-3</li> <li>(1) X: Single Digit Access Code 0-9, A (*), B (#)</li> <li>(2) A047 : TAS Answer A                A048 : TAS Answer B                A049 : TAS Answer C                A050 : TAS Answer D                A051 : TAS Answer E                100-163: Trunk Route 00-63                200-231: Route Advance Block 00-31                800 : Operator Call                801 : Single Digit station No.</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>	<p>The programming is:</p> <p>(1) Assign digit 1 through 8 to the Single Digit station number (Data=801), respectively. Assign the other access code by CM20.</p> <p>(2) Assign the station numbers (2XX, 3XX, 4XX, 1-8) to required Physical Port number by CM10 Y=00.</p>	

A	DESCRIPTION	DATA
CM20	<p>If different digit station numbers of the same level are required within a system, set the leading one or two digits to the data for the required combination of station numbering plan.</p> <p>For example, to provide the system with the following numbering plan:</p> <p>200-299 : 3 digits station numbers 2100-2199: 4 digits station numbers 2200-2299: 4 digits station numbers</p> <p>Assign the digit “2” to data 824 (2-4 digits station) and then assign the station numbers to required Physical Port number by CM10 Y=00. For calling the station 200-299 press “#” key or wait for ring start after dialing the station number.</p>	<ul style="list-style-type: none"> <li>• Y=0-3: Numbering Plan Group 0-3</li> <li>(1) X-XX: Leading one or two digits of station No.</li> <li>(2) 823: 2-3 digits station 824: 2-4 digits station</li> </ul>
CM41	<p>Specify the single digit dialing time-out (Timing Start) timer.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 13</li> <li>(2) 03-08: 3-8 seconds (1 second increment)</li> </ul> <p>If no data is set, the default setting is 4-5 seconds.</p>
<u>END</u>		

## SUITE ROOM SERVICE

### PROGRAMMING

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for master station in suite room.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	<p>Select the call termination to Suite Room station while one of the suite room station is busy in Service Restriction Class A assigned by CM12 Y=02.</p> <p><b>NOTE 1:</b> When this data is set to "1", Call Forwarding-Destination specified by CM51 Y=35 is available.</p> <p><b>NOTE 2:</b> Set this data for a Suite Room master station.</p>	<ul style="list-style-type: none"> <li>Y=227</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02.</li> <li>(2) 0 : Ring an idle station 1◀: Hearing busy tone</li> </ul>
CM12	<p>Assign the registration of master station/sub station in suite room.</p> <p>Assign the Suite Room Group Number for both master station and sub station in suite room.</p>	<ul style="list-style-type: none"> <li>Y=78</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Master station 1 : Sub station 3◀: Ordinary station</li> </ul> <ul style="list-style-type: none"> <li>Y=79</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 000-749 : Suite Room Group Number 000-749 NONE◀: No data</li> </ul>
CM57	<p>Assign the specification of Suite Room station number.</p> <p><b>NOTE:</b> Assign Serial No. 00 to Suite Room master station number, and assign Serial No. 01-03 to Suite Room sub station number.</p>	<ul style="list-style-type: none"> <li>Y=34</li> <li>(1) XXX YY XXX: 000-749: Suite Room Group No. YY : 00-03: Serial No. 00-03 (within the Suite Room Group)</li> <li>(2) X-XXXXXXXX: Station No. NONE◀ : No data</li> </ul>
A		

A	DESCRIPTION	DATA
CM08	<p>Specify the ringing on Suite Room station.</p> <p><b>NOTE:</b> <i>Sub station can be received an incoming call regardless of this data setting.</i></p>	<p>(1) 1856 (2) 0 : Ringing master station only 1◀: Ring all stations</p>
CM51	<p>Assign the destination of Call Forwarding when Suite Room station is busy.</p>	<ul style="list-style-type: none"> <li>• Y=35</li> <li>(1) 00-63: Tenant No.</li> <li>(2) X-XXXXXXXX: Station No. E000 : Attendant Console NONE◀: No data</li> </ul>
CM13	<p>Specify whether to provide the SMDR service for outgoing calls to the master station/sub station in suite room.</p> <p>Specify whether to provide the SMDR service for incoming calls to the master station/sub station in suite room.</p> <p>Restrict to store the Call History (IC) when the station call is answered, for the master station/sub station in suite room.</p> <p><b>NOTE:</b> <i>The 2nd data of this command is automatically set to 0 (To provide) when Digital Multiline terminal/IP station No. (FX-FXXXXXXXX) is assigned by CM10 Y=00/01.</i></p> <p>Restrict to store the Call History (IC) when handling of unanswered call, for the master station/sub station in suite room.</p> <p><b>NOTE:</b> <i>The 2nd data of this command is automatically set to 0 (To provide) when Digital Multiline terminal/IP station No. (FX-FXXXXXXXX) is assigned by CM10 Y=00/01.</i></p>	<ul style="list-style-type: none"> <li>• Y=06</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Not provided 1◀: To provide</li> <li>• Y=05</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Not provided 1◀: To provide</li> <li>• Y=41</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1◀: Not stored</li> <li>• Y=49</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1◀: Not stored</li> </ul>
B		

B	DESCRIPTION	DATA
CM13	Restrict to store the Call History (IC) when answering a trunk call.	<ul style="list-style-type: none"><li>• Y=60</li><li>(1) X-XXXXXXXX: Station No.</li><li>(2) 1◀: Not stored</li></ul>
	Restrict to store the Call History (IC) when handling of an unanswered trunk call.	<ul style="list-style-type: none"><li>• Y=61</li><li>(1) X-XXXXXXXX: Station No.</li><li>(2) 1◀: Not stored</li></ul>
<u>END</u>		

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## ***ISDN FEATURES***

This chapter explains the ISDN system outline, system specifications, system conditions and programming.

## ISDN SYSTEM OUTLINE

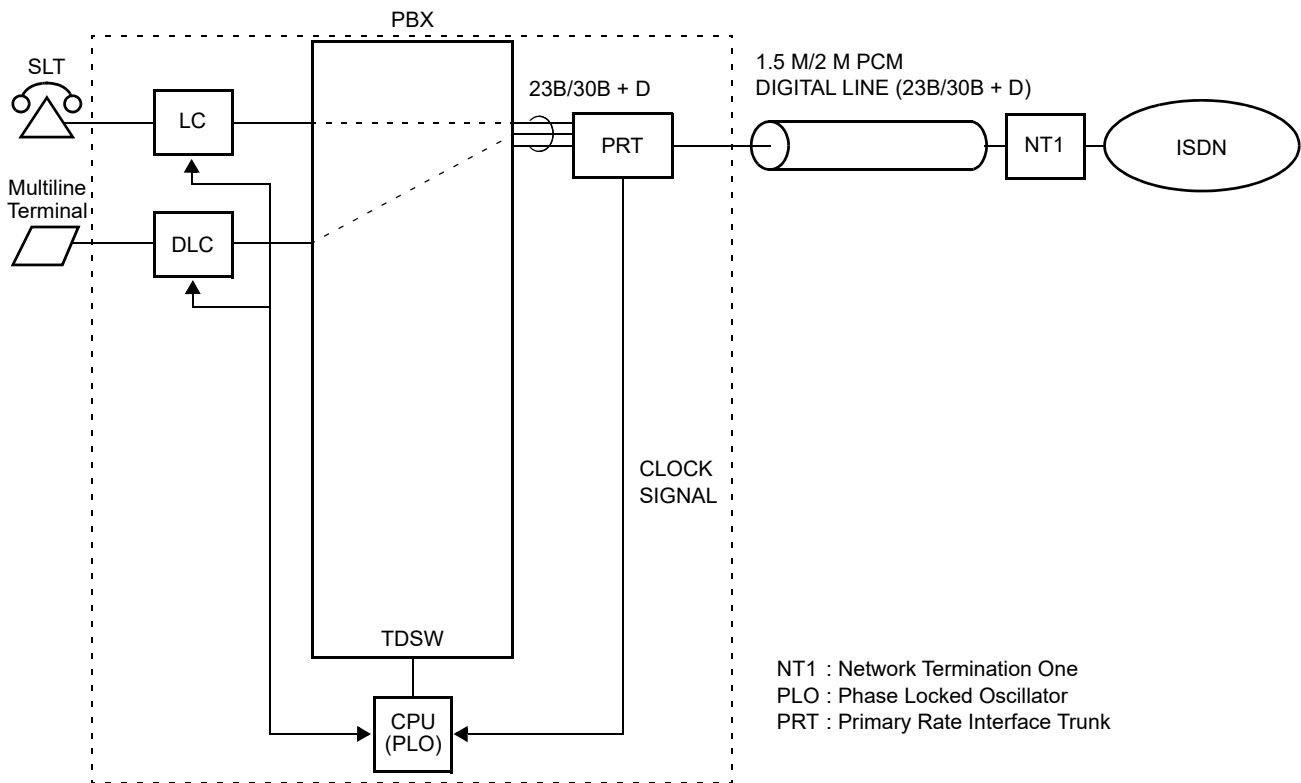
This system can be interfaced with an ISDN with the Primary Rate Interface or the Basic Rate Interface at the reference point S/T and ISDN Telephone.

### SYSTEM OUTLINE OF ISDN-PRI

The system is configured with a 24/30-channel Primary Rate Interface Trunk (PRI) for digital network interface. Since the Central Processing Unit (CPU) contains Phase Locked Oscillator (PLO), the system can be synchronized with the ISDN as a clock receiver office.

The figure below shows the system outline of ISDN-PRI.

**System Outline of ISDN-PRI**

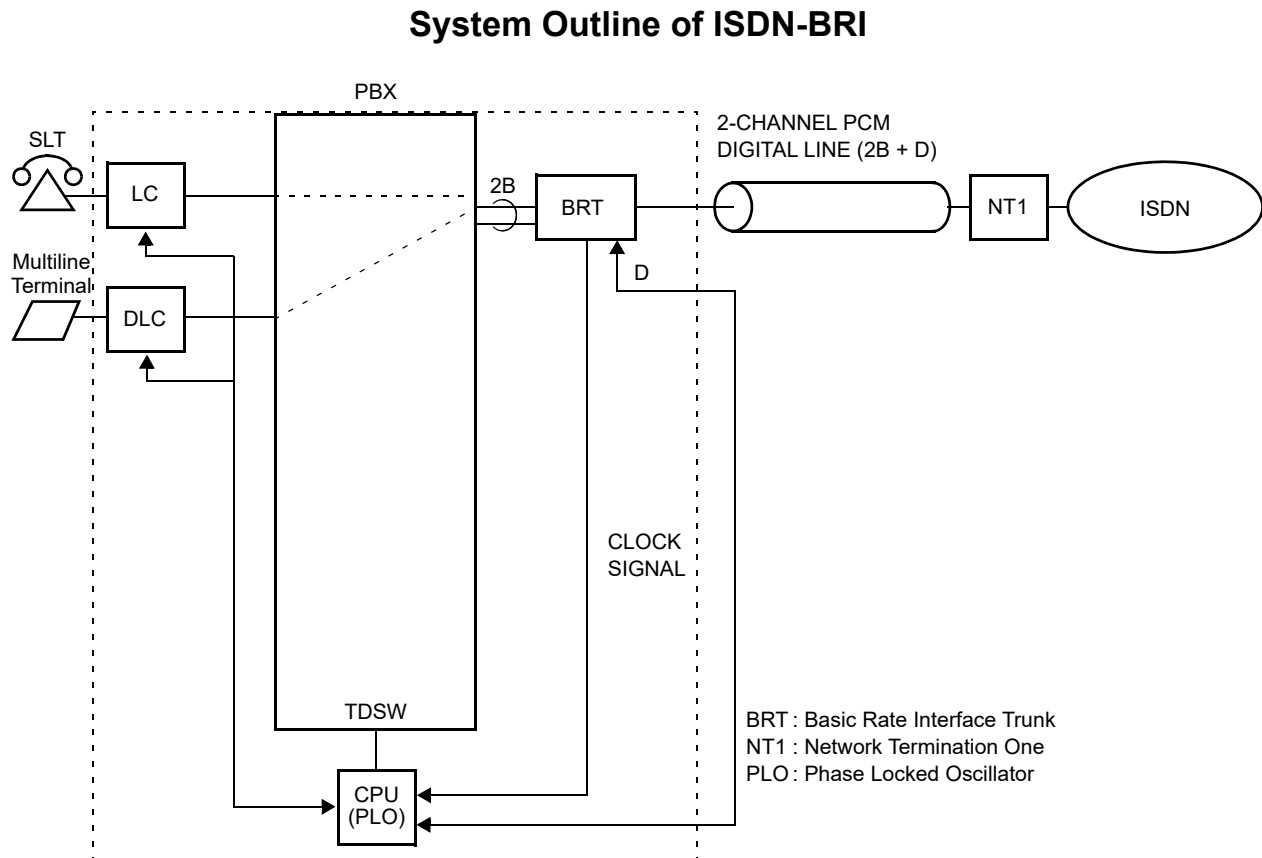


**NOTE:** *NT1 equipment must be installed in the premise.*

## SYSTEM OUTLINE OF ISDN-BRI

The system is configured with a Basic Rate Interface Trunk (BRT) for the digital network interface. Since the CPU contains PLO, the system can be synchronized with the ISDN as a clock receiver office.

The figure below shows the system outline of ISDN-BRI.

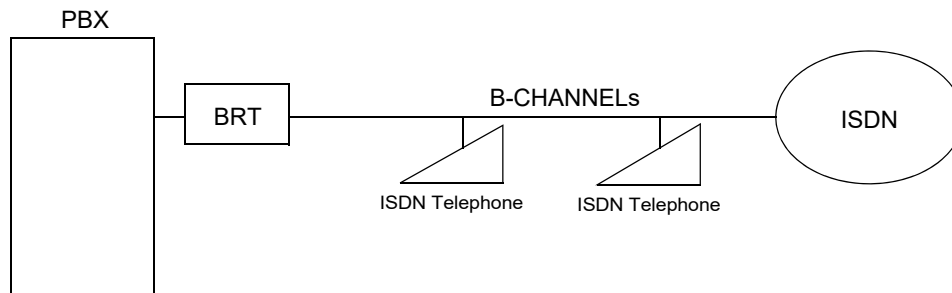


**NOTE 1:** NT1 equipment must be installed in the premise.

**NOTE 2:** We recommend the point-to-point connection when connecting the system to the public network using the BRT blade (Set the second data of CM35 Y=079 to 0).

For the point-to-multipoint connection using the BRT blade, when the system is established far from the public network, the communication error occurs easily because the ISDN signal fades away.

**NOTE 3:** *When connecting the system to the public network by the point-to-multipoint connection that the plural ISDN telephones and the system use the same B-CHANNELs as shown below, during the B-CHANNELs are used by the ISDN telephones, the terminals in the system cannot call to the outside party (receive ROT, if they call) even if the B-CHANNELs of BRT blade are idle. Because the system cannot recognize that the B-CHANNELs are used by ISDN telephones. Therefore, divide the B-CHANNELs between the system and ISDN telephones or use the D-CHANNEL packet for the communication of ISDN telephones.*



## SYSTEM OUTLINE OF ISDN-VPN

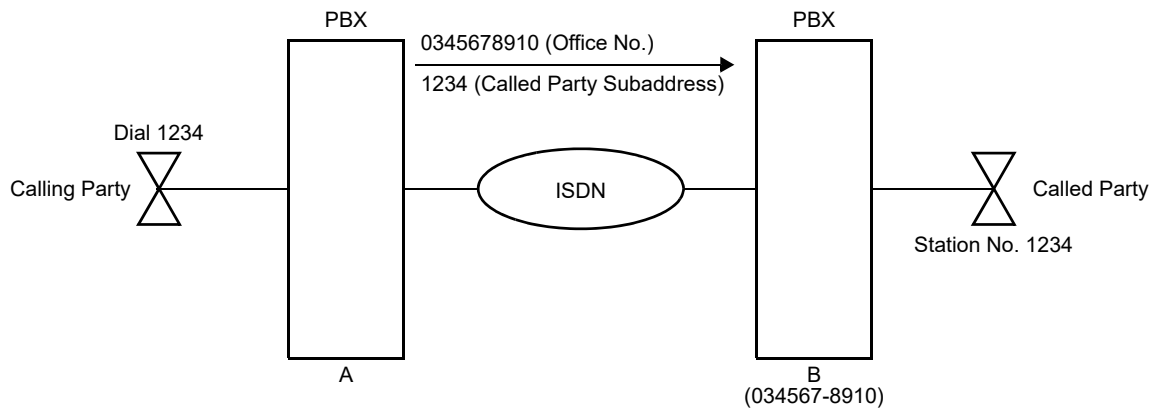
The Virtual Private Network (VPN) is a service which provides an interoffice private line via an ISDN network.

When you dial a station number (Called Party Subaddress), the system sends a pre-assigned office number of a called party together with the Called Party Subaddress to an ISDN network. With this function, an interoffice call can be made by only dialing a station number (Called Party Subaddress).

The following figure shows an example of using the VPN.

### Example of ISDN-VPN

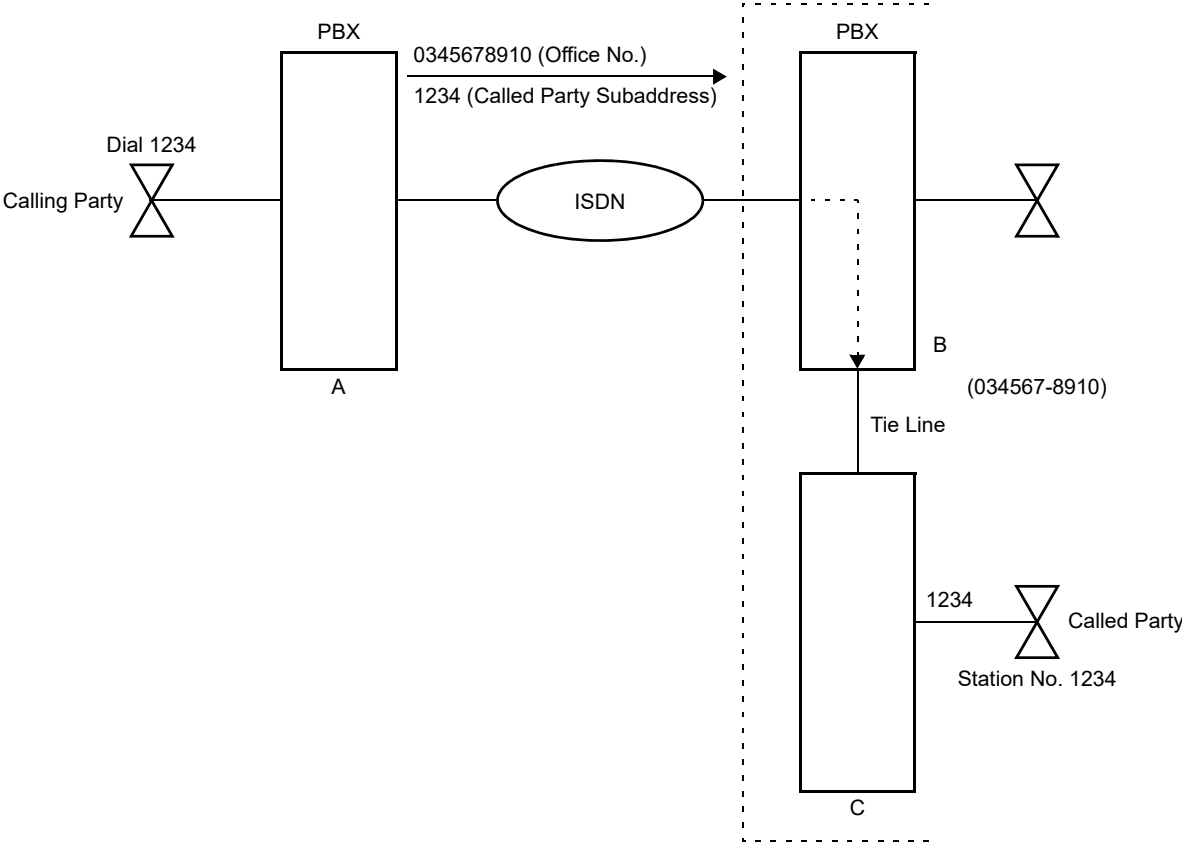
- When an opposite office can interface with the ISDN network.



Continued on next page

**Example of ISDN-VPN**

- When an opposite office cannot interface with the ISDN network.

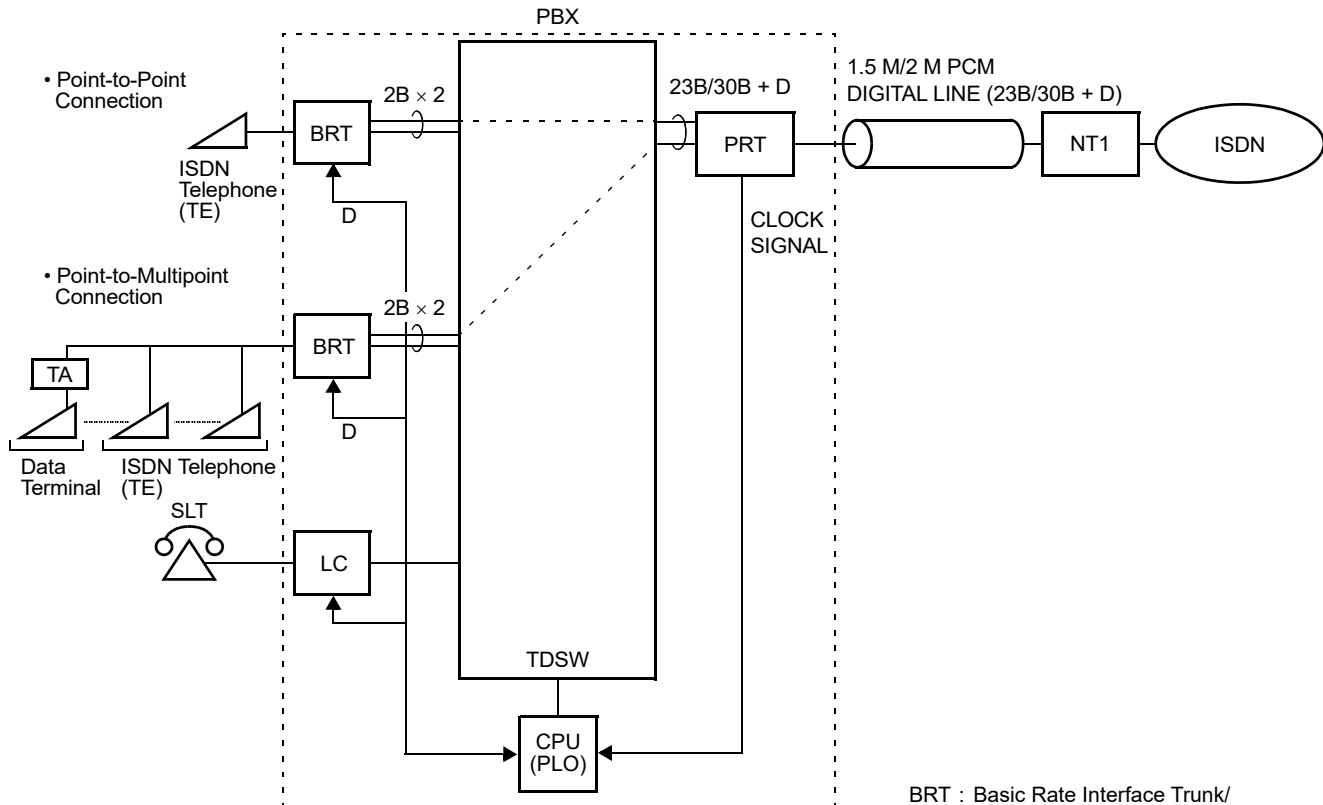


## SYSTEM OUTLINE OF ISDN TELEPHONE

The system is configured with an Basic Rate Interface Trunk (BRT) for the line interface of an ISDN Telephone for layer 2 protocol processing (LAP-D).

The following figures show the system outline of ISDN Telephone (for ISDN-PRI).

### System Outline of ISDN Telephone (for ISDN-PRI)



BRT : Basic Rate Interface Trunk/  
ISDN Line Circuit  
LC : Line Circuit  
NT1 : Network Termination One  
PLO : Phase Locked Oscillator  
PRT : Primary Rate Interface Trunk  
TA : Terminal Adapter

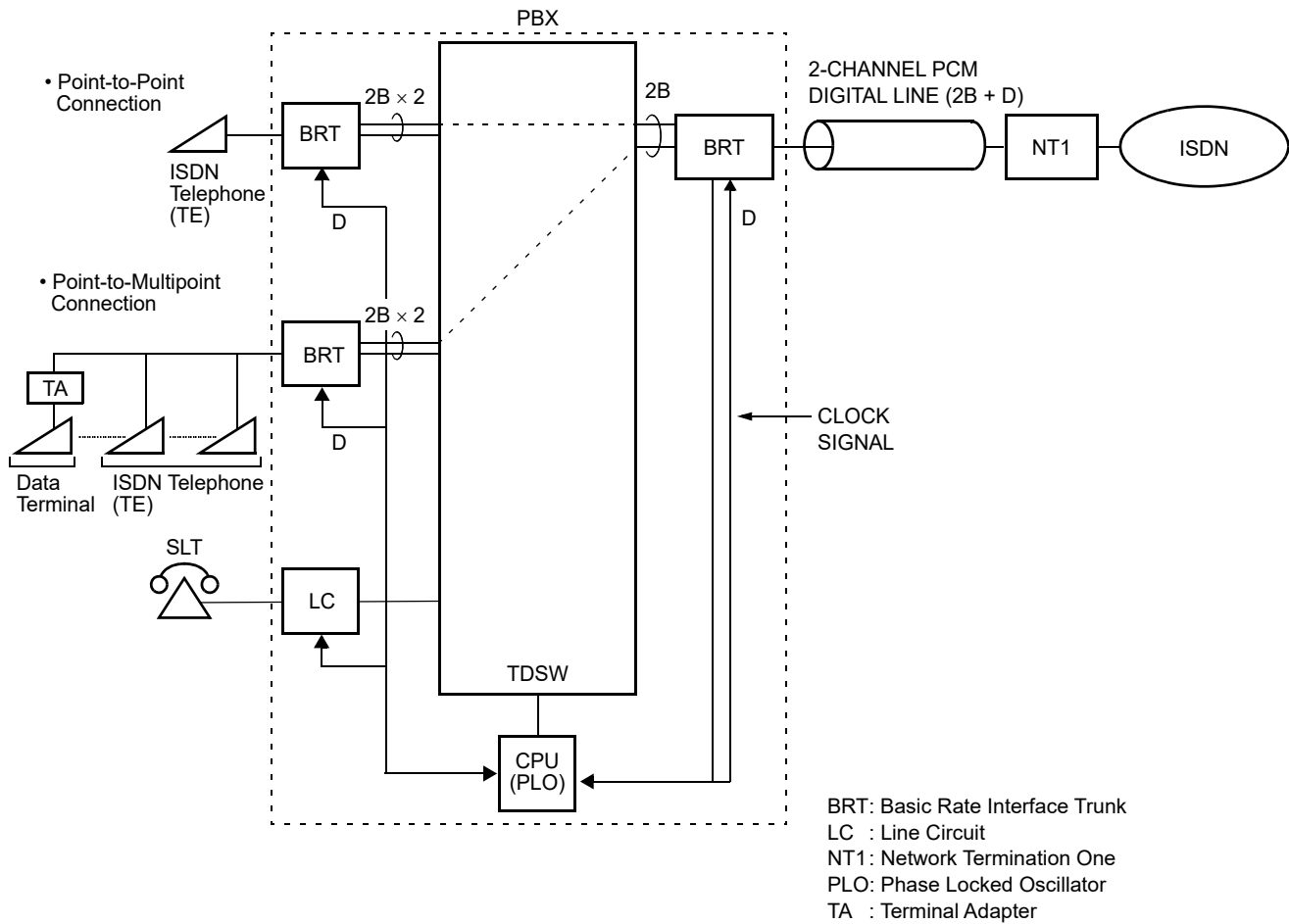
**NOTE 1:** Only the following connections are available.

- ISDN Telephone to ISDN Telephone Connection
- ISDN Telephone to ISDN Trunk Connection
- ISDN Trunk to ISDN Telephone Connection
- ISDN Telephone to Single Line Telephone Connection
- ISDN Telephone to Multiline Terminal Connection

**NOTE 2:** NT1 equipment must be installed in the premise.

The following figures show the system outline of ISDN Telephone (for ISDN-BRI).

### System Outline of ISDN Telephone (for ISDN-BRI)



**NOTE 1:** The following connections are only available.

- ISDN Telephone to ISDN Telephone Connection (S/T Interface)
- ISDN Telephone to ISDN Trunk Connection (S/T Interface)
- ISDN Trunk to ISDN Telephone Connection (S/T Interface)
- ISDN Telephone to Single Line Telephone Connection
- ISDN Telephone to Multiline Terminal Connection

**NOTE 2:** NT1 equipment must be installed in the premise.



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## PRT

The Primary Rate Interface Trunk (PRT) provides the ISDN Primary Rate Interface (1.5 Mbps PCM-23B + D/2 Mbps PCM-30B + D). The PRT has the following functions.

For 24PRT:

- Unipolar/Bipolar Conversion (AMI/B8ZS Format)
- Alarm Detection/Insertion
- Frame Synchronization
- Loopback Test (Remote Loopback [FIFO ineffective/effective]/Payload Loopback [Maintenance Bit ineffective/effective])
- Cyclic Redundancy Checking (based on ITU-T Rec. G704)

For 30PRT:

- Unipolar/Bipolar Conversion (HDB3 Format)
- Alarm Detection/Insertion
- Frame Synchronization
- Loopback Test (Remote Loopback [FIFO ineffective/effective]/Payload Loopback [Maintenance Bit ineffective/effective])
- Cyclic Redundancy Checking (based on ITU-T Rec. G704)

For connections of 24PRT and transmission line, twisted-pair cable can be used. For connection of 30PRT and transmission line, either coaxial cable or twisted pair cable can be used.

**NOTE:** *ISDN requires B8ZS Line coding with Extended Super Framing (ESF) format.*

## BRT

The Basic Rate Interface Trunk (BRT) provides one, two or four physical interface to the ISDN-Basic Rate Interface service (192 Kbps PCM-2B + D).

The BRT has the following functions.

- Unipolar/Bipolar Conversion (AMI Format) (S/T Interface)
- Signaling Insertion/Extraction
- Alarm Detection/Insertion
- Frame Synchronization
- Loopback Test (Local Loopback)

For connections of BRT and transmission line, twisted-pair cables can be used.

**NOTE:** *We recommend the point-to-point connection when connecting the system to the public network using the BRT blade (Set the second data of CM35 Y=079 to 0).  
For the point-to-multipoint connection using the BRT blade, when the system is established far from the public network, the communication error occurs easily because the ISDN signal fades away.*

The ISDN Line Circuit provides a physical interfaces to the ISDN Telephone. The interface provides for a maximum of 2 line circuits.

In the station to station call, the calling party number sent to the ISDN Telephone is as follows.

- When calling from Single Line Telephone/Multiline Terminal  
By setting CM08>584, The station number or calling party number (set by CM12 Y=12/13) can be sent to the ISDN Telephone are as follows.

<b>CM08&gt;584</b>	<b>SENT NUMBER</b>
1	Station number is sent.
0	Calling party number assigned by CM12 Y=12/13 is sent.

- When calling from ISDN Telephone  
A calling party number is sent to the terminated ISDN Telephone, when the originated ISDN Telephone sends the calling party number (set by the ISDN Telephone or CM12 Y=12/13).  
The station number of the originated ISDN Telephone is sent to the terminated ISDN Telephone, when the originated ISDN Telephone doesn't send the calling party number.

The way of Terminal Endpoint Identifier (TEI) assignment for the combination of the terminal connection form and each BRT blade is shown in the table below.

×: Available    -: Not available

BRT		TEI Value	
BRT Blade	Terminal Connection Form for ISDN-BRI	Non-Automatic TEI Assignment (TEI: 0)	Automatic TEI Assignment (TEI: 64-126)
GCD-2BRIA	Point-to-Point Connection	×	-
	Point-to-Multipoint Connection	-	×
	Service Profile ID (SPID) for Voice Channel <b>[North America Only]</b>	×	× *1

\*1 TEI value is assigned for each B CHANNEL. Therefore, two TEI values are used.

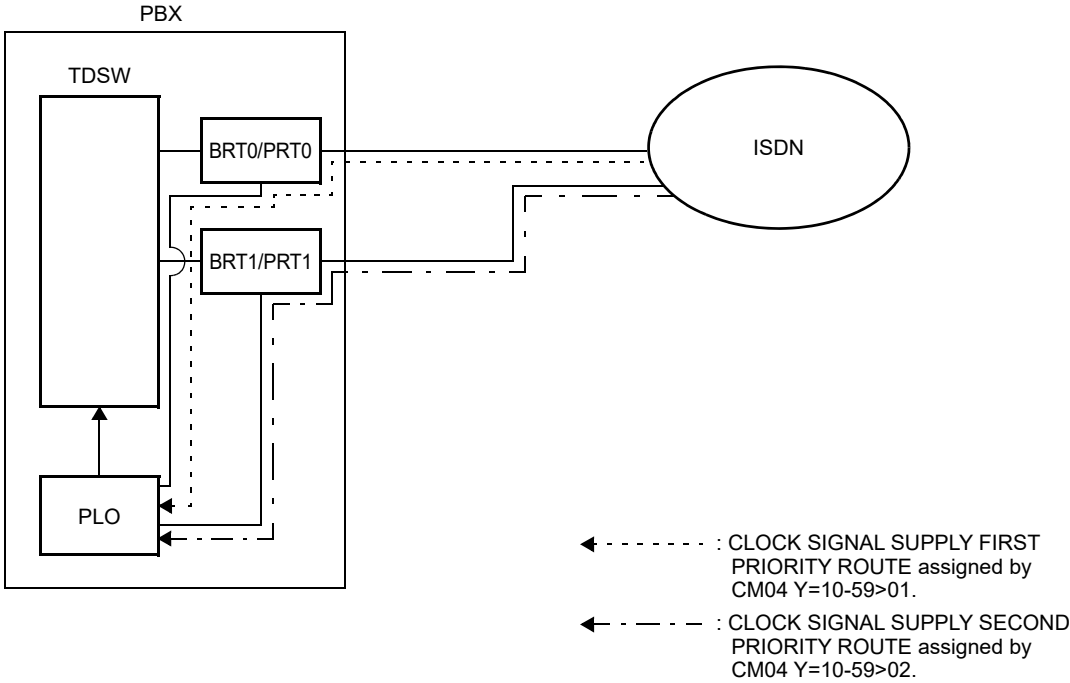
# PLO

The Phase Locked Oscillator (PLO) equipped on the CPU blade is responsible to synchronize the system with ISDN clocks.

The PLO generates the clock signals according to the source clocks received from network. The source clock signals are extracted at BRT/PRT blades and supplied to the PLO. Two clock routes are available: one is the first priority route to receive clock signals from BRT0/PRT0, and the other is the second priority route (BRT1/PRT1) to receive clock signals when no clock signals appear on the first priority route. When no clock signals come from either the first priority route or the second priority route, the PLO keeps generating the clock signals at the frequency of the last source clock. The PLO can receive different frequency of source clocks from the first priority route and the second priority route.

The figure below shows an example of clock supply route.

**Clock Supply Route**



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## ***CONDITIONS FOR ISDN DATA COMMUNICATION***

The conditions for the ISDN data communication feature are as below.

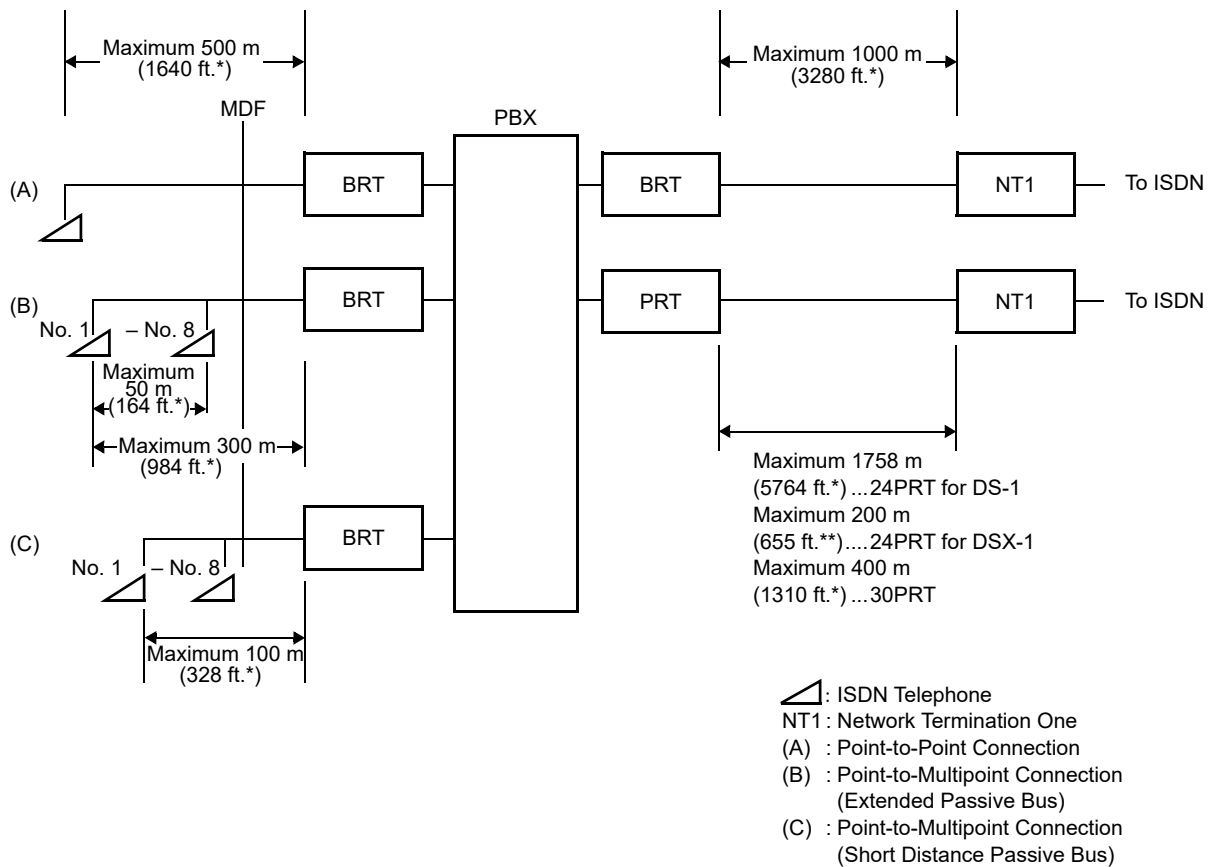
<b>Items</b>	<b>Details</b>
Conditions for a blade accommodation	Available to accommodate to all slots of all Units
Highway channel settings	Set by CM05 Y=2 * When system data is not assigned by CM05 Y=2, a blade must be accommodated to the base slot (Unit01/07/13) of each line trunk module.
Available Highway channels	Maximum 16 channels
Available connection configuration for ISDN data communication	BRT for ISDN terminal-BRT for ISDN terminal BRT for ISDN terminal-BRT/PRT * ISDN data communication is not available between each Unit (ISDN data communication is available only in a same Unit).
Fault registration	Available when there is a lack of highway channels (set by CMEA Y=2>10D)

## ISDN SYSTEM CONDITIONS

### LINE DISTANCE BETWEEN PBX AND NT1/ISDN TELEPHONE

The figure below shows the line distance between PBX and NT1 and the line distance between PBX and ISDN Telephone.

Line Distance between PBX and NT1/ISDN Telephone



**NOTE 1:** The line distance marked by \* shows the value when the 0.5 $\phi$  twisted-pair cable is used.

**NOTE 2:** The line distance marked by \*\* shows the value when the 0.65 $\phi$  twisted-pair cable is used.

# PRT SPECIFICATIONS

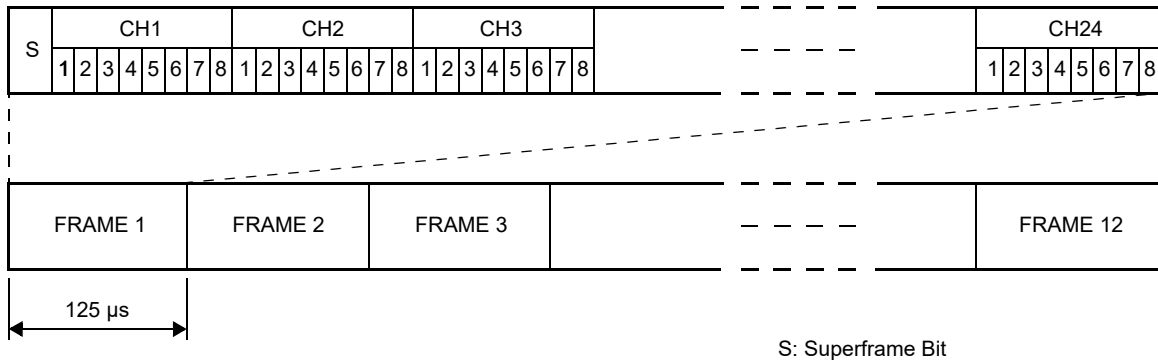
## FRAME CONFIGURATION OF 24PRT

According to the AT&T specifications for 24-Channel transmission, there are two types of frame configurations: 12-Multi Frame and 24-Multi Frame.

(1) 12-Multi Frame

The frame has 12-Multi Frames, and each Multi Frame has a 24-Channel PCM signal (8 bits/channel) and a S bit (Super Frame Bit). Figure below shows the frame configuration, and Table in next page shows frame bit assignment.

**PRT Frame Configuration (12-Multi Frame)**



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### 12-Multi Frame Bit Assignment

FRAME No.	S BIT	
	TERMINAL SYNCHRONIZATION (FT)	SIGNAL SYNCHRONIZATION (FS)
1	1	
2		0
3	0	
4		0
5	1	
6		1
7	0	
8		1
9	1	
10		1
11	0	
12		0

\*The S-bit is the first bit in each frame.

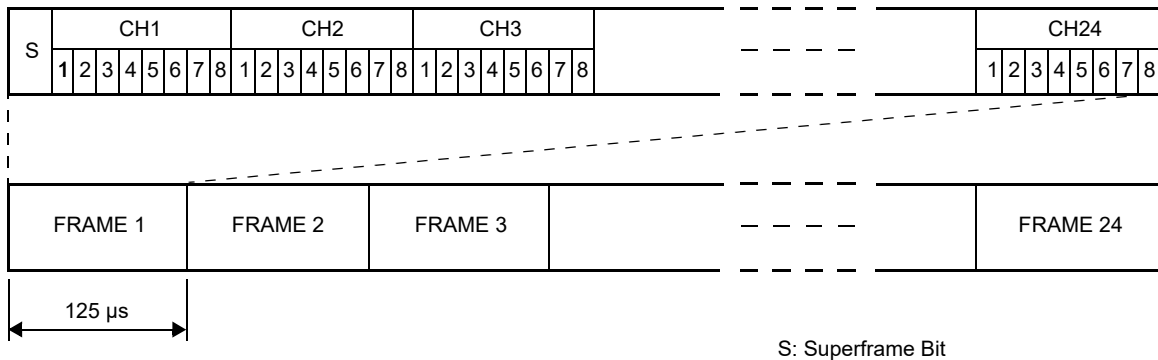
\*Frames are repeated in the order shown above.



(2) 24-Multi Frame

This configuration has 24-Multi Frames and each Multi Frame has a 24-Channel PCM signal (8 bits/channel) and a S bit (Super Frame Bit). Figure below shows the frame configuration, and Table in next page shows frame bit assignment.

**PRT Frame Configuration (24-Multi Frame)**



**24-Multi Frame Bit Assignment**

FRAME No.	S BIT		
	FRAME SYNCHRONIZATION	4 Kbps DATA LINK	CRC
1		m	
2			CB1
3		m	
4	0		
5		m	
6			CB2
7		m	
8	0		
9		m	
10			CB3
11		m	
12	1		
13		m	
14			CB4
15		m	
16	0		
17		m	
18			CB5
19		m	
20	1		
21		m	
22			CB6
23		m	
24	1		

\*The S-bit is the first bit in each frame.

\*Frames are repeated in the order shown above.

\*\*“m” in the “4 Kbps Data Link” column means that the frame is usually assigned to 1.

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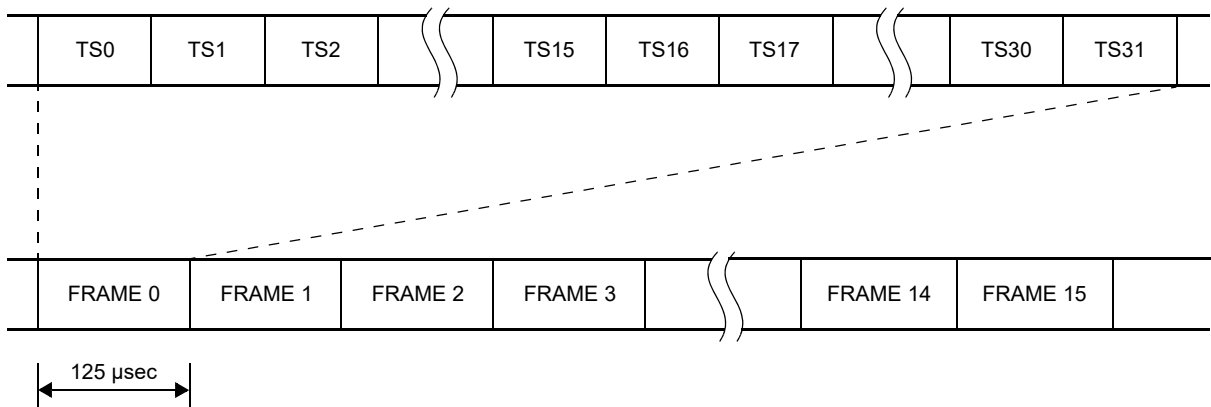
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## FRAME CONFIGURATION OF 30PRT

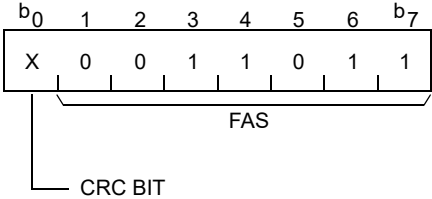
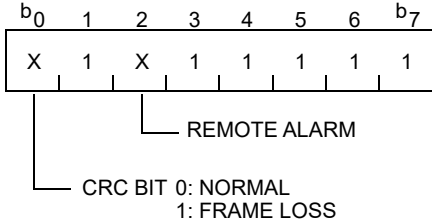
Based on 30-channel transmission method of ITU-T specification, the frame configuration consists of 16-multi frame, each frame having 32 time slots.

Figure below shows the frame configuration, and Table in next page shows the details of time slot assignment.

### Frame Configuration of 30PRT



**Time Slot Assignment of 30PRT**

TIME SLOT No.	EVEN No. FRAME	ODD No. FRAME
TS0	Frame Alignment Signal (FAS) 	
TS1 ⋮ TS15	Voice Channel (B CHANNEL) CH1 ⋮ CH15	
TS16	D CHANNEL Signaling	
TS17 ⋮ TS31	Voice Channel (B CHANNEL) CH17 ⋮ CH31	

## ISDN-PRI PROGRAMMING

### PRIMARY RATE INTERFACE TRUNK DATA ASSIGNMENT

START	DESCRIPTION	DATA	
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM05</div>	Assign a Unit and Slot number to the PRT blade.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 41: PRT blade</li> </ul>	
	<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; display: inline-block;">BLADE RESET</div>	Assign a Trunk blade number to the PRT blade.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 000-127: Trunk blade No.</li> </ul>
	<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; display: inline-block;">BLADE RESET</div>	Assign the number of Highway Channels for ISDN data communication.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-03: Line/Trunk chassis No.</li> <li>(2) 01-16: Number of Highway Channels for ISDN data communication</li> </ul>
	<p><b>NOTE 1:</b> <i>When the second data of this command is set to NONE (No data), the PRT blade for ISDN data communication must be accommodated to the base slot (Slot No. 01/07/13) of each line trunk chassis. In this case, the available Highway channels for data communication are the only first 16 channels.</i></p> <p><b>NOTE 2:</b> <i>When this command is set, additional chassis time slots are used. Example: CM05 Y=2&gt;0101: 12 will use 12 chassis time slots.</i></p>		
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">A</div>			

A	DESCRIPTION	DATA
CM10	Assign a trunk number for both voice channel and signaling channel to Physical Port number on the PRT blade.  <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-23: Circuit No. (B ch) of 24 PRT 24: Circuit No. (D ch) of 24 PRT ZZ : 01-15, 17-31: Circuit No. (B ch) of 30 PRT 16: Circuit No. (D ch) of 30 PRT</li> <li>(2) D000-D511: Trunk No. for B/D CHANNEL</li> </ul>
CM48	Provide the 2nd Dial Tone sending when dialing access code assigned by CM20 for ISDN B CHANNEL route.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 04</li> <li>(2) 1◀: To provide</li> </ul>
CM04	Assign the destination to receive the synchronous signal for PRT blade.  <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>• Y=10-59</li> <li>(1) 01: First priority 02: Second priority</li> <li>(2) 01-18: Slot No.</li> </ul>
<p><b>NOTE 1:</b> Assign this data when the system is a slave office and receives the clock synchronization signal from the master office. This data assignment is not required when the office is the master office.</p> <p><b>NOTE 2:</b> When using the ISDN network, a system must be synchronized to ISDN clocks for preventing from noise during calling, data transmitting error, and so on.</p>		
CMAA	Specify the type of PRT blade.	<ul style="list-style-type: none"> <li>• Y=15</li> <li>(1) 000-127: Trunk blade No. assigned by CM05</li> <li>(2) 0 : E1 (2 Mbps) 1◀: T1 (1.5 Mbps)</li> </ul>
B		

	DESCRIPTION	DATA
<div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto; text-align: center; line-height: 20px;">B</div> <div style="border: 1px solid black; width: 60px; height: 20px; margin: 5px auto; text-align: center;">CMAA</div>	<p>Assign the necessary functions to the PRT blade. CMAA Y=00 assignment is required only for PRT.</p> <p>Specify the cable length for PRT.</p>	<ul style="list-style-type: none"> <li>• Y=00 Data Mode <span style="float: right; border: 1px solid black; border-radius: 15px; padding: 2px;">BLADE RESET</span></li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 1◀: Based on AT&amp;T specifications.</li> <li>• Y=19 <span style="float: right; border: 1px solid black; border-radius: 15px; padding: 2px;">BLADE RESET</span></li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 0 : 0-40 m (0-131.2 ft.)                1 : 41-81 m (134.5-265.7 ft.)                2 : 82-122 m (269.0-400.2 ft.)                3 : 123-162 m (403.4-531.4 ft.)                4 : 163-200 m (534.6-656 ft.)                7◀: 0-40 m (0-131.2 ft.)</li> </ul>
<div style="border: 1px solid black; width: 60px; height: 20px; margin: 5px auto; text-align: center;">CM30</div>	<p>Assign a trunk route number to each ISDN trunk used for both voice channel and signaling channel.</p> <p style="text-align: right;"><span style="border: 1px solid black; border-radius: 15px; padding: 2px;">BLADE RESET</span></p> <p><b>NOTE:</b> <i>The PRT route must be separated from any analog trunk route.</i></p> <p>Assign the trunk data to each ISDN incoming trunk used for voice channel only.</p> <p><b>NOTE:</b> <i>For ISDN Indial programming, see "DID ADDRESSING".</i>  <span style="color: blue;">📄 Page 3-54</span></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) 00-63: B/D CHANNEL Trunk Route No.</li> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> <li>(1) 000-511: Trunk No. for B CHANNEL assigned by CM10 Y=00</li> <li>(2) 04: Direct-In Termination                09: Automated Attendant                14: Attendant Console                16: Remote Access to System (DISA)                18: ISDN Indial</li> </ul>
<div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto; text-align: center; line-height: 20px;">C</div>		

	DESCRIPTION	DATA
<div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto; text-align: center; line-height: 20px;">C</div> <div style="border: 1px solid black; width: 60px; height: 20px; margin: 10px auto; text-align: center;">CM30</div>	<p>Assign Circuit Identification Code (CIC) to each ISDN trunk used for voice channel only.</p> <p><b>NOTE:</b> <i>CIC must not be assigned to the trunk No. of D CHANNEL: TS16 (30PRT) or TS23 (24PRT).</i></p>	<ul style="list-style-type: none"> <li>• Y=07</li> <li>(1) 000-511: Trunk No. for B CHANNEL assigned by CM10 Y=00</li> <li>(2) 000-029 : CIC</li> <li style="padding-left: 20px;">NONE◀: No data</li> </ul> <p>Example of 30PRT B CHANNEL Trunk No.: D100-D114, D116-D130 D CHANNEL Trunk No.: D115</p> <p>(1) 100-114, 116-130 (2) 000-014, 015-029</p> <p>Example of 24PRT B CHANNEL Trunk No.: D100-D122 D CHANNEL Trunk No.: D123</p> <p>(1) 100-122 (2) 000-022</p>
<div style="border: 1px solid black; width: 60px; height: 20px; margin: 10px auto; text-align: center;">CM35</div>	<p>Assign trunk route data to the trunk route number assigned by CM30 Y=00.</p> <p><b>NOTE 1:</b> <i>This data should be assigned to the B CHANNEL trunk route. For D CHANNEL trunk route, no data setting is required.</i></p> <p><b>NOTE 2:</b> <i>This data should be assigned to both B CHANNEL trunk route and D CHANNEL trunk route.</i></p>	<ul style="list-style-type: none"> <li>• Y=000 Kind of Trunk Route <b>NOTE 2</b></li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 00: ISDN Trunk</li> </ul> <p>(1) 00-63: D CHANNEL Trunk Route No. (2) 15◀: Not used</p> <ul style="list-style-type: none"> <li>• Y=002 Call Direction <b>NOTE 1</b></li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 3◀: Bothway Trunk</li> </ul> <ul style="list-style-type: none"> <li>• Y=004 Answer Signal from distant office <b>NOTE 2</b></li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 2: Answer Signal arrives (ISDN Trunk)</li> </ul> <p>(1) 00-63: D CHANNEL Trunk Route No. (2) 7◀: No Answer Signal arrives</p>
<div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 auto; text-align: center; line-height: 20px;">D</div>		



D	DESCRIPTION	DATA
CM35	<p><b>NOTE 1:</b> <i>This data should be assigned to the B CHANNEL trunk route. For D CHANNEL trunk route, no data setting is required.</i></p> <p><b>NOTE 2:</b> <i>This data should be assigned to both B CHANNEL trunk route and D CHANNEL trunk route.</i></p>	<ul style="list-style-type: none"> <li>• Y=005 Release Signal from distant office <b>NOTE 1</b></li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li> <li>• Y=009 Incoming Connection Signaling <b>BLADE RESET</b> <b>NOTE 2</b></li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 08: ISDN</li> <li>(1) 00-63: D CHANNEL Trunk Route No.</li> <li>(2) 15◀: Ring Down</li> <li>• Y=011 Toll Restriction <b>NOTE 1</b></li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : To provide 3◀: Not provided</li> <li>• Y=014 SMDR for outgoing call <b>NOTE 1</b></li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Not provided 1◀: To provide</li> <li>• Y=015 Kind of Call Termination Indicator Key/Lamp on ATT <b>NOTE 1</b></li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 00-07: C.O. Incoming Call 0-7</li> <li>• Y=016 Hooking Signal Sending to outside <b>NOTE 1</b></li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: Not sending</li> <li>• Y=028 Outgoing Trunk Queuing <b>NOTE 1</b></li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: Restricted</li> </ul>
E		

E	DESCRIPTION	DATA
<p>CM35</p>	<p><b>NOTE 1:</b> <i>This data should be assigned to the B CHANNEL trunk route. For D CHANNEL trunk route, no data setting is required.</i></p>	<ul style="list-style-type: none"> <li>• Y=039 Trunk release by detection of reversal of tip and ring <b>NOTE 1</b></li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 1◀: To release</li> </ul>
	<p><b>NOTE 2:</b> <i>This data should be assigned to both B CHANNEL trunk route and D CHANNEL trunk route.</i></p>	<ul style="list-style-type: none"> <li>• Y=089 Cyclic redundancy checking (CRC) for PRT</li> </ul> <p style="text-align: right; border: 1px solid black; border-radius: 10px; padding: 2px;">BLADE RESET</p> <ul style="list-style-type: none"> <li>(1) 00-63: D CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
	<p>Allow sending extension information of Low layer Compatibility (LLC) information element, to each trunk route.</p>	<ul style="list-style-type: none"> <li>• Y=090 Assignment of trunk with ISDN facilities <b>NOTE 2</b></li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 3: ISDN-Primary Rate Interface</li> </ul>
	<p>Specify whether the ISDN trunk is released when the system receives ISDN DISCONNECT message with Progress Description=08 from ISDN (effective for an outgoing call).</p>	<ul style="list-style-type: none"> <li>(1) 00-63: D CHANNEL Trunk Route No.</li> <li>(2) 3: ISDN-Primary Rate Interface</li> <li>• Y=130</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: Allow</li> </ul>
	<p><b>NOTE:</b> <i>When sending the in-band tone to the calling station from ISDN, set the second data to 1. In this case, the ISDN trunk will be released automatically in 30 seconds after the calling station receives the in-band tone or when the calling station goes on-hook.</i></p>	<ul style="list-style-type: none"> <li>• Y=158</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : To release</li> <li>1◀: Not released</li> </ul>
	F	

F	DESCRIPTION	DATA
CM35	<p>Specify whether the ISDN trunk is released when the system receives ISDN DISCONNECT message with Progress Description=08 from ISDN (effective for an incoming call).</p> <p><b>NOTE:</b> <i>When sending the in-band tone to the called station from ISDN, set the second data to 0.                      In this case, the ISDN trunk will be released automatically in 30 seconds after the called station receives the in-band tone or when the called station goes on-hook.</i></p> <p>Specify whether the ISDN trunk tone is sent when the ISDN trunk is seized.</p>	<ul style="list-style-type: none"> <li>• Y=208</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Not released</li> <li>1 ◀: To release</li> </ul>
G		<ul style="list-style-type: none"> <li>• Y=200</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : To send</li> <li>1 ◀: Not sent</li> </ul>

G	DESCRIPTION	DATA
CMAA	Assign the ISDN Protocol Type for PRT blade. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>• Y=06</li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) ISDN Protocol Type               <ul style="list-style-type: none"> <li>17: Australia</li> <li>18: New Zealand</li> <li>19: ITU-T (Hong Kong)</li> <li>20: AT&amp;T (#4, #5 ESS)</li> <li>21: NTI (DMS 100, 250)</li> <li>22: Australia ETSI</li> <li>23: ETSI VN4 (Chile)</li> <li>24: ETSI Standard (Brazil, Chile, Columbia, UAE)</li> <li>25: ITU-T Standard (Thailand)</li> <li>28: USA NI-2</li> <li>30: ETSI-2 (Latin America/Europe)</li> <li>31: Germany</li> <li><b>[For EMEA]</b></li> <li>32: Netherlands/Greece/Luxembourg/Portugal/Spain/Sweden</li> <li><b>[For EMEA]</b></li> <li>33: Italy</li> <li><b>[For EMEA]</b></li> <li>34: ETSI (Huawei)</li> <li><b>[For China]</b></li> <li>63◀: Not used</li> </ul> </li> </ul>
CM35	Assign the D CHANNEL number to the each B CHANNEL trunk route assigned by CM30 Y=00.	<ul style="list-style-type: none"> <li>• Y=093 Assignment of D CHANNEL</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 00-31: D CHANNEL No.</li> </ul>
CMA9	Assign the PRT trunk number assigned by CM10 Y=00 to each D CHANNEL number. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 00-31: D CHANNEL No.</li> <li>(2) 000-511 : PRT Trunk No. for D CHANNEL assigned by CM10 Y=00</li> <li>NONE◀: No data</li> </ul>
H		

- For originating calls to the ISDN, do the following programming.

H	DESCRIPTION	DATA
CM20	<p>Assign ISDN access code to each trunk route assigned by CM30 Y=00.</p> <p><b>NOTE:</b> <i>LCR can be used with ISDN-PRI. For details, refer to BUSINESS FEATURES. <a href="#">Page 1-1</a></i></p>	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> </ul> <p>(1) X-XXXX: Access code (2) 100-163: Trunk Route 00-63</p>
CM08	<p>Specify whether the timing start is available when making an ISDN call from an attendant.</p>	<p>(1) 403 (2) 0 : Not available 1◀: Available</p>
CM41	<p>Specify the timing start when making an ISDN call from a Single Line Telephone (PB/DP), Multiline Terminal or Attendant Console, if required.</p> <p><b>NOTE:</b> <i>“A, #” or timing start is used for outgoing ISDN calls when LCR is not invoked. Example: 1-214-555-1212 is dialed from a Multiline Terminal. The PBX will access a bearer channel and ship the digits only after the timing start timer has expired or # is dialed by the caller. The # sign tells the PBX that dialing is completed.</i></p>	<ul style="list-style-type: none"> <li>• Y=0</li> </ul> <p>(1) 50 (2) 03-14: 3-14 seconds If no data is set, the default setting is 10 seconds. Recommended setting is 05 (5 seconds).</p>
CM8A	<p>Assign the type of Called Party Number.</p>	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> </ul> <p>(1) 157: Type of Called Party No. (for E.164) (2) 00 : Unknown 01 : International Number 02 : National Number 04 : Subscriber Number NONE◀: Unknown</p> <p>(1) 157: Type of Called Party No. (for Private Numbering Plan) (2) 00 : Unknown 01 : Level 2 Regional Number 02 : Level 1 Regional Number 03 : PSTN Specific Number 04 : Local Number 06 : Abbreviated Number NONE◀: Unknown</p>
I		

I	DESCRIPTION	DATA
CM8A	Assign the Called Party Numbering Plan Identifier.	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 158: Called Party Numbering Plan Identifier</li> <li>(2) 00 : Unknown 01 : ISDN/Telephone Numbering Plan 03 : Data Numbering Plan 04 : Telex Numbering Plan 08 : National Numbering Plan 09 : Private Numbering Plan NONE◀: Unknown</li> </ul>
J		

- When providing Tandem Connection (ODT/DTI to ISDN, ISDN to ODT/DTI), do the following programming.

J	DESCRIPTION	DATA
CM36	Specify the combination of trunk routes allowing the tandem connection.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 00-63: Incoming Trunk Route ZZ : 00-63: Outgoing Trunk Route</li> <li>(2) 0 : Allowed 1◀: Restricted</li> </ul>
CM41	Specify the timing start when making an ISDN call from a Single Line Telephone (PB/DP), Multiline Terminal or Attendant Console for the Tandem Connection.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 57</li> <li>(2) 03-14: 3-14 seconds</li> </ul> <p>If no data is set, the default setting is 10 seconds.</p>
<p><b>NOTE 1:</b> By using CM41 Y=0&gt;57, an ISDN call is available even if “#” is not dialed.</p> <p><b>NOTE 2:</b> CM41 Y=0&gt;57 is effective for dialing a called number. When dialing a called party sub-address, this command is not effective.</p>		
K		

- When providing Tandem Connection (ISDN to CCIS, CCIS to ISDN), do the following programming.

K	DESCRIPTION	DATA
CM36	Specify the combination of trunk routes allowing the tandem connection.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ                XX: 00-63: Incoming Trunk Route                ZZ : 00-63: Outgoing Trunk Route</li> <li>(2) 0 : Allowed                1◀: Restricted</li> </ul>
CM08	Allow tandem connection by station or attendant.	<ul style="list-style-type: none"> <li>(1) 028</li> <li>(2) 0: Available</li> </ul>
L		

- When providing Tandem Connection (ISDN to ISDN), do the following programming.

L	DESCRIPTION	DATA
CM36	Specify the combination of trunk routes allowing the tandem connection.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 00-63: Incoming Trunk Route ZZ : 00-63: Outgoing Trunk Route</li> <li>(2) 0 : Allowed 1◀: Restricted</li> </ul>
CM08	Allow tandem connection by station or attendant.	<ul style="list-style-type: none"> <li>(1) 028</li> <li>(2) 0: Available</li> </ul>
CM35	<p>Provide release of ISDN trunk when receiving the ISDN DISCONNECT message with Progress Description=8 from ISDN because the called party is busy in tandem connection (ISDN to ISDN).</p> <p><b>NOTE:</b> <i>To release the ISDN trunk when receiving the ISDN DISCONNECT message, set the second data 0 to the incoming trunk route of tandem office.</i></p> <p>Provide relay of the ALERT message to the calling party in tandem connection (ISDN to ISDN).</p> <p><b>NOTE:</b> <i>This command should be set to both incoming trunk route and outgoing trunk route of tandem office.</i></p>	<ul style="list-style-type: none"> <li>• Y=233</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ul> <ul style="list-style-type: none"> <li>• Y=266</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
END		



- When the setting of more than 16 Highway Channels are required for a PRT blade, reassignment of the Highway Channel (108 ch) allocation is required to each physical slot (slot01-06/07-12/13-18). The programming for Highway Channel reassignment is as follows. For details of Highway Channel reassignment, refer to “CMF7 Y=9” in Command Manual.

START	DESCRIPTION	DATA
CMF7	Reassign Highway Channel.	<ul style="list-style-type: none"> <li>Y=9</li> <li>(1) XX YY XX: 01-50: Unit No. YY: 01/07/13: Lowest slot No. in each Line/Trunk chassis (2U)</li> <li>(2) XX YY XX: 01-50: Unit No. YY: 06/12/18: Highest slot No. in each Line/Trunk chassis (2U)</li> </ul>
CME0	Execute the blade reset for all slots of the Unit accommodated the PRT blade.	<ul style="list-style-type: none"> <li>Y=3</li> <li>(1) XX YY XX: 01-50: Unit No. YY: 01-18: Slot No.</li> <li>(2) XX YY XX: 01-50: Unit No. YY: 01-18: Slot No</li> </ul>
	<p><b>NOTE 1:</b> <i>Set the same Unit No. and Slot No. assigned by the first data.</i></p> <p><b>NOTE 2:</b> <i>“00000000-FFFFFFFF” is displayed as the second data when this command is executed. You can confirm the port status of the blade which is accommodated to the specified slot by this data display. 00000000: All ports are not in use Other than 00000000: Ports in use are included.</i></p> <p><b>NOTE 3:</b> <i>For the blade reset while the system is operating, be sure to check the port status. The blade reset must be executed when all ports are not in use.</i></p>	
END		

- To execute Local Loopback for PRT, do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">CMAA</div>	Set Local Loopback (PRT).	<ul style="list-style-type: none"> <li>• Y=22</li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 1 : Remote Loop Back (for PRT) (FIFO unavailable)</li> <li>2 : Payload Loop Back (for PRT) (mainte- nance bit unavailable)</li> <li>3 : Remote Loop Back (for PRT) (FIFO available)</li> <li>4 : Payload Loop Back (for PRT) (mainte- nance bit available)</li> <li>7◀: Loop Back OFF (for PRT)</li> </ul>
<u>END</u>		

# ISDN-BRI PROGRAMMING

## BRT ASSIGNMENT

START	DESCRIPTION	DATA	
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM05</div>	Assign a Unit and Slot number to the BRT blade.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 40: BRT blade</li> </ul>	
	<div style="border: 1px solid black; border-radius: 15px; padding: 2px 10px; display: inline-block;">BLADE RESET</div>	Assign a Trunk blade number to the BRT blade.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 000-127: Trunk blade No.</li> </ul>
	<div style="border: 1px solid black; border-radius: 15px; padding: 2px 10px; display: inline-block;">BLADE RESET</div>	Assign the number of Highway Channels for ISDN data communication.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-03: Line/Trunk chassis No.</li> <li>(2) 01-16: Number of Highway Channels for ISDN data communication</li> </ul>
	<div style="border: 1px solid black; border-radius: 15px; padding: 2px 10px; display: inline-block;">RESET</div>		
	<p><b>NOTE 1:</b> <i>When the second data of this command is set to NONE (No data), the BRT blade for ISDN data communication must be accommodated to the base slot (Slot No. 01/07/13) of each line trunk chassis. In this case, the available Highway channels for data communication are the only first 16 channels.</i></p> <p><b>NOTE 2:</b> <i>When this command is set, additional chassis time slots are used. Example: CM05 Y=2&gt;0101: 12 will use 12 chassis time slots.</i></p>		
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">A</div>			

A	DESCRIPTION	DATA
CM04	Assign the destination to receive the synchronous signal for BRT blade. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>• Y=10-59</li> <li>(1) 01: First priority 02: Second priority</li> <li>(2) 01-18: Slot No.</li> </ul>
	<p><b>NOTE 1:</b> Assign this data when the system is a slave office and receives the clock synchronization signal from the master office. This data assignment is not required when the office is the master office.</p> <p><b>NOTE 2:</b> When using the ISDN network, a system must be synchronized to ISDN clocks for preventing from noise during calling, data transmitting error, and so on.</p>	
CMAA	Assign the ISDN Protocol Type for D CHANNEL on the BRT blade. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>• Y=06</li> <li>(1) 000-127: Trunk blade No. of BRT assigned by CM05 Y=1</li> <li>(2) ISDN Protocol Type <ul style="list-style-type: none"> <li>17: Australia</li> <li>18: New Zealand</li> <li>20: AT&amp;T (#4, #5 ESS)</li> <li>21: NTI (DMS 100, 250)</li> <li>22: Australia ETSI</li> <li>24: ETSI Standard (Brazil, Columbia, Indonesia, UAE)</li> <li>25: ITU-T Standard (Thailand)</li> <li>27: USA NI-1</li> <li>28: USA NI-2</li> <li>31: Germany</li> <li><b>[For EMEA]</b></li> <li>32: Netherlands/Greece/Luxembourg/Portugal/Spain/Sweden</li> <li><b>[For EMEA]</b></li> <li>33: Italy</li> <li><b>[For EMEA]</b></li> <li>63◀: Not used</li> </ul> </li> </ul>
B		

B	DESCRIPTION	DATA
CM10	<p>Assign ISDN trunk number to Physical Port number of BRT.</p> <p><b>NOTE:</b> <i>Be sure to assign the trunk numbers to all circuits and set make-busy to the unused trunk numbers by CME5 Y=1, 2nd data=0.</i></p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) D000-D511: Trunk No.</li> </ul>
CM30	<p>Assign trunk route to each ISDN trunk used for voice channel (B CHANNEL).</p> <p><b>NOTE:</b> <i>BRT route must be separated from analog trunk routes.</i></p> <p>Assign the trunk data to each ISDN incoming trunk used for voice channel only.</p> <p>Assign an ISDN subscriber number (last 4 digits of telephone number) to each ISDN trunk.</p> <p>Assign ISDN Local Office Code Table number to each ISDN trunk.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> <p style="text-align: right;"><b>BLADE RESET</b></p> <ul style="list-style-type: none"> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) 00-63: Trunk Route</li> </ul> <ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) 04: Direct-In Termination 09: Automated Attendant 14: Attendant Console 16: Remote Access to System (DISA) 18: ISDN Indial</li> </ul> <ul style="list-style-type: none"> <li>• Y=19</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) XXXX: ISDN Subscriber No.</li> </ul> <ul style="list-style-type: none"> <li>• Y=34</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) 00-14: Local Office Table No. 15◀ : Not assigned</li> </ul>
C		

C	DESCRIPTION	DATA
CM35	Assign trunk route data to the trunk route number assigned by CM30 Y=00.	<ul style="list-style-type: none"> <li>• Y=000 Kind of Trunk Route               <ul style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 00: ISDN Trunk</li> </ul> </li>   <li>• Y=002 Call Direction               <ul style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 3◀: Bothway Trunk</li> </ul> </li>   <li>• Y=004 Answer Signal from distant office               <ul style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 2: Answer signal arrives (ISDN Trunk)</li> </ul> </li>   <li>• Y=005 Release signal from distant office               <ul style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li> </ul> </li>   <li>• Y=009 Incoming Connection Signaling               <ul style="list-style-type: none"> <li style="text-align: center;">(BLADE RESET)</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 08: ISDN Indial</li> </ul> </li>   <li>• Y=011 Toll Restriction               <ul style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : To provide</li> <li style="padding-left: 40px;">3◀: Not provided</li> </ul> </li>   <li>• Y=014 SMDR for outgoing call               <ul style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Not provided</li> <li style="padding-left: 40px;">1◀: To provide</li> </ul> </li>   <li>• Y=015 Kind of Call Termination Indicator               <ul style="list-style-type: none"> <li style="text-align: center;">Key/Lamp on ATT</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 00-07: C.O. Incoming Call 0-7</li> </ul> </li>   <li>• Y=016               <ul style="list-style-type: none"> <li style="text-align: center;">Hooking Signal Sending to outside</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: Not sending</li> </ul> </li> </ul>
D		

D	DESCRIPTION	DATA
CM35	<p><b>NOTE:</b> <i>Set this data according to the contract when connecting the system to the public network using the BRT blade.</i></p> <p>Allow sending extension information of Low layer Compatibility (LLC) information element, to each trunk route.</p> <p>Specify the method of Layer 1 activation.</p>	<ul style="list-style-type: none"> <li>• Y=028 Outgoing Trunk Queuing               <ul style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: Restricted</li> </ul> </li> <li>• Y=039 Trunk release by detection of reversal of tip and ring               <ul style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 1◀: To release</li> </ul> </li> <li>• Y=079 Terminal connection form for ISDN Basic Rate Interface               <p style="text-align: right;">(BLADE RESET)</p> <ul style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Point-to-Point 1◀: Point-to-Multipoint</li> </ul> </li> <li>• Y=090 Assignment of BRT route for ISDN               <p style="text-align: right;">(RESET)</p> <ul style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 2: ISDN-Basic Rate Interface</li> </ul> </li> <li>• Y=130               <ul style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: Allow</li> </ul> </li> <li>• Y=144               <p style="text-align: right;">(BLADE RESET)</p> <ul style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Activated by call event 1◀: Always activated</li> </ul> </li> </ul>
E		

E	DESCRIPTION	DATA
CM35	<p>Specify whether the ISDN trunk is released when the system receives ISDN DISCONNECT message with Progress Description=08 from ISDN (effective for an outgoing call).</p> <p><b>NOTE:</b> <i>When sending the in-band tone to the calling station from ISDN, set the second data to 1. In this case, the ISDN trunk will be released automatically in 30 seconds after the calling station receives the in-band tone or when the calling station goes on-hook.</i></p>	<ul style="list-style-type: none"> <li>• Y=158</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : To release</li> <li>1 ◀: Not released</li> </ul>
	<p>Specify whether the ISDN trunk is released when the system receives ISDN DISCONNECT message with Progress Description=08 from ISDN (effective for an incoming call).</p> <p><b>NOTE:</b> <i>When sending the in-band tone to the called station from ISDN, set the second data to 0. In this case, the ISDN trunk will be released automatically in 30 seconds after the called station receives the in-band tone or when the called station goes on-hook.</i></p>	<ul style="list-style-type: none"> <li>• Y=208</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Not released</li> <li>1 ◀: To release</li> </ul>
	<p>Specify whether the ISDN trunk tone is sent when the ISDN trunk is seized.</p>	<ul style="list-style-type: none"> <li>• Y=200</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : To send</li> <li>1 ◀: Not sent</li> </ul>
CM50	Assign ISDN Local Office Code.	<ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) 00-14: Local Office Table No. assigned by CM30 Y=34</li> <li>(2) X...X: Dialed No. (Maximum 12 digits)</li> </ul>
F		



F	DESCRIPTION	DATA
CMAC	Assign Service Profile ID (SPID) to each B CHANNEL number. <b>[North America Only]</b>	<ul style="list-style-type: none"> <li>Y=30</li> <li>(1) XXX Z XXX: 000-127: Trunk Blade No. Z : 0-3: ISDN Circuit No.</li> <li>(2) XXXX ZZZZ XXXX: ISDN Subscriber No. ZZZZ : SPID</li> </ul>
G	(RESET)	

- For originating calls to the ISDN network, do the following programming.

G	DESCRIPTION	DATA
CM20	Assign ISDN access code to each trunk route assigned by CM30 Y=00.  <b>NOTE:</b> <i>LCR can be used with ISDN-BRI. For details refer to BUSINESS FEATURES. <a href="#">Page 1-1</a></i>	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access code</li> <li>(2) 100-163: Trunk Route 00-63</li> </ul>
CM08	Specify whether the timing start is available when making an ISDN call from an attendant.	(1) 403 (2) 0 : Not available 1◀: Available
CM41	Specify the timing start when making an ISDN call from a Single Line Telephone (PB/DP), Multiline Terminal or Attendant Console, if required.	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) 50</li> <li>(2) 03-14: 3-14 seconds</li> </ul> If no data is set, the default setting is 10 seconds. (Dialing terminated by entering #.) Recommended setting is 05 (5 seconds).
H	<b>NOTE:</b> <i>“A, #” or timing start is used for outgoing ISDN calls when LCR is not invoked. Example: 1-214-555-1212 is dialed from a Multiline Terminal. The PBX will access a bearer channel and ship the digits only after the timing start timer has expired or # is dialed by the caller. The # sign tells the PBX that dialing is completed.</i>	

H	DESCRIPTION	DATA
CM8A	Assign the Type of Called Party Number.	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 157: Type of Called Party No. (for E.164)</li> <li>(2) 00 : Unknown</li> <li>01 : International Number</li> <li>02 : National Number</li> <li>04 : Subscriber Number</li> <li>NONE◀: Unknown</li> </ul>
	Assign the Called Party Numbering Plan Identifier.	<ul style="list-style-type: none"> <li>(1) 157: Type of Called Party No. (for Private Numbering Plan)</li> <li>(2) 00 : Unknown</li> <li>01 : Level 2 Regional Number</li> <li>02 : Level 1 Regional Number</li> <li>03 : PSTN Specific Number</li> <li>04 : Local Number</li> <li>06 : Abbreviated Number</li> <li>NONE◀: Unknown</li> </ul> <ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 158: Called Party Numbering Plan Identifier</li> <li>(2) 00 : Unknown</li> <li>01 : ISDN/Telephone Numbering Plan</li> <li>03 : Data Numbering Plan</li> <li>04 : Telex Numbering Plan</li> <li>08 : National Numbering Plan</li> <li>09 : Private Numbering Plan</li> <li>NONE◀: Unknown</li> </ul>
I		

- When providing Tandem Connection (COT/ODT/LDT/PRT to ISDN, ISDN to COT/ODT/LDT/PRT), do the following programming.

I	DESCRIPTION	DATA
CM08	Specify whether the busy tone is sent to a calling party of ISDN when a called party is busy in the tandem connection (ISDN to COT).	<ul style="list-style-type: none"> <li>(1) 407</li> <li>(2) 0 : Available (BT)</li> <li style="padding-left: 20px;">1◀: Not available (RBT)</li> </ul>
CM36	Specify the combination of trunk routes allowing the tandem connection.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ  <ul style="list-style-type: none"> <li>XX: 00-63: Incoming Trunk Route</li> <li>ZZ : 00-63: Outgoing Trunk Route</li> </ul> </li> <li>(2) 0 : Allowed</li> <li style="padding-left: 20px;">1◀: Restricted</li> </ul>
CM41	Specify the timing start when making an ISDN call from a Single Line Telephone (PB/DP), Multiline Terminal) or Attendant Console for the Tandem Connection.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 57</li> <li>(2) 03-14: 3-14 seconds</li> <li>If no data is set, the default setting is 10 seconds.</li> </ul>
<p><b>NOTE 1:</b> By using CM41 Y=0&gt;57, an ISDN call is available even if “#” is not dialed.</p> <p><b>NOTE 2:</b> CM41 Y=0&gt;57 is effective for dialing a called number. When dialing a called party sub-address, this command is not effective.</p>		
J		

- When providing Tandem Connection (ISDN to CCIS, CCIS to ISDN), do the following programming.

J	DESCRIPTION	DATA
CM36	Specify the combination of trunk routes allowing the tandem connection.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ  <ul style="list-style-type: none"> <li>XX: 00-63: Incoming Trunk Route</li> <li>ZZ : 00-63: Outgoing Trunk Route</li> </ul> </li> <li>(2) 0 : Allowed</li> <li style="padding-left: 20px;">1◀: Restricted</li> </ul>
CM08	Allow tandem connection by station or attendant.	<ul style="list-style-type: none"> <li>(1) 028</li> <li>(2) 0: Available</li> </ul>
K		

- When providing Tandem Connection (ISDN to ISDN), do the following programming.

K	DESCRIPTION	DATA
CM36	Specify the combination of trunk routes allowing the tandem connection.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ XX: 00-63: Incoming Trunk Route ZZ : 00-63: Outgoing Trunk Route</li> <li>(2) 0 : Allowed 1◀: Restricted</li> </ul>
CM08	Allow tandem connection by station or attendant.	<ul style="list-style-type: none"> <li>(1) 028</li> <li>(2) 0: Available</li> </ul>
CM35	<p>Provide release of ISDN trunk when receiving the ISDN DISCONNECT message with Progress Description=8 from ISDN because the called party is busy in tandem connection (ISDN to ISDN).</p> <p><b>NOTE:</b> <i>To release the ISDN trunk when receiving the ISDN DISCONNECT message, set the second data 0 to the incoming trunk route of tandem office.</i></p> <p>Provide relay of the ALERT message to the calling party in tandem connection (ISDN to ISDN).</p> <p><b>NOTE:</b> <i>This command should be set to both incoming trunk route and outgoing trunk route of tandem office.</i></p>	<ul style="list-style-type: none"> <li>• Y=233</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ul> <ul style="list-style-type: none"> <li>• Y=266</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
END		

- To send the Calling Party Number (CPN) sent from ISDN to the CCIS network, do the following programming.

START	DESCRIPTION	DATA
CM08	Set the maximum number of digits sent to CCIS network to 24 digits.	(1) 379 (2) 1◀: 24 digits
CMA7	Provide Calling Name Display for sending ISDN CPN to CCIS network.	<ul style="list-style-type: none"> <li>• Y=26</li> </ul> (1) 00-63: CCIS Channel No. (2) 1◀: To provide
	Provide a service for sending of CPN to CCIS network.	<ul style="list-style-type: none"> <li>• Y=28</li> </ul> (1) 00-63: CCIS Channel No. (2) 1◀: To provide
END		

- When the setting of more than 16 Highway Channels are required for a BRT blade, reassignment of the Highway Channel (108 ch) allocation is required to each physical slot (slot01-06/07-12/13-18). The programming for Highway Channel reassignment is as follows. For the details of Highway Channel reassignment, refer to “CMF7 Y=9” in Command Manual.

START	DESCRIPTION	DATA
CMF7	Reassign Highway Channel.	<ul style="list-style-type: none"> <li>• Y=9</li> </ul> (1) XX YY XX: 01-50: Unit No. YY: 01/07/13: Lowest slot No. in each Line/Trunk chassis (2U) (2) XX YY XX: 01-50: Unit No. YY: 06/12/18: Highest slot No. in each Line/Trunk chassis (2U)
A		

A	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CME0</div>	<p>Execute the blade reset for all slots of the Unit accommodated the BRT blade.</p> <p><b>NOTE 1:</b> <i>Set the same Unit No. and Slot No. assigned by the first data.</i></p> <p><b>NOTE 2:</b> <i>“00000000-FFFFFFFF” is displayed as the second data when this command is executed.</i> <i>You can confirm the port status of the blade which is accommodated to the specified slot by this data display.</i> <i>00000000: All ports are not in use</i> <i>Other than 00000000:</i> <i>Ports in use are included.</i></p> <p><b>NOTE 3:</b> <i>For the blade reset while the system is operating, be sure to check the port status. The blade reset must be executed when all ports are not in use.</i></p>	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) XX YY XX: 01-50: Unit No. YY: 01-18: Slot No.</li> <li>(2) XX YY XX: 01-50: Unit No. YY: 01-18: Slot No.</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

- To execute Local Loopback for BRT, do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CMAA</div>	<p>Set Local Loopback (BRT).</p>	<ul style="list-style-type: none"> <li>• Y=22</li> <li>(1) 000-127: Trunk blade No. assigned by CM05 Y=1</li> <li>(2) 0 : Local Loop Back (for BRT) 7◀: Loop Back OFF (for BRT)</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

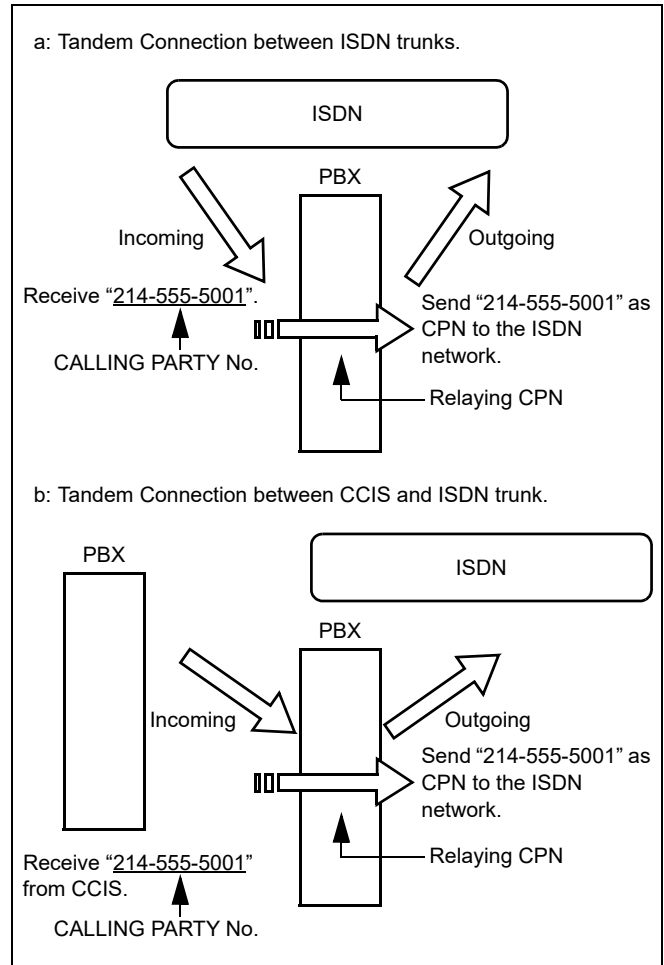
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## ***ISDN FEATURE PROGRAMMING***

- Calling Party Recognition Service (Direct-In Termination (DIT))  
Refer to “Direct Inward Termination (DIT)” in the BUSINESS FEATURES.
- CLI TRANSPARENCY [☞ Page 3-48](#)
- DID ADDRESSING [☞ Page 3-54](#)
- MEGACOM<sup>®</sup> ACCESS **[North America Only]** [☞ Page 3-58](#)
- MEGACOM<sup>®</sup> 800 Service **[North America Only]**  
Refer to DID ADDRESSING for programming instructions. [☞ Page 3-54](#)
- SID TO NETWORK-PRESENT/CPN TO NETWORK-PRESENT  
**[Australia/NZ/Asia/Latin America/UK]/[North America]** [☞ Page 3-59](#)
- SID TO TERMINATING USER-DISPLAY  
**[Australia/NZ/Asia/Latin America/UK]** [☞ Page 3-72](#)
- CPN TO TERMINATING USER-DISPLAY **[North America]** [☞ Page 3-73](#)
- SUBADDRESS-PRESENT [☞ Page 3-75](#)
- TRUNK PROVISIONING SERVICE SELECTION [☞ Page 3-81](#)
- CALL BY CALL SERVICE SELECTION  
**[North America Only]** [☞ Page 3-82](#)
- ADVICE OF CHARGE-DISPLAY  
**[Australia/France/Germany/Netherlands/Italy/Greece/  
Luxembourg/Portugal/Spain/Sweden]**  
**[ITU-T (UAE) Only]** [☞ Page 3-89](#)
- ALTERNATE ROUTING FOR ISDN **[Australia Only]** [☞ Page 3-91](#)
- CENTREX SHF OVER ISDN **[New Zealand Only]** [☞ Page 3-92](#)
- OVERLAP SENDING **[For EMEA]** [☞ Page 3-93](#)
- OVERLAP RECEIVING **[For EMEA]** [☞ Page 3-96](#)
- ADDRESSING **[For EMEA]** [☞ Page 3-101](#)
- CHANNEL NEGOTIATION **[For EMEA]** [☞ Page 3-104](#)
- CONNECTED LINE IDENTIFICATION PRESENTATION (COLP)/  
CONNECTED LINE IDENTIFICATION RESTRICTION (COLR)  
**[For EMEA]** [☞ Page 3-105](#)
- MALICIOUS CALL TRACE **[Australia Only]** [☞ Page 3-107](#)
- CALL COMPLETION TO BUSY SUBSCRIBER (CCBS) **[For EMEA]** [☞ Page 3-108](#)

# CLI TRANSPARENCY



START

DESCRIPTION

DATA

CM35

Specify whether to relay of the ALERT message for called party when receiving PROGRESS message from the calling party in tandem connection.

- Y=280
- (1) 00-63: Trunk Route No.
- (2) 0 : To provide
- 1◀: Not provided

**NOTE 1:** This command is used to let the caller hear the announcement/audible tone from the originating trunk before the called party answers (example: announcement of out of cell (zone) for mobile phone).

**NOTE 2:** According to the specification of the network, this data setting is required.

A



A

CM35

DESCRIPTION	DATA
Provide Calling Party Number relaying in ISDN to ISDN/CCIS to ISDN connection for incoming trunk route.	<ul style="list-style-type: none"> <li>• Y=281</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
<p><b>NOTE 1:</b> <i>This command must be set for incoming trunk route.</i></p>	
<p><b>NOTE 2:</b> <i>Calling Party Number relaying in ISDN tandem connection is available when both CM35 Y=281 and Y=282 are set to 0.</i></p>	
Provide Calling Party Number relaying in ISDN to ISDN/CCIS to ISDN connection for outgoing trunk route.	<ul style="list-style-type: none"> <li>• Y=282</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
<p><b>NOTE 1:</b> <i>This command must be set for outgoing trunk route.</i></p>	
<p><b>NOTE 2:</b> <i>Calling Party Number relaying in ISDN tandem connection is available when both CM35 Y=281 and Y=282 are set to 0.</i></p>	
Specify the Screening Indicator for outgoing trunk route.	<ul style="list-style-type: none"> <li>• Y=265</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: user-provided, not screened</li> <li>1: user-provided, verified and passed</li> <li>2: user-provided, verified and failed</li> <li>3: Network provided</li> </ul>
Specify the type of number for outgoing trunk route.	<ul style="list-style-type: none"> <li>• Y=230</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 01: International Number</li> <li>02: National Number</li> </ul>
Specify the Numbering Plan Identification for outgoing trunk route.	<ul style="list-style-type: none"> <li>• Y=231</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 01: ISDN/Telephony Numbering Plan</li> </ul>
Provide the type of number/Numbering Plan Identification of CPN for outgoing trunk route.	<ul style="list-style-type: none"> <li>• Y=234</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>

END

To send Calling Party Number, and to display on the Mobile phone in Mobility Access mode when calling from PSTN in tandem connection, do the following programming. (The setting of the following programming is applied to Call Forwarding in Mobility Access mode when calling from PSTN.)

START	DESCRIPTION	DATA
CM36	Specify the combination of trunk routes allowing the tandem connection.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX ZZ                XX: 00-63: Incoming Trunk Router                ZZ : 00-63: Outgoing Trunk Router</li> <li>(2) 0 : Allow                1◀: Restricted</li> </ul>
CM20	Assign a trunk route access code to each C.O. Line trunk route.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access code</li> <li>(2) 100-163: Trunk Route 00-63</li> </ul>
CM35	Allow the sending of Calling Party Number when calling in tandem connection.	<ul style="list-style-type: none"> <li>• Y=306</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: Available</li> </ul>
<u>END</u>	<p><b>NOTE:</b> <i>Assign this data to an outgoing trunk route that can be sent Calling Party Number.</i></p>	

To add the prefix code for Calling Party Number when calling from PSTN in tandem connection, do the following programming. (The setting of the following programming is applied to Call Forwarding in Mobility Access mode when calling from PSTN.)

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM35</div>	<p>Assign the prefix code for Calling Party Number when calling from PSTN in tandem connection.</p> <p>Whether to add the prefix code for Calling Party Number when calling from a trunk in tandem connection.</p>	<ul style="list-style-type: none"> <li>• Y=308               <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) X-XXXXXXXX: Prefix code for Calling Party Number</li> </ul> </li> <li style="margin-left: 20px;">NONE◀ : Not added</li>   <li>• Y=311               <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : To add</li> <li style="margin-left: 20px;">1◀: Not added</li> </ul> </li> </ul>
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">END</div>		

To delete the digits of Calling Party Number, do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM35</div>	<p>Assign the digits to be deleted from the head of Calling Party Number.</p>	<ul style="list-style-type: none"> <li>• Y=309               <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00 : No digit deletion</li> <li style="margin-left: 20px;">01-08 : First 1-8 digits deletion</li> <li style="margin-left: 20px;">NONE◀: No digit deletion</li> </ul> </li> </ul>
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">END</div>		

CLI Transparency on ISDN/SIP trunk

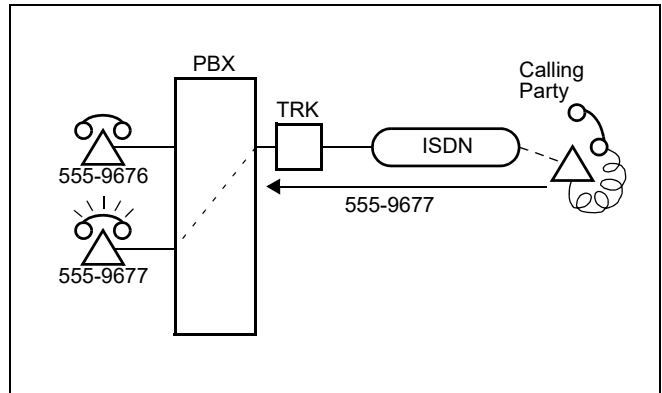
- For ISDN trunk

START	DESCRIPTION	DATA
CM35	Allow the sending of Calling Party Number for ISDN trunk.	<ul style="list-style-type: none"> <li>• Y=306</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: Available</li> </ul>
CM12	Assign Service Restriction Class A for Account Code entry to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15: Service Restriction Class A</li> </ul>
CM15	Specify whether to transmit the caller ID of the call originator when an intermediate station holds the trunk incoming call and transfer it to the trunk.  <b>NOTE 1:</b> <i>This data is effective only when CM35 Y=306: 0 is set.</i>  <b>NOTE 2:</b> <i>If an intermediate party is an Attendant Console, the data is to be set in CM08&gt;1030.</i>	<ul style="list-style-type: none"> <li>• Y=409</li> <li>(1) 00-15: Service Restriction Class A</li> <li>(2) 0 : To transmit 1◀: Not transmitted</li> </ul>
CM08	Specify whether to transmit the caller ID of the call originator when an Attendant Console holds the trunk incoming call and transfer it to the trunk.	<ul style="list-style-type: none"> <li>(1) 1030</li> <li>(2) 0 : To transmit 1◀: Not transmitted</li> </ul>
END		

- For SIP trunk

START	DESCRIPTION	DATA
CMBA	Allow the sending of Calling Party Number for SIP trunk.	<ul style="list-style-type: none"> <li>• Y=44</li> <li>(1) 00-63: Profile number 00-63</li> <li>(2) 01: Available</li> </ul>
CM12	Assign Service Restriction Class A for Account Code entry to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15: Service Restriction Class A</li> </ul>
CM15	Specify whether to transmit the caller ID of the call originator when an intermediate station holds the trunk incoming call and transfer it to the trunk.	<ul style="list-style-type: none"> <li>• Y=409</li> <li>(1) 00-15: Service Restriction Class A</li> <li>(2) 0 : To transmit 1 ◀: Not transmitted</li> </ul>
<p><b>NOTE 1:</b> <i>This data is effective only when CMBA Y=44: 01 is set.</i></p>		
<p><b>NOTE 2:</b> <i>If an intermediate party is an Attendant Console, the data is to be set in CM08&gt;1030.</i></p>		
CM08	Specify whether to transmit the caller ID of the call originator when an Attendant Console holds the trunk incoming call and transfer it to the trunk.	<ul style="list-style-type: none"> <li>(1) 1030</li> <li>(2) 0 : To transmit 1 ◀: Not transmitted</li> </ul>
<u>END</u>		

# DID ADDRESSING



START	DESCRIPTION	DATA
CM30	Assign the data for DID to the trunk numbers assigned by CM10 Y=00.	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> </ul> <ol style="list-style-type: none"> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) 18: ISDN Indial</li> </ol>
CM35	Assign the data for DID to the trunk routes assigned by CM30.	<ul style="list-style-type: none"> <li>• Y=000 Kind of Trunk Route</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 00: DID</li> <li>• Y=002 Call direction</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 3◀: Bothway Trunk</li> <li>• Y=005 Release Signal from distant office</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 1◀: Release signal arrives</li> <li>• Y=009 Incoming Connection Signaling</li> </ul> <div style="border: 1px solid black; border-radius: 15px; padding: 2px; display: inline-block; margin-left: 100px;">BLADE RESET</div> <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 08: ISDN</li> </ol>
A		

A	DESCRIPTION	DATA
CM51	Assign the destination of DID Call transferred when the station is no answer/busy/unassigned.	<ul style="list-style-type: none"> <li>• Y=00 No Answer</li> <li>• Y=03 Busy</li> <li>• Y=06 Unassigned</li> <li>(1) 00-63: Tenant No.</li> <li>(2) Destination:                             <ul style="list-style-type: none"> <li>X-XXXXXXXX: Station No.</li> <li>E000 : Attendant Console</li> <li>EB000-EB015:VRS No.</li> </ul> </li> </ul>
B		

- To provide DID Digit Conversion:

B	DESCRIPTION	DATA
CM35	Assign the data for DID Digit Conversion to the trunk routes assigned by CM30.	<ul style="list-style-type: none"> <li>• Y=018 Digit Conversion on DID call               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ol> </li> <li>• Y=170 Development Table               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Development Table 1 3◀: Development Table 0</li> </ol> </li> <li>• Y=012 Number of digits to be received on DID for Development Table 0               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : 1 digit 1 : 2 digits 2 : 3 digits 3◀: 4 digits</li> </ol> </li> <li>• Y=078 Number of digits to be converted on DID for Development Table 0               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Leading 2-4 digits 1◀: All digits of DID are converted by CM76</li> </ol> </li> <li>• Y=171 Number of digits to be converted on DID for Development Table 1               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 01-08: 1-8 digits 15◀ : 4 digits</li> </ol> </li> </ul>
C		



C	DESCRIPTION	DATA
CM76	Assign the Number Conversion Block number for Development Table 0.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXX: DID No.</li> <li>(2) 000-999: Number Conversion Block No.</li> </ul>
	Assign the Number Conversion Block number for Development Table 1.	<ul style="list-style-type: none"> <li>• Y=90</li> <li>(1) X-XXXXXXXX: DID No.</li> <li>(2) 000-999: Number Conversion Block No.</li> </ul>
	Assign the data for interpreting the digits received.	<ul style="list-style-type: none"> <li>• Y=01 Day Mode</li> <li>• Y=02 Night Mode</li> <li>• Y=03 Mode A</li> <li>• Y=04 Mode B</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) X-XXXXXXXX: Station No. to be terminated</li> <li>DXX: Change terminating system to: <ul style="list-style-type: none"> <li>D04: Direct-In Termination</li> <li>D14: Attendant Console</li> </ul> </li> </ul>
<u>END</u>		

# MEGACOM® ACCESS

[North America Only]

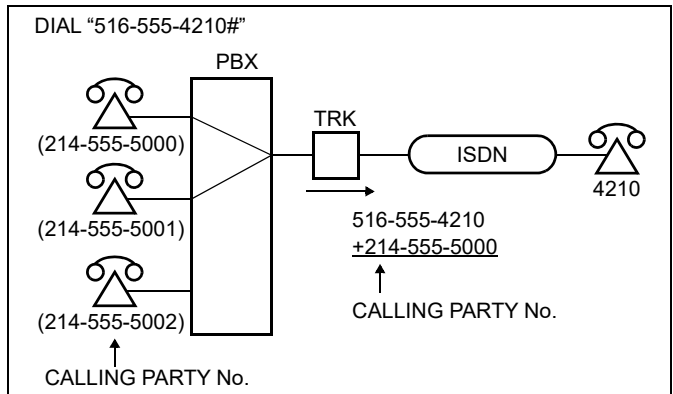
START	DESCRIPTION	DATA
CM12	Assign the Trunk Restriction Class to each station.	<ul style="list-style-type: none"> <li>Y=01 Trunk Restriction Class</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X Z               <ul style="list-style-type: none"> <li>X: 1◀-8: Trunk Restriction Class in Day mode</li> <li>Z: 1◀-8: Trunk Restriction Class in Night mode</li> </ul> </li> <li>1: Unrestricted (RCA)</li> <li>2: Non-Restricted 1 (RCB)</li> <li>3: Non-Restricted 2 (RCC)</li> <li>4: Semi-Restricted 1 (RCD)</li> <li>5: Semi-Restricted 2 (RCE)</li> <li>6: Restricted 1 (RCF)</li> <li>7: Restricted 2 (RCG)</li> <li>8: Fully-Restricted (RCH)</li> </ul>
CM35	Set the outgoing/incoming Trunk Route Restriction data by Trunk Restriction Classes (RCA-RCH).	<ul style="list-style-type: none"> <li>Y=051-058 Outgoing Trunk Restriction</li> <li>Y=061-068 Incoming Trunk Restriction</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Restricted               <ul style="list-style-type: none"> <li>1◀: Allowed</li> </ul> </li> </ul>
	<b>NOTE:</b> <i>If call by call service selection is required, see <a href="#">Page 3-83</a> for additional programming.</i>	
END		

In addition to the programming of Direct Outward Dialing, to provide a WATS line to the required trunk route, do the following programming.

START	DESCRIPTION	DATA
CM35	Assign a WATS line to the required trunk route.	<ul style="list-style-type: none"> <li>Y=000 Kind of Trunk Route</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 02: WATS line</li> </ul>
END		

## SID TO NETWORK-PRESENT/CPN TO NETWORK-PRESENT

For providing the Calling Party Number (CPN) to the network, do the following programming.



- When Dial-In service is provided:

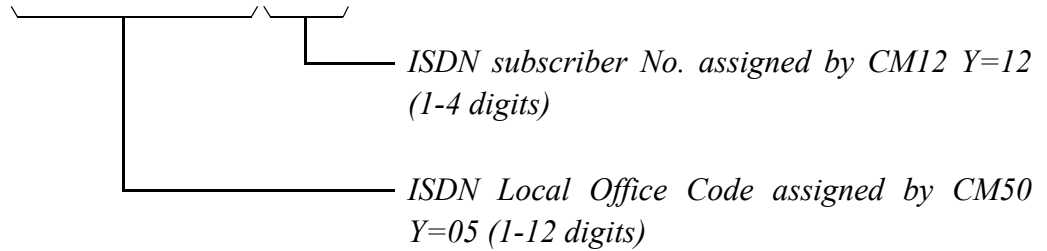
START	DESCRIPTION	DATA
CM12	Assign an ISDN Subscriber number 1 and ISDN Local Office Code Table number 1 to required stations. <b>NOTE 1</b>	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X-XXXX: ISDN Subscriber number 1</li> </ul>
CM13	Specify whether to provide the facility control of Calling Party Number (CPN).	<ul style="list-style-type: none"> <li>• Y=13</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-14: ISDN Local Office Code Table No. 00-14</li> </ul>
CM50	Assign ISDN Local Office Code to the Table number assigned by CM12 Y=13.	<ul style="list-style-type: none"> <li>• Y=25</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To provide <b>[For Australia]</b>/Not provided <b>[Other than Australia]</b> <b>NOTE 2</b></li> <li>1◀: Not provided <b>[For Australia]</b>/To provided <b>[Other than Australia]</b> <b>NOTE 2</b></li> </ul>
CM50	Assign ISDN Local Office Code to the Table number assigned by CM12 Y=13.	<ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) 00-14: ISDN Local Office Code Table No. 00-14</li> <li>(2) X...X: Local Office Code (Maximum 12 digits)</li> </ul>
END		

- When ISDN (BRI) Terminals are used:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM08</div>	Allow the ISDN Telephone to send the CPN to network without using PBX programming.	(1) 434 (2) 0: CPN entered in ISDN Telephone
END		

**NOTE 1:** *The ISDN number consists of the following numbers.*

*ISDN number: XXXXXXXXXXXXX YYYY*



*This number must be in the indial range assigned by Telecom for the ISDN line.*

*For example:*

*National Destination Code for Dallas: 214*

*Local Code for a station: 518-5000*

*In this case, the ISDN Number is*

*National Destination Code + Local Code=214518-5000*

*That is*

*ISDN Subscribers No. assigned by CM12 Y=12 is 5000.*

*ISDN Local Office Code assigned by CM50 Y=05 is 214518.*

**NOTE 2:** *The following facility control services for CPN are available in accordance with the subscription category of distant ISDN exchange. In case of no subscription, SID (CPN) to Network-Present is not available.*

**Example [For Australia]:**

	<u>1st Data</u>	<u>2nd Data</u>	<u>Meaning</u>
CM13 Y=25	5000	0	<i>Restrict transfer</i>
	5001	1	<i>Permit transfer</i>

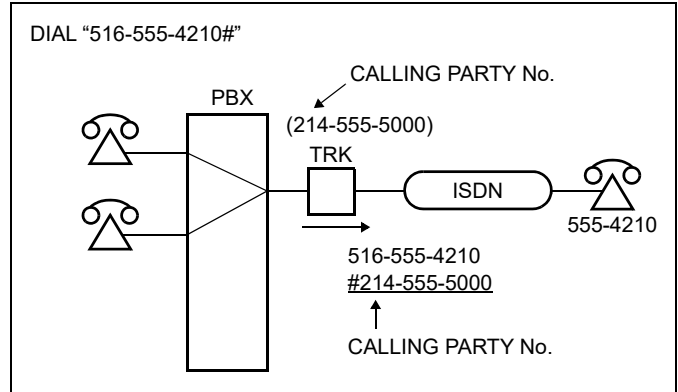
*Station 5000 places an outgoing call to an ISDN subscriber. Because CM13>25 is set to 0, the ISDN network is instructed to not send 214-518-5000 (see **NOTE 1** above) to the distant ISDN subscriber.*

*Station 5001 places an outgoing call to an ISDN subscriber, and 214-518-5001 is sent to the called party.*

**NOTE 3:** *When transferring to an ISDN line after a C.O. incoming call is terminated, the calling number of the call forwarding station is notified to the ISDN line. Priority of the calling number that is notified is as follows.*

CALLING NUMBER (SYSTEM DATA SETTING)	CALLING NUMBER THAT IS NOTIFIED	PRIORITY
CM12 Y=12, 13, CM50 Y=05 ISDN subscriber number is available	Calling number per station	High
CM30 Y=19, 34, CM50 Y=05 ISDN subscriber number is available	Calling number per trunk	↓
No data	No data	Low

- When Dial-In service is not provided:



START	DESCRIPTION	DATA
CM13	Specify whether to provide the facility control of Calling Party Number (CPN).	<ul style="list-style-type: none"> <li>Y=25</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : To provide <b>[For Australia]</b>/Not provided <b>[Other than Australia]</b> <b>NOTE 2</b> on <a href="#">Page 3-61</a></li> <li>1◀: Not provided <b>[For Australia]</b>/To provided <b>[Other than Australia]</b> <b>NOTE 2</b> on <a href="#">Page 3-61</a></li> </ul>
CM30	Assign an ISDN subscriber number to each ISDN trunk. <b>NOTE 1</b> on <a href="#">Page 3-60</a>	<ul style="list-style-type: none"> <li>Y=19</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) XXXX: ISDN Subscriber No.</li> </ul>
	Assign ISDN Local Office Code Table number to each ISDN trunk.	<ul style="list-style-type: none"> <li>Y=34</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) 00-14: Local Office Code Table No. 00-14</li> </ul>
CM50	Assign ISDN Local Office Code to the Table number assigned by CM30 Y=34.	<ul style="list-style-type: none"> <li>Y=05</li> <li>(1) 00-14: ISDN Local Office Code Table No. 00-14</li> <li>(2) X...X: Local Office Code (Maximum 12 digits)</li> </ul>
END		

- To provide the specifications of Calling Party Number (CPN), do the following programming in addition to the programming of “When Dial-In service is provided/When Dial-In service is not provided”.

START	DESCRIPTION	DATA
CM35	Provide the type of number/Numbering Plan Identification of CPN.	<ul style="list-style-type: none"> <li>Y=234</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
	<b>NOTE:</b> <i>If the second data is set to “1”, the setting data of CM35 Y=230/231 is invalid.</i>	
	Specify the type of number for outgoing call.	<ul style="list-style-type: none"> <li>Y=230</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 00 : Unknown</li> <li>01 : International Number</li> <li>02 : National Number</li> <li>03 : Network Specific Number</li> <li>04 : Subscriber Number</li> <li>06 : Abbreviated Number</li> <li>NONE◀: No data</li> </ul>
	Specify the Numbering Plan Identification for outgoing call.	<ul style="list-style-type: none"> <li>Y=231</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 00 : Unknown</li> <li>01 : ISDN/Telephony Numbering Plan</li> <li>03 : Data Numbering Plan</li> <li>04 : Telex Numbering Plan</li> <li>08 : National Standard Numbering Plan</li> <li>09 : Private Numbering Plan</li> <li>NONE◀: No data</li> </ul>
	Specify the Screening Indicator for outgoing call.	<ul style="list-style-type: none"> <li>Y=265</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : user-provided, not screened</li> <li>1 : user-provided, verified and passed</li> <li>2 : user-provided, verified and failed</li> <li>3 : Network provided</li> <li>NONE◀: No data</li> </ul>
<u>END</u>		

- To provide the specifications of Calling Party Number (CPN) of each sub line, do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM12</div> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 600px; margin-left: 5px;"></div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-top: 10px; text-align: center;">A</div>	Assign the ISDN/SIP Subscriber number 1.	<ul style="list-style-type: none"> <li>• Y=12</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X-XXXX: ISDN/SIP Subscriber number (Indial No.) (1-4 digits)</li> <li>NONE◀: No data</li> </ul>
	Assign the ISDN/SIP Local Office Code Table number 1.	<ul style="list-style-type: none"> <li>• Y=13</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-14: ISDN/SIP Local Office Code Table number</li> <li>15◀: No data</li> </ul>
	Assign the SIP Subscriber number 2.	<ul style="list-style-type: none"> <li>• Y=46</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X-XXXX: ISDN/SIP Subscriber number (Indial No.) (1-4 digits)</li> <li>NONE◀: No data</li> </ul>
	Assign the SIP Local Office Code Table number 2.	<ul style="list-style-type: none"> <li>• Y=47</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-14: ISDN/SIP Local Office Code Table number</li> <li>15◀: No data</li> </ul>
	Assign the ISDN/SIP Subscriber number 3.	<ul style="list-style-type: none"> <li>• Y=51</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X...X : ISDN/SIP Subscriber number including local office number (1-16 digits)</li> <li>NONE◀: No data</li> </ul>
	<p><b>NOTE 1:</b> <i>The Local Office Code Table assigned by CM50 Y=05 is not used for the second data of this command.</i></p> <p><b>NOTE 2:</b> <i>The setting of this command is valid when the second data of CM8A Y=5000-5255&gt;176 is set to 03.</i></p>	



A	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM12</div>	<p>Assign the ISDN/SIP Subscriber number 4.</p> <p><b>NOTE 1:</b> <i>The Local Office Code Table assigned by CM50 Y=05 is not used for the second data of this command.</i></p> <p><b>NOTE 2:</b> <i>The setting of this command is valid when the second data of CM8A Y=5000-5255&gt;176 is set to 04.</i></p>	<ul style="list-style-type: none"> <li>• Y=52</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X...X : ISDN/SIP Subscriber number including local office number (1-16 digits)</li> <li>NONE◀: No data</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM13</div>	<p>Select the Calling Party Number sending to ISDN/SIP when making an outgoing call from Sub Line (Terminal Side).</p> <p>Specify the Calling Party Number sending to ISDN/SIP when making an outgoing call from Sub Line (Multiline Side).</p> <p><b>NOTE:</b> <i>This command is effective when CM13 Y=70 is set to 0.</i></p>	<ul style="list-style-type: none"> <li>• Y=70</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0: As per CM13 Y=71</li> </ul> <ul style="list-style-type: none"> <li>• Y=71</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Calling number of My Line</li> <li>1◀: Calling number of Sub Line</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM50</div>	<p>Assign the ISDN/SIP Local Office Code Table.</p>	<ul style="list-style-type: none"> <li>• Y=05</li> <li>(1) 00-14: ISDN/SIP Local Office Code Table</li> <li>(2) X-XXXXXXXXXXXXX: ISDN/SIP Local Office Code</li> <li>NONE◀: No data</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

- To provide the specifications of Calling Party Number (CPN) of each trunk number, do the following programming.

START	DESCRIPTION	DATA
CM20	Assign the access code for LCR Group 0-3.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A126: LCR Group 0 A127: LCR Group 1 A128: LCR Group 2 A129: LCR Group 3</li> </ul>
CM30	Assign an ISDN subscriber number (last 4 digits of telephone number) to each ISDN trunk.  Assign ISDN Local Office Code Table number to each ISDN trunk.	<ul style="list-style-type: none"> <li>Y=19</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) XXXX: ISDN Subscriber No.</li> <li>Y=34</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) 00-14: Local Office Table No. 00-14 15◀: Not assigned</li> </ul>
CM50	Assign ISDN Local Office Code.	<ul style="list-style-type: none"> <li>Y=05</li> <li>(1) 00-14: ISDN Local Office Table No. assigned by CM30 Y=34</li> <li>(2) X-XXXXXXXXXXXXX: ISDN Local Office Code NONE◀: No data</li> </ul>
CM8A	Assign an Area Code Development Pattern number to each LCR Group.  Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.	<ul style="list-style-type: none"> <li>Y=A000</li> <li>(1) 0-3: LCR Group 0-3</li> <li>(2) 4000-4007: Area Code Development Pattern No. 0-7</li> <li>Y=4000-4007 Area Code Development Pattern No. 0-7</li> <li>(1) X-XXXXXXXX: Area Code</li> <li>(2) 0000-0255: Route Pattern No. 000-255</li> </ul>
A		

A	DESCRIPTION	DATA
CM8A	Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4000-4007.	<ul style="list-style-type: none"> <li>• Y=0000-0255 Route Pattern No. 000-255</li> <li>(1) 1-4: Order of LCR Selection               <ul style="list-style-type: none"> <li>1: 1st</li> <li>2: 2nd</li> <li>3: 3rd</li> <li>4: 4th</li> </ul> </li> <li>(2) XXX ZZ               <ul style="list-style-type: none"> <li>XXX: 000-255: LCR Pattern No. 000-255</li> <li>ZZ : 00-63: Trunk Route No. 00-63</li> </ul> </li> </ul>
	Specify Calling party number sent from ISDN Trunk.	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR Pattern No. 000-255</li> <li>(1) 176</li> <li>(2) 07 : To send Representative number assigned by CM30 Y=19, 34.</li> <li>15◀: To send ISDN subscriber number assigned by CM12 Y=12/13. (To send representative number assigned by CM30 Y=19/34, if no data is set.)</li> </ul>
<u>END</u>		

For providing the Calling Party Name for outgoing call to the network, do the following programming.  
**[North America]**

**NOTE 1:** This feature is available only when the 24PRT blade is used.

**NOTE 2:** This programming is effective when ISDN Protocol type is assigned to 28 (National ISDN-2 [NI-2]) by CMAA Y=06. [☞ Page 3-28](#)

START	DESCRIPTION	DATA
CM77	Assign the Calling Party Name to each stations with character code/character.  <b>NOTE:</b> The available characters for assigning are as follows. - For PCPro: 0-9, A-Z - For CAT : 0-9, A-F	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 20-7F: Calling Party Name Character Code (Maximum 32 digits) See Command Manual.</li> </ul> <ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX...XX: Calling Party Name Character (Maximum 16 characters)</li> </ul>
CM12	Assign Service Restriction Class B to each station.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	Allow the Calling Party Name sending to ISDN in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=156</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM35	Provide the Calling Party Name sending to ISDN to the B CHANNEL trunk route.	<ul style="list-style-type: none"> <li>• Y=268</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
CM08	Specify the Calling Party Name sent to ISDN when making an outgoing call from Sub Line.	<ul style="list-style-type: none"> <li>(1) 502</li> <li>(2) 0 : Name of My Line 1◀: Name of Sub Line</li> </ul>
END		

**NOTE**

To send a station number as Calling Party Number when calling from a station, do the following programming. (The setting of the following programming is applied to Call Forwarding in Mobility Access mode when calling from a station.)

START	DESCRIPTION	DATA
CM20	Assign a trunk route access code to each C.O. Line trunk route.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) 100-163: Trunk Route 00-63</li> </ul>
CM35	Assign a number type to be sent as Calling Party Number when calling via ISDN.	<ul style="list-style-type: none"> <li>• Y=307</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : To send station number</li> <li>1 : To send Subscriber number assigned by CM12 Y=12, 13</li> <li>2 : To send Subscriber number assigned by CM12 Y=46, 47</li> <li>3 : To send Subscriber number assigned by CM12 Y=51</li> <li>4 : To send Subscriber number assigned by CM12 Y=52</li> <li>7◀: As per CM8A Y=5XXX&gt;176 (To send Subscriber number 1 assigned by CM12 Y=12, 13 when calling to a trunk route)</li> </ul>
	<b>NOTE 1:</b> <i>Whether to send My line number/ Sub line number per Line Key can be selected by CM13 Y=70/71.</i>	
	<b>NOTE 2:</b> <i>When calling from a trunk route, Subscriber number assigned by CM12 Y=12, 13 is sent as Calling Party Number.</i>	
END		

To add the prefix code for Calling Party Number when calling from a station, do the following programming. (The setting of the following programming is applied to Call Forwarding in Mobility Access mode when calling from a station.)

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM35</div>	<p>Assign the prefix code for Calling Party Number when calling from a station.</p> <p>Whether to add the prefix code for Calling Party Number when calling from a station.</p> <p><b>NOTE 1:</b> <i>Prefix code is added only when station number is sent as a caller ID (CM35 Y=307: 0).</i></p>	<ul style="list-style-type: none"> <li>• Y=308                             <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) X-XXXXXXXX: Prefix code for Calling Party Number</li> </ul> </li> <li style="margin-left: 20px;">NONE◀ : Not added</li>   <li>• Y=310                             <ul style="list-style-type: none"> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : To add</li> <li style="margin-left: 20px;">1◀: Not added</li> </ul> </li> </ul>
<u>END</u>		

**NOTE 2:** *For data assignment to add the prefix code for Calling Party Number when calling from a station, refer to CLI TRANSPARENCY. [📄 Page 3-51](#)*

To delete the digits of Calling Party Number, do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM35</div>	Assign the digits to be deleted from the head of Calling Party Number.	<ul style="list-style-type: none"> <li>• Y=309</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 00 : No digit deletion</li> <li>01-08 : First 1-8 digits deletion</li> <li>NONE◀: No digit deletion</li> </ul>
END		

## ***SID TO TERMINATING USER-DISPLAY***

**[Australia/NZ/Asia/Latin America/UK]**

To provide Calling Name Display for incoming calls from ISDN, refer to CALLING NAME AND NUMBER DISPLAY. [Page 1-599](#)

To indicate the reason why the calling number is not informed from the network, on the LCD of Multiline Terminal/DESKCON, do the following programming.

**[Hong Kong]**

**NOTE:** *This feature is available only when the PN-24PRTA blade is used for the trunk route.*

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM35</div>	<p>Specify "CALLER ID" as the sending method of calling number from the network, to each trunk route.</p> <p>Specify whether the LCD indicates the reason why the calling number is not informed from the network.</p> <p><b>NOTE:</b> <i>When CM35 Y=133 is assigned as 0, the reason is indicated as follows.</i></p> <ul style="list-style-type: none"> <li>• <i>A call from a calling party which does not inform the calling number:</i> <i>PRIVACY</i></li> <li>• <i>A call from a network or a single line telephone which cannot inform the calling number:</i> <i>OUT OF AREA</i></li> <li>• <i>A call from a public telephone:</i> <i>No indication</i></li> </ul>	<ul style="list-style-type: none"> <li>• Y=129 Calling No. sending method           <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: CALLER ID</li> </ol> </li> <li>• Y=133           <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : To indicate 1◀: Not indicated</li> </ol> </li> </ul>
END		



# CPN TO TERMINATING USER-DISPLAY

[North America]

To provide Calling Name Display for incoming calls from National ISDN 2/NTI (DMS100), do the following programming.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	<p>Allow Calling Name Display for incoming calls in Service Restriction Class A assigned by CM12 Y=02.</p> <p>Specify the displaying pattern of Caller ID on the LCD of Multiline Terminal before answering or after answering a trunk call.</p> <p><b>NOTE 1:</b> <i>When the second data of CM15 Y=400 is set to 7, set the second data of CM15 Y=136 to 1 (Calling Name Display).</i></p> <p><b>NOTE 2:</b> <i>When the second data of CM15 Y=400 is set to 1, set the second data of CM15 Y=136 to 0 (Calling Number Display).</i></p>	<ul style="list-style-type: none"> <li>Y=136</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Calling Name Display</li> <li>Y=400</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0 : Not displayed calling number and calling name simultaneously</li> <li>1 : To display Calling Name on upper line of LCD, Calling No. on middle line of LCD</li> <li>7◀: To display calling number on upper line of LCD, calling name on middle line of LCD</li> </ul>
CM08	Specify the duration of displaying the destination information (called number/name) indicated on the LCD of Multiline Terminal when the outgoing call is answered by the destination via ISDN.	<ul style="list-style-type: none"> <li>(1) 538</li> <li>(2) 0 : Until call is finished</li> <li>1◀: 6 seconds</li> </ul>
A		

A	DESCRIPTION	DATA
CM90	<p>Provide the Multiline Terminal with a Caller ID Display key.</p> <p>Provide the Multiline Terminal with a select key of Calling Number Display or Calling Name Display.</p> <p>Provide the DESKCON with a select key of Calling Number Display or Calling Name Display.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F5010: Caller ID Display</li> </ul> <ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F1099: Select Key of Calling No. Display or Calling Name Display</li> </ul> <ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) F6122: Select Key of Calling No. Display or Calling Name Display</li> </ul>
CMA7	<p>Specify whether the calling party name is sent to CCIS network.</p> <p><b>NOTE:</b> <i>When providing tandem connection (ISDN to CCIS), this data is required to relay a calling party name.</i></p>	<ul style="list-style-type: none"> <li>• Y=28</li> <li>(1) 00-63: CCIS Channel No.</li> <li>(2) 0 : Not provided 1◀: To provide</li> </ul>
END		

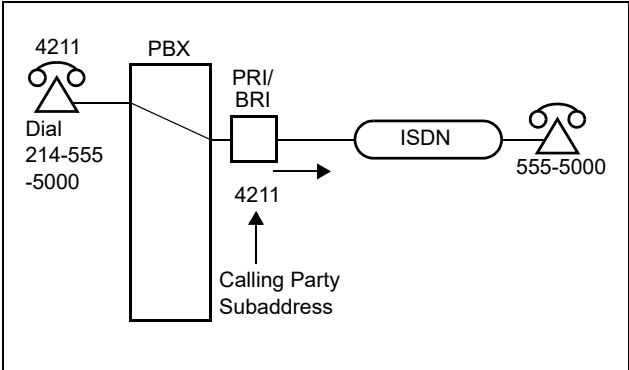
To provide the CLI Transparency on ISDN trunk:

START	DESCRIPTION	DATA
CM35	Allow the sending of Calling Party Number for ISDN trunk.	<ul style="list-style-type: none"> <li>• Y=306</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0: Available</li> </ul>
CM12	Assign Service Restriction Class A for Account Code entry to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: My Line No.</li> <li>(2) XX ZZ XX: 00-15: Service Restriction Class A</li> </ul>
CM08	Whether to transmit the caller ID of the call originator when an Attendant Console holds the trunk incoming call and transfer it to the trunk.	<ul style="list-style-type: none"> <li>(1) 1030</li> <li>(2) 0 : To transmit 1◀: Not transmitted</li> </ul>
END		

# SUBADDRESS-PRESENT

(1) Calling Party Subaddress

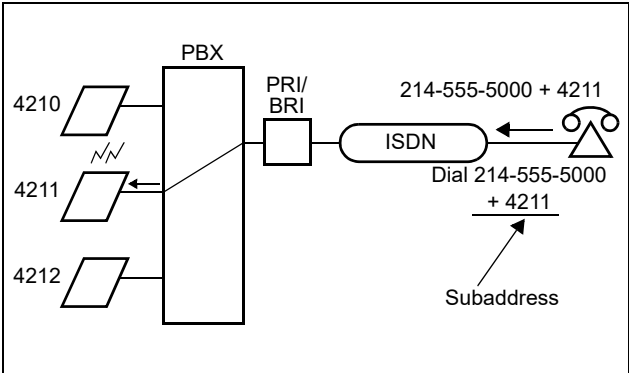
When a station has dialed an ISDN subscriber number, the station number is automatically sent as a Calling Party Subaddress.



START	DESCRIPTION	DATA
CM08	Provide sending of Calling Party Subaddress to ISDN.	(1) 400 (2) 0: To send
END		

(2) Called Party Subaddress (for incoming call)

When the system has received a Called Party Subaddress (Calling Station Number) from an ISDN subscriber, the system connects the call to the specified terminal.



(a) When connecting the call in accordance with the system;

START	DESCRIPTION	DATA
CM08	Specify the terminating system for Called Party Subaddress.	(1) 401 (2) 0 : Station Call 1 ◀: Terminating System assigned by CM30 Y=02/03/40/41
END		

(b) When terminating the call in accordance with the trunk route;

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM35</div> <div style="text-align: center;">END</div>	Specify the terminating system for Called Party Subaddress.	<ul style="list-style-type: none"> <li>• Y=350</li> <li>(1) 00-63: Trunk route number</li> <li>(2) 0 : Station call</li> <li style="padding-left: 20px;">1 : Terminating system assigned by CM30 Y=02/03/40/41</li> <li style="padding-left: 20px;">3◀: As per CM08&gt;401</li> </ul>

(c) When terminating the call in accordance with the DID number;

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM08</div>	Specify the interval of SLT/Multiline Terminal ringing tone for Called Party Subaddress received from ISDN Indial trunk.	<ul style="list-style-type: none"> <li>(1) 1235</li> <li>(2) 0 : As per CM35 Y=033</li> <li style="padding-left: 20px;">1◀: As per CM76 Y=70</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM76</div>	Specify the terminating system for Called Party Subaddress.	<ul style="list-style-type: none"> <li>• Y=69</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) 0 : Station call</li> <li style="padding-left: 20px;">1◀: As per CM35 Y=350</li> </ul>
	Specify the interval of SLT/Multiline Terminal ringing tone for Called Party Subaddress.	<ul style="list-style-type: none"> <li>• Y=70</li> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) For Multiline Terminal</li> <li style="padding-left: 20px;">0 : Ringing</li> <li style="padding-left: 40px;">0.5 seconds ON-0.5 seconds OFF</li> <li style="padding-left: 20px;">1 : Special Ringing</li> <li style="padding-left: 40px;">0.5 seconds ON-0.5 seconds OFF</li> <li style="padding-left: 40px;">-0.5 seconds ON-1.5 seconds OFF</li> <li style="padding-left: 20px;">2 : Internal Ringing</li> <li style="padding-left: 40px;">1 second ON-2 seconds OFF</li> <li style="padding-left: 20px;">3◀: As per CM76 Y=22</li> </ul>
	<p><b>NOTE:</b> <i>This command is valid only when CM08&gt;1235 is set to 1.</i></p>	For SLT (Single Line Telephone) <ul style="list-style-type: none"> <li>0 : As per CM04 Y=00&gt;05</li> <li>1 : As per CM04 Y=00&gt;07</li> <li>2 : As per CM04 Y=00&gt;05</li> <li>3◀: As per CM76 Y=22</li> </ul>
<div style="border: 1px solid black; padding: 5px; width: 20px; margin: 0 auto;">A</div>		

A	DESCRIPTION	DATA
CM04	Specify the interval of SLT ringing tone.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 05: Single Line Telephone ringing signal for station-to-station connection 07: Special ringing signal for SLT ring</li> <li>(2) 01 : ON 02 : 2 seconds ON-4 seconds OFF 03 : 1 second ON-2 seconds OFF 04 : 0.5 seconds ON-0.5 seconds OFF 05 : 0.25 seconds ON-0.25 seconds OFF 06 : 0.5 seconds ON-0.5 seconds OFF -0.5seconds ON-1.5 seconds OFF 07 : 0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-5.25 seconds OFF 08 : 0.375 seconds ON-0.25 seconds OFF -0.375 seconds ON-2 seconds OFF 09 : 0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-0.125 seconds OFF -0.25 seconds ON-2 seconds OFF 10 : 1 second ON-4 seconds OFF 11 : 0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-4.25 seconds OFF 12 : 1 second ON-3 seconds OFF 13 : 0.25 seconds ON-0.25 seconds OFF -0.25 seconds ON-2.25 seconds OFF 31◀: 1 second ON-2 seconds OFF (For 1st data=05) 0.375 seconds ON-0.25 seconds OFF -0.375 seconds ON-2 seconds OFF (For 1st data=07)</li> </ul>
CM08	Specify the Multiline Terminal Ringer Tone pattern for Called Party Subaddress received from ISDN Indial trunk.	<ul style="list-style-type: none"> <li>(1) 1236</li> <li>(2) 0 : As per CM35 Y=034/164 1◀: As per CM76 Y=71</li> </ul>
B		

B

## DESCRIPTION

## DATA

CM76

Specify the Multiline Terminal Ringer Tone Pattern for Called Party Subaddress.

**NOTE 1:** *Valid only for Multiline Terminal (Invalid for SLT).*

**NOTE 2:** *This command is valid only when CM08>1236 is set to 1.*

- Y=71
- (1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90
- (2) 0 : Ringer Tone Pattern 0 (Ringer Tone Pattern is assigned by CM65 Y=40)
- 1 : Ringer Tone Pattern 1
- 2 : Ringer Tone Pattern 2
- 3 : Ringer Tone Pattern 3
- 4 : Ringer Tone Pattern 4
- 5 : Ringer Tone Pattern 5
- 6 : Ringer Tone Pattern 6
- 7◀: As per CM76 Y=23

CM65

Specify the ring frequency of the Multiline Terminal corresponding with the ringer tone pattern number.

- Y=40
- (1) 00-63: Tenant No. (Assigned by CM30 Y=91)
- (2) See the table below.

◀: Default

Ringer Tone Pattern No.	Y=40: 0	Y=40: 1◀
1	Ringer Tone 1	520 + 660 [Hz]/8 [Hz] Modulating Signal
2	Ringer Tone 2	660 + 760 [Hz]/16 [Hz] Modulating Signal
3	Ringer Tone 3	1100 [Hz] Envelop
4	Ringer Tone 4	540 [Hz]
5	Ringer Tone 5	1100 [Hz]
6	Not used	1400 + 1100 [Hz]
7	Not used	520 + 660 [Hz]/16 [Hz] Modulating Signal

**NOTE 1:** *When using music ring with DT900/DT500 Series, use CM13 Y=99 and CM64 Y=20-27.*

**NOTE 2:** *When this data is set or changed, a reset of the terminal is required to reflect the settings of CM64 Y=20-27 for DT900/DT500 Series.*

C



CM64

**DESCRIPTION**

**DATA**

Specify the ring frequency of DT900/DT500 Series corresponding with the ringer tone pattern number.  
**[9300V7 software required]**

- Y=20-27
- (1) 00-63: Tenant No.
- (2) 15 : Music Ring 1 **Note 2**
- 16 : Music Ring 2 **Note 2**
- 17 : Music Ring 3 **Note 2**
- NONE◀ : As per CM65 Y=40

**NOTE 1:** This command is effective only for DT900/DT500 Series. For other Multiline Terminals, use CM65 Y=40.

**NOTE 2:** For music ring unsupported terminals, follow the setting of CM65 Y=40.

**NOTE 3:** A reset of the terminal is required when this data is set or changed for DT900/DT500 Series.

CM13

Assign the music ring feature to each station.  
**[9300V7 software required]**

- Y=99
- (1) X-XXXXXXXX: Station No.
- (2) 0 : Available
- 1◀ : Not available

**NOTE 1:** This command is effective only for DT900/DT500 Series.

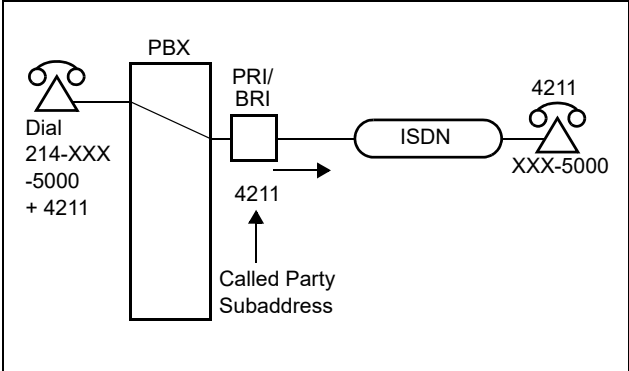
**NOTE 2:** Be sure to set this data to "1" (Not available) for music ring unsupported terminals.

**NOTE 3:** When music ring is not used, set this data to "1" (Not available) even for music ring supported terminals.

**NOTE 4:** Music ring can be used regardless of this command when music ring is set by the terminal operation (**Feature** key + 3) or on a terminal menu.

END

(3) When a call is originated by dialing an ISDN Subscriber number + \* + called party subaddress + #, the called party subaddress is sent to a destination ISDN station.



START	DESCRIPTION	DATA
CM08	Provide the Consecutive Speed Dialing when making ISDN call.	(1) 405 (2) 0: Available
END		



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## *TRUNK PROVISIONING SERVICE SELECTION*

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
CM30	Assign the trunk route to the trunk number assigned by CM10 Y=00.  <b>BLADE RESET</b>	<ul style="list-style-type: none"><li>• Y=00 Trunk Route Allocation</li></ul> <ol style="list-style-type: none"><li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li><li>(2) 00-63: Route No.</li></ol>
<u>END</u>		

## ***CALL BY CALL SERVICE SELECTION***

**[North America Only]**

### **AVAILABLE SERVICES**

The following Binary Facility Code can be sent to the ISDN network when the called party number is flagged as a Service. Services and features are selected by the ISDN subscriber at the time the ISDN is ordered. The PBX must be programmed to match the services and features provided by the ISDN provider.

#### AT&T

SDN

Megacom

Megacom 800

Accunet

International 800

AT&T MultiQuest

#### Northern Telecom

Private

InWATS

OutWATS

Foreign Exchange

Tie Trunk

## CALL BY CALL LCR PROGRAMMING

The following programming steps are an example of a long-distance call placed to any area code that begins with a 2 and that call is flagged as AT&T Megacom.

CM8A Y=4005>12 (dialed #)=0001 (go to route pattern 001)

CM8A Y=0001>1 (1st choice)=00110 (use LCR pattern 000 + trunk route 10)

CM85 Y=5>12=11 (maximum number of sending digits)

CM8A Y=5000>157=02 (Kind of called party=National)

(dialed number is 10 digits NANP, select National)

CM8A Y=5000>158=01 (Called Party Number Plan ID=ISDN/Telephony Numbering Plan)

CM8A Y=5000>159~161 are not used for this call.

CM8A Y=5000>162=1 (Service)

CM8A Y=5000>163=03 (Megacom)

CM8A Y=5000>164 is not required for this call.

The next example details a local 7 digit call and will not use a Binary Facility Code.

CM8A Y=4005>2 (dialed number)=0000 (go to route pattern 000)

CM8A Y=0000>1 (1st choice)=00210 (use LCR pattern 002 + trunk route 10)

CM85 Y=5>2=7 (maximum number of sending digits)

CM8A Y=5002>157=04 (Kind of called party=Local) (dialed number is 7 digits NANP, select Local)

CM8A Y=5002>158=01 (Called Party Number Plan ID=ISDN/Telephony Numbering Plan)

CM8A Y=5002>159~161 are not used for this call.

CM8A Y=5002>162=1 (Service)

CM8A Y=5002>163=NONE (not sending)

CM8A Y=5002>164 is not required for this call.

**NOTE:** *These examples are provided to demonstrate the required programming. Always verify with the ISDN provider as to how local calls should be handled.*

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## FEATURES

### Carrier Identification Codes (CIC)

In ISDN terms placing a long-distance call using the equal access carrier code is a feature. There are times when, depending upon the type of service provider (LEC or IEX), the PBX must contain the following programming to complete a long-distance call by using CIC.

Currently all CIC are three digits in length preceded by a 10. Example: To dial AT&T a user dials 10288 + the long-distance number. The PBX must route the call based on 10288 or a portion of that number. ISDN complicates this process by identifying each CIC at the PBX level.

For example: Without ISDN the PBX is able to simply outpulse 10288 and the public network would provide connection to AT&T. With ISDN used for routing equal access calls, the PBX must translate the 10288 in its entirety and provide the network with four pieces of information as described on the next page. The implementation of this feature is further complicated by the fact that this is only required by some ISDN providers and not others.

### Required Network Information

Four components are required by the network when sending CIC information. This information can be found in the SETUP message.

- (1) FEATURE (A statement advising the network that this is a feature based call, as opposed to a Service based call).
- (2) TYPE OF NETWORK ID (The PBX should send out NATIONAL for this information).
- (3) NETWORK ID PLAN NUMBER (The Interchange Carrier should be sent).
- (4) NETWORK ID CHARACTER (XXX) (For AT&T the PBX sends out 288).

Use the following programming to assign the Call By Call Identification Codes.

CM8A Y=4005>10 (dialed number)=4006 (go to table 406)

CM8A Y=4006>288 (dialed number)=0010 (use route pattern 010)

CM8A Y=0010>1 (1st choice)=02010 (use LCR pattern 020 + trunk route 10)

CM8A Y=5020>157=02 (Kind of called party=National)

CM8A Y=5020>158=01 (Called party Number Plan ID=ISDN/Telephony Numbering Plan)

CM8A Y=5020>159=02 (Type of Network ID=National)  
CM8A Y=5020>160=01 (Network ID Plan Number=Interexchange Carrier)  
CM8A Y=5020>161=288 (CIC for AT&T)  
CM8A Y=5020>162=1 (Service)  
CM8A Y=5020>163=01~16

The above programming will allow the 10288 to be sent out with the proper Setup message to the network. However, further LCR programming is required because the network will not understand what 10288 is as a dialed number. Use the following LCR programming to delete the 10288 digits from being sent to the ISDN.

CM8A Y=5020>151=0 (Allow digit deletion.)  
CM8A Y=5020>153=05 (Delete the first five digits of the dialed number)

**NOTE:** *This programming example only details the required steps for the 288 CIC. Each CIC must be programmed in different tables to allow CM8A Y=5XXX>161 to send out the unique CIC to the network.*

START	DESCRIPTION	DATA
CM8A	Assign the kind of the called party number.	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR/TR Pattern No. 000-255</li> <li>(1) 157: Kind of Called Party No.</li> <li>(2) 00 : Unknown</li> <li>01 : International</li> <li>02 : National</li> <li>03 : Network</li> <li>04 : Local</li> <li>05 : Not used</li> <li>06 : Speed Dial</li> <li>NONE◀: Unknown</li> </ul>
	Assign the Called Party Numbering Plan Identifier.	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR/TR Pattern No. 000-255</li> <li>(1) 158: Called Party Numbering Plan Identifier</li> <li>(2) 00 : Unknown</li> <li>01 : ISDN/Telephone Numbering Plan</li> <li>02 : Not used</li> <li>03 : Data Numbering Plan</li> <li>04 : Telex Numbering Plan</li> <li>05 : Not used</li> <li>06 : Not used</li> <li>07 : Not used</li> <li>08 : National Numbering Plan</li> <li>09 : Private Numbering Plan</li> <li>NONE◀: Unknown</li> </ul>
	Assign the Type of Network ID number.	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR/TR Pattern No. 000-255</li> <li>(1) 159: Type of Network ID</li> <li>(2) 00-07 : Type of Network ID No.</li> <li>NONE◀: No data</li> </ul>
A		

A	DESCRIPTION	DATA
CM8A	Assign the Network ID Plan number.	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR/TR Pattern No. 000-255</li> <li>(1) 160: Network ID Plan</li> <li>(2) 00-15 : Network ID Plan No.</li> <li>NONE◀: No data</li> </ul>
	Assign the Network ID character.	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR/TR Pattern No. 000-255</li> <li>(1) 161: Network ID Character</li> <li>(2) X-XXXXX: X=0-9, A (*), B (#)</li> <li>NONE◀ : No data</li> </ul>
	Specify whether Call By Call is Feature or Service.	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR/TR Pattern No. 000-255</li> <li>(1) 162: Feature/Service</li> <li>(2) 0 : Feature</li> <li>1◀: Service</li> </ul>
	Assign the Binary Facility Coding Value.	<ul style="list-style-type: none"> <li>• Y=5000-5255 LCR/TR Pattern No. 000-255</li> <li>(1) 163: Binary Facility Coding Value</li> <li>(2) For AT&amp;T               <ul style="list-style-type: none"> <li>01 : SDN</li> <li>02 : MEGACOM800</li> <li>03 : MEGACOM</li> <li>04 : Not used</li> <li>05 : Not used</li> <li>06 : ACCUNET</li> <li>07 : Not used</li> <li>08 : INTERNATIONAL800</li> <li>16 : AT&amp;T MULTIQUEST</li> </ul> </li> <li>NONE◀: No data</li>   <li>For Northern Telecom               <ul style="list-style-type: none"> <li>01 : Private</li> <li>02 : INWATS</li> <li>03 : OUTWATS</li> <li>04 : Foreign Exchange (FX)</li> <li>05 : Tie Trunk (TIE)</li> </ul> </li> <li>NONE◀: No data</li> </ul>
B		

B

CM8A

**DESCRIPTION**

**DATA**

Assign the WATS Band number.

- Y=5000-5255  
LCR/TR Pattern No. 000-255
- (1) 164: WATS Band No.
- (2) 00-09 : WATS Band No.
- NONE◀: No data

Specify whether the Transit Network Selection is sent to the network.

- Y=5000-5255  
LCR/TR Pattern No. 000-255
- (1) 172: Sending Transit Network Selection
- (2) 0 : To send
- 3◀: Not sent

**NOTE:** *Network-Specific Facilities or Transit Network Selection is sent according to the following conditions.*

◀: Default

CM8A Y=5000-5255>163	CM8A Y=5000-5255>172	
	3◀	0
Data assigned	Network-Specific Facilities are sent	Transit Network Selection is sent
NONE◀: No data	No information element is sent	

END



## ADVICE OF CHARGE-DISPLAY

[Australia/France/Germany/Netherlands/Italy/Greece/Luxembourg/Portugal/Spain/Sweden]

START	DESCRIPTION	DATA
CM08	Specify the Advice of Charge (AOC) display on Multiline Terminal when the charge total is over \$9999.99/€ (Euro) 655.35. (After 6 seconds, the display goes off.)	(1) 402 (2) 0 : Flashing display 1◀: Fixed display
	Provide Advice of Charge (AOC).	(1) 404 (2) 1◀: To provide
	Specify whether Advice of Charge (AOC) information is sent to PMS.	(1) 841 (2) 0 : To send (dollar/euro charge) 1◀: Not sent (call unit)
	<b>NOTE:</b> <i>To send call unit to PMS, set the second data of CM08&gt;841 to 1.</i>	
CM42	Specify the call charge per unit. By this setting, the call charge is calculated according to the call unit sent from the network.	(1) 69: dollar/euro/integral charge per unit (2) 00-99: 00-99 dollars/euro/integral charge per unit
		(1) 70: cent/euro cent/two decimals charge per unit (2) 00-99: 00-99 cents/euro cents/two decimals charge per unit
END		

**NOTE:** *When you require Call Recording of ISDN call, do the data programming for SMDR or PMS. For details, refer to the BUSINESS FEATURES. [Page 1-1](#)*

**[ITU-T (UAE) Only]**

START	DESCRIPTION	DATA
CMAA	Provide the PRT/BRT blade with ISDN Advice of Charge (AOC) feature.	<ul style="list-style-type: none"> <li>• Y=16</li> <li>(1) 000-127: Trunk blade No. of PRT/BRT blade assigned by CM05 Y=1</li> <li>(2) 0: To provide</li> </ul>
CM08	Provide the Advice of Charge (AOC).	<ul style="list-style-type: none"> <li>(1) 404</li> <li>(2) 1◀: To provide</li> </ul>
CM42	Specify the call charge per unit. By this setting, the call charge is calculated according to the call unit sent from the network.	<ul style="list-style-type: none"> <li>(1) 69: integral charge per unit</li> <li>(2) 00-99: integral charge per unit</li> <li>(1) 70: two decimals charge per unit</li> <li>(2) 00-99: two decimals charge per unit</li> </ul>
END		

**NOTE:** *When you require Call Recording of ISDN call, do the data programming for SMDR or PMS. For details, refer to the BUSINESS FEATURES. [Page 1-1](#)*

# ALTERNATE ROUTING FOR ISDN

[Australia Only]

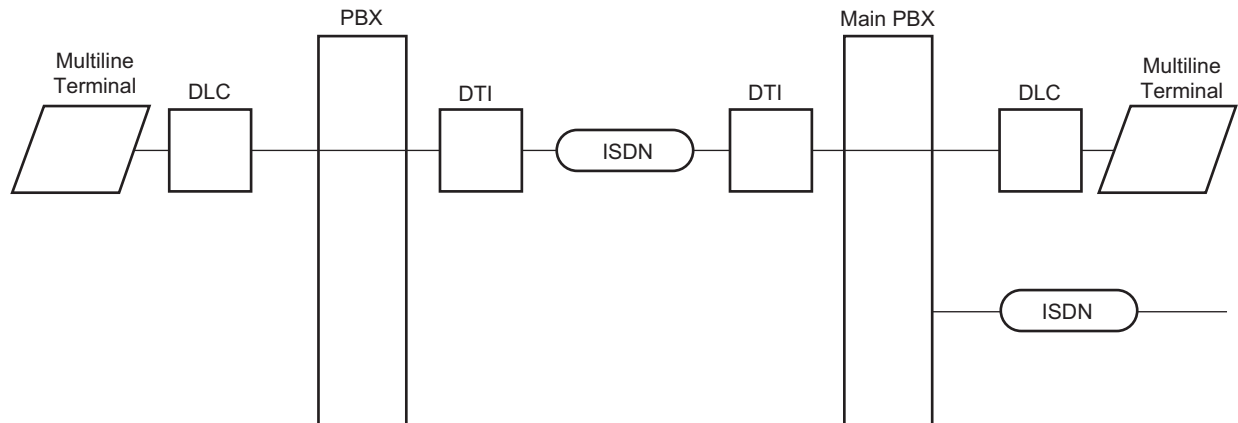
To provide Alternate Routing to the other trunk route (ISDN/CCIS/COT/tie line), when a call originating to the ISDN route is not available due to a line fault or other reason:

START	DESCRIPTION	DATA
CM29	Assign a Numbering Plan Group number to each tenant.	<ul style="list-style-type: none"> <li>(1) 00-63: Tenant No.</li> <li>(2) 710-713 : Numbering Plan Group 0-3</li> <li>NONE◀: Numbering Plan Group 0</li> </ul>
CM20	Assign the access code for LCR Group 0-3.	<ul style="list-style-type: none"> <li>• Y=0-3 Number Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A126: LCR Group 0</li> <li>A127: LCR Group 1</li> <li>A128: LCR Group 2</li> <li>A129: LCR Group 3</li> </ul>
CM8A	Assign an Area Code Development Pattern number to each LCR Group.	<ul style="list-style-type: none"> <li>• Y=A000</li> <li>(1) 0-3: LCR Group 0-3</li> <li>(2) 4005-4007: Area Code Development Pattern No. 5-7</li> </ul>
	Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.	<ul style="list-style-type: none"> <li>• Y=4005-4007</li> <li>Area Code Development Pattern No. 5-7</li> <li>(1) X...X: Area Code, Maximum 8 digits</li> <li>(2) 0000-0255: Route Pattern No. 000-255</li> </ul>
	Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4005-4007.	<ul style="list-style-type: none"> <li>• Y=0000-0255</li> <li>Route Pattern No. 000-255</li> <li>(1) 1-4: Order of LCR Selection</li> <li>1: 1st</li> <li>2: 2nd</li> <li>3: 3rd</li> <li>4: 4th</li> <li>(2) XXX ZZ</li> <li>XXX: 000-255: LCR Pattern No.</li> <li>ZZ : 00-63: Trunk Route No.</li> </ul>
END		

## ***CENTREX SHF OVER ISDN***

**[New Zealand Only]**

To send hooking signal from a Multiline Terminal to a main PBX via ISDN, do the following programming.



START	DESCRIPTION	DATA
CM35	Provide the voice channel trunk route for the main PBX with the Centrex function.	<ul style="list-style-type: none"> <li>Y=086</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
CM90	Assign the SHF Key on the Multiline Terminal.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F1009: SHF (Hooking Signal sent to outside)</li> </ul>
END		

# OVERLAP SENDING

[For EMEA]

**NOTE:** This feature is not available for call origination from the ISDN telephone.

START	DESCRIPTION	DATA
CM08	Provide the system with Overlap Sending. <b>BLADE RESET</b>	<ul style="list-style-type: none"> <li>(1) 644</li> <li>(2) 0: To provide</li> </ul>
CM20	Assign the access code for LCR Group 0-3.	<ul style="list-style-type: none"> <li>• Y=0-3 Number Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A126: LCR Group 0 A127: LCR Group 1 A128: LCR Group 2 A129: LCR Group 3</li> </ul>
CM8A	<p>Assign an Area Code Development Pattern number to each LCR Group.</p> <p>Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.</p> <p>Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4005-4007.</p>	<ul style="list-style-type: none"> <li>• Y=A000</li> <li>(1) 0-3: LCR Group 0-3</li> <li>(2) 4005-4007: Area Code Development Pattern No. 5-7</li> <li>• Y=4005-4007 Area Code Development Pattern No. 5-7</li> <li>(1) X...X: Area Code, Maximum 8 digits</li> <li>(2) 0000-0255: Route Pattern No. 000-255</li> <li>• Y=0000-0255 Route Pattern No. 000-255</li> <li>(1) 1-4: Order of LCR Selection 1: 1st 2: 2nd 3: 3rd 4: 4th</li> <li>(2) XXX ZZ XXX: 000-255: LCR Pattern No. ZZ : 00-63: Trunk Route No.</li> </ul>
A		

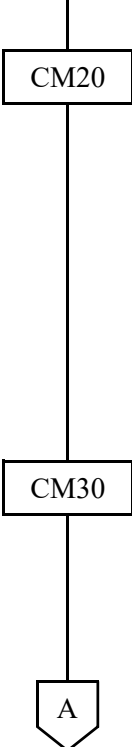
A	DESCRIPTION	DATA
CM8A	For area code addition, designate the digits to be added.	<ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>(1) 100: Designation of digit Addition Pattern No.</li> <li>(2) 9000-9255: Digit Addition Pattern No. 000-255</li> <li>NONE◀ : No digit addition</li> </ul> <ul style="list-style-type: none"> <li>• Y=9000-9255: Digit Addition Pattern No. 000-255</li> <li>(1) 0: Entry of digit code to be added</li> <li>(2) X-X...X : Digits to be added (Maximum 32 digits) X=0-9, A (*), B (#), C (Fixed Pause), D (Programmable Pause)</li> <li>NONE◀: No data</li> </ul>
	To delete the designated digit of an area code assigned by CM8A Y=4005-4007:	<ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>(1) 153: Designation of digit to be deleted from area code assigned by CM8A Y=4005-4007</li> <li>(2) 00 : No digit deletion 01-10 : Leading 1-10 digits deletion NONE◀: No digit deletion</li> </ul>
	<p><b>NOTE:</b> <i>When originating a call, the digit number of SETUP message to ISDN is as follows: The digit number of SETUP message =[20 digits]-[Number of digit deletion (2nd data set by CM8A Y=5000-5255&gt;153)]</i></p> <p><i>For example, when CM8A Y=5000-5255&gt;153 is set to 02 (2 digits area code deletion) and a calling station dials number "0-1234567890123456789012345* (26 digits)", ISDN message sent from the system becomes as follows.</i></p> <p><i>ISDN message: SETUP message: 345678901234567890 (18 digits) INFO message: 12345 (5 digits)</i></p> <p><i>*: Header 0 is LCR access code for LCR Group 0 set by CM20 Y=0-3: A126, and following number 12 is an area code.</i></p>	
	Enable the sending an area code to ISDN as a Called Party Subaddress.	<ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>(1) 155: Designation of sending area code as a Called Party Subaddress</li> <li>(2) 0: Available</li> </ul>
B		

B	DESCRIPTION	DATA
CM85	Specify the maximum number of sending digits to be dialed by Calling Party.	<ul style="list-style-type: none"> <li>• Y=0-7 Area Code Development Pattern No. 0-7 assigned by CM8A Y=A000</li> <li>(1) X-X...X: Area code dialed (Maximum 8 digits)</li> <li>(2) 01-79: 1 digit-79 digits 24◀ : 24 digits</li> </ul>
CM35	Assign the Area Code Development Pattern number for Toll Restriction and maximum digit analysis to each trunk route.	<ul style="list-style-type: none"> <li>• Y=076</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 00-07: Area Code Development Pattern No. 0-7 15◀ : Not used</li> </ul>
	Assign the ISDN call origination procedure.	<ul style="list-style-type: none"> <li>• Y=206</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : En-bloc call origination and overlap call origination 1◀ : En-bloc call origination only</li> </ul>
	Assign the number of division digits for Overlap sending.	<ul style="list-style-type: none"> <li>• Y=207</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 00-31: 0 digit-31 digits 63◀ : No data</li> </ul>
<u>END</u>		

# OVERLAP RECEIVING

[For EMEA]

**NOTE:** *This feature is not available when using the ISDN telephone.*

START	DESCRIPTION	DATA
 CM20	Assign the Station Numbering Plan data to the leading one, two, three or four digits of station number.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Leading 1-4 digits of Station No.</li> <li>(2) 801: 1 digit Station No. 802: 2 digits Station No. 803: 3 digits Station No. 804: 4 digits Station No. 805: 5 digits Station No. 806: 6 digits Station No. 807: 7 digits Station No. 808: 8 digits Station No.</li> </ul>
CM30	Assign the data for DID to the trunk numbers assigned by CM10 Y=00.	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>(1) 000-511: Trunk No. assigned by CM10 Y=00</li> <li>(2) 18: ISDN Indial</li> </ul>



A	DESCRIPTION	DATA
CM35	Assign the data for DID Digit Conversion to the trunk routes assigned by CM30.	<ul style="list-style-type: none"> <li>• Y=018 Digit Conversion on DID call               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ol> </li>   <li>• Y=170 Development Table               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Development Table 1 3◀: Development Table 0</li> </ol> </li>   <li>• Y=012 Number of digits to be received on DID for Development Table 0               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : 1 digit 1 : 2 digits 2 : 3 digits 3◀: 4 digits</li> </ol> </li>   <li>• Y=171 Number of digits to be converted on DID for Development Table 1               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 01-08: 1-8 digits 15◀: 4 digits</li> </ol> </li> </ul>
CM76	Assign the Number Conversion Block number for Development Table 0.	<ul style="list-style-type: none"> <li>• Y=00               <ol style="list-style-type: none"> <li>(1) X-XXXX: DID No.</li> <li>(2) 000-999 : Number Conversion Block No. NONE◀: No data</li> </ol> </li> </ul>
	Assign the Number Conversion Block number for Development Table 1.	<ul style="list-style-type: none"> <li>• Y=90               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXXX: DID No.</li> <li>(2) 000-999 : Number Conversion Block No. NONE◀: No data</li> </ol> </li> </ul>
	Assign the data for interpreting the digits received.	<ul style="list-style-type: none"> <li>• Y=01 Day Mode               <ol style="list-style-type: none"> <li>(1) 000-999: Number Conversion Block No. assigned by CM76 Y=00/90</li> <li>(2) X-XXXXXXXXX: Station No. to be terminated DXX: Change terminating system to: D14: Attendant Console</li> </ol> </li> </ul>
B		

B	DESCRIPTION	DATA
CM35	<p>To distinguish the maximum number of digits received from ISDN for each trunk route, specify an Area Code Development Pattern number to each trunk route number.</p> <p>Provide the Overlap Receiving feature for each trunk route.</p>	<ul style="list-style-type: none"> <li>• Y=202</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 00-07: Area Code Development Pattern No. 0-7</li> <li>15◀: Not used</li> </ul>
CM85	<p>Specify the maximum number of sending digits to be dialed by calling party.</p> <p><b>NOTE:</b> <i>The maximum number of sending digits including the area codes should be assigned to each area code.</i></p>	<ul style="list-style-type: none"> <li>• Y=203</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ul> <ul style="list-style-type: none"> <li>• Y=0-7 Area Code Development Pattern No. 0-7 assigned by CM8A Y=A000</li> <li>(1) X-X...X: Area Code dialed, Maximum 8 digits</li> <li>(2) 01-79: 1 digit-79 digits</li> <li>24◀: 24 digits</li> </ul>
CM08	<p>Specify whether the system connects to the calling party when the system does not receive the following DID number within the time set by CM41 Y=0&gt;109, after the first DID number of the calling party is received.</p> <p>Specify whether the system connects to the calling party when the DID number of digits received from ISDN is more than the maximum number of sending digits assigned by CM85 Y=0-7.</p>	<ul style="list-style-type: none"> <li>(1) 626</li> <li>(2) 0 : Not connected</li> <li>1◀: To connect</li> </ul> <ul style="list-style-type: none"> <li>(1) 627</li> <li>(2) 0 : Not connected</li> <li>1◀: To connect</li> </ul>
CM41	<p>Specify the ORT timer for Overlap Receiving.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 109</li> <li>(2) 03-99: 3-99 seconds (1 second increments)</li> </ul> <p>If no data is set, the default setting is 6 seconds.</p>
C		

- When providing Tandem Connection (ISDN to BRT/DTI/PRT/CCT) with LCR development, do the following programming.

C	DESCRIPTION	DATA
CM20	Assign the access code for LCR Group 0-3.	<ul style="list-style-type: none"> <li>Y=0-3 Number Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A126: LCR Group 0 A127: LCR Group 1 A128: LCR Group 2 A129: LCR Group 3</li> </ul>
CM8A	<p>Assign an Area Code Development Pattern number to each LCR Group.</p> <p>Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.</p> <p>Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4000-4007.</p>	<ul style="list-style-type: none"> <li>Y=A000</li> <li>(1) 0-3: LCR Group 0-3</li> <li>(2) 4000-4007: Area Code Development Pattern No. 0-7</li> <li>Y=4000-4007 Area Code Development Pattern No. 0-7</li> <li>(1) X...X: Area Code (Maximum 8 digits)</li> <li>(2) 0000-0255: Route Pattern No. 000-255</li> <li>Y=0000-0255 Route Pattern No. 000-255</li> <li>(1) 1-4: Order of LCR Selection <ul style="list-style-type: none"> <li>1: 1st</li> <li>2: 2nd</li> <li>3: 3rd</li> <li>4: 4th</li> </ul> </li> <li>(2) XXX ZZ XXX: 000-255: LCR Pattern No. 000-255 ZZ : 00-63: Trunk Route No. 00-63</li> </ul>
D		

D	DESCRIPTION	DATA
CM8A	For area code addition, designate the digits to be added.	<ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>(1) 100: Designation of digit Addition Pattern No.</li> <li>(2) 9000-9255: Digit Addition Pattern No. 000-255</li> <li>NONE◀ : No digit addition</li> <li>• Y=9000-9255 Digit Addition Pattern No. 000-255</li> <li>(1) 0: Entry of digit code to be added</li> <li>(2) X-X...X: Digits to be added (Maximum 32 digits)</li> <li>X=0-9, A (*), B (#), C (Fixed Pause), D (Programmable Pause)</li> </ul>
	For area code deletion, designate the digits to be deleted.	<ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>LCR Pattern No. 000-255</li> <li>(1) 152: Deletion of all digits of the area code assigned by CM8A Y=4000-4007</li> <li>(2) 0 : To delete</li> <li>1◀: Not deleted</li> </ul>

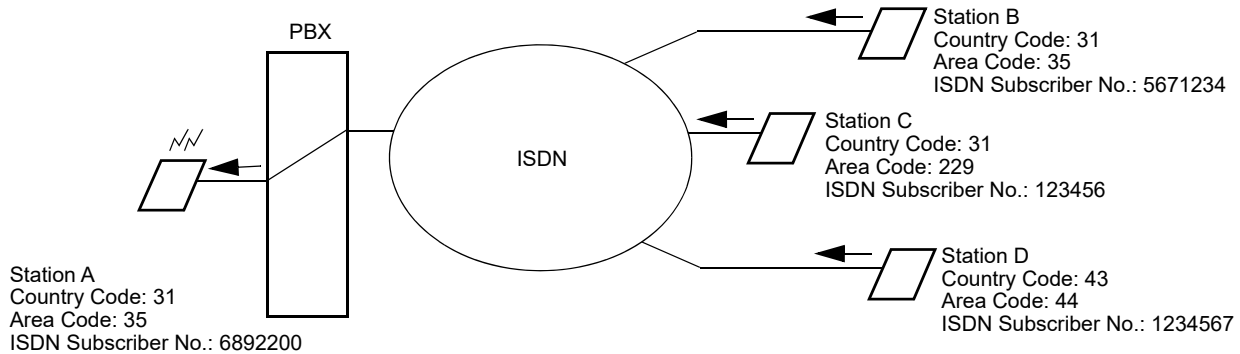
END

# ADDRESSING

## [For EMEA]

**NOTE:** This feature is not available when using the ISDN telephone.

When Addressing is provided, calling party number of station B/C/D is displayed on a called party station A as follows:



- Call from station B to station A  
Calling Party Number “05671234” is displayed on station A  
(0: Trunk Access Code + 5671234: ISDN Subscriber Number)
- Call from station C to station A  
Calling Party Number “00229123456” is displayed on station A  
(0: Trunk Access Code + 0: National Prefix + 229: Area Code + 123456: ISDN Subscriber Number)
- Call from station D to station A  
Calling Party Number “00043441234567” is displayed on station A  
(0: Trunk Access Code + 00: International Prefix + 43: Country Code + 44: Area Code + 1234567: ISDN Subscriber Number)

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content;">CM35</div>	Assign data for Addressing to the required trunk route.	<ul style="list-style-type: none"> <li>• Y=222 International Prefix Code               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) X-XXXX: Prefix Code X: 0-9, A (*), B (#)</li> </ol> </li> <li>• Y=223 National Prefix Code               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) X-XXXX: Prefix Code X: 0-9, A (*), B (#)</li> </ol> </li> </ul>
<div style="border: 1px solid black; padding: 5px; width: fit-content; text-align: center;">A</div>		

A	DESCRIPTION	DATA
CM35	Enable International/National Prefix Code display when a call terminates via ETSI ISDN.	<ul style="list-style-type: none"> <li>• Y=224 Country Code               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) X-XXXX: Country Code X: 0-9, A (*), B (#)</li> </ol> </li> <li>• Y=225 Area Code               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) X-XXXXXX: Area Code X: 0-9, A (*), B (#)</li> </ol> </li> <li>• Y=226 International/National Prefix Code Display               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Available</li> </ol> </li> </ul>
CM12	Assign Service Restriction Class B to each station.	<ul style="list-style-type: none"> <li>• Y=02               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ol> </li> </ul>
CM15	Allow International/National Prefix Code display in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=155               <ol style="list-style-type: none"> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ol> </li> </ul>
CM35	Assign a trunk access code for outgoing call.	<ul style="list-style-type: none"> <li>• Y=044               <ol style="list-style-type: none"> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0-9/00-99: Trunk Access Code</li> </ol> </li> </ul>
CM08	Enable the trunk access code display when a call terminates via ETSI ISDN.	<ol style="list-style-type: none"> <li>(1) 633</li> <li>(2) 0: Available</li> </ol>
B		

B

CM35

**DESCRIPTION****DATA**

Provide the type of number/Numbering Plan Identification of CPN.

**NOTE:** *If the second data is set to "1", the setting data of CM35 Y=230/231 is invalid.*

Specify the type of number for outgoing call.

Specify the Numbering Plan Identification for outgoing call.

- Y=234
- (1) 00-63: B CHANNEL Trunk Route No.
- (2) 0: To provide

- Y=230
- (1) 00-63: B CHANNEL Trunk Route No.
- (2) 00 : Unknown
- 01 : International Number
- 02 : National Number
- 03 : Network Specific Number
- 04 : ISDN Subscriber Number
- 06 : Abbreviated Number
- NONE◀: No data

- Y=231
- (1) 00-63: B CHANNEL Trunk Route No.
- (2) 00 : Unknown
- 01 : ISDN/Telephony Numbering Plan
- 03 : Data Numbering Plan
- 04 : Telex Numbering Plan
- 08 : National Standard Numbering Plan
- 09 : Private Numbering Plan
- NONE◀: No data

END

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## CHANNEL NEGOTIATION

[For EMEA]

**NOTE:** *This feature is not available when using the ISDN telephone.*

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
CM35	Provide the Channel Negotiation to the required trunk route.	<ul style="list-style-type: none"><li>• Y=228</li><li>(1) 00-63: B CHANNEL Trunk Route No.</li><li>(2) 0: To provide</li></ul>
<u>END</u>		



# CONNECTED LINE IDENTIFICATION PRESENTATION (COLP)/CONNECTED LINE IDENTIFICATION RESTRICTION (COLR)

[For EMEA]

START	DESCRIPTION	DATA
CM12	Assign an ISDN Subscriber number and ISDN Local Office Code Table number to the required stations. <b>NOTE 1</b> on <a href="#">Page 3-60</a>	<ul style="list-style-type: none"> <li>Y=12</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X-XXXX: ISDN Subscriber No.</li> </ul>
CM50	Assign ISDN Local Office Code to the Table number assigned by CM12 Y=13.	<ul style="list-style-type: none"> <li>Y=13</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-14: ISDN Local Office Code Table No. 00-14</li> </ul>
CM12	Assign Service Restriction Class B to each station.	<ul style="list-style-type: none"> <li>Y=05</li> <li>(1) 00-14: ISDN Local Office Code Table No. 00-14</li> <li>(2) X...X: Local Office Code (Maximum 12 digits)</li> </ul>
CM12	Assign Service Restriction Class B to each station.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	For a call terminating office, allow the connected line number indication on Multiline Terminal display in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=153</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
	For a call originating office, allow ETSI ISDN Connected Line Identification Presentation (COLP) in Service Restriction Class B assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=154</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
A		

A	DESCRIPTION	DATA
CM35	<p>For a call terminating office, provide the ETSI ISDN Connected Line Identification Presentation (COLP).</p>	<ul style="list-style-type: none"> <li>• Y=220</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: To provide</li> </ul>
	<p>For a call originating office, enable the receiving connected line number from call terminating office in ETSI ISDN Connected Line Identification Presentation (COLP).</p>	<ul style="list-style-type: none"> <li>• Y=221</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0: Available</li> </ul>
	<p>Specify coding type when sending the ISDN Connected Line Identification Presentation (COLP).</p>	<ul style="list-style-type: none"> <li>• Y=267</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Codeset 5 (Spanish specification)</li> <li>1◀: Codeset 0 (ETSI specification)</li> </ul>
CM08	<p>Specify whether the connected line number indication is provided on DESKCON display.</p>	<ul style="list-style-type: none"> <li>(1) 629</li> <li>(2) 0 : Not provided</li> <li>1◀: To provide</li> </ul>
<u>END</u>		

## MALICIOUS CALL TRACE

[Australia Only]

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Malicious Call Trace in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=211</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for Malicious Call Trace.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A170: Malicious Call Trace</li> </ul>
CM35	Provide the ISDN route with Malicious Call Trace.	<ul style="list-style-type: none"> <li>Y=106</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 1◀: To provide</li> </ul>
CM90	Assign the Malicious Call Trace key to the Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F0A70: Malicious Call Trace</li> </ul>
	Assign the Malicious Call Trace key to the DESKCON.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) DESKCON No. (E000-E007) + [ ] + Key No.</li> <li>(2) F6120: Malicious Call Trace</li> </ul>
END		

# CALL COMPLETION TO BUSY SUBSCRIBER (CCBS)

[For EMEA]

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM20</div>	Assign the access code for Call Completion to Busy Subscriber (CCBS).	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access code</li> <li>(2) A004: Call Completion to Busy Subscriber (CCBS) Set</li> <li style="padding-left: 20px;">A005: Call Completion to Busy Subscriber (CCBS) Cancel</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM90</div>	Assign a Call Completion to Busy Subscriber (CCBS) key to the Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F0004: Call Completion to Busy Subscriber (CCBS) Set/Cancel</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CM35</div>	<p>Assign the trunk access code for Call Completion to Busy Subscriber (CCBS).</p> <p>Allow Call Completion to Busy Subscriber (CCBS) Set from calling party, to each trunk route.</p> <p>Allow Call Completion to Busy Subscriber (CCBS) Set to called party, to each trunk route.</p>	<ul style="list-style-type: none"> <li>• Y=044</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0-9/00-99: Trunk Access Code</li> <li>• Y=277</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Allow</li> <li style="padding-left: 20px;">1◀: Restricted</li> <li>• Y=278</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 0 : Allow</li> <li style="padding-left: 20px;">1◀: Restricted</li> </ul>
<div style="border: 1px solid black; padding: 5px; width: 20px; margin: 0 auto;">A</div>		

A	DESCRIPTION	DATA
CM12	<p>Assign Service Restriction Class B to each station.</p> <p>Assign an ISDN Subscriber number and ISDN Local Office Code Table number to the required stations. <b>NOTE 1</b> on <a href="#">Page 3-60</a></p>	<ul style="list-style-type: none"> <li>• Y=02               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ol> </li> <li>• Y=12               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X-XXXX: ISDN Subscriber No. NONE◀: No data</li> </ol> </li> <li>• Y=13               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 00-14: ISDN Local Office Code Table No. 00-14 15◀: No data</li> </ol> </li> </ul>
CM13	<p>Specify whether to provide the facility control of Calling Party Number (CPN).</p>	<ul style="list-style-type: none"> <li>• Y=25               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 0 : Not provided ] <b>NOTE 2</b> on 1◀: To provide ] <a href="#">Page 3-61</a></li> </ol> </li> </ul>
CM15	<p>Allow Call Completion to Busy Subscriber (CCBS) Set from calling party in Service Restriction Class B assigned by CM12 Y=02.</p> <p>Allow Call Completion to Busy Subscriber (CCBS) Set to called party in Service Restriction Class B assigned by CM12 Y=02</p>	<ul style="list-style-type: none"> <li>• Y=157               <ol style="list-style-type: none"> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ol> </li> <li>• Y=158               <ol style="list-style-type: none"> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ol> </li> </ul>
CM50	<p>Assign ISDN Local Office Code to the Table number assigned by CM12 Y=13.</p>	<ul style="list-style-type: none"> <li>• Y=05               <ol style="list-style-type: none"> <li>(1) 00-14: ISDN Local Office Code Table No. 00-14</li> <li>(2) X...X : Local Office Code (Maximum 12 digits) NONE◀: No data</li> </ol> </li> </ul>
<u>END</u>		

## ISDN-VPN PROGRAMMING

START	DESCRIPTION	DATA
CM20	Assign the access code for LCR Group 0-3.	<ul style="list-style-type: none"> <li>Y=0-3 Number Plan Group 0-3</li> </ul> <ol style="list-style-type: none"> <li>X-XXXX: Access Code</li> <li>A126: LCR Group 0 A127: LCR Group 1 A128: LCR Group 2 A129: LCR Group 3</li> </ol>
CM90	Assign the LCR Group key on the Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>Y=00</li> </ul> <ol style="list-style-type: none"> <li>My Line No. + <input type="text"/> + Key No.</li> <li>F0A26: LCR Group 0 F0A27: LCR Group 1 F0A28: LCR Group 2</li> </ol>
CM8A	Assign an Area Code Development Pattern number to each LCR Group.	<ul style="list-style-type: none"> <li>Y=A000</li> </ul> <ol style="list-style-type: none"> <li>0-3: LCR Group 0-3</li> <li>4005-4007: Area Code Development Pattern No. 5-7</li> </ol>
	Assign a Route Pattern number to each area code for the Area Code Development Pattern number assigned by CM8A Y=A000.	<ul style="list-style-type: none"> <li>Y=4005-4007 Area Code Development Pattern No. 5-7</li> </ul> <ol style="list-style-type: none"> <li>X...X: Area Code, Maximum 8 digits</li> <li>0000-0255: Route Pattern No. 000-255</li> </ol>
	Specify the order of LCR selection for the Route Pattern number assigned by CM8A Y=4005-4007.	<ul style="list-style-type: none"> <li>Y=0000-0255 Route Pattern No. 000-255</li> </ul> <ol style="list-style-type: none"> <li>1-4: Order of LCR Selection           <ol style="list-style-type: none"> <li>1: 1st</li> <li>2: 2nd</li> <li>3: 3rd</li> <li>4: 4th</li> </ol> </li> <li>XXX ZZ XXX: 000-255: LCR Pattern No. ZZ : 00-63: Trunk Route No.</li> </ol>
A		

A	DESCRIPTION	DATA
CM8A	For area code addition, designate the digits to be added.	<ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>(1) 100: Designation of digit Addition Pattern No.</li> <li>(2) 9000-9255: Digit Addition Pattern No. 000-255</li> <li>NONE◀ : No digit addition</li> </ul>
	To delete the designated digit of an area code assigned by CM8A Y=4005-4007:	<ul style="list-style-type: none"> <li>• Y=9000-9255: Digit Addition Pattern No. 00-255</li> <li>(1) 0: Entry of digit code to be added</li> <li>(2) X-X...X: Digits to be added (Maximum 32 digits)</li> </ul> <ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>(1) 153: Designation of digit to be deleted from area code assigned by CM8A Y=4005-4007</li> <li>(2) 00 : No digit deletion 01-10 : Leading 1-10 digits deletion NONE◀: No digit deletion</li> </ul>
	Enable the sending an area code to ISDN as a Called Party Subaddress.	<ul style="list-style-type: none"> <li>• Y=5000-5255</li> <li>(1) 155: Designation of sending area code as a Called Party Subaddress</li> <li>(2) 0: Available</li> </ul>
CM85	Specify the maximum number of sending digits to be Dialed by Calling Party.	<ul style="list-style-type: none"> <li>• Y=0-7 Area Code Development Pattern No. 0-7 assigned by CM8A Y=A000</li> <li>(1) X-X...X: Area code dialed, Maximum 8 digits</li> <li>(2) 01-79: 1 digit-79 digits 24◀ : 24 digits</li> </ul>
	The maximum number of sending digits including the area codes should be assigned to each area code.	
CM35	Assign the Area Code Development Pattern number for Toll Restriction and maximum digit analysis to each trunk route.	<ul style="list-style-type: none"> <li>• Y=076</li> <li>(1) 00-63: B CHANNEL Trunk Route No.</li> <li>(2) 00-07: Area Code Development Pattern No. 0-7 15◀ : Not used</li> </ul>
END		

# ISDN TELEPHONE DATA PROGRAMMING

## BRT ASSIGNMENT

START	DESCRIPTION	DATA
CM05	Assign a Unit and Slot number to the BRT blade.	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 60: BRT blade</li> </ul>
	BLADE RESET	
	Assign a Trunk blade number to the BRT blade.	<ul style="list-style-type: none"> <li>Y=1</li> <li>(1) XX ZZ XX: 01-50: Unit No. ZZ : 01-18: Slot No.</li> <li>(2) 000-127: Trunk blade No.</li> </ul>
	BLADE RESET	
CM10	Assign an ISDN line station number to the required Physical Port number.	<ul style="list-style-type: none"> <li>Y=00</li> <li>(1) XX YY ZZ: Physical Port No. XX: 01-50: Unit No. YY: 01-18: Slot No. ZZ : 01-32: Circuit No.</li> <li>(2) EFX-EFXXXXXXXXX: ISDN Line Station No.</li> </ul>
CM12	Assign a Tenant number to each ISDN line station number.	<ul style="list-style-type: none"> <li>Y=04</li> <li>(1) X-XXXXXXXXX: ISDN Line Station No.</li> <li>(2) 00-63: Tenant No. 01◀ : Tenant No.</li> </ul>
	Assign a Trunk Restriction Class to each ISDN line station number, if required.	<ul style="list-style-type: none"> <li>Y=01</li> <li>(1) X-XXXXXXXXX: ISDN Line Station No.</li> <li>(2) X Z: Trunk Restriction Class X: 1◀-8: Trunk Restriction Class in Day Mode Z: 1◀-8: Trunk Restriction Class in Night Mode</li> <li>1: Unrestricted (RCA)</li> <li>2: Non-Restricted 1 (RCB)</li> <li>3: Non-Restricted 2 (RCC)</li> <li>4: Semi-Restricted 1 (RCD)</li> <li>5: Semi-Restricted 2 (RCE)</li> <li>6: Restricted 1 (RCF)</li> <li>7: Restricted 2 (RCG)</li> <li>8: Fully-Restricted (RCH)</li> </ul>
A		



A	DESCRIPTION	DATA
CM12	<p>Assign an ISDN Subscriber number to the required ISDN line station number, if required.</p> <p>Assign a Local Office Code Table number to the required ISDN line station number, if required.</p>	<ul style="list-style-type: none"> <li>• Y=12               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: ISDN Line Station No.</li> <li>(2) X-XXXX: ISDN Subscriber No.</li> </ol>               NONE◀: No data             </li> <li>• Y=13               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: ISDN Line Station No.</li> <li>(2) 00-14: ISDN Local Office Code Table No.</li> </ol>               00-14                15◀: No data             </li> </ul>
CM13	<p>Provide the Call Charge Service to the required stations.</p> <p>Specify whether to provide the facility control of Calling Party Number (CPN), if required.</p> <p><b>NOTE:</b> <i>This command is effective when sending a Calling Party Number (CPN) to ISDN.</i></p>	<ul style="list-style-type: none"> <li>• Y=06               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 1◀: To provide</li> </ol> </li> <li>• Y=25               <ol style="list-style-type: none"> <li>(1) X-XXXXXXXX: ISDN Line Station No.</li> <li>(2) 0 : To provide <b>[For Australia]</b>/Not provided <b>[Other than Australia]</b></li> </ol>               1◀: Not provided <b>[For Australia]</b>/To provided <b>[Other than Australia]</b> </li> </ul>
CM29	Assign a Numbering Plan Group number to each tenant.	<ol style="list-style-type: none"> <li>(1) 00-63: Tenant No.</li> <li>(2) 710-713 : Numbering Plan Group 0-3</li> </ol> NONE◀: Numbering Plan Group 0
CM20	Assign the digit number of ISDN line station number.	<ul style="list-style-type: none"> <li>• Y=0-3               <ol style="list-style-type: none"> <li>(1) X-XXXX: Access Code</li> <li>(2) 801-808: 1-8 digits</li> </ol> </li> </ul>
CM08	<p>Specify whether the subaddress is sent to ISDN when making a call from ISDN Telephone, if required.</p> <p>Specify the Calling Party Subaddress which is sent to ISDN when making a call from ISDN Telephone, if required.</p> <p>Specify the forced release when a called ISDN Telephone does not answer for 3 minutes, if required.</p>	<ol style="list-style-type: none"> <li>(1) 430</li> <li>(2) 0 : To send (As per CM08&gt;431)</li> </ol> 1◀: Not sent
		<ol style="list-style-type: none"> <li>(1) 431</li> <li>(2) 0 : ISDN Line Station No. assigned by CM10 Y=00</li> </ol> 1◀: ISDN Telephone No.
		<ol style="list-style-type: none"> <li>(1) 432</li> <li>(2) 0 : Not available</li> </ol> 1◀: Available
B		

B	DESCRIPTION	DATA
CM08	<p>Assign Calling Party Number (CPN) which is sent to ISDN when making a call from ISDN Telephone, if required.</p> <p>Specify the calling number, which is sent to ISDN Telephone from Single Line Telephone/Multiline Terminal (for station to station call).</p> <p>Allow sending extension information of Low layer Compatibility (LLC) information element for connection between ISDN Telephones/ISDN trunks.</p>	<p>(1) 434</p> <p>(2) 0 : CPN entered in ISDN Telephone 1◀: CPN assigned by CM12 Y=12/13</p> <p>(1) 584</p> <p>(2) 0 : Calling Party No. (assigned by CM12 Y=12, 13) <b>NOTE</b> 1◀: Originating Station No.</p> <p>(1) 722</p> <p>(2) 0: Allow</p>
CME5	<p>Specify whether to make B CHANNEL (B1, B2) for ISDN Telephone busy, if required.</p>	<ul style="list-style-type: none"> <li>• Y=2</li> </ul> <p>(1) XXXXXXXX <input type="checkbox"/> Z XXXXXXX: ISDN Line Station No. Z: 0: B1 CHANNEL 1: B2 CHANNEL</p> <p>(2) 0 : Make busy 1◀: In service</p>
CMAC	<p>Assign the ISDN line station number to the ISDN Circuit number of BRT (GCD-2BRIA) blade.</p> <p style="text-align: right;">(RESET)</p> <p>Allow sending extension information of Low layer Compatibility (LLC) information element for connection between ISDN telephones/ISDN trunks.</p> <p style="text-align: right;">(RESET)</p> <p>Assign the type of power supply for ISDN telephone.</p> <p style="text-align: right;">(RESET)</p>	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> <p>(1) XX Z XX: 00-31:D CHANNEL No. controls ISDN telephone Z : 0-3: ISDN Circuit No.</p> <p>(2) X-XXXXXXXX: ISDN Line Station No.</p> <ul style="list-style-type: none"> <li>• Y=11</li> </ul> <p>(1) XX Z XX: 00-31:D CHANNEL No. controls ISDN telephone Z : 0-3: ISDN Circuit No.</p> <p>(2) 0: Allow</p> <ul style="list-style-type: none"> <li>• Y=16</li> </ul> <p>(1) XX Z XX: 00-31:D CHANNEL No. controls ISDN telephone Z : 0-3: ISDN Circuit No.</p> <p>(2) 0 : Power supply from the system 1◀: Local power supply</p>
C		

C	DESCRIPTION	DATA
CMAA	Assign the protocol type for ISDN Telephone to the Trunk blade number assigned by CM05. <div style="border: 1px solid black; border-radius: 15px; padding: 2px; display: inline-block;">BLADE RESET</div>	<ul style="list-style-type: none"> <li>• Y=06</li> <li>(1) 000-127: Trunk blade No. of BRT (GCD-2BRIA) assigned by CM05 Y=1</li> <li>(2) ISDN Protocol Type               <ul style="list-style-type: none"> <li>17: Australia</li> <li>18: New Zealand</li> <li>20: AT&amp;T (#4, #5 ESS)</li> <li>21: NTI (DMS 100, 250)</li> <li>22: Australia ETSI</li> <li>24: ETSI Standard (Brazil, Columbia, Indonesia, UAE)</li> <li>25: ITU-T Standard (Thailand)</li> <li>27: USA NI-1</li> <li>28: USA NI-2</li> <li>31: Germany</li> <li><b>[For EMEA]</b></li> <li>32: Netherlands/Greece/Luxembourg/Portugal/Spain/Sweden</li> <li><b>[For EMEA]</b></li> <li>33: Italy</li> <li><b>[For EMEA]</b></li> <li>63◀: Not used</li> </ul> </li> </ul>
END		

**NOTE:** *The calling party number consists of the following numbers.  
Calling party number: YYYY*

└───┬───┘  
      └───┬───┘ ISDN subscriber No. assigned by CM12 Y=12 (1-4 digits)

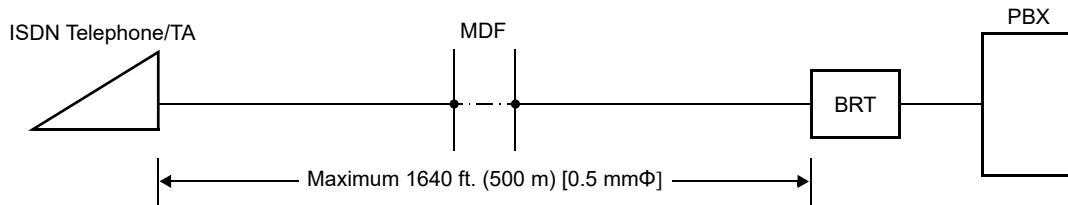
*For example:*

*In this case, the Calling Party Number is 5000.*

*That is*

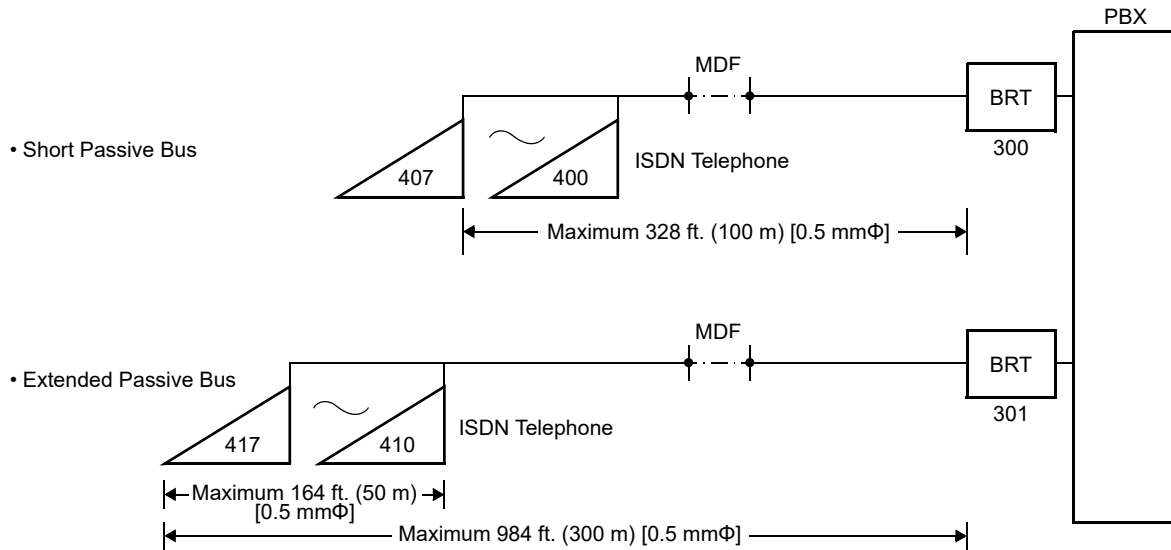
*ISDN Subscribers No. assigned by CM12 Y=12 is 5000.*

## POINT-TO-POINT CONNECTION



START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CMAC</div>	Assign the point-to-point connection as the Layer 2 data link. <div style="text-align: center; border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin: 10px auto;">RESET</div>	<ul style="list-style-type: none"> <li>• Y=01</li> <li>(1) XX Z                          XX: 00-31:D CHANNEL No. controls ISDN telephone                          Z : 0-3: ISDN Circuit No.</li> <li>(2) 0: Point-to-Point Connection</li> </ul>
	<p><b>NOTE:</b> <i>When point-to-point connection is selected, the PBX will address the BRI terminal with channel select (B1/B2) message. Some BRI terminals cannot answer the call with this type of signaling. Some of the BRI terminals require a Calling Party Number sent from the PBX. In this case, use point-to-multipoint for CMAC Y=01 and CMIB to assign extension number for the BRI terminal.</i></p>	
	Assign the Extended Passive Bus. <div style="text-align: center; border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin: 10px auto;">RESET</div>	<ul style="list-style-type: none"> <li>• Y=03</li> <li>(1) XX Z                          XX: 00-31:D CHANNEL No. controls ISDN telephone                          Z : 0-3: ISDN Circuit No.</li> <li>(2) 0: Extended Passive Bus</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

POINT-TO-MULTIPOINT CONNECTION



START	DESCRIPTION	DATA
CMAC	Assign the point-to-multipoint connection as the Layer 2 data link.	<ul style="list-style-type: none"> <li>Y=01</li> <li>(1) XX Z XX: 00-31:D CHANNEL No. controls ISDN telephone Z : 0-3: ISDN Circuit No.</li> <li>(2) 1◀: Point-to-Multipoint Connection</li> </ul>
	Specify the kind of passive bus in point-to-multipoint connection.	<ul style="list-style-type: none"> <li>Y=03</li> <li>(1) XX Z XX: 00-31:D CHANNEL No. controls ISDN telephone Z : 0-3: ISDN Circuit No.</li> <li>(2) 0 : Extended Passive Bus 1◀: Short Passive Bus</li> </ul>
CM1B	Assign an ISDN Telephone Multipoint station number to the ISDN Line station number.	<ul style="list-style-type: none"> <li>(1) XXXXXXXX [ ] Z XXXXXXX: ISDN Line Station No. assigned by CM10 Y=00 Z: 0-7: ISDN Multipoint No.</li> <li>(2) X-XXXXXXX: ISDN Telephone Multipoint Station No.</li> </ul>
END	<p><b>NOTE:</b> The numbers assigned in this command are station numbers that are to be programmed in the BRI terminal. CM12 Y=12 will use the station assignment from CM10 Y=00.</p>	

BRI Programming Example:

The following is an example of common BRI Station Programming.

CM1000 010101>EF2125	CM1B>2125, 0>2225*
010102>EF2126	2125, 1>2226
	2
CMAC00>001-2125	ι >None
002-2126	7
	2126, 0>2235*
CMAC01>011-1	2126, 1>2236*
012-1	2
	ι >None
CMAC03>011-1	7
012-1	
CMAC06>011-1	
012-1	

\* Ext. 2225 and others assigned in CM1B are the extension numbers that should be entered into the BRI terminals. Most BRI terminals require a 10 digits number.

If the BRI terminals require a SPID **[North America Only]**, it is common to add a 3 digits number to the main number.

For example;

Main number (1): 214-555-2225

Main number (2): 214-555-2226

SPID (1) : 214-555-2225123

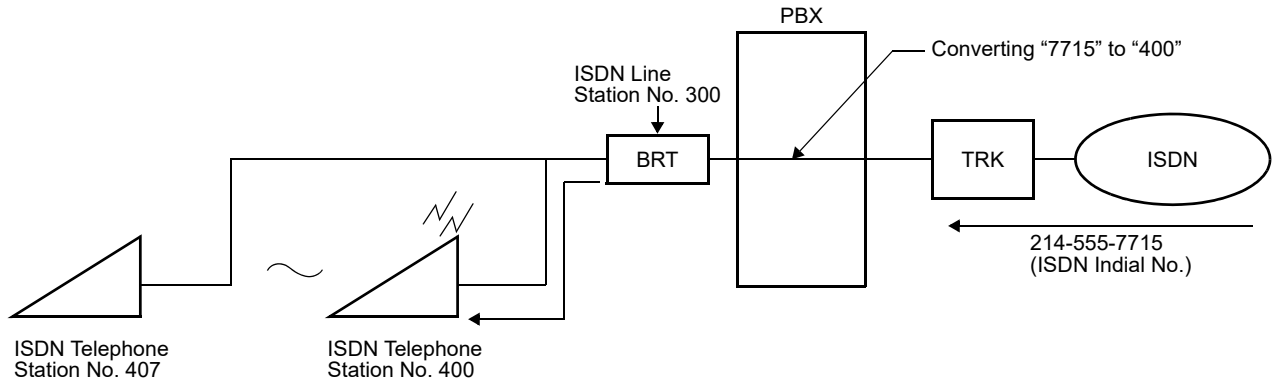
SPID (2) : 214-555-2226123

SPIDs are required for NI-1 protocol and AT&T Point-to-Multipoint. Devices that are set as AT&T Point-to-Point do not use SPIDs.

## INDIVIDUAL TERMINAL CALL

### (1) ISDN Indial

When receiving an ISDN Telephone station number as the ISDN Indial number, or when converting an ISDN Indial number to an ISDN Telephone station number by CM76, the system connects the call with the specified ISDN Telephone or Terminal Adapter (TA) on the same bus (2B + D).



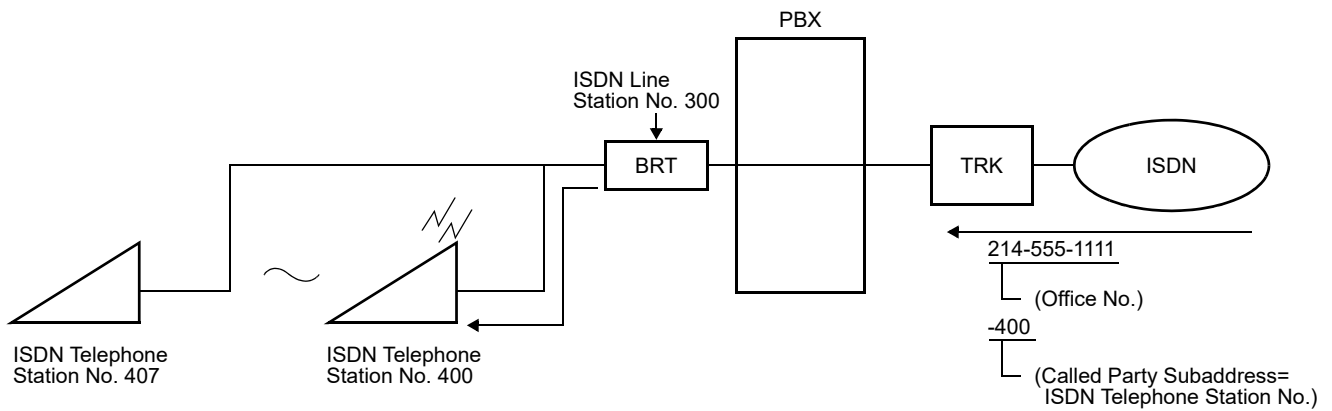
Do the following programming:

“DID ADDRESSING” [Page 3-54](#)

“POINT-TO-MULTIPOINT CONNECTION” [Page 3-117](#)

(2) Called Party Subaddress

When the system has received a Called Party Subaddress (ISDN Telephone station number) from an ISDN Subscriber, the system connects the call with the specified ISDN Telephone or TA on the same bus (2B + D).



Do the following programming:

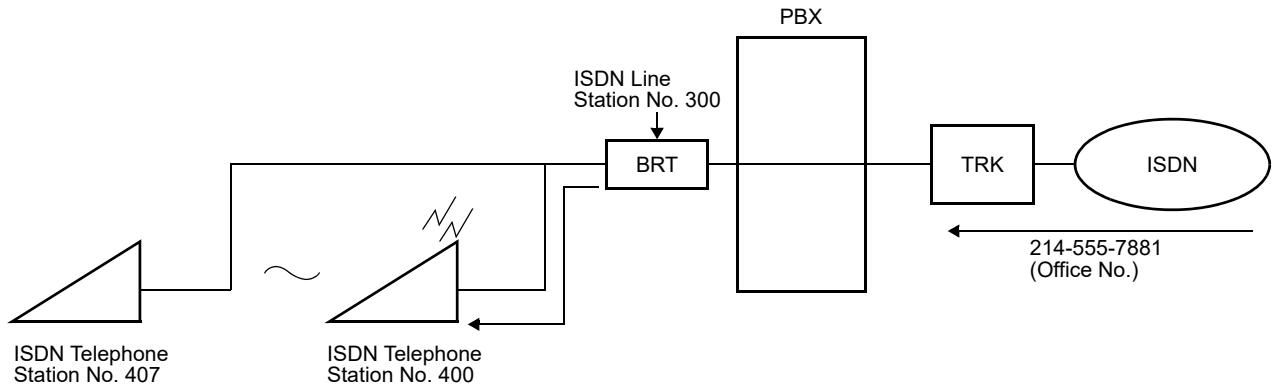
“SUBADDRESS-PRESENT” [Page 3-75](#)

“POINT-TO-MULTIPOINT CONNECTION” [Page 3-117](#)



(3) Direct In Termination (DIT)

When the ISDN Telephone station number is assigned as the destination of DIT, the system connects the call with the specified ISDN Telephone or TA on the same bus (2B + D).

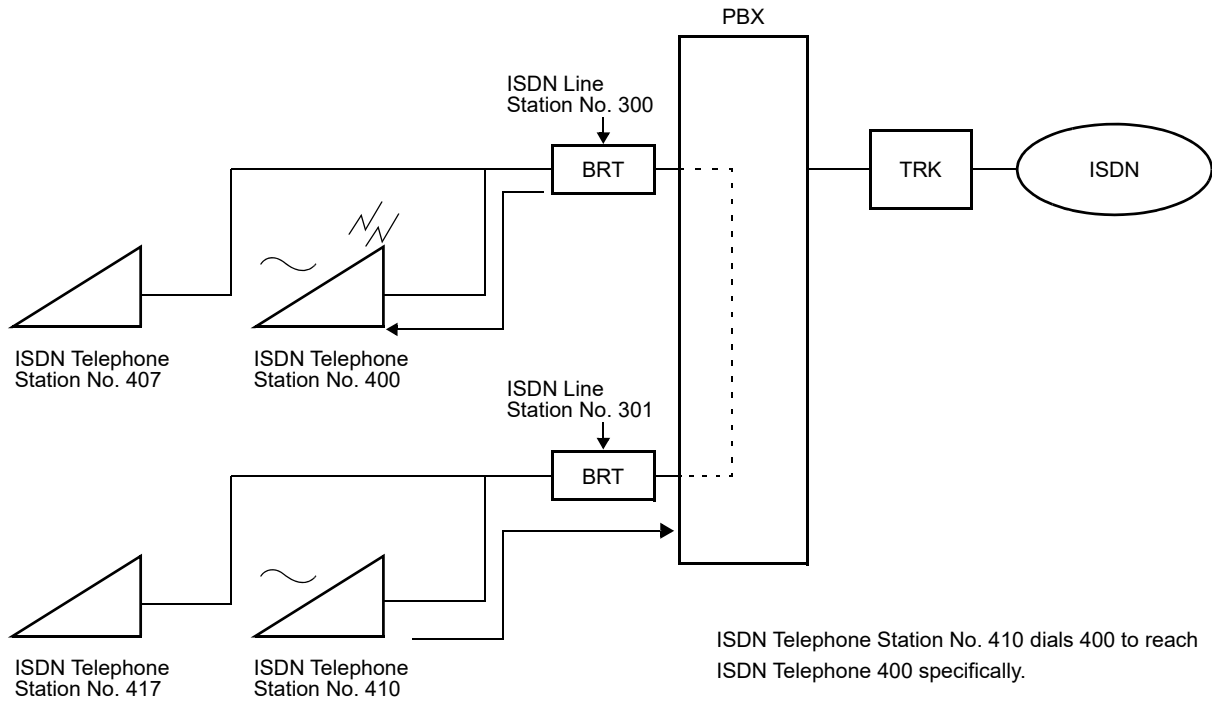


In addition to the programming of “POINT-TO-MULTIPOINT CONNECTION” [Page 3-117](#), do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">CM30</div>	<p>Assign the data for DIT to the trunk numbers assigned by CM10 Y=00.</p> <p>Assign the ISDN Telephone station number to be terminated by Direct In Termination.</p>	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> </ul> <p>(1) 000-511: Trunk No. assigned by CM10 Y=00</p> <p>(2) 04: Direct-In Termination</p> <ul style="list-style-type: none"> <li>• Y=04 Day Mode</li> <li>• Y=05 Night Mode</li> <li>• Y=42 Mode A</li> <li>• Y=43 Mode B</li> </ul> <p>(1) 000-511: Trunk No. assigned by CM10 Y=00</p> <p>(2) X-XXXXXXXX: ISDN Telephone Station No.</p>
<div style="border: 1px solid black; padding: 5px; width: fit-content;">END</div>		

(4) Station-to-Station Calling

When an ISDN Telephone user dials an ISDN Telephone station number within the system, the system connects the call with the specified ISDN Telephone.

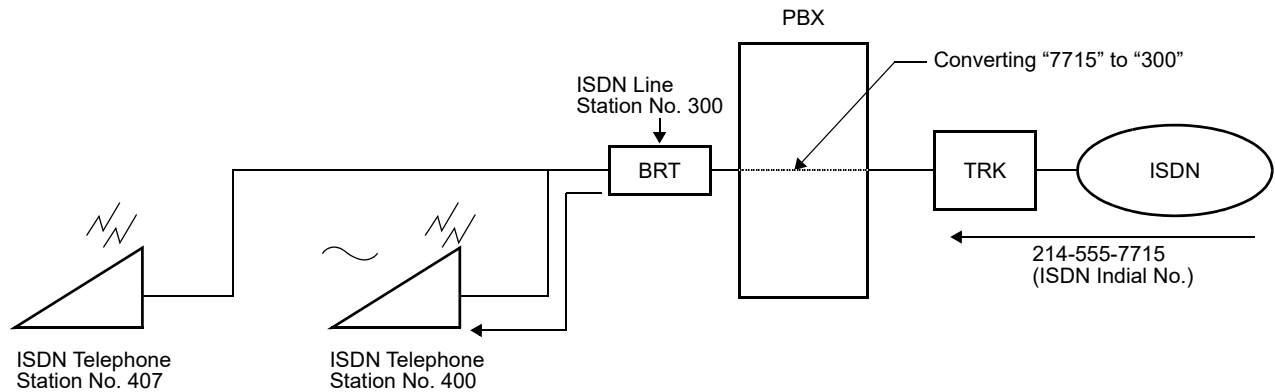


Do the programming of “POINT-TO-MULTIPOINT CONNECTION”. [Page 3-117](#)

## GROUP CALL

### (1) ISDN Indial

When receiving an ISDN line station number as ISDN Indial number, or when converting an ISDN Indial number to an ISDN line station number by CM76, the system connects the call with all ISDN Telephones or Terminal Adapters (TA) on the same bus (2B + D).



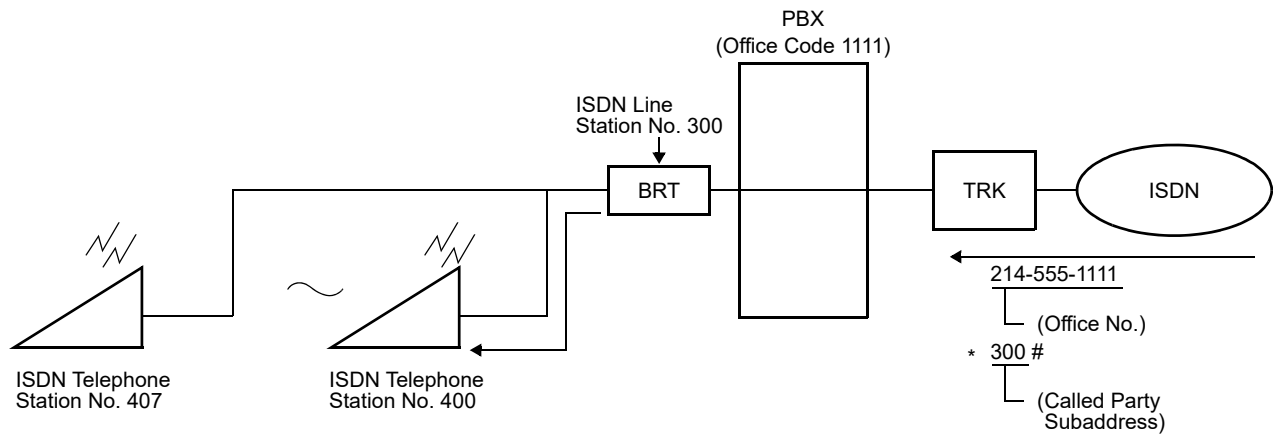
Do the following programming:

“DID ADDRESSING” [Page 3-54](#)

“POINT-TO-MULTIPOINT CONNECTION” [Page 3-117](#)

(2) Called Party Subaddress

When receiving an ISDN line station number as the Called Party Subaddress, the system connects the call with all ISDN Telephones or Terminal Adapters (TA) on the same bus (2B + D).



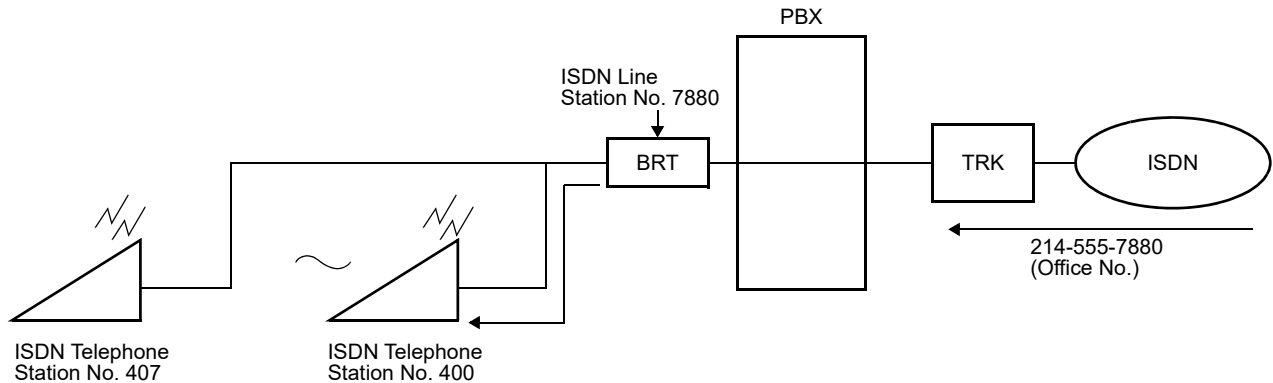
Do the following programming:

“SUBADDRESS-PRESENT” [Page 3-75](#)

“POINT-TO-MULTIPOINT CONNECTION” [Page 3-117](#)

(3) Direct In Termination (DIT)

When the ISDN line station number is assigned as the destination of DIT, the call from ISDN terminates all ISDN Telephones on the same bus (2B + D) simultaneously.

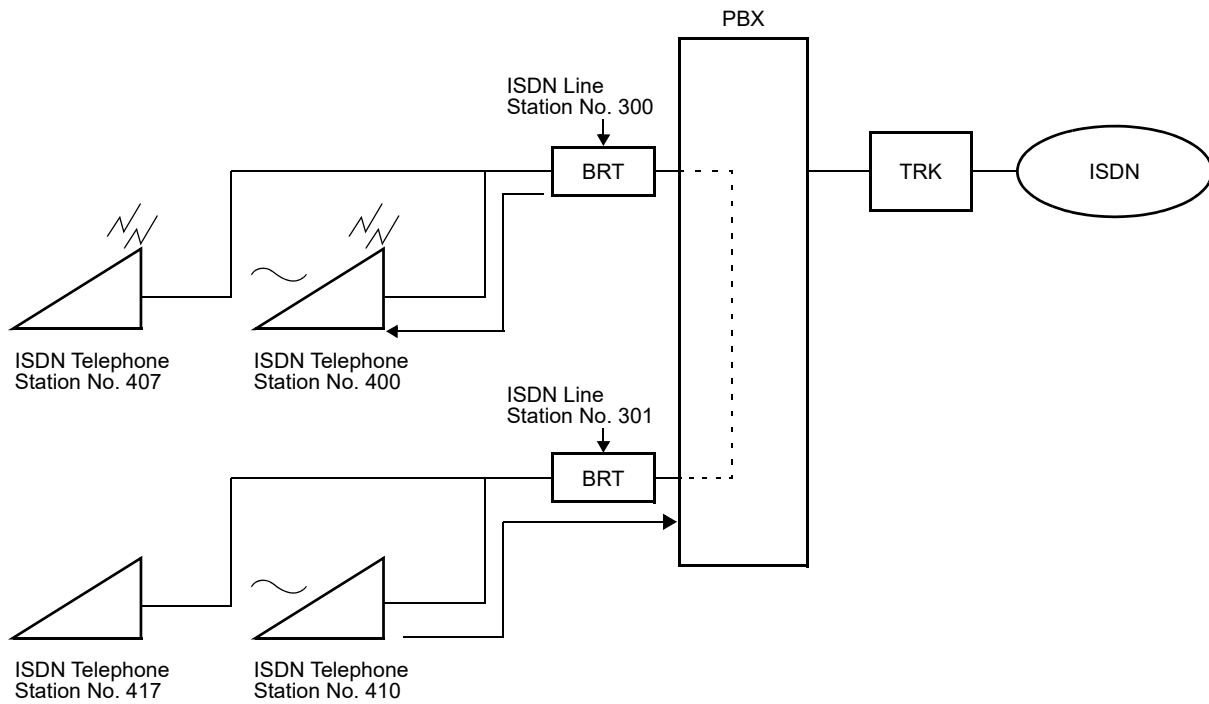


In addition to the programming of “POINT-TO-MULTIPOINT CONNECTION” [Page 3-117](#), do the following programming.

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">CM30</div>	<p>Assign the data for DIT to the trunk numbers assigned by CM10 Y=00.</p>	<ul style="list-style-type: none"> <li>• Y=02 Day Mode</li> <li>• Y=03 Night Mode</li> <li>• Y=40 Mode A</li> <li>• Y=41 Mode B</li> </ul> <p>(1) 000-511: Trunk No. assigned by CM10 Y=00</p> <p>(2) 04: Direct-In Termination</p>
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">END</div>	<p>Assign the ISDN Telephone station number to be terminated by Direct In Termination.</p>	<ul style="list-style-type: none"> <li>• Y=04 Day Mode</li> <li>• Y=05 Night Mode</li> <li>• Y=42 Mode A</li> <li>• Y=43 Mode B</li> </ul> <p>(1) 000-511: Trunk No. assigned by CM10 Y=00</p> <p>(2) X-XXXXXXXX: ISDN Telephone Station No.</p>

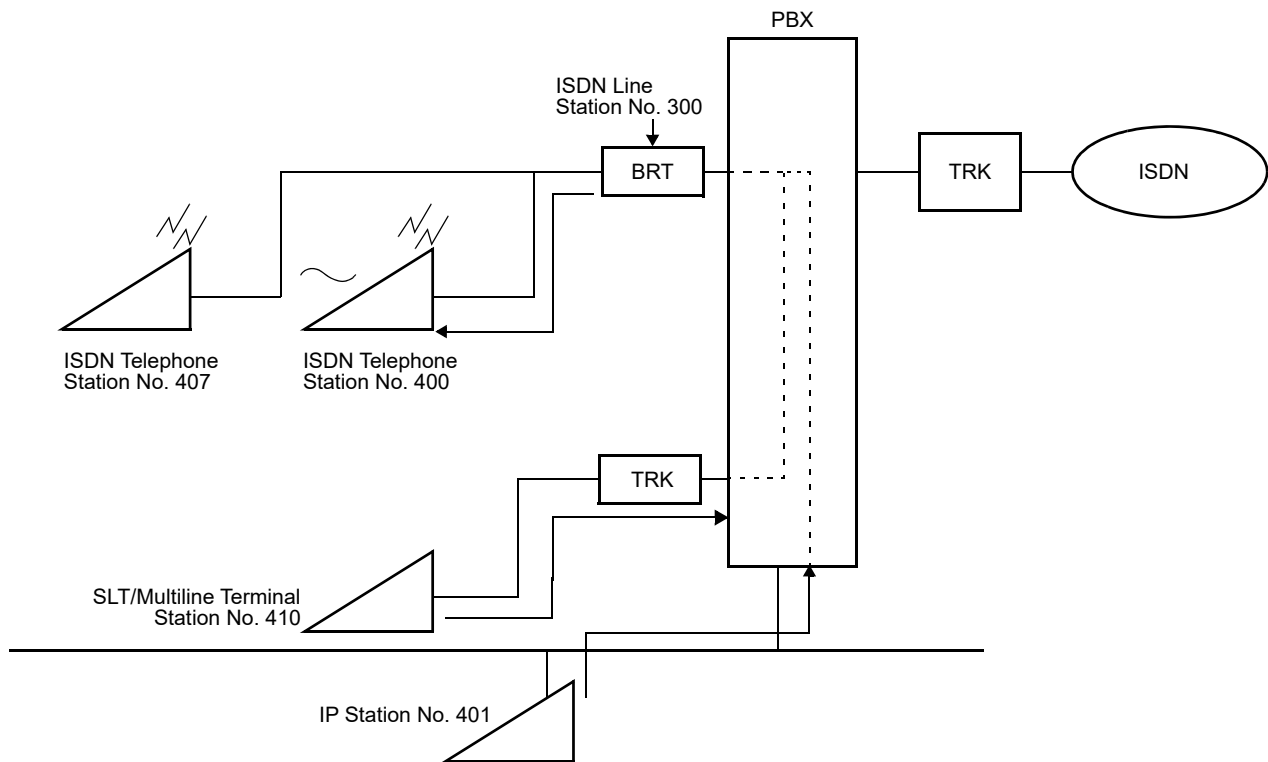
(4) Station-to-Station Calling

- When an ISDN Telephone user dials an ISDN line station number within the system, the system connects the call with all ISDN Telephones.



Do the programming of “POINT-TO-MULTIPOINT CONNECTION”. [Page 3-117](#)

- When Single Line Telephone, Multiline Terminal or IP Station user dials an ISDN line station number within the system, the system connects the call with all ISDN Telephones.



In addition to the programming of “POINT-TO-MULTIPOINT CONNECTION”

[Page 3-117](#), do the following programming.

START	DESCRIPTION	DATA
CM08	Provide the system with the voice communication between ISDN telephone group and Single Line Telephone/Multiline Terminal within the system.	(1) 527 (2) 0: Provide
END		

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# ***OPEN APPLICATION INTERFACE (OAI) FEATURES***

This chapter gives an overview of the OAI features.

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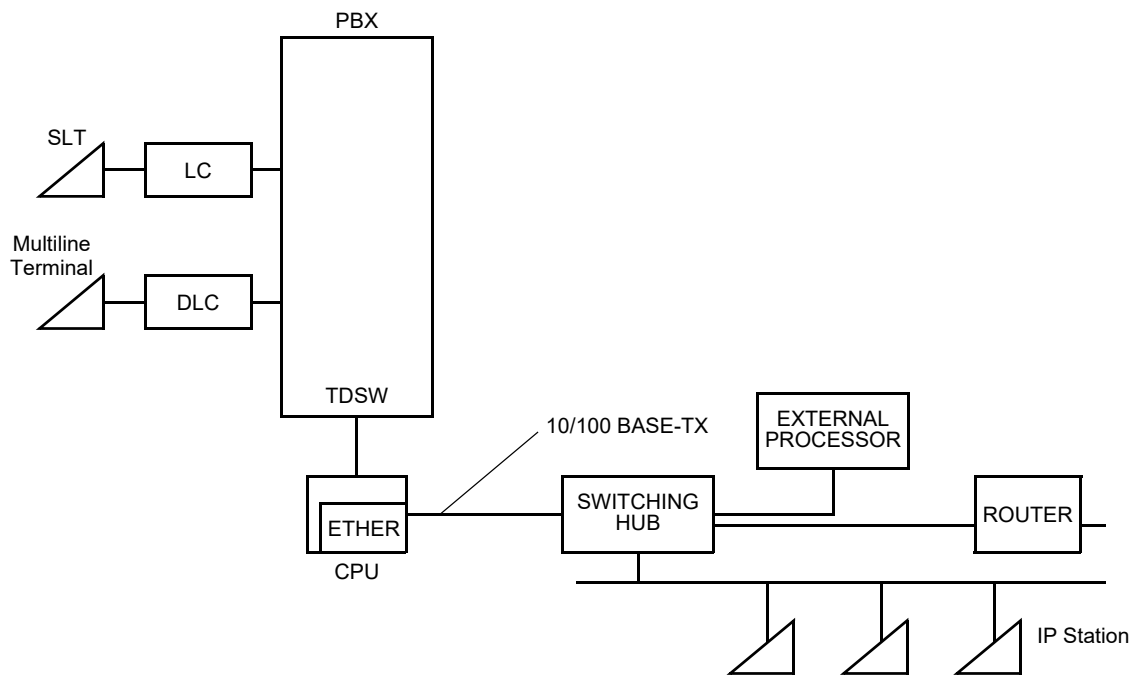
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## ***OAI SYSTEM OUTLINE***

The PBX is equipped with an interface to provide user applications through an external processor, which transmits/receives the control signals between the PBX and the Ethernet. The interface supports TCP/IP protocol.

The following figure shows the system outline of OAI.

**System Outline of OAI**



\* The number of connections of OAI application is up to four.

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## ***OAI SYSTEM CONDITIONS***

The following interfaces are not available.

- OAI with RS-232C
- FLF **[For North America]**

## ***LIST OF OAI COMMANDS***

The following table shows the commands related to the OAI with each facility (MSF, TMF etc.).

### **List of OAI Commands**

<b>ITEM</b>	<b>COMMAND CODE</b>	<b>1ST DATA</b>	<b>2ND DATA</b>	<b>MEANING</b>
BASIC DATA	CM0B Y=001/101	00	XXX.XXX. XXX.XXX	IP Address for the system
	CM0B Y=001/101	01	XXX.XXX. XXX.XXX	Subnet Mask for the system
	CM0B Y=001/101	02	XXX.XXX. XXX.XXX	Default Gateway for the system
	CM0B Y=001/101	91	0/1	Select the port for OAI
	CM0B Y=001/101	41	0/1/2/3	Port No. for OAI
	CMD7 Y=5	00	X-XXXX	Office No. for OAI
MSF	CM12 Y=02	Station No.	00-15	Service Restriction Class
	CM15 Y=059	00-15	1	
	CM20 Y=0-3	Access Code	A084	MSF Access Code
	CM20 Y=0-3	Access Code	A100-A102	Voice Response System Access Code
	CM41 Y=0	56	01-99	Message Replay Timer/Tone Sending Timer
	CM49 Y=00	000-015	10	Announcement Service for OAI
	CM90 Y=00	My Line No. + [ ] + Key No.	F1032-F1047	OAI Function Key
	CMD7 Y=0	F1032-F1047	128-191	MSF Operation Code
	CMD7 Y=0	F1032-F1047	DCX (X=1-3)	Digit Number of Digit Code
	CMD7 Y=1	Access Code	128-191	MSF Operation Code
	CMD7 Y=2	000-127	1000-1015	Voice Response System No.
	CMD7 Y=3	00	000-127	RR Timer
CMD7 Y=4	00	01-32	Maximum number of terminals to be in MSF simultaneously (1-32 terminals)	

Continued on next page

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**List of OAI Commands**

ITEM	COMMAND CODE	1ST DATA	2ND DATA	MEANING
MSF	CMD7 Y=6	Digit Code	128-191	MSF Operation Code
	CMD7 Y=7	F1032-F1047	00/01	Chime from Multiline Terminal when Receiving RR Signal
TMF	CM90 Y=00	My Line No. + □ + Key No.	F1032-F1047	OAI Function Key
	CMD7 Y=0	F1032-F1047	192-255	TMF Operation Code
	CMD7 Y=0	F1032-F1047	DCX (X=1-3)	Digit Number of Digit Code
	CMD7 Y=3	00	000-127	RR Timer
	CMD7 Y=4	01	00-32	Maximum number of terminals to be in TMF simultaneously per system (2-63 terminals)
	CMD7 Y=6	Digit Code	192-255	TMF Operation Code
	CMD7 Y=7	F1032-F1047	00/01	Chime from Multiline Terminal when Receiving RR Signal
	CMD7 Y=8	00-03	00/01	Chime from Multiline Terminal, Display guidance when setting up TMF
MRF	CMD7 Y=A	0B	0/1	Chime sending out at the time (MRFR, MRFI) terminal mode release
SCF	CM08	043	0/1	System Speed Dialing Security
	CM08	044	0/1	Toll Restriction
	CM08	045	0/1	Warning Tone
	CM08	465	0/1	SCF error detail/SCF error kind
	CM08	534	0/1	System operation when a station that has a C.O. call on consultation hold
	CM08	669	0	Sending the station status type to the destination office when the Multiline Terminal/DESKCON calls a station set the DND over CCIS

Continued on next page

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**List of OAI Commands**

ITEM	COMMAND CODE	1ST DATA	2ND DATA	MEANING
SCF	CM08	809	0/1	Exchange of trunk when answering an Exclusive hold call
	CM08	816	0/1	Setting of line/trunk which is set to 3rd party line of OAI SMFN
	CM08	839	0	Sending OAI SMFN with intermediate information via OAI queue
	CM08	846	0/1	Setting CAMP ON to the destination when Call Forwarding-All Calls is set by SCF FID=19
	CM11	0000-0999	Virtual Line No.	Virtual Line No.
	CM12 Y=02	Station No.	00-15	Service Restriction Class
	CM15 Y=005	00-15	1	
	CM15 Y=006	00-15	1	
	CM15 Y=009	00-15	1	
	CM17 Y=0	Station No.	Another Station No.	UCD Group
	CM17 Y=1	Station No.	2/3	Member station/Pilot station
	CM17 Y=2	Station No.	00-99	UCD Group No.
	CM17 Y=A	Station No.	0/1	Method of Sending Multi-Connection Announcement
	CM20 Y=0-3	Access Code	A006	Executive Right of Way (Executive Override)
	CM20 Y=0-3	Access Code	A067	System Speed Dialing Origination
	CM20 Y=0-3	Access Code	A243	System Speed Dialing Origination (1-8 digits Abbreviated Code)
CM29	Tenant No.	710-713	Numbering Plan Group	
CM35 Y=059	00-63	1	DID Call Waiting Trunk Route No.	

Continued on next page

## List of OAI Commands

ITEM	COMMAND CODE	1ST DATA	2ND DATA	MEANING
SCF	CM41 Y=0	65	01-99	OAI SCF Ringing Timer
	CM41 Y=0	67	01-99	OAI Announcement Connection Timer
	CM42	10	01-10	Maximum number of digits for Account Code
	CM42	77	01-08	Number of digits for abbreviated code
	CM49 Y=00	000-015	10/1602-1663	Announcement Service for OAI/Message Group No. for Multi-Connection Announcement Service for OAI
	CM65 Y=27	Tenant No.	0/1	To recall/Not recall
	CM73 Y=0	00-99	0/1/NONE	Usage of Speed Dialing memory for each 1000-Slot Memory Block
	CM73 Y=2	00-63	000000010-999910001	Memory allocation for System Speed Dialing
	CM74 Y=0	00000-99999	Trunk Access Code + [ ] + Storing Called Party No.	Storing Called Party No. for each Memory Slot number
	CM74 Y=1/2/4/6/7	00000-99999	XX...XX	Called Party Name to be displayed on Multiline Terminal
	CM74 Y=5	X-XXXXXXXXX	00000-19999	Abbreviated code to each Memory Slot No.
	CM90 Y=00	My Line No. + [ ] + Key No.	F0006	Executive Right of Way (Executive Override)
CMD7 Y=2	000-127	1000-1015	Voice Response System No.	
FLF	CM08	216	1	OAI
	CM20 Y=0-3	Access Code	A157	FLF Authorization Code Recognition
	CM42	11	01-10	Maximum number of digit for Authorization Code

Continued on next page

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**List of OAI Commands**

ITEM	COMMAND CODE	1ST DATA	2ND DATA	MEANING
FLF	CMD7 Y=5	00	X-XXXX	Office No.
	CMD7 Y=A	00	0/1	Recognition of AP database
	CMD7 Y=A	01	0/1	Omission of AP database
KTF	CM90 Y=00	My Line No. + [ ] + Key No.	F1032-F1047	OAI Function Key
ACF	CM08	216	1	Authorization Code/ Forced Account Code
	CM08	217	1	Remote Access to System (DISA) Code
	CM08	362	0/1	SST after Dialing the Access Code for ID Code Class Change
	CM20 Y=0-3	Access Code	A086/A087	Access Code for ID Code Class Change
	CM42	11, 12, 13	01-10	Number of digits for Authorization Code/Forced Account Code/DISA
	CMD7 Y=3	00	000-127	RR Timer
TCF	None			
NTF	None			
ADF	None			
SSF	CM08	140	0/1	Message Waiting Indication (MW)
	CM08	222	0/1	Call Forwarding Method
	CM08	235	0/1	Deletion of all stored Call History-No Answer/Message Waiting of the calling station when answering the call.
	CM08	376	0/1	VMS via CCIS
	CM08	443	0	VMS with MCI
	CM08	444	0	Message Waiting lamp control
	CM08	608	1	Call Forwarding type

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**List of OAI Commands**

ITEM	COMMAND CODE	1ST DATA	2ND DATA	MEANING
SSF	CM12 Y=02	Station No.	00-15	Service Restriction Class
	CM13 Y=03	Station No.	0	Message Waiting/Message Reminder
	CM15 Y=000	00-15	0/1	Service Restriction Class
	CM15 Y=010	00-15	0/1	
	CM15 Y=011	00-15	0/1	
	CM15 Y=012	00-15	0/1	
	CM15 Y=026	00-15	0/1	
	CM15 Y=027	00-15	0/1	
	CM20 Y=0-3	Access Code	A180-A183	
	CM29	Tenant No.	710-713	Numbering Plan Group
	CM41 Y=0	01	01-30	Elapsed Timing before Call Forwarding-No Answer for trunk incoming call
	CM41 Y=0	15	01-30	Elapsed Timing before Call Forwarding-No Answer for internal call and assisted call
	CM65 Y=23	Tenant No.	0	Internal Call from Station/Attendant
	CM65 Y=24	Tenant No.	1	C.O. Incoming Call
	CM65 Y=25	Tenant No.	1	Tie Line Incoming Call
	CM78	Tenant No. + Block No.	Trunk Access Code + [ ] + Called No./ Station No.	Split Call Forwarding Destination
CM90 Y=00	My Line No. + [ ] + Key No.	F0A80/F0A82	Split Call Forwarding key	

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**List of OAI Commands**

<b>ITEM</b>	<b>COMMAND CODE</b>	<b>1ST DATA</b>	<b>2ND DATA</b>	<b>MEANING</b>
SMF	CM08	177	0/1	SMFN FID=9 to OAI terminal
	CM08	379	0/1	Caller ID Display/Name Display (Attendant Called/Calling Name Display) via CCIS
	CM08	429	0/1	Multiline Terminal Sub line
	CM08	460	0/1	OAI SMFN STS (Status)
	CM08	461	0/1	OAI SMFN when answering a held call
	CM08	462	0/1	ANI/Caller ID/CPN to OAI Terminal
	CM08	464	0/1	OAI TSAPI/SCF facility
	CM08	804	0	OAI SMFN Terminal Type
	CM08	805	0/1	OAI SMFN STS (Status) for SMFN FID=3/1
	CM08	808	0/1	OAI SMFN STS (Status) for SMFN FID=2
	CM08	811	0/1	OAI SMFN STS (Status) for SMFN FID=1
	CM08	815	0/1	OAI SMFN when recalling a Non-exclusive hold call
	CM08	817	0/1	OAI SMFN STS (Status) for SMFN FID=1/2
	CM08	818	0/1	OAI SMFN when providing an Exclusive hold call
	CM08	839	0/1	OAI SMFN with intermediate information
	CM08	840	0/1	OAI SMFN when setting CAMP ON
	CM08	847	0/1	OAI SMFN when setting CAMP ON for the Call Hold status

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**List of OAI Commands**

ITEM	COMMAND CODE	1ST DATA	2ND DATA	MEANING
SMF	CM08	851	0	Sending OAI SMFN STS (status) 3-9/3-10 when a call in OAI queuing is released
	CM08	1602	0/1	Type of terminal for OAI suite room terminal
	CM12 Y=02	Station No.	00-15	Service Restriction Class
	CM15 Y=002	00-15	1	
	CM15 Y=003	00-15	1	
	CM20 Y=0-3	Access Code	A004/A005	Access Code for Outgoing Trunk Queuing/Call Back
	CM29	Tenant No.	710-713	Numbering Plan Group
	CM35 Y=012	Trunk Route No.	0-3	Number of digits for Development Table 0
	CM35 Y=018	Trunk Route No.	0/1	Digit conversion on DID display
	CM35 Y=028	Trunk Route No.	0/1	The Capability of Outgoing Trunk Queuing
	CM35 Y=059	Trunk Route No.	0/1	Call Waiting for DID call
	CM35 Y=170	Trunk Route No.	3	DID digit conversion Development Table
	CM76 Y=00	DID No.	000-999	Number Conversion Block No. for Development Table 0
	CM76 Y=10	000-999	0/1	Call Waiting for DID call per DID incoming LDN
CM90 Y=00	My Line No. + [ ] + Key No.	F0004	Outgoing Trunk Queuing/Call Back Key	
Health check	None			

## OAI BASIC DATA ASSIGNMENT

START	DESCRIPTION	DATA
CM0B	Select the port for OAI.	<ul style="list-style-type: none"> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])</li> </ul> (1) 91 (2) 0: Maintenance Port
	Assign the IP Address for the system.	<ul style="list-style-type: none"> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])</li> </ul> (1) 00 (2) XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: IP Address for the system (Maximum 15 digits) NONE◀: No data
	Assign the Subnet Mask for the system.	<ul style="list-style-type: none"> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])</li> </ul> (1) 01 (2) XXX.XXX.XXX.XXX: 255.0.0.0-255.255.255.252: Subnet Mask for the system (Maximum 15 digits) NONE◀: No data
	Assign the Default Gateway for the system.	<ul style="list-style-type: none"> <li>• Y=001 (Maintenance Port [0] + Unit No. [01])</li> </ul> (1) 02 (2) XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: Default Gateway for the system (Maximum 15 digits) NONE◀: No data
A	RESET	
	RESET	
	RESET	
	RESET	
	<p><b>NOTE:</b> The second data must be entered including the periods (.).</p>	
	<p><b>NOTE:</b> The second data must be entered including the periods (.).</p>	
	<p><b>NOTE 1:</b> The second data must be entered including the periods (.).</p>	
	<p><b>NOTE 2:</b> There are the following conditions when setting the Default Gateway by this command.</p> <ul style="list-style-type: none"> <li>• Only one Default Gateway Address can be set for the system.</li> <li>• Set the Default Gateway to the Maintenance port (Y=0XX) when not using VoIPDB.</li> <li>• Set the Default Gateway to the VOIP port (Y=1XX) when using VoIPDB.</li> </ul>	

A	DESCRIPTION	DATA
CM0B	Assign the Port number for OAI to the system. <b>RESET</b>	<ul style="list-style-type: none"> <li>Y=001 (Maintenance Port [0] + Unit No. [01])</li> <li>(1) 41</li> <li>(2) 0 : Port No. 1024</li> <li>1 : Port No. 1025</li> <li>2 : Port No. 1039</li> <li>3◀: Port No. 60030</li> </ul>
CMD7	Assign the office number for OAI, if required.	<ul style="list-style-type: none"> <li>Y=5</li> <li>(1) 00</li> <li>(2) X-XXXX: Office No.</li> </ul>
<u>END</u>		

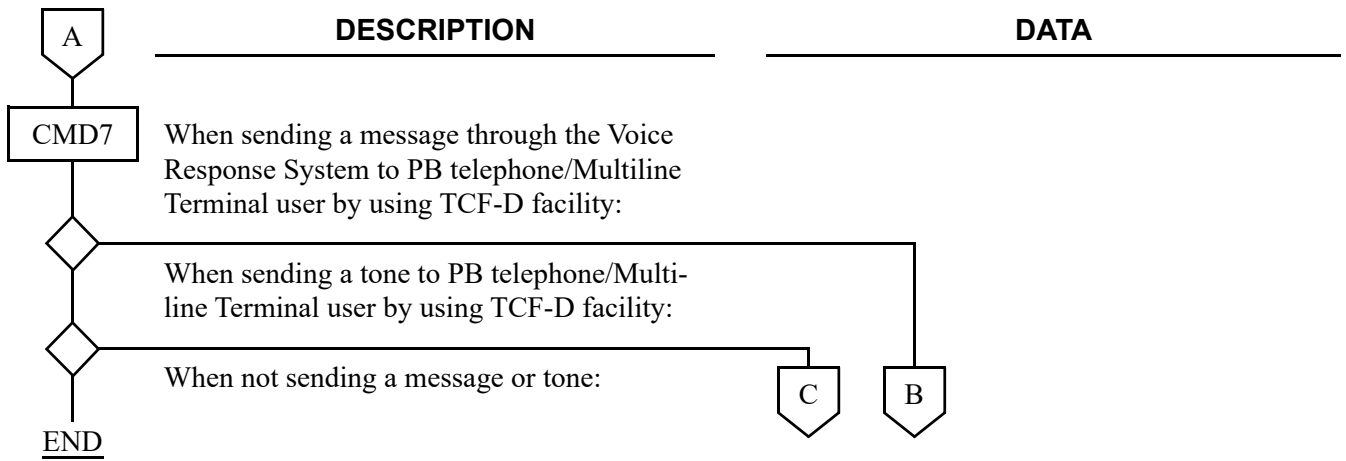
## ***MSF DATA ASSIGNMENT***

To start up MSF from a Multiline Terminal by using an OAI function key:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM90</div>	<p>Assign the OAI function key for starting up MSF to a Multiline Terminal.</p>	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No.</li> <li>(2) F1032-F1047: OAI Function Key No. 0-15</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CMD7</div>	<p>When pressing the OAI function key to start up MSF, assign the operation code to the OAI function key assigned by CM90.</p> <p>When dialing a digit code (1-3 digits) after pressing OAI function key to start up MSF, assign the digit number of digit code, then assign the operation code to the digit code.</p> <p>Assign the waiting timer for receiving an answer signal (RR signal) after starting up MSF, if required.</p> <p>Specify a chime from the Multiline Terminal when receiving RR signal of MSF.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) F1032-F1047: OAI Function Key No. 0-15</li> <li>(2) 128-191: Operation Code for MSF</li> </ul> <ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) F1032-F1047: OAI Function Key No. 0-15</li> <li>(2) DCX (X=1-3): Digit Number of Digit Code</li> </ul> <ul style="list-style-type: none"> <li>• Y=6</li> <li>(1) X-XXX: Digit Code (X=0-9, #)</li> <li>(2) 128-191: Operation Code for MSF</li> </ul> <ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 00</li> <li>(2) 000-127: 8-508 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 8 seconds.</p> <ul style="list-style-type: none"> <li>• Y=7</li> <li>(1) F1032-F1047: OAI Function Key No. 0-15</li> <li>(2) 00◀: Not sent 01 : To send</li> </ul>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">END</div>		

To start up MSF from PB Telephone/Multiline Terminal by using an access code:

START	DESCRIPTION	DATA
CM12	Assign the Service Restriction Class B for starting up MSF to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ ZZ: 00-15◀: Service Restriction Class B</li> </ul>
CM15	<p><b>NOTE:</b> <i>After starting up the MSF from a PB telephone or Multiline Terminal, the PB receiver is busy during MSF mode. Therefore, you must make sure that a call cannot be originated if all PB receivers are used. To prevent the “all busy”, we recommend using the OAI function key on Multiline Terminal, as the PB receiver is not used for the Multiline Terminal.</i></p>	<ul style="list-style-type: none"> <li>• Y=059</li> <li>(1) 00-15: Service Restriction Class B assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM20	Assign the access code for starting up MSF.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code for MSF</li> <li>(2) A084</li> </ul>
CMD7	Assign the operation code to the access code assigned by CM20 Y=0-3: A084.	<ul style="list-style-type: none"> <li>• Y=1</li> <li>(1) X-XXXX: Access Code assigned by CM20 Y=0-3: A084</li> <li>(2) 128-191: Operation Code for MSF</li> </ul>
	<p><b>NOTE 1:</b> <i>The operation code means a number to designate each OAI application.</i></p>	
	<p><b>NOTE 2:</b> <i>The maximum number of operation codes is 16.</i></p>	
	Assign the waiting timer for receiving an answer signal after starting up MSF, if required.	<ul style="list-style-type: none"> <li>• Y=3</li> <li>(1) 00</li> <li>(2) 000-127: 8-508 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 000 (8 seconds).</p>
	Assign the number of the terminals (PB telephone) to be in the terminal mode simultaneously.	<ul style="list-style-type: none"> <li>• Y=4</li> <li>(1) 00</li> <li>(2) 00◀: 0 terminal 01-32: 1-32 terminals</li> </ul>
A		





B	DESCRIPTION	DATA
CM49	Assign the function of the Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 10: Announcement Service in the OAI Terminal mode</li> </ul>
CM20	To record, replay or delete a message, assign the respective Voice Response System access code.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A100: Record A101: Replay A102: Delete</li> </ul>
CM41	Specify the message replay timer in the OAI terminal mode, if required.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 56</li> <li>(2) 01-99: 4-396 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 20-24 seconds.</p>
CMD7	Assign the Voice Response System number.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 000-127: Message No.</li> <li>(2) 1 XXX XXX: 000-015: VRS No.</li> </ul>
<u>END</u>		

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C	DESCRIPTION	DATA
CM41	Specify the tone sending timer in the OAI terminal mode, if required.	<ul style="list-style-type: none"><li>• Y=0</li><li>(1) 56</li><li>(2) 01-99: 4-396 seconds (4 second increments)</li></ul> If no data is set, the default setting is 20-24 seconds.
<u>END</u>		

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A	DESCRIPTION	DATA
CMD7	Specify a chime from Multiline Terminal when setting up TMF.	<ul style="list-style-type: none"><li>• Y=8</li><li>(1) 00: Chime before sending terminal messages (when pressing the OAI Function key)</li><li>    02: Chime after sending terminal messages</li><li>(2) 00◀: No ring</li><li>    01 : Ring</li></ul>
	Specify the display of guidance on Multiline Terminal when setting up TMF.	<ul style="list-style-type: none"><li>• Y=8</li><li>(1) 01: Display of guidance before sending terminal messages (When pressing the OAI Function key)</li><li>    03: Display of guidance after sending terminal messages</li><li>(2) 00◀: Not displayed</li><li>    01 : Displayed</li></ul>
<u>END</u>		

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## *MRF DATA ASSIGNMENT*

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CMD7</div>	Specify a chime from Multiline Terminal at the time terminal mode is released.	<ul style="list-style-type: none"><li>• Y=A</li><li>(1) 0B: Chime sending out at the time (MRFR, MRFI) terminal mode release</li><li>(2) 0 : No ring 1◀: Ring</li></ul>
<u>END</u>		

## SCF DATA ASSIGNMENT

To provide Call Origination with Ringing (FID=3):

START	DESCRIPTION	DATA
CM41	Assign the Ringing Tone Sending time for SCF of OAI.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 65: OAI SCF Ringing Timer</li> <li>(2) 01-99: 4-396 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 28-32 seconds.
END		

To originate a call with Account Code (FID=1, 3, 4, 7):

START	DESCRIPTION	DATA
CM42	Specify the maximum number of digits for Account Code.	<ul style="list-style-type: none"> <li>(1) 10</li> <li>(2) 01-10 : 1 digit-10 digits</li> <li>NONE◀: 10 digits</li> </ul>
END		

If the Voice Response System or Tone is provided, do the following programming:

START	DESCRIPTION	DATA
CM49	Assign the function of the Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 10: Announcement Service in the OAI Terminal mode</li> </ul>
CMD7	Assign the Voice Response System number.	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 000-127: Message No.</li> <li>(2) 1 XXX</li> <li>XXX: 000-015: VRS No.</li> </ul>
END		

To provide Queue Connection (FID=4):

START	DESCRIPTION	DATA
CM17	Assign the UCD group.	<ul style="list-style-type: none"> <li>Y=0</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) X-XXXXXXXX: Another station No. to be linked</li> </ul>
	Assign the Pilot station and Member station to queuing for SCF of OAI.	<ul style="list-style-type: none"> <li>Y=1 Distinction of Member station from Pilot station</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 2: Off-Hook suppressed (Unable to place or receive a call.)</li> <li>3: Pilot station (Monitor No.)</li> </ul>
	Assign the UCD group number.	<ul style="list-style-type: none"> <li>Y=2</li> <li>(1) X-XXXXXXXX: UCD Station No.</li> <li>(2) 00-99: UCD Group 00-99</li> </ul>
END		

To provide the system with a monitor number (connect the system to an OAI application):

START	DESCRIPTION	DATA
CM11	Assign a virtual station number to be used as the monitored number.	<ul style="list-style-type: none"> <li>(1) 0000-0999: Virtual Port No.</li> <li>(2) X-XXXXXXXX: Virtual-Line number</li> </ul>
CM17	Assign the Pilot station and Member station to queuing for SCF of OAI.	<ul style="list-style-type: none"> <li>Y=1 Distinction of Member station from Pilot station</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 2: Member station (Unable to place or receive a call.)</li> <li>3: Pilot station (Monitor No.)</li> </ul>
	Assign the UCD group number.	<ul style="list-style-type: none"> <li>Y=2</li> <li>(1) X-XXXXXXXX: UCD station No.</li> <li>(2) 00-99: UCD Group 00-99</li> </ul>
END		

To provide the system with a monitor number (connect the system to more than two OAI applications):  
**[9300V5 software required]**

START	DESCRIPTION	DATA
CM11	Assign a virtual station number to be used as the monitored number.	(1) 0000-0999: Virtual Port No. (2) X-XXXXXXXX: Virtual-Line number
CM17	Assign the Pilot station and Member station to queuing for SCF of OAI.	<ul style="list-style-type: none"> <li>Y=1 Distinction of Member station from Pilot station</li> </ul>
	Assign the UCD group number.	(1) X-XXXXXXXX: Station No. (2) 2: Member station (Unable to place or receive a call.) 3: Pilot station (Monitor No.)
	<b>NOTE:</b> <i>If the system connects to more than two OAI applications, assign the UCD group number 00-49.</i>	<ul style="list-style-type: none"> <li>Y=2</li> </ul>
CMD7	Set the IP address of ACD application Only.	(1) X-XXXXXXXX: UCD station No. (2) 00-99: UCD Group 00-99
		<ul style="list-style-type: none"> <li>Y=C IP Address of the ACD Application</li> </ul>
		(1) 01-02: IP Address 1-2 (2) 0: XXX.XXX.XXX.XXX: 0.0.0.1-255.255.255.254: IP Address for the System (Maximum 15 digits) NONE◀: No data
END		



To send a called party number assigned by SCF (4th Party Term Information) as intermediate information to VMS through MCI when a call is forwarded to VMS by Call Forwarding-All Calls:

START	DESCRIPTION	DATA
<p>CM08</p>	Specify whether OAI SCF with intermediate information via OAI queue is sent.	<ul style="list-style-type: none"> <li>(1) 839</li> <li>(2) 0: To send</li> </ul>
<p>END</p>		

To provide Announcement Call (FID=5):

START	DESCRIPTION	DATA
<p>CM17</p>	<p>Assign the Pilot station and Member station to queuing for SCF of OAI. When sending an announcement from the beginning on the Multi-Connection Announcement Service, set this data to "3".</p> <p>Assign the method to send Multi-Connection Announcement. When sending an announcement from the beginning on the Multi-Connection Announcement, set this data to "1".</p>	<ul style="list-style-type: none"> <li>• Y=1 Distinction of Member station from Pilot station</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) 2: Member station (Unable to place or receive a call.) 3: Pilot station (Monitor No.)</li> <li>• Y=A</li> <li>(1) X-XXXXXXXX: Pilot station No.</li> <li>(2) 0 : To be sent periodically 1 ◀: To be sent only once</li> </ul>
<p>CM41</p>	When sending an announcement from the beginning on the Multi-Connection Announcement, assign the latency time of sending the announcement after receiving SCF FID=5.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 67: OAI Announcement Connection Timer</li> <li>(2) 01-99: 4-396 seconds (4 second increments)</li> </ul> <p>If no data is set, the default setting is 8-12 seconds.</p>
<p>CM49</p>	Assign the function of the Voice Response System.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) 000-015: VRS No.</li> <li>(2) 16 XX: Multi-Connection Announcement Service for OAI XX : Message Group No. (02-63)</li> </ul>
<p>END</p>		

To provide Conversation Monitoring (FID=6) and Call Conferencing (FID=8):

START	DESCRIPTION	DATA
CM41	Assign the Ringing Tone Sending time for SCF of OAI.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 65: OAI RGT Sending Time</li> <li>(2) 01-99: 4-396 seconds (4 second increments)</li> </ul> If no data is set, the default setting is 28-32 seconds.
CM08	Set the line/trunk in the following conditions. <ul style="list-style-type: none"> <li>• Set the line/trunk which is talking with the 2nd party to the 3rd party line 1 of OAI SMFN FID=1 STS=0, when the call for Conversation Monitoring (SCF FID=6) or Call Conferencing (SCF FID=8) is terminated to a station.</li> <li>• Set the line/trunk which is talking with the 2nd party to the 3rd party line 2 of OAI SMFN FID=2 STS=0/1, when the call for Conversation Monitoring (SCF FID=6) is answered by a station.</li> </ul>	<ul style="list-style-type: none"> <li>(1) 816</li> <li>(2) 0 : To set 1 ◀: Not set</li> </ul>
END		

To provide System Speed Dialing (FID=1, 3, 7):

START	DESCRIPTION	DATA
CM08	Specify the System Speed Dialing Security. (Stored number is displayed on Multiline Terminal for an outgoing call by System Speed Dialing.)	(1) 043 (2) 0 : Not displayed 1◀: Display
	Specify Toll Restriction for an outgoing call by System Speed Dialing.	(1) 044 (2) 0 : Not provided 1◀: To provide
CM12	Assign Service Restriction Class A to each station.	<ul style="list-style-type: none"> <li>Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
CM15	Allow System Speed Dialing in the Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>Y=006</li> </ul> (1) 00-15: Service Restriction Class A assigned by CM12 Y=02 (2) 1◀: Allow
CM29	Assign a Numbering Plan Group to each Tenant.	(1) 00-63: Tenant No. (2) 710-713 : Numbering Plan Group 0-3 NONE◀: Numbering Plan Group 0
CM20	Assign the Access Code for System Speed Dialing.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A067: System Speed Dialing origination (2-4 digits) A243: System Speed Dialing origination (1-8 digits Abbreviated Code)
CM73	Specify System Speed Dialing for the usage of Speed Dialing memory for each 1000-Slot Memory Block.	<ul style="list-style-type: none"> <li>Y=0</li> </ul> (1) 00-99: 1000-Slot Memory Block No. (2) 0 : System Speed Dialing (for individual tenants) 1 : System Speed Dialing (for all tenants) (Up to 10 blocks) NONE◀: Station Speed Dialing/One-touch Memory
A		

A	DESCRIPTION	DATA
CM73	<p>Allocate a memory area for System Speed Dialing.</p> <p><b>NOTE:</b> <i>Allocate a tenant-based memory area to each 1000-Slot Memory Block No. assigned as System Speed Dialing (for individual tenants) by CM73 Y=0.</i></p>	<ul style="list-style-type: none"> <li>• Y=2</li> <li>(1) 00-63: Tenant No.</li> <li>(2) WW XX YYYY Z               <ul style="list-style-type: none"> <li>WW : 00-99: 1000-Slot Memory Block No.</li> <li>XX : 00-99: 10-Slot Memory Start Block No.</li> <li>YYYY : 0001-1000: Number of 10-Slot Memory Blocks</li> <li>Z : 0: To allocate memory area only for individual tenants</li> <li>: 1: To allocate both memory areas for individual tenants and for all tenants</li> <li>FFFFFFFF: To allocate only common memory area for all tenants.</li> <li>NONE◀ : No data</li> </ul> </li> </ul>
CM74	<p>Assign a storing Called Party Number for each Memory Slot number.</p>	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) XX YY Z               <ul style="list-style-type: none"> <li>XX: 00-99: 1000-Slot Memory Block No.</li> <li>YY: 00-99: 10-Slot Memory Block No.</li> <li>Z : 0-9: Memory Parcel No.</li> </ul> </li> <li>(2) Storing Called Party No.:               <ul style="list-style-type: none"> <li>Trunk Access Code (Maximum 1-4 digits) + <input type="text"/> + Called Party No. (Maximum 26 digits)</li> <li>To set a pause into the Storing Called Party No., enter "C" (Fixed Pause=1.5 seconds) or "D" (Programmable Pause specified by CM41 Y=0&gt;38) after desired digits.</li> <li>NONE◀: No data</li> </ul> </li> </ul>
B		

B	DESCRIPTION	DATA
CM74	Assign a Called Party Name to be displayed on Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=1           <ol style="list-style-type: none"> <li>(1) XX YY Z                XX: 00-99: 1000-Slot Memory Block No.                YY: 00-99: 10-Slot Memory Block No.                Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX : Called Party Name (Maximum 16 characters) by entering with character codes.                See APPENDIX A: Character Code Table. <a href="#">Page A-2</a></li> </ol> <p>NONE◀ : No data</p> </li> <li>• Y=2           <ol style="list-style-type: none"> <li>(1) XX YY Z                XX: 00-99: 1000-Slot Memory Block No.                YY: 00-99: 10-Slot Memory Block No.                Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX : Called Party Name (Maximum 16 characters) by entering from PCPro/CAT.</li> </ol> <p>NONE◀ : No data</p> </li> <li>• Y=4           <ol style="list-style-type: none"> <li>(1) XX YY Z                XX: 00-99: 1000-Slot Memory Block No.                YY: 00-99: 10-Slot Memory Block No.                Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX : Called Party Name in Russian (Maximum 16 characters) by entering with Russian character codes.                See APPENDIX A: Character Code Table for Russian. <a href="#">Page A-3</a></li> </ol> <p>NONE◀ : No data</p> </li> </ul>
C		

C	DESCRIPTION	DATA
CM74	Assign a Called Party Name to be displayed on Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=6               <ol style="list-style-type: none"> <li>(1) XX YY Z                    XX: 00-99: 1000-Slot Memory Block No.                    YY: 00-99: 10-Slot Memory Block No.                    Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX : Called Party Name in Simplified Chinese (Maximum 8 two-byte characters)                    NONE◀ : No data</li> </ol> </li> <li>• Y=7               <ol style="list-style-type: none"> <li>(1) XX YY Z                    XX: 00-99: 1000-Slot Memory Block No.                    YY: 00-99: 10-Slot Memory Block No.                    Z : 0-9: Memory Parcel No.</li> <li>(2) XX...XX : Called Party Name in Traditional Chinese (Maximum 8 two-byte characters)                    NONE◀ : No data</li> </ol> </li> </ul>
D		

D

**DESCRIPTION**

**DATA**

CM74

Assign an Abbreviated code (up to 8 digits) to each Block number of System Speed Dialing where a Called Party Number has been assigned in CM74 Y=0.

- Y=5
- (1) X-XXXXXXXX (X: 0-9): Abbreviated Code
- (2) XX YY Z  
 XX: 00-19: 1000-Slot Memory Block No.  
 YY: 00-99: 10-Slot Memory Block No.  
 Z : 0-9: Memory Parcel No.

**NOTE 1:** *Memory area of System Speed Dialing with 1-8 digit abbreviated code is also used as the memory area of Station Speed Dialing and System Speed Dialing (2-4 digits). Do not assign the same Memory Slot number of System Speed Dialing with 1-8 digit abbreviated code (set by CM74 Y=0) and as Memory Slot number of Station Speed Dialing (set by CM73 Y=1/2, CM94).*

**NOTE 2:** *Set the first data with the same number of digits that is assigned in CM42>77.*

**NOTE 3:** *An abbreviated code for System Speed Dialing (8 digits) can be arbitrarily assigned within the range from 0 to 99999999 by using this command. The maximum number of assignable abbreviated codes varies depending on the digit length. The following table shows the maximum number of patterns allowed based on the length of abbreviated code digits assigned.*

The number of abbreviated code digits	The number of expansion patterns (The maximum number of assignable abbreviated codes)	
	Upper limit	Lower limit
1-4 digits	1000	
5 digits	9990	500
6 digits	9980	333
7 digits	9970	250
8 digits	9960	200

CM42

Specify the number of digits for the abbreviated code of System Speed Dialing origination.

- (1) 77
- (2) 01-08 : 1-8 digits  
 NONE◀: 4 digits

END

To specify whether a recall is sent to queuing for SCF of OAI when calling a busy station (FID=10):

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM65</div>	Specify whether ACD (Automatic Call Distribution) is available in each tenant.	<ul style="list-style-type: none"> <li>• Y=27</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0 : Available (to recall)</li> <li>1◀: Not available (not recalled)</li> </ul>
END		

To select the SCF error code type:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM08</div>	Specify the SCF error code type.	<ul style="list-style-type: none"> <li>(1) 465</li> <li>(2) 0 : SCF error detail</li> <li>1◀: SCF error kind</li> </ul>
END		

To specify the system operation after the C.O. call (via TRK-B) hangs up, when a station that has a C.O. call (via TRK-A) on consultation hold is talking with another C.O. call (via TRK-B):

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM08</div>	Specify the system operation after the TRK-B hangs up when a station that has a C.O. call (via TRK-A) on consultation hold is talking with another C.O. call (via TRK-B).	<ul style="list-style-type: none"> <li>(1) 534</li> <li>(2) 0 : Return to the original call (via TRK-A)</li> <li>1◀: ROT</li> </ul>
END		

To allow the exchange of trunk when answering an Exclusive Hold call (FID=11):

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">CM08</div>	Allow the exchange of trunk when answering an Exclusive hold call.	<ul style="list-style-type: none"> <li>(1) 809</li> <li>(2) 0 : Not allowed</li> <li>1◀: To allow</li> </ul>
END		



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To provide CAMP ON (FID=19):

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
CM08	Specify whether CAMP ON to the destination is set when Call Forwarding-All Calls.	(1) 846 (2) 0 : To set 1◀: Not set
CM35	Restrict DID Call Waiting to the each trunk routes.	• Y=059 (1) 00-63: Trunk Route No. (2) 1◀: Restricted
<u>END</u>		

To provide Executive Right of Way (Executive Override) (FID=22):

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">CM08</div>	Specify the Warning Tone sent to connected parties during Executive Right of Way (Executive Override).	(1) 045 (2) 0 : Only once 1◀: Every 4 seconds
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">CM12</div>	Assign Service Restriction Class A to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> </ul> (1) X-XXXXXXXX: Station No. (2) XX ZZ XX: 00-15◀: Service Restriction Class A
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">CM15</div>	Allow Executive Right of Way (Executive Override) Calling side.  Allow Executive Right of Way (Executive Override) Calling side.	<ul style="list-style-type: none"> <li>• Y=005</li> </ul> (1) 00-15: Service Restriction Class A (2) 1◀: Allow  <ul style="list-style-type: none"> <li>• Y=009</li> </ul> (1) 00-15: Service Restriction Class A (2) 1◀: Allow
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">CM29</div>	Assign a Numbering Plan Group to each Tenant.	(1) 00-63: Tenant No. (2) 710-713 : Numbering Plan Group 0-3 NONE◀: Numbering Plan Group 0
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">CM20</div>	Assign the access code for Executive Right of Way (Executive Override).	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A006: Executive Right of Way (Executive Override)
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">CM90</div>	Assign the Executive Right of Way (Executive Override) key to the Multiline Terminal, if required.	<ul style="list-style-type: none"> <li>• Y=00</li> </ul> (1) My Line No. + <span style="border: 1px solid black; padding: 0 2px;"> </span> + Key No. (2) F0006: Executive Right of Way (Executive Override)
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">END</div>		

To provide DND over CCIS:

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">CM08</div>	Specify the sending of station status type to the destination office when the Multiline Terminal/DESKCON calls a station set the DND over CCIS.	(1) 669 (2) 0: To send DND setting
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 5px;">END</div>		

## FLF DATA ASSIGNMENT

[North America Only]

START	DESCRIPTION	DATA
CM20	<p>Assign the access code to recognize Authorization Code for FLF.</p> <p><b>NOTE:</b> <i>The access code should be assigned to the first one, two or three digits of Authorization Code. For example:</i></p> <p> </p>	<ul style="list-style-type: none"> <li>Y=0-3</li> </ul> <ol style="list-style-type: none"> <li>X-XXXX: Access Code</li> <li>A157</li> </ol>
CM42	Assign the maximum number of digits for Authorization Code.	<ol style="list-style-type: none"> <li>11</li> <li>01-10 : Maximum Number of Digits NONE◀: 10 digits</li> </ol>
CMD7	Assign the recognition of AP database by RR message.	<ul style="list-style-type: none"> <li>Y=A</li> </ul> <ol style="list-style-type: none"> <li>00</li> <li>0◀: To provide 1 : Not provided</li> </ol>
	Assign the omission of AP database for information added to RR message.	<ul style="list-style-type: none"> <li>Y=A</li> </ul> <ol style="list-style-type: none"> <li>01</li> <li>0◀: Not omitted 1 : To omit</li> </ol>
	Assign the office number.	<ul style="list-style-type: none"> <li>Y=5</li> </ul> <ol style="list-style-type: none"> <li>00</li> <li>Office No. (Maximum 4 digits)</li> </ol>
CM08	Provide the system with Authorization Code/ Forced Account Code.	<ol style="list-style-type: none"> <li>216</li> <li>1◀: By OAI</li> </ol>
END		

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## ***KTF DATA ASSIGNMENT***

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
CM90	Assign the OAI function key for starting up FLF to a Multiline Terminal.	<ul style="list-style-type: none"><li>• Y=00</li></ul> <ol style="list-style-type: none"><li>(1) My Line No. + <input type="text"/> + Key No.</li><li>(2) F1032-F1047: OAI Function Key No. 0-15</li></ol>
<u>END</u>		

## ACF DATA ASSIGNMENT

START	DESCRIPTION	DATA
CM08	Provide the system with Authorization Code/ Forced Account Code.	(1) 216 (2) 1◀: By OAI (ACF)
	Assign the method to check Remote Access to System (DISA) Code.	(1) 217 (2) 1◀: By OAI (ACF)
	Specify whether SST is sent after dialing the access code for ID Code Class Change or not.	(1) 362 (2) 0 : No Tone 1◀: Service Set Tone (SST)
CM42	Assign the number of digits for each ID code of Authorization Code/Forced Account Code/ Remote Access to System (DISA).	(1) 11: Authorization Code 12: Forced Account Code (2) 01-10 : Number of digits NONE◀: 10 digits  (1) 13: Remote Access to System (DISA) (2) 01-16 : Number of digits NONE◀: 16 digits
CM20	Assign the Access code for ID Code Class Change.	<ul style="list-style-type: none"> <li>Y=0-3 Numbering Plan Group 0-3</li> </ul> (1) X-XXXX: Access Code (2) A086: Authorization Code A087: Forced Account Code
CMD7	Assign the return result waiting timer for the PBX sent facility.	<ul style="list-style-type: none"> <li>Y=3</li> </ul> (1) 00 (2) 000-127: 8-508 seconds (4 second increments) If no data is set, the default setting is 8 seconds.
END		

## SSF DATA ASSIGNMENT

START	DESCRIPTION	DATA
CM08	<p>Assign the Message Waiting Indication (VM) for My Line only or My Line and sub-line on Multiline Terminal.</p> <p>Whether delete all stored Call History-No Answer/Message Waiting of the calling station when answering the call.</p> <p>When a forwarded call is terminated to the VMS via CCIS, specify whether Message Waiting from the VMS is provided for the called station.</p> <p>Assign the type of Voice Mail System.</p> <p>Specify Message Waiting lamp control from VMS with MCI to all stations.</p> <p><b>NOTE:</b> <i>MW lamp control is only available to the stations in the opposite PBX connected with CCIS via MCI. Station dialing MW access codes are not allowed over CCIS.</i></p>	<p>(1) 140 (2) 0 : MW for My Line and sub-lines 1◀: MW for My Line only</p> <p>(1) 235 (2) 0 : To delete 1◀: Not deleted</p> <p>(1) 376 (2) 0 : To provide 1◀: Not provided</p> <p>(1) 443 (2) 0: VMS with MCI</p> <p>(1) 444 (2) 0: Available</p>
CM13	<p>Assign the Message Waiting/Message Reminder.</p> <p><b>NOTE:</b> <i>This command is effective only when using a Single Line Telephone with MW lamp, Standard SIP Terminal.</i></p>	<ul style="list-style-type: none"> <li>• Y=03</li> </ul> <p>(1) X-XXXXXXXX: Station No. (2) 0: To provide (For the station with MW lamp)</p>
CM12	<p>Assign Service Restriction Class C to each station.</p>	<ul style="list-style-type: none"> <li>• Y=07</li> </ul> <p>(1) X-XXXXXXXX: Station No. (2) 00-15◀: Service Restriction Class C</p>
CM15	<p>Specify if MW lamp on Multiline Terminal when Message Reminder is to be lit.</p> <p><b>NOTE:</b> <i>This command is effective only when using the Multiline Terminal.</i></p>	<ul style="list-style-type: none"> <li>• Y=284</li> </ul> <p>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07 (2) 0 : Not lit 1◀: To light</p>
A		

A	DESCRIPTION	DATA
CM15	Specify if MW lamp on Multiline Terminal when Message Waiting is to be lit.  <b>NOTE:</b> <i>This command is effective only when using the Multiline Terminal.</i>	<ul style="list-style-type: none"> <li>• Y=286</li> <li>(1) 00-15: Service Restriction Class C assigned by CM12 Y=07</li> <li>(2) 0 : Not lit</li> <li>1◀: To light</li> </ul>
END		

To provide Split Call Forwarding-All Calls/Busy Line/No Answer (FID=8, 9, 10):

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A for this feature to the required stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XX ZZ</li> <li>XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	Allow Call Forwarding-All Calls/Busy Line/No Answer in Service Restriction Class A assigned by CM12 Y=02.	<ul style="list-style-type: none"> <li>• Y=000 Call Forwarding-All Calls</li> <li>• Y=010 Call Forwarding-No Answer</li> <li>• Y=011 Call Forwarding-Busy Line</li> <li>• Y=012 Call Forwarding-Busy Line/No Answer</li> <li>• Y=026 Call Forwarding-All Calls-Outside</li> <li>• Y=027 Call Forwarding-No Answer-Outside</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 0 : Restricted</li> <li>1◀: Allow</li> </ul>
CM29	Assign a Numbering Plan Group number to each tenant.	<ul style="list-style-type: none"> <li>(1) 00-63: Tenant No.</li> <li>(2) 710-713 : Numbering Plan Group 0-3</li> <li>NONE◀: Numbering Plan Group 0</li> </ul>
CM20	Assign the access code for setting Split Call Forwarding-All Calls/Busy Line/No Answer, Set and Cancel, respectively.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A180: Split Call Forwarding-All Calls Set</li> <li>A181: Split Call Forwarding-All Calls Cancel</li> <li>A182: Split Call Forwarding-Busy Line/No Answer Set</li> <li>A183: Split Call Forwarding-Busy Line/No Answer Cancel</li> </ul>
A		

A	DESCRIPTION	DATA
CM90	Assign Split Call Forwarding-All Calls/Busy Line/No Answer keys to the Multiline Terminals, as required.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + <input type="checkbox"/> + Key No.</li> <li>(2) F0A80: Split Call Forwarding-All Calls Set/Cancel</li> <li>F0A82: Split Call Forwarding-Busy Line/No Answer Set/Cancel</li> </ul>
CM08	Specify the setting method for Call Forwarding-All Calls-Outside/Busy Line-Outside/No Answer-Outside.	<ul style="list-style-type: none"> <li>(1) 222</li> <li>(2) 0 : Setting when the station goes on-hook/when receiving Service Set Tone (ORT time out)</li> <li>1◀: Setting when receiving Service Set Tone (ORT time out)</li> </ul>
CM41	Specify the timing of Call Forwarding-No Answer for a trunk incoming call.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 01: Timing for a trunk incoming call</li> <li>(2) 01-30: 4-120 seconds (4 seconds increment)</li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
	Specify the timing of Call Forwarding-No Answer for an internal call and an assisted call.	<ul style="list-style-type: none"> <li>• Y=0</li> <li>(1) 15: Timing for an internal call and an assisted call</li> <li>(2) 01-30: 4-120 seconds (4 seconds increment)</li> </ul> <p>If no data is set, the default setting is 32-36 seconds.</p>
CM08	Assign the Call Forwarding type.	<ul style="list-style-type: none"> <li>(1) 608</li> <li>(2) 1◀: As per CM65 Y=23/24/25</li> </ul>
CM65	Assign the Call Forwarding type when an internal call from Station/Attendant is terminated.	<ul style="list-style-type: none"> <li>• Y=23</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 0: Split Call Forwarding-All Calls/Busy Line/No Answer</li> </ul>
	Assign the Call Forwarding type when C.O. incoming call is terminated.	<ul style="list-style-type: none"> <li>• Y=24</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 1◀: Call Forwarding-All Calls/Busy Line/No Answer</li> </ul>
B		



B	DESCRIPTION	DATA
CM65	Assign the Call Forwarding type when Tie Line incoming call is terminated.	<ul style="list-style-type: none"> <li>• Y=25</li> <li>(1) 00-63: Tenant No.</li> <li>(2) 1◀: Call Forwarding-All Calls/Busy Line/No Answer</li> </ul>
CM78	Assign the destination of Split Call Forwarding-All Calls/Busy Line/No Answer. <b>NOTE</b>	<ul style="list-style-type: none"> <li>(1) XX Y XX: 00-63: Tenant No. Y : 0-7: Block No.</li> <li>(2) X-XXXX + <span style="border: 1px solid black; padding: 0 2px;"> </span> + YY...Y X-XXXX: Trunk Access Code (1-4 digits) YY...Y : Called No. (Maximum 26 digits) X-XXXXXXXX: Station No. (1-8 digits)</li> </ul>
END		

**NOTE:** The operating procedure for Split Call Forwarding-All Calls/Busy Line/No Answer is as follows:

CM78 is used to assign the destination forwarded when the destination No. 0-7 is specified.

Dial Access Code for Split Call Forwarding-All Calls/Busy Line/No Answer.

or

Depress Split Call Forwarding-All Calls/Busy Line/No Answer key.



+

Dial Destination No. X (0-9).

- 0: BLOCK No. 0
- 1: 1
- 2: 2
- 3: 3
- 4: 4
- 5: 5
- 6: 6
- 7: BLOCK No. 7

Destination assigned by CM78.

8: Destination for Call Forwarding-All Calls/Busy Line/No Answer

9: Destination for Station Speed Dialing (BLOCK No. 0)

## SMF DATA ASSIGNMENT

START	DESCRIPTION	DATA
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CM08</div>	Provide the system with Last Number Redial for Single Line Telephone in order to notify the station number that calls to an outside party (SMFN FID=9) to the OAI terminal.	(1) 177 (2) 0 : Provide 1◀: Not provided
	Assign the automatic setting of SMFR for Multiline Terminal Sub line.	(1) 429 (2) 0 : Available 1◀: Not available
	Specify OAI SMFN STS (status) for Call Transfer from a station.	(1) 460 (2) 0 : SMFN STS=7 1◀: SMFN STS=0
	Specify whether OAI SMFN is sent when answering a held call.	(1) 461 (2) 0 : To send 1◀: Not sent
	Specify whether ANI/Caller ID/CPN is sent to OAI terminal.	(1) 462 (2) 0 : Available 1◀: Not available
	Assign the OAI TSAPI/SCF facility.	(1) 464 (2) 0 : Same as IMX/IPX system (recommended setting) 1◀: SMFN Off-Hook indication sent
	Specify the type of terminal for OAI SMFN.	(1) 804 (2) 0 : Single Line Telephone 1◀: Not used
	Specify OAI SMFN STS (status) when a station answers the forwarded call with Call Forwarding-No Answer (SMFN FID=3/1).	(1) 805 (2) 0 : SMFN STS=5/6 1◀: SMFN STS=1
	<div style="border: 1px solid black; padding: 2px; display: inline-block;">A</div>	

A	DESCRIPTION	DATA
CM08	Specify OAI SMFN STS (status) when a station answers the forwarded call with Call Forwarding-All Calls/Busy Line/No Answer (SMFN FID=2).	(1) 808 (2) 0 : SMFN STS=5/6/7 1◀: SMFN STS=0
	Specify OAI SMFN STS (status) when the forwarded call with Call Forwarding-All Calls/Busy Line is terminated to a station (SMFN FID=1).	(1) 811 (2) 0 : SMFN STS=4/5 1◀: SMFN STS=1
	Specify whether OAI SMFN is sent when recalling a Non-exclusive hold call. <b>[For EMEA]</b>	(1) 815 (2) 0 : To send 1◀: Not sent
	Specify OAI SMFN STS (status) when the forwarded call with Call Forwarding-All Calls/Busy line/ No Answer is terminated to a station via CCIS (SMFN FID=1 STS=4/5/6), or answered via CCIS (SMFN FID=2 STS=5/6/7).	(1) 817 (2) 0 : SMFN STS=4/5/6 (When forwarded call is terminated) SMFN STS=5/6/7 (When forwarded call is answered) 1◀: SMFN STS=0
	Specify whether OAI SMFN is sent when providing an Exclusive hold call.	(1) 818 (2) 0 : To send 1◀: Not sent
	Specify whether OAI SMFN with intermediate information via OAI queue is sent. <b>[For EMEA]</b>	(1) 839 (2) 0 : To send 1◀: Not sent
END		

To send SMFN STS (Status) to OAI terminal in the case of Outgoing Trunk Queuing/Call Back.

START	DESCRIPTION	DATA
CM12	Assign Service Restriction Class A to the necessary stations.	<ul style="list-style-type: none"> <li>• Y=02</li> <li>(1) X-XXXXXXXX: Station No.</li> <li>(2) XXZZ XX: 00-15◀: Service Restriction Class A</li> </ul>
CM15	<p>Allow Outgoing Trunk Queuing in Service Restriction Class A assigned by CM12 Y=02.</p> <p>Allow Call Back in Service Restriction Class A assigned by CM12 Y=02.</p>	<ul style="list-style-type: none"> <li>• Y=002</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> <li>• Y=003</li> <li>(1) 00-15: Service Restriction Class A assigned by CM12 Y=02</li> <li>(2) 1◀: Allow</li> </ul>
CM29	Assign a Numbering Plan Group number to each tenant.	<ul style="list-style-type: none"> <li>(1) 00-63: Tenant No.</li> <li>(2) 710-713 : Numbering Plan Group 0-3 NONE◀: Numbering Plan Group 0</li> </ul>
CM20	Assign the access code for setting Outgoing Trunk Queuing/Call Back.	<ul style="list-style-type: none"> <li>• Y=0-3 Numbering Plan Group 0-3</li> <li>(1) X-XXXX: Access Code</li> <li>(2) A004: Outgoing Trunk Queuing/Call Back Set A005: Outgoing Trunk Queuing/Call Back Cancel</li> </ul>
CM90	Assign the Outgoing Trunk Queuing/Call Back key to the required Multiline Terminal.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) My Line No. + [ ] + Key No.</li> <li>(2) F0004: Outgoing Trunk Queuing/Call Back</li> </ul>
CM35	Specify the Outgoing Trunk Queuing capability for each trunk route.	<ul style="list-style-type: none"> <li>• Y=028</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : Restricted 1◀: Allow</li> </ul>
END		

To provide sending SMFN during CAMP ON (FID=1, 2):

START	DESCRIPTION	DATA
CM08	Specify whether SMFN is sent when setting CAMP ON (SMFN FID=1 STS=8) and when answering by pressing Answer Key from the set PBX (SMFN FID=2 STS=8).	(1) 840 (2) 0 : To send 1◀: Not sent
CM35	Specify the number of digits to be received on DID for Development Table 0.	<ul style="list-style-type: none"> <li>• Y=012</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) Number of digits               <ul style="list-style-type: none"> <li>0 : 1 digit</li> <li>1 : 2 digits</li> <li>2 : 3 digits</li> <li>3◀: 4 digits</li> </ul> </li> </ul>
	Assign the data for DID Call Waiting to the trunk routes.	<ul style="list-style-type: none"> <li>• Y=059</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : To provide     1◀: Not provided</li> </ul>
	Specify the Development Table for DID digit conversion.	<ul style="list-style-type: none"> <li>• Y=170</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 3◀: Development Table 0</li> </ul>
	Provide DID digit conversion to the trunk route number.	<ul style="list-style-type: none"> <li>• Y=018</li> <li>(1) 00-63: Trunk Route No.</li> <li>(2) 0 : To provide     1◀: Not provided</li> </ul>
CM76	Assign the Number Conversion Block number for Development Table 0.	<ul style="list-style-type: none"> <li>• Y=00</li> <li>(1) X-XXXX: DID No.</li> <li>(2) 000-999 : Number Conversion Block No.     NONE◀: No data</li> </ul>
	Specify Call Waiting for DID call per incoming LDN number.	<ul style="list-style-type: none"> <li>• Y=10</li> <li>(1) 000-999: Number Conversion Block No.     assigned by CM76 Y=00.</li> <li>(2) 0 : Restricted     1◀: Allow</li> </ul>
	<p><b>NOTE:</b> <i>CM76 Y=10 is effective when the 2nd data of CM35 Y=018 is "0" (Received Digits Conversion is to be provided).</i></p>	
END		

To send SMFN STS (status) 3-9/3-10 when a call in OAI queuing is released:

START	DESCRIPTION	DATA
START   <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>   END	Specify whether OAI SMFN STS (status) 3-9/3-10 is sent when the call in OAI queuing is released.	(1) 851 (2) 0: To send

To provide sending SMFN during CAMP ON to the opposite office via CCIS (FID=6):

START	DESCRIPTION	DATA
START   <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>   END	Specify whether Caller ID Display/Name Display (Attendant Called/Calling Name Display) is provided for the called station when a call is terminated via CCIS.  Specify whether OAI SMFN is sent when setting CAMP ON of OAI SMFN FID=6 STS (status)=3 for the station/trunk in Call Hold status.	(1) 379 (2) 0 : Not provided 1◀: To provide  (1) 847 (2) 0 : To send 1◀: Not sent

To provide DND displaying (FID=12):

START	DESCRIPTION	DATA
START   <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;">CM08</div>   END	Provide the DND displaying on OAI when an observed station calls (SMFR FID=12) to the destination office set the DND over CCIS/ISDN/QSIG.	(1) 699 (2) 0: To provide

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To provide sending SMFN during Suite Room Service:

<u>START</u>	<u>DESCRIPTION</u>	<u>DATA</u>
CM08	Specify the type of terminal for OAI suite room terminal.	(1) 1602 (2) 0: Suite room terminal
<u>END</u>		

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## ***TROUBLESHOOTING FOR ETHER***

The following table shows the cause of trouble and the remedial action for ETHER. When trouble occurs, take the remedial action.

### **Troubleshooting for ETHER**

<b>TROUBLE</b>	<b>CAUSE</b>	<b>ACTION</b>
The system cannot communicate with an external processor at all.	The cables between the system and an external processor have not been connected properly.	Connect the cable properly.
	The IP Address overlaps with another.	Confirm the data set by CM0B Y=0XX/1XX>00, and assign the correct data.
	Port number does not match.	Confirm the port number. <ul style="list-style-type: none"> <li>• OAI port number must be set to 1024/1025/1039/60030 by CM0B Y=001/101&gt;41.</li> <li>• PCPro port number is fixed to 60000.</li> </ul>



The LED Indications on the CC-CP10-A blade on normal condition are as follows:

<b>LED</b>	<b>COLOR</b>	<b>STATUS</b>	
100 M	Green	Status indications of data speed on ETHERNET port	
		On	100 Mbps
		Off	10 Mbps
GbE	Green	Status Indication of data speed on ETHERNET port	
		On	Giga Bit ETHERNET (1000 Mbps)
		Off	10/100 Mbps
Dup	Yellow	Status Indication on negotiation mode of ETHERNET port	
		On	Full Duplex
		Off	Half Duplex
LINK	Green	Status Indication of link on ETHERNET port	
		On	Link: Established
		Blinking	Link: Established (Receiving Packets)
		Off	Link: Not established

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## ***CHARACTER CODE TABLE***

This appendix contains the character code table to set a station name displayed on Multiline Terminal or Attendant Console.

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## Character Code Table

X: Upper digit Y: Lower digit

Y \ X	2	3	4	5	6	7
0		0	@	P	\	p
1	!	1	A	Q	a	q
2	”	2	B	R	b	r
3	#	3	C	S	c	s
4	\$	4	D	T	d	t
5	%	5	E	U	e	u
6	&	6	F	V	f	v
7	'	7	G	W	g	w
8	(	8	H	X	h	x
9	)	9	I	Y	i	y
A	*	:	J	Z	j	z
B	+	;	K	[	k	{
C	,	<	L	¥	l	
D	-	=	M	]	m	}
E	.	>	N	^	n	~
F	/	?	O	_	o	←

**Example:** To set “John”, do the following operation.

$$\begin{array}{cccc} \underline{4A} & \underline{6F} & \underline{68} & \underline{6E} \\ J & o & h & n \end{array}$$

## Character Code Table for Russian

X: Upper digit Y: Lower digit

Y \ X	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P		p	C	É			O	Ю	α	Ɔ
1			!	1	A	Q	a	q	ü	æ		A	П	Я	ä	
2			“	2	B	R	b	r	é	Æ		Б	Р	Ѓ	β	θ
3			#	3	C	S	c	s	â	ô		B	C	I	ε	ω
4			\$	4	D	T	d	t	ä	ö		Г	Т	Ş	μ	Ω
5			%	5	E	U	e	u	à	ò		Д	У	ğ	σ	ü
6			&	6	F	V	f	v	â	û		Е	Ф	ı	ρ	Σ
7			'	7	G	W	g	w	ç	ù		Ё	X	ş	q	π
8			(	8	H	X	h	x	ê	ÿ		Ж	Ц	€	Ĵ	¯x
9			)	9	I	Y	i	y	ë	Ö		З	Ч		<sup>-1</sup>	y
A			*	:	J	Z	j	z	è	Ü		И	Ш		j	
B			+	;	K	[	k	{	ï	ç		Й	Щ		<sup>x</sup>	
C			,	<	L	¥	l		î	£		К	Ъ		ç	
D			-	=	M	]	m	}	ì			Л	Ы		£	
E			.	>	N	^	n	→	Ä	Pts		М	Ь		n	
F			/	?	O	_	o	←	Å	f		Н	Э		ö	

**Example:** To set “ИВАН”, do the following operation.

$$\begin{array}{cccc} \underline{BA} & \underline{B3} & \underline{B1} & \underline{BF} \\ \underline{И} & \underline{В} & \underline{А} & \underline{Н} \end{array}$$

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