

NEC



DT900 Series

Data Maintenance Tool

User's Guide

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1 Preface

Thank you for using our "DT900 Series Data Maintenance Tool" (hereinafter referred to as "Maintenance Tool").

Maintenance Tool provides functions to back up and restore DT900/DT800/DT700 Series terminal (telephone) data. It can be used to download hold music, ringer tones and wallpapers, edit local telephone directory from a PC to a DT900/DT800/DT700 Series terminal (telephone) over a local area network.

1.1 Overview

Maintenance Tool is composed of Tool Manager, Data Maintenance Tool and Local Directory Support Tool.

These components have the following functions respectively:

[Tool Manager]

- Activate Data Maintenance Tool.
- Activate Local Directory Support Tool.
- Activate Shortcut Data Support Tool.

[Data Maintenance Tool]

- Back up data in terminal (telephone). (*1)
- Restore backup data of terminal (telephone). (*1)
- Download hold music to terminal (telephone).
- Download ringer tones to terminal (telephone).
- Download wallpapers to terminal (telephone).

[Local Directory Support Tool] (*2)

- Retrieve local telephone directory from terminal (telephone) (upload) (*1)
- Update local telephone directory in terminal (telephone) (download) (*1)
- Edit telephone directory data in terminal (telephone)
- Save telephone directory data of terminal (telephone)
- Read telephone directory data of terminal (telephone)
- Export telephone directory (CSV files) of terminal (telephone)
- Import telephone directory (CSV files) of terminal (telephone)
- Import telephone directory (CSV files) of an existing handset

[Shortcut Data Support Tool] (*3)

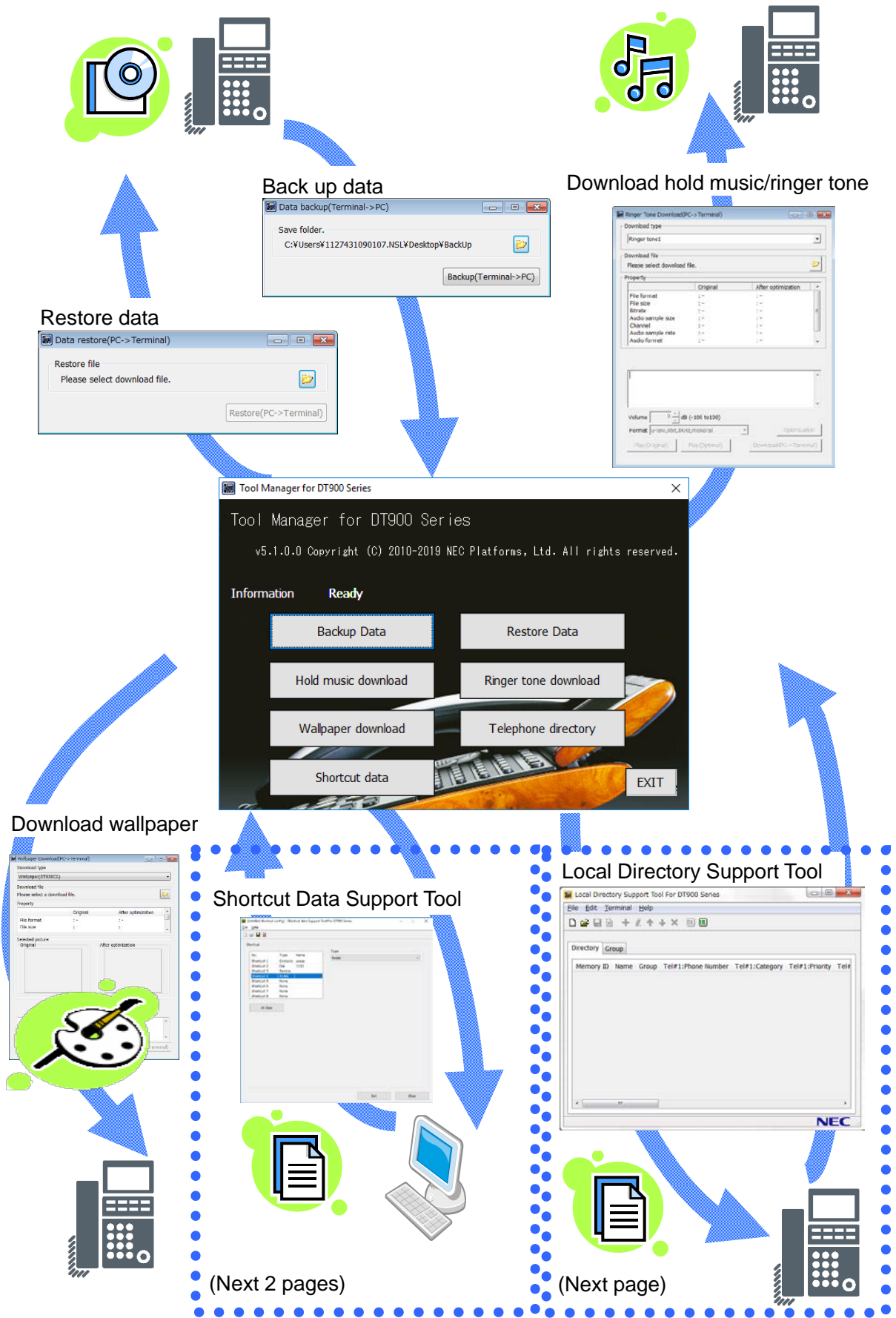
- Make Shortcut Data
- Edit Shortcut Data
- Save Shortcut Data

- Read Shortcut Data

(*1) You can choose secure communication (encrypted communication using SSL).

(*2) For details on Telephone Directory Tool, please refer to "DT900 Series Local Directory Support Tool User's Guide."

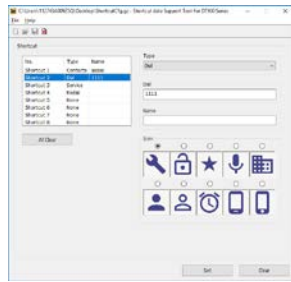
(*3) For details on Shortcut Tool, please refer to "DT900 Series Shortcut Data Support Tool User's Guide."



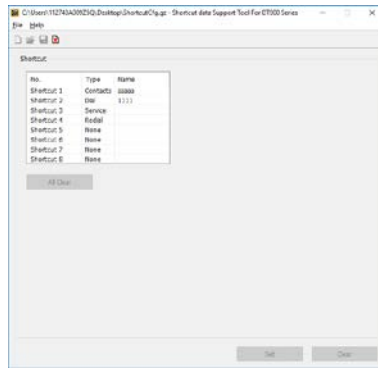
The specifications and designs of the product are subject to change for improvement without prior notice.

Shortcut Data Support Tool

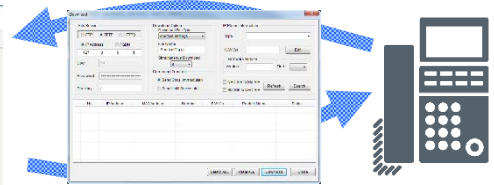
Edit shortcut



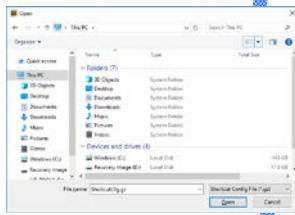
Main Window



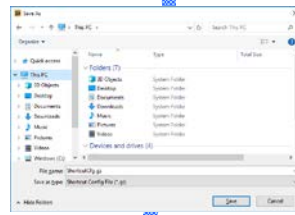
Download data to the terminal with IP Phone



Open



Save



gz compressed file

(This file is editable only using this tool)

The specifications and designs of the product are subject to change for improvement without prior notice.

2 Operating Environment

The following table shows the operating environment of the Maintenance Tool:

OS	Version	Windows 7 Professional 32/64bit with SP1 or later Windows 8.1 Pro 32/64bit Windows 10 Pro 32/64bit
	Language	Japanese, English

3 Notes

3.1 Model

- Maintenance Tool is dedicated to the DT900/DT800/DT700 Series terminal.

3.2 Usage Restrictions

- Installing Maintenance Tool requires administrative privileges.
- Maintenance Tool cannot be used with DT900/DT800/DT700 Series terminal "Web Programming" simultaneously.
Maintenance Tool may not function normally on a PC on which another tftp server application is running.
- PCs, where screen resolution is set to other than "Normal Size (96 DPI)", may be unable to display screens normally. You can check screen resolution (DPI setting) from screen properties.
- If the enlargement ratio setting of Windows text display is set to a value greater than 100%, the layout of the application screen will collapse. In this case, please set the enlargement ratio to 100% by the following procedure.

* Signing out is necessary to enable this setting.

For Windows 7, Windows 8.1:

1. Right-click from the desktop and open "Screen resolution" in the context menu.
2. Click "Make text and other items larger or smaller".
3. Set "Change the size of all items" to "100%".
4. Sign out or log off from the PC.

For Windows 10:

1. Right-click from the desktop and select "Display settings" in the context menu.
2. Set "Change the size of text, apps, and other items" to "100%".
3. Sign out from the PC.

4 Before Use

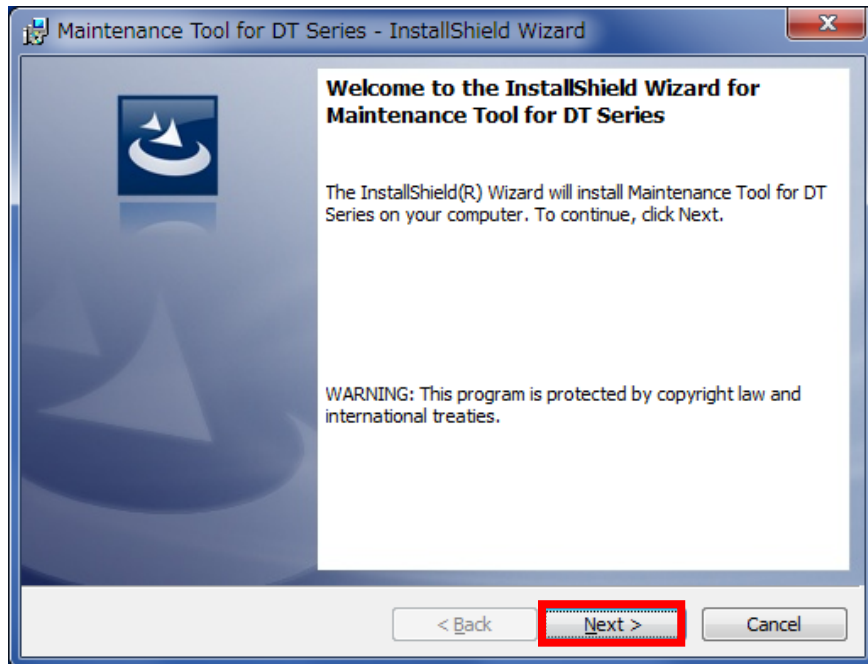
4.1 Installing Maintenance Tool

Install Maintenance Tool on your PC.

Confirm the PC environment, and start the setup.

Step 1: Double-click "setup.bat" of Data Maintenance Tool for DT900 Series.

When "Maintenance Tool for DT Series - InstallShield Wizard" screen appears, follow the on-screen instructions to install.

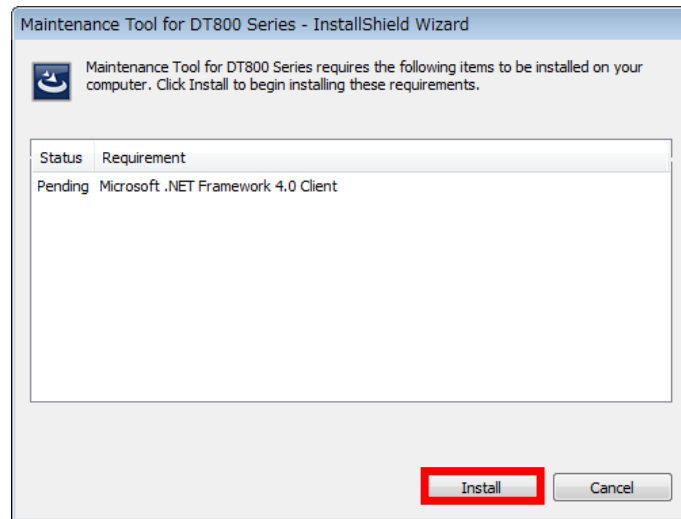




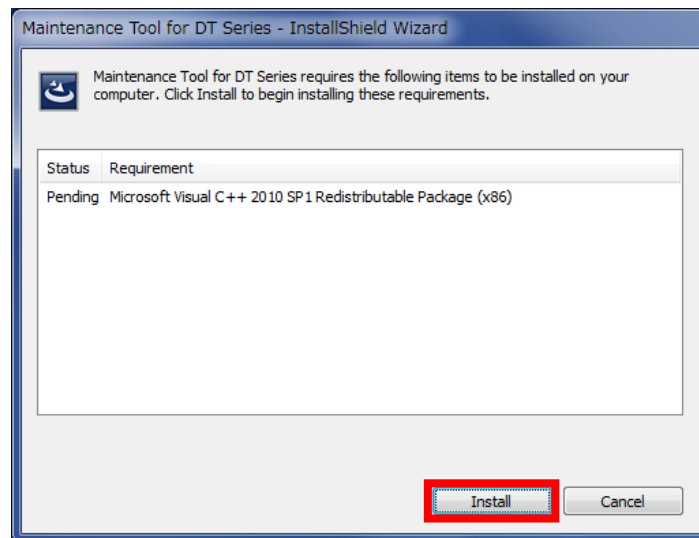
If "Microsoft .NET Framework 4.0 Client" or "Microsoft Visual C++ 2010 SP1 Redistributable Package (x86)" is not installed on the PC in which you want to install Maintenance Tool, the following screen appears during installation of Maintenance Tool.

Proceed with installation according to the instructions on the screen.

(1) Microsoft .NET Framework 4.0 Client



(2) Microsoft Visual C++ 2010 SP1 Redistributable Package (x86)

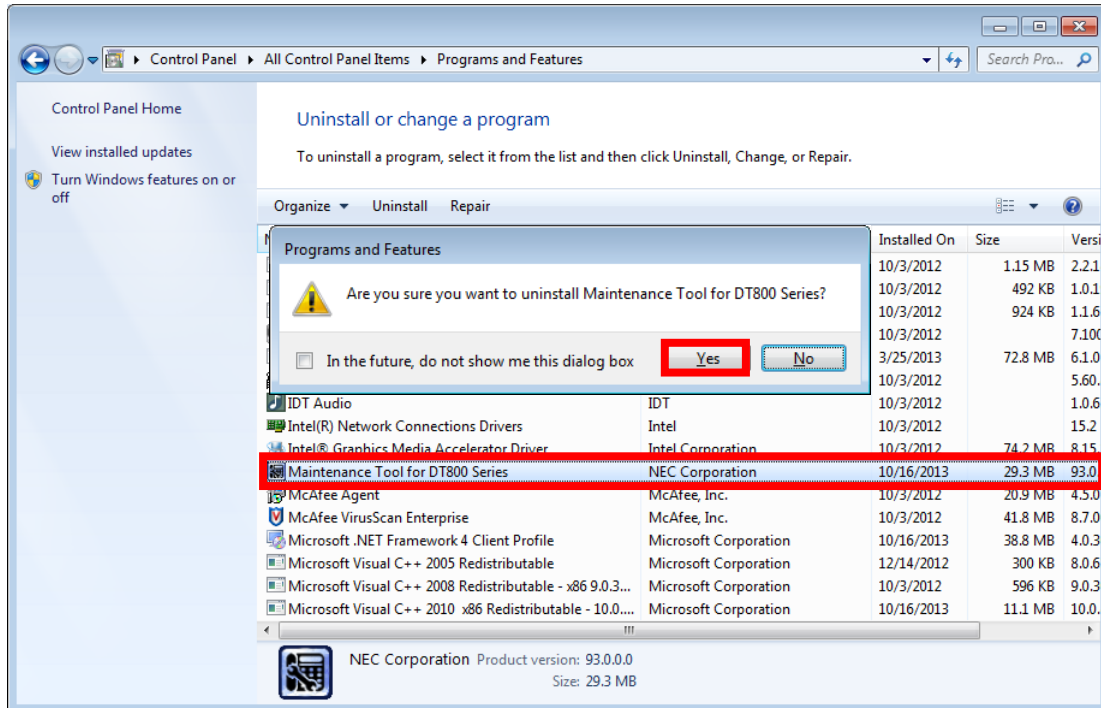


4.2 Uninstalling Maintenance Tool

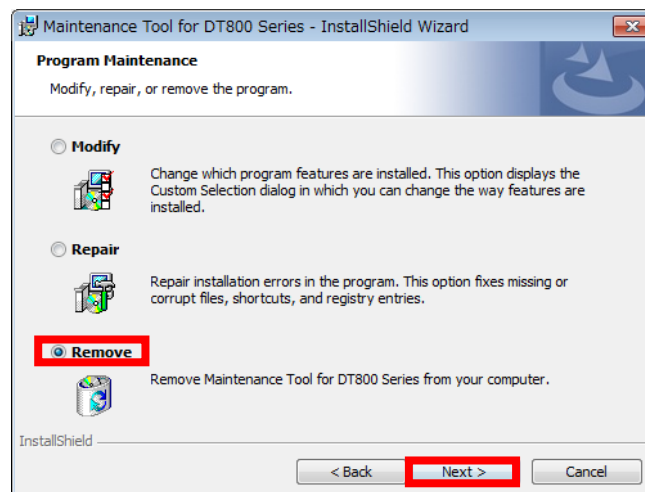
Uninstall Maintenance Tool by the following procedure.

Step 1: Open the Windows Control Panel and select **Programs and Features**.

Step 2: Select "Maintenance Tool for DT Series", and click [Yes] button.



Step 3: Follow the on-screen instructions to delete the program.



After uninstallation, the folder in which Maintenance Tool was installed or its files may still remain. In this case, manually delete the folder and its files.

5 Tool Manager

The Tool Manager provides tool information, status information and an interface for performing Data Maintenance functions. This section describes how to start and stop Tool Manager and describes the Tool Manager screen.

5.1 Start and Termination

5.1.1 Starting Tool Manager

There are two ways to start Tool Manager.

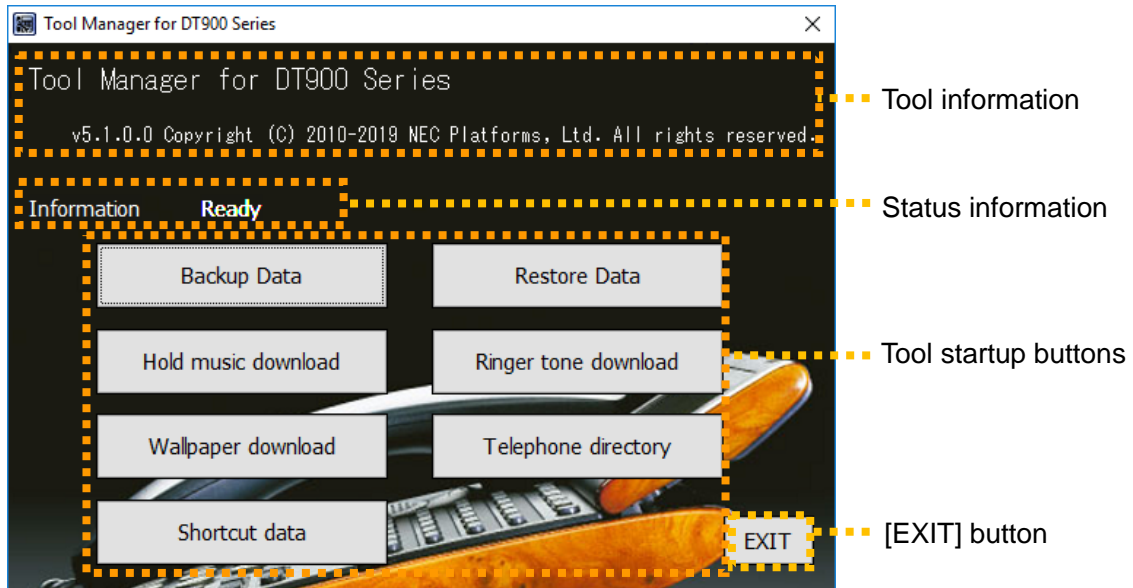
1. Start Tool Manager by double-clicking the [Tool Manager for DT900 Series] icon.
2. Start Tool Manager from the start menu of Windows by clicking [Start] -> [All Programs] -> [NEC] -> [Maintenance Tool for DT900 Series] -> [Tool Manager for DT900 Series].

5.1.2 Terminating Tool Manager

There are two ways to terminate Tool Manager.

1. Click the [Exit] button located at the bottom right of the screen.
When the termination confirmation appears,
click the [OK] button to terminate Tool Manager.
2. Click the [x] button located at the top right of the screen.
When the termination confirmation appears,
click the [OK] button to terminate Tool Manager.

5.2 Screen Description



Tool information	Displays the tool name, version, and copyright.
Status information	Displays the current tool startup status.
Tool startup buttons	Starts each function of Data Maintenance Tool or Local Directory Support Tool.
[Backup Data]	Starts the data backup function.
[Restore Data]	Starts the data restore function.
[Hold music download]	Starts the hold music download function.
[Ringer tone download]	Starts the ringer tone download function.
[Wallpaper download]	Starts the wallpaper download function.
[Telephone directory]	Starts Local Directory Support Tool.
[Shortcut Data]	Starts Shortcut Data Support Tool.
[EXIT] button	Terminates Tool Manager.

6 Data Maintenance Tool

This section describes how to use Data Maintenance Tool functions.

6.1 How to Back Up Data for Terminal (Telephone)

You can back up data for terminal (telephone). The data that can be backed up depends on the terminal (telephone) model as shown below:

	DT920 (6D/12D)	DT920 (8LCX)	DT930CG	DT930G (8TCGX)
User Setting	○	○	○	○
Hold music	○	○	○	○
Ringer tone 1	×	○	○	○
Ringer tone 2	×	○	○	○
Ringer tone 3	×	○	○	○
Local telephone directory	×	○	○	○
History of incoming/outgoing calls	×	○	○	○
Wallpaper	×	○	○	○

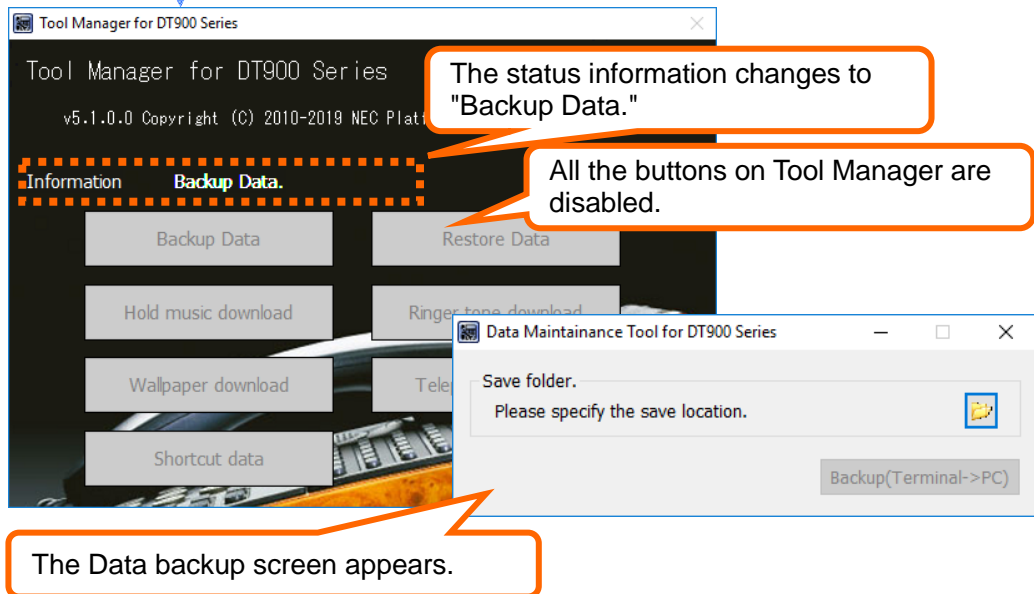
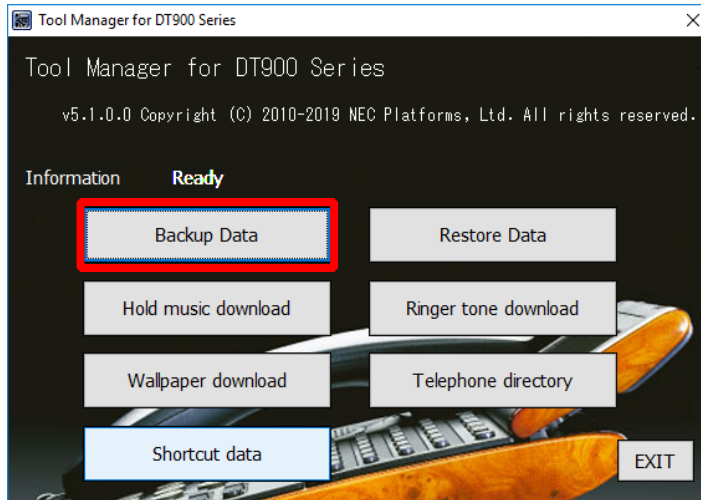
	DT830G (12CG/ 24CG)	DT830G (12DG/ 24DG)	DT830	DT820 (8LCGX)	DT820 (8LDX)	DT820 (6D)	SL2100 IP Phone
User Setting	○	○	○	○	○	○	○
Hold music	○	○	○	○	○	○	○
Ringer tone 1	○	○	○	○	○	×	○
Ringer tone 2	○	○	○	○	○	×	○
Ringer tone 3	○	○	○	○	○	×	○
Local telephone directory	○	○	○	○	×	×	×
History of incoming/outgoing calls	○	○	○	○	×	×	×
Wallpaper	○	×	×	○	×	×	×

	DT750	DT730	DT710	DT730G (12CG/ 24CG)	DT730G (12DG/ 24DG)	DT770G
User Setting	○	○	○	○	○	○
Hold music	○	○	○	○	○	○
Ringer tone 1	○	○	×	○	○	○
Ringer tone 2	○	○	×	○	○	○
Ringer tone 3	○	○	×	○	○	○

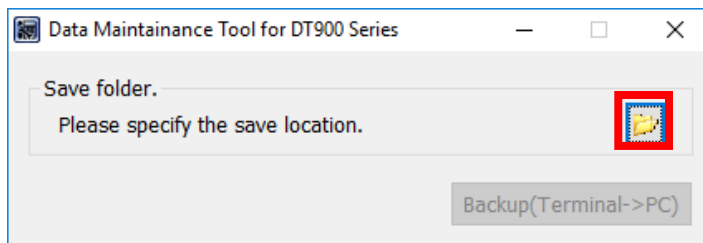
Local telephone directory	○	○	×	○	○	×
History of incoming/outgoing calls	○	○	×	○	○	×
Wallpaper	○	×	×	○	×	×

To back up data:

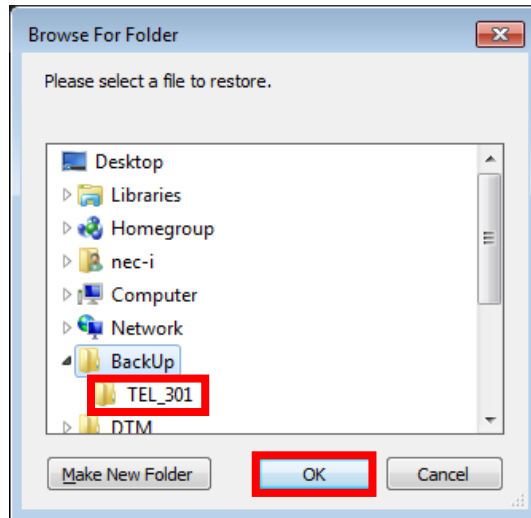
Step 1: Click the [Backup Data] button on Tool Manager.



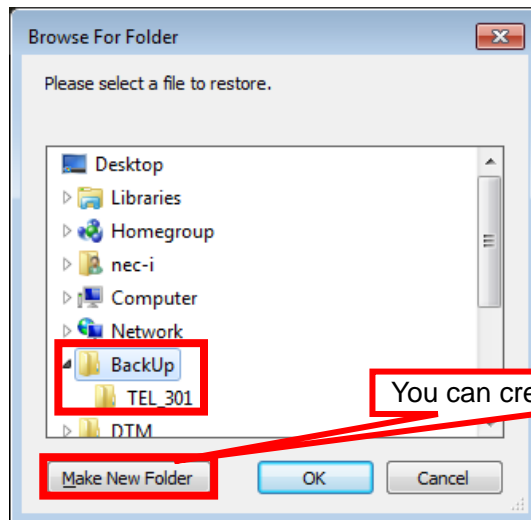
Step 2: Click the folder icon on the Data backup screen.



Step 3: Select a folder to save the backup data, and click the [OK] button.

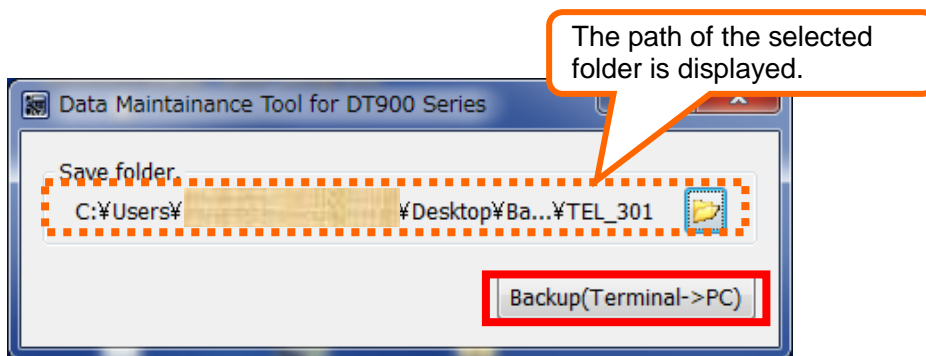


Backup files are saved as "PersonalData_yyyymmddhhmmss.tgz."
It is recommended that you create a folder for each terminal to easily find the source terminal.



You can create a new folder.

Step 4: Click the [Backup (Terminal -> PC)] button.



Step 5: Set every item on the Upload screen, and click the [Run] button.

Upload (Terminal->PC) - Data Maintenance Tool for DT900 Series

Specified Terminal

Extension Number :

IP address : 192 . 168 . 0 . 8

User Authentication

ID : USER

Password : ●●●●

Computer Network Settings

IP address : 10.47.191.172

Secure Setting

Secure Communication Enable

Run Close

✓ Specified Terminal

Specify the telephone number or IP address of the terminal (telephone) to obtain data.



When a telephone number is used, the PC and terminal (telephone) must be on the same network segment.

✓ User Authentication

Specify an ID and password to log in to the terminal (telephone).



ID: USER
Password: 0000 (Default)



"ID" and "password" is important information. Please be careful about handling sufficiently. Please be sure to change and use the password.
Please change it periodically for a password to raise safety, and we encourage in the complicated setting which can't be guessed easily.

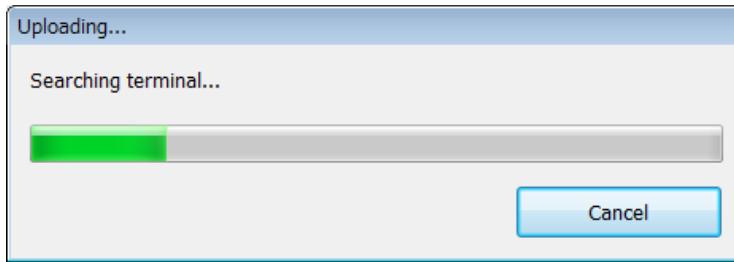
✓ Computer Network Settings

Select the IP address of the PC on which this tool is running.

✓ Secure Setting

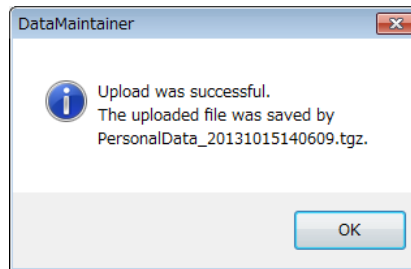
Specify whether secure communication is validated.

The following screen appears after the [Run] button is clicked.



If the upload succeeds

PC side



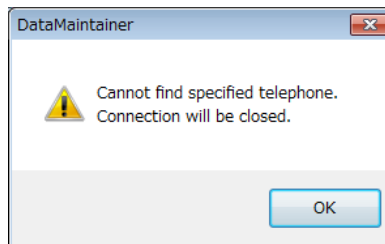
The backup file name of the uploaded file is displayed.
Click the [OK] button to close the screen.

Terminal (telephone) side

"Upload Complete!" is displayed on the screen.
Press the [Exit] soft key located below the display to close the screen.

If the upload fails

PC side



An error message appears.
Click the [OK] button to close the screen.
* Some displayed messages vary depending on the error.
For details, see attached "**Appendix I: Error Messages.**"

Terminal (telephone) side

"Upload Failed" is displayed on the screen.
Press the [Exit] soft key located below the display to close the screen.

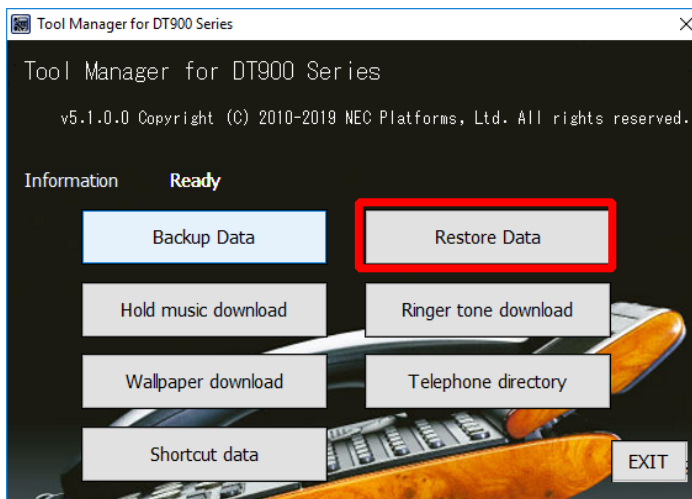
6.2 How to Restore Backup Data of the Terminal (Telephone)

To restore backup data to the terminal (telephone), follow the steps below.



- Do not restore data that has been backed up for another terminal model.
(Example: Restoring data backed up for a DT730 to a DT750.)
For data to be backed up, see
"6.1 How to Back Up Data for Terminal (Telephone)."
- When data is restored, it overwrites the data in the terminal.
(Example: Assume that after 40 history records are backed up, 20 new ones accumulate. When you restore the backup data, the 20 new records are deleted because they are overwritten by the 40 backup records.)

Step 1: Click the [Restore Data] button on Tool Manager.



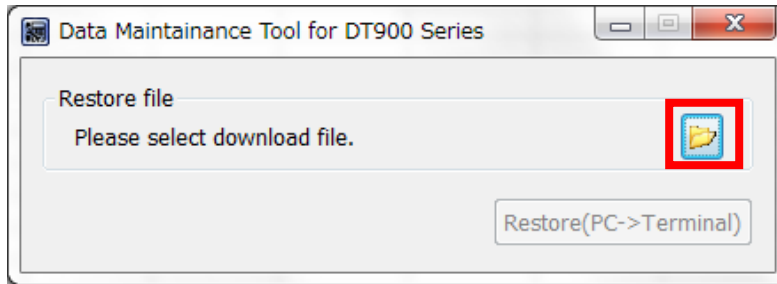
Click

The status information changes to "Restore Data."

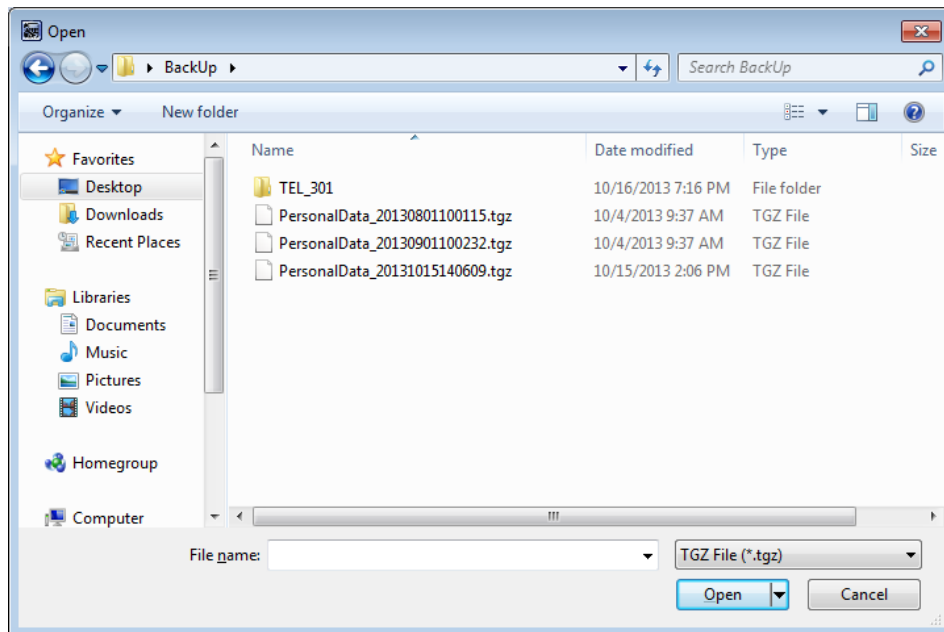
All the buttons on Tool Manager are disabled.

The Data restore screen appears.

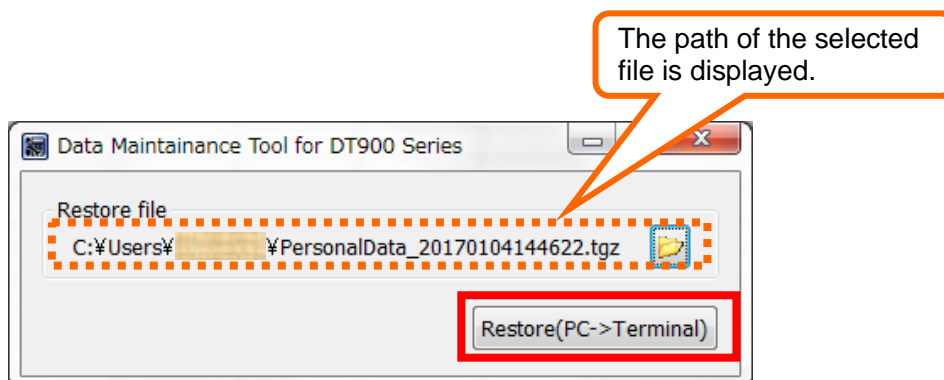
Step 2: Click the folder icon on the Data restore screen.



Step 3: Select the backup data to be restored.



Step 4: Click the [Restore (PC -> Terminal)] button.



Step 5: Set every item on the Download screen, and click the [Run] button.

Download (PC->Terminal) - OK

Specified Terminal

Extension Number : 301

IP address : 0 . 0 . 0 . 0

User Authentication

ID : USER

Password : ●●●●

Computer Network Settings

IP address : 192.168.0.123

Secure Setting

Secure Communication Enable

Run Close

✓ Specified Terminal

Specify the telephone number or IP address of the terminal (telephone) to which the data is uploaded.



When a telephone number is used, the PC and terminal (telephone) must be on the same network segment.

✓ User Authentication

Specify an ID and password to log in to the terminal (telephone).



ID: USER
Password: 0000 (Default)



"ID" and "password" is important information. Please be careful about handling sufficiently. Please be sure to change and use the password.

Please change it periodically for a password to raise safety, and we encourage in the complicated setting which can't be guessed easily.

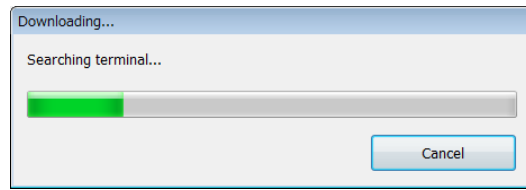
✓ Computer Network Settings

Select the IP address of the PC on which this tool is running.

✓ Secure Setting

Specify whether secure communication is validated.

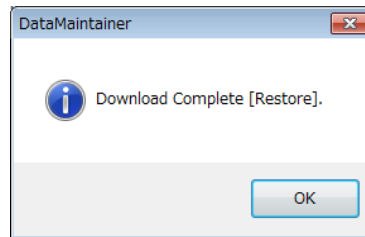
The following screen appears after the [Run] button is clicked.



When download is cancelled, the file transfer to the terminal may be completed and then the file may be updated depending on the timing.

If the download succeeds

PC side



A message appears indicating that the download was completed successfully. Click the [OK] button to close the screen.

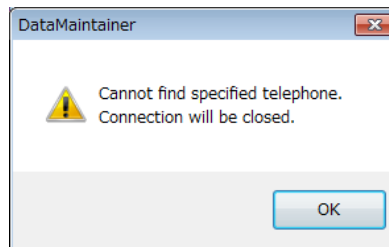
Terminal (telephone) side

"Download Complete!" is displayed on the screen.

Press the [Exit] soft key located below the display to close the screen.

If the download fails

PC side



An error message appears.

Click the [OK] button to close the screen.

* Some displayed messages vary depending on the error.

For details, see attached "**Appendix I: Error Messages.**"

Terminal (telephone) side

"Download Failed" is displayed on the screen.

Press the [Exit] soft key located below the display to close the screen.

6.3 How to Download Hold Music to the Terminal (Telephone)

The instructions below explain how to download hold music to the terminal (telephone).

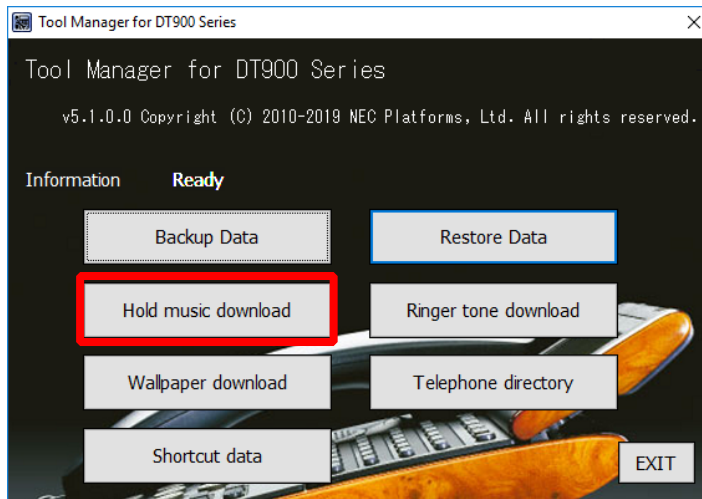
The download possible, is a voice file of the following conditions.

- ✓ The format of the voice file, the following

Audio format	G.711 u-Law
Audio sample rate	8 kHz
Audio sample size	8 bit
Channel	Monaural
Play time	32 seconds or less

- ✓ That there is no copyright information and additional information

Step 1: Click the [Hold music download] button on Tool Manager.



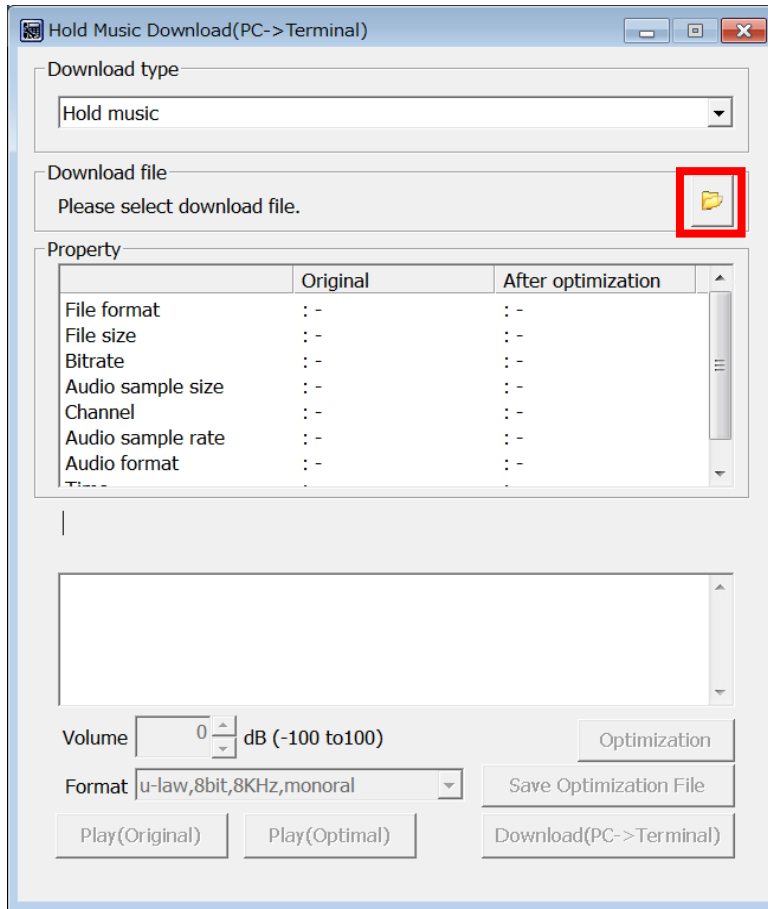


Click.

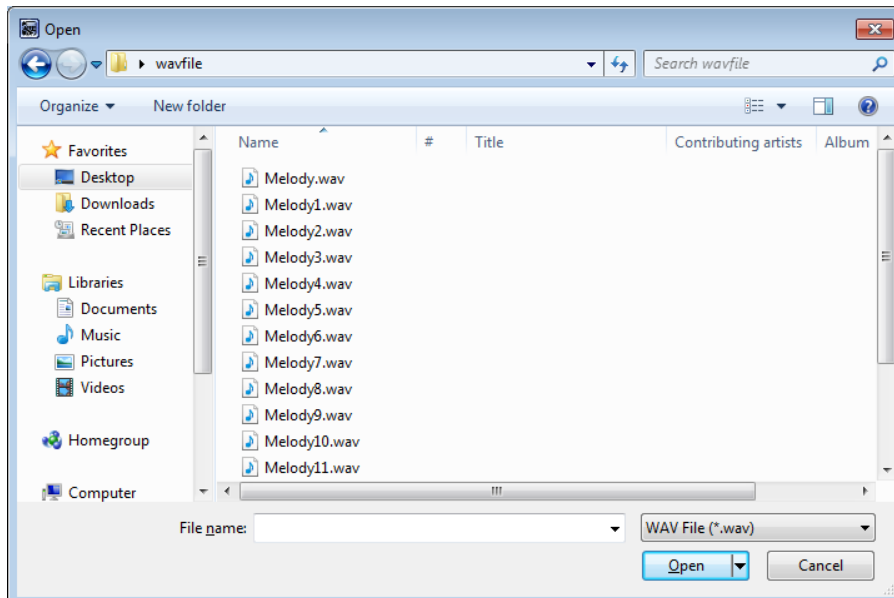
The screenshot shows the 'Tool Manager for DT900 Series' application. The 'Information' tab is active, and the status is 'Hold music download.'. The 'Hold music download' button is highlighted with a dashed orange box. A callout points to this button, stating 'The Download of Hold Music screen appears.'. Another callout points to the disabled buttons, stating 'All the buttons on Tool Manager are disabled.'. A third callout points to the status text, stating 'The status information changes to "Hold music download."'. An inset window titled 'Hold Music Download(PC->Terminal)' is shown, displaying a 'Download type' dropdown set to 'Hold music', a 'Download file' selection field, and a 'Property' table.

Property	Original	After optimization
File format	: -	: -
File size	: -	: -
Bitrate	: -	: -
Audio sample size	: -	: -
Channel	: -	: -
Audio sample rate	: -	: -
Audio format	: -	: -

Step 2: Click the folder icon.



Step 3: Select a voice file to be downloaded to the terminal (telephone) as the hold music.



The type of voice file that can be specified, is "Wave sound (wav format)".

State after the specified voice file.

The screenshot shows the 'Hold Music Download' application window. It features several sections: 'Download type' with a dropdown menu set to 'Hold music'; 'Download file' with the path 'C:\sample1.wav'; a 'Property' table comparing 'Original' and 'After optimization' attributes; a message box stating 'The appointed voice file is enable to use telephone.'; and a control panel with 'Volume', 'Format', and 'Optimization' buttons.

	Original	After optimization
File format	: WAV	: -
File size	: 251,924 byte	: -
Bitrate	: 64 kbps	: -
Audio sample size	: 8 bit	: -
Channel	: Monaural	: -
Audio sample rate	: 8 kHz	: -
Audio format	: u-Law	: -

Callouts:

- Top right: The path of the selected voice file is displayed.
- Middle right: The property information of the selected voice file is displayed.
- Bottom right: Suggestion message for optimization



The following information is displayed as the property information:

- ✓ File format
- ✓ File size
- ✓ Bit rate
- ✓ Audio sample size
- ✓ Channel
- ✓ Audio sample rate
- ✓ Audio format
- ✓ Time
- ✓ Add data

* Not displayed when no addition information is available.

- ✓ Copyright information

The following information is displayed if there are appropriate.

* Not displayed when no copyright information is available.

- | | | |
|---------------------|-------------------|---------------|
| - Archival Location | - Dots Per Inch | - Product |
| - Artist | - Engineer | - Subject |
| - Commissioned | - Genre | - Software |
| - Comments | - Keywords | - Sharpness |
| - Copyright | - Lightness | - Source |
| - Creation date | - Medium | - Source Form |
| - Cropped | - Name | - Technician |
| - Dimensions | - Palette Setting | |

- ✓ The maximum momentary loudness
- ✓ Clipping



Explanation about suggestion messages for optimization

The optimization recommended message, the specified voice file is the message to tell whether or not it is possible to use as a hold music.

Optimization recommendation message displays the following message.

1. "The appointed voice file is enable to use telephone."

If this message is displayed, the specified voice file can be used to the telephone of hold music.

Please proceed to Step 4.

Caution:

If make your own a voice file, Volume might not be appropriate.

It is recommended to adjust the volume.

For information about how to adjust the volume, please refer to the "

6.7.3How to Adjust the Volume of a Voice File to Be Downloaded"

2. "The selected voice file has the following problems.

Please click the optimization button to resolve the problem."

If this message is displayed, the specified voice file cannot use the telephone of hold music.

The details of the problem, to display in red characters.

Convert to the voice file that can be used with the telephone by executing the optimization.

For information about how to optimize, please refer to the

"6.7Optimization of the voice file"

3."Audio format of the specified voice file is not supported."

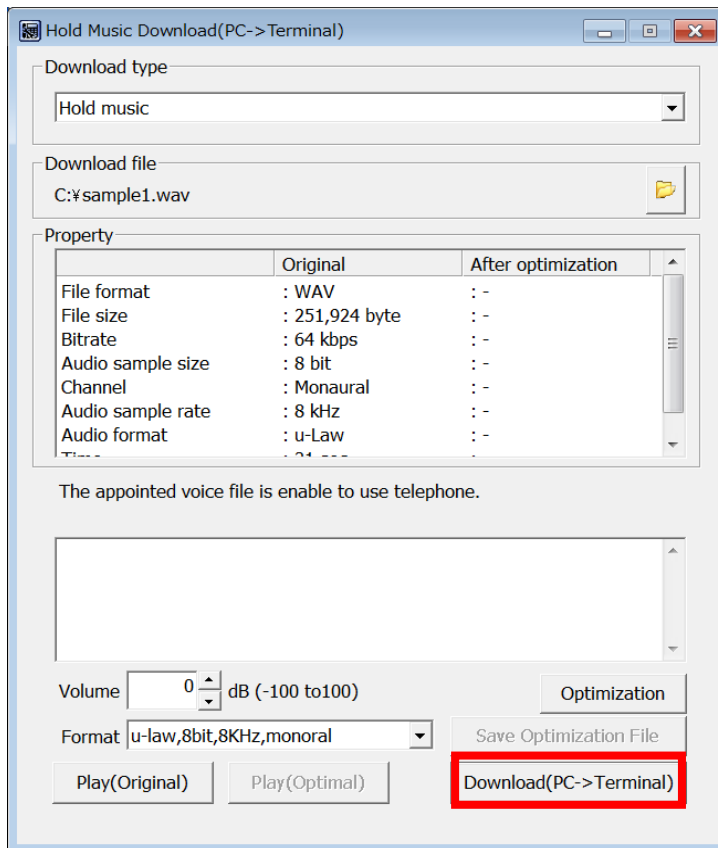
If this message displayed, the specified voice file cannot be converted to a playable voice file on the telephone.

Please change to the following audio format.

Correspondence audio format: PCM/u-Law.

(When this message is displayed, the file is unsupported format)

Step 4: Click the [Download (PC -> Terminal)] button.



Step 5: Set every item on the Download screen, and click the [Run] button.

Download (PC->Terminal) - OK

Specified Terminal

Extension Number : 301

IP address : 192 . 168 . 0 . 20

User Authentication

ID : USER

Password : ●●●●

Computer Network Settings

IP address : 192.168.0.123

Secure Setting

Secure Communication Enable

Run Close

✓ Specified Terminal

Specify the extension number or IP address of the terminal (telephone) whose voice file is to be sent.



When a telephone number is used, the PC and terminal (telephone) must be on the same network segment.

✓ User Authentication

Specify an ID and password to log in to the terminal (telephone).



ID: USER
Password: 0000 (Default)



"ID" and "password" is important information. Please be careful about handling sufficiently. Please be sure to change and use the password.

Please change it periodically for a password to raise safety, and we encourage in the complicated setting which can't be guessed easily.

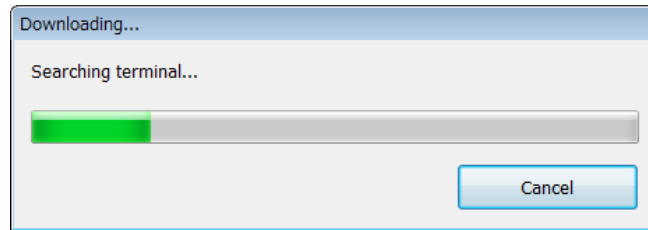
✓ Computer Network Settings

Select the IP address of the PC on which this tool is running.

✓ Secure Setting

Secure communication cannot be specified when downloading voice files.

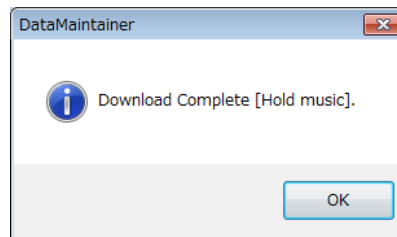
The following screen appears after the [Run] button is clicked.



When download is cancelled, the file transfer to the terminal may be completed and then the file may be updated depending on the timing.

If the download succeeds

PC side



A message appears indicating that the download was completed successfully. Click the [OK] button to close the screen.

Terminal (telephone) side

"Download Complete!" is displayed on the screen.

Press the [Exit] soft key located below the display to close the screen.



You can check the hold music downloaded to the terminal by playing it on the terminal.

Step 1: Press the [Menu] button on the terminal.

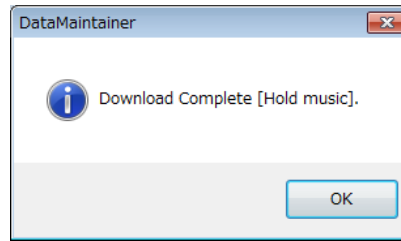
Step 2: Select [Setting] -> [User Setting] -> [Talk] -> [Hold Music].

Step 3: Select [Download].

* If the volume is not appropriate, see "**6.7.3 How to Adjust the Volume of a Voice File to Be Downloaded**".

If the download fails

PC side



An error message appears.

Click the [OK] button to close the screen.

* Some displayed messages vary depending on the error.

For details, see attached "**Appendix I: Error Messages.**"

Terminal (telephone) side

"Download Failed" is displayed on the screen.

Press the [Exit] soft key located below the display to close the screen.

6.4 How to Download Ringer Tone to the Terminal (Telephone)

The instructions below explain how to download ringer tone to the terminal (telephone).

The download possible, is a voice file of the following conditions.

- ✓ The format of the voice file, the following

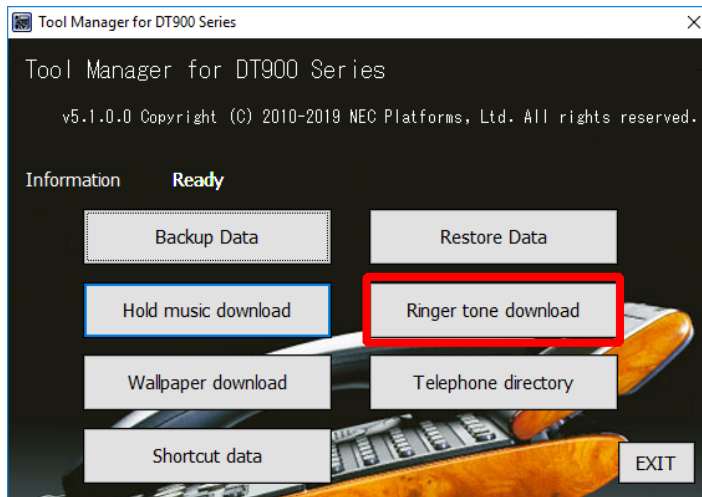
Audio format	G.711 u-Law	Linear PCM (*1)
Audio sample rate	8 kHz	16kHz
Audio sample size	8 bit	16bit
Channel	Monaural	Monaural
Play time	32 seconds or less	32 seconds or less

(*1) It is supported by DT900 Series and DT 800 Series (FW version 5.1.x.x or later).

If downloading to a phone of an earlier version, download error will result.

- ✓ That there is no copyright information and additional information

Step 1: Click the [Ringer tone download] button on Tool Manager.





Click.

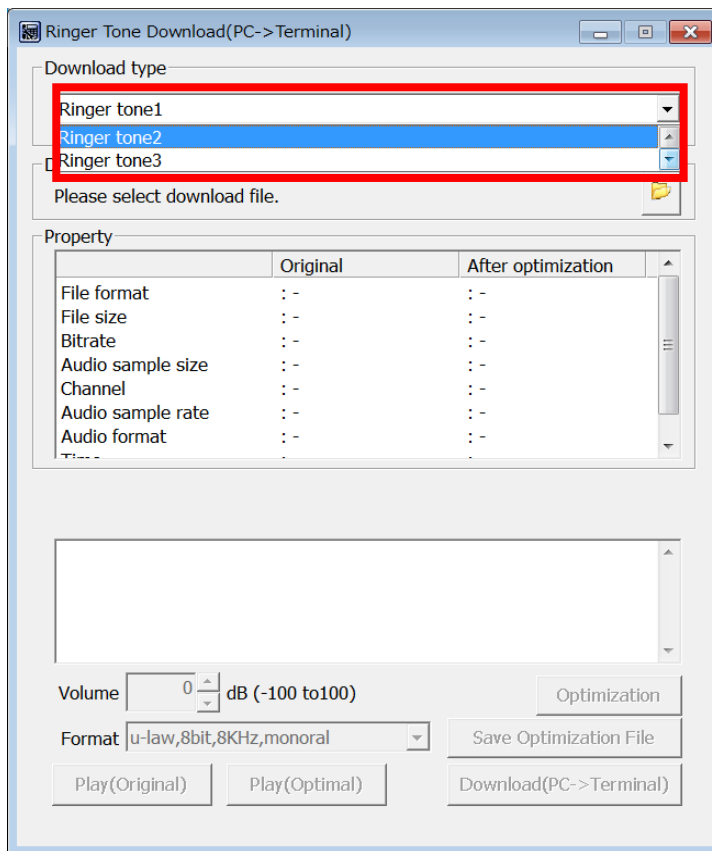
The status information changes to "Ringer tone download."

All the buttons on Tool Manager are disabled.

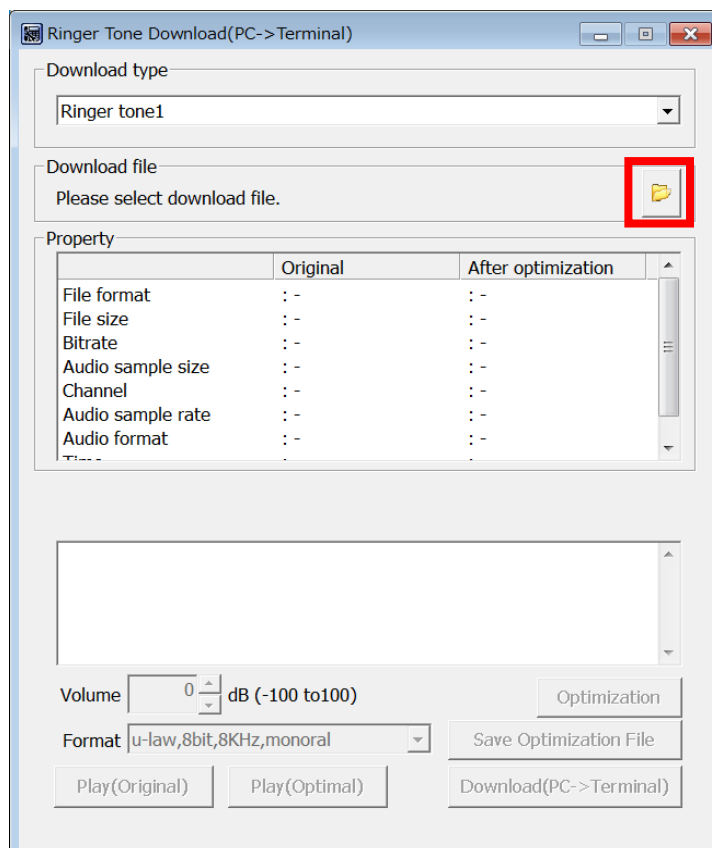
The Download of Ringer tone screen appears.

	Original	After optimization
File format	: -	: -
File size	: -	: -
Bitrate	: -	: -
Audio sample size	: -	: -
Channel	: -	: -
Audio sample rate	: -	: -
Audio format	: -	: -

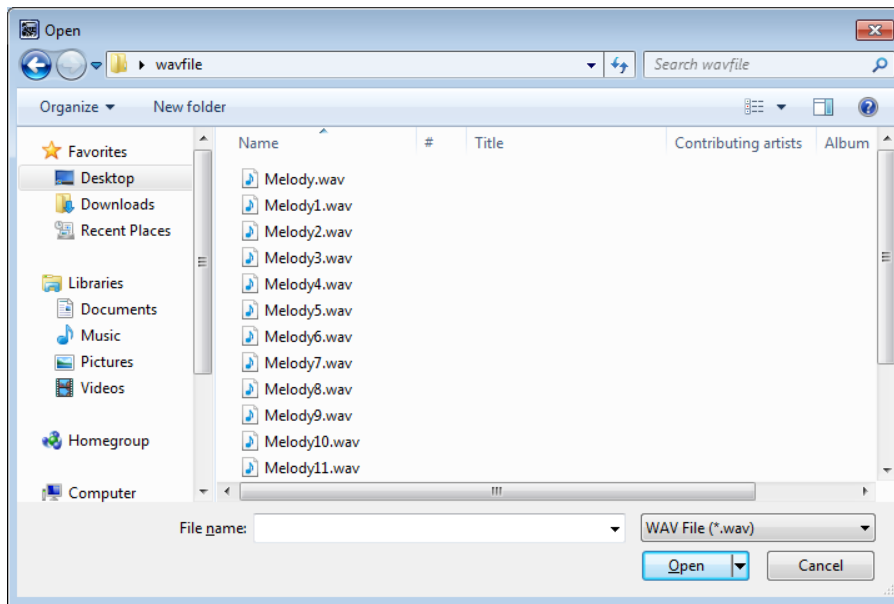
Step 2: Click on the [Download type] box, and select a ringer tone you want to download from 1 to 3.



Step 3: Click the folder icon.



Step 4: Select a voice file to be downloaded to the terminal (telephone) as the ringer tone.



The type of voice file that can be specified, is "Wave sound (wav format)".

State after the specified voice file.

The screenshot shows the 'Ringer Tone Download(PC->Terminal)' application window. It features several sections: 'Download type' with a dropdown menu set to 'Ringer tone1'; 'Download file' with a text field containing 'C:\sample1.wav' and a folder icon; 'Property' with a table comparing 'Original' and 'After optimization' attributes; a message box stating 'The appointed voice file is enable to use telephone.'; and a control panel with 'Volume' (0 dB), 'Format' (u-law,8bit,8KHz,monoral), and buttons for 'Optimization', 'Save Optimization File', 'Play(Original)', 'Play(Optimal)', and 'Download(PC->Terminal)'. Three callout boxes with orange borders point to specific elements: the first points to the file path, the second to the property table, and the third to the message box.

	Original	After optimization
File format	: WAV	: -
File size	: 251,924 byte	: -
Bitrate	: 64 kbps	: -
Audio sample size	: 8 bit	: -
Channel	: Monaural	: -
Audio sample rate	: 8 kHz	: -
Audio format	: u-Law	: -

The appointed voice file is enable to use telephone.

Volume dB (-100 to100)

Format

The path of the selected voice file is displayed.

The property information of the selected voice file is displayed.

Suggestion message for optimization



The following information is displayed as the property information:

- ✓ File format
- ✓ File size
- ✓ Bit rate
- ✓ Audio sample size
- ✓ Channel
- ✓ Audio sample rate
- ✓ Audio format
- ✓ Time
- ✓ Add data

* Not displayed when no addition information is available.

- ✓ Copyright information

The following information is displayed if there are appropriate.

* Not displayed when no copyright information is available.

- | | | |
|---------------------|-------------------|---------------|
| - Archival Location | - Dots Per Inch | - Product |
| - Artist | - Engineer | - Subject |
| - Commissioned | - Genre | - Software |
| - Comments | - Keywords | - Sharpness |
| - Copyright | - Lightness | - Source |
| - Creation date | - Medium | - Source Form |
| - Cropped | - Name | - Technician |
| - Dimensions | - Palette Setting | |

- ✓ The maximum momentary loudness
- ✓ Clipping



Explanation about suggestion messages for optimization

The optimization recommended message, the specified voice file is the message to tell whether or not it is possible to use as a ringer tone.

Optimization recommendation message displays the following message.

1. "The appointed voice file is enable to use telephone."

If this message is displayed, the specified voice file can be used to the phone of ringer tone.

Please proceed to Step 5.

Caution:

If make your own a voice file, Volume might not be appropriate.

It is recommended to adjust the volume.

For information about how to adjust the volume, please refer to the "

6.7.3How to Adjust the Volume of a Voice File to Be Downloaded"

2. "The selected voice file has the following problems.

Please click the optimization button to resolve the problem."

If this message is displayed, the specified voice file cannot use the telephone of ringer tone.

The details of the problem, to display in red characters.

Convert to the voice file that can be used with the telephone by executing the optimization.

For information about how to optimize, please refer to the

"6.7 Optimization of the voice file"

3. "Audio format of the specified voice file is not supported."

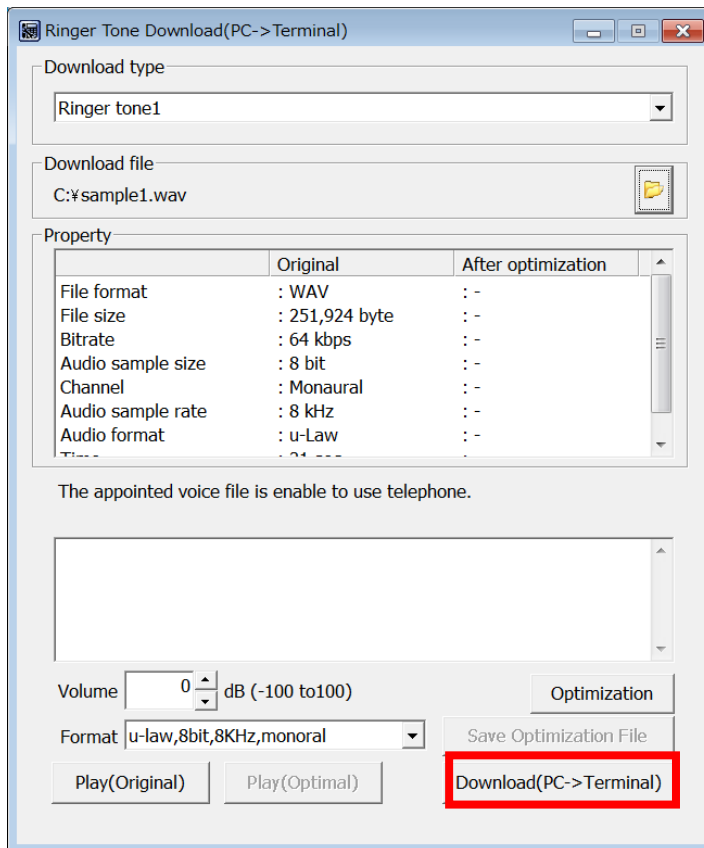
If this message displayed, the specified voice file cannot be converted to a playable voice file on the telephone.

Please change to the following audio format.

Correspondence audio format: PCM/u-Law.

(When this message is displayed, the file is unsupported format)

Step 5: Click the [Download (PC -> Terminal)] button.



For subsequent operations, see Step 5 and after in “6.3 How to Download Hold Music to the Terminal”



On the terminal, you can play and hear the ringer tone downloaded to the terminal.

Step 1: Press the [Menu] button on the terminal.

Step 2: Select [Setting] -> [User Setting] -> [Incoming Call] -> [Ringer tone] -> [External Call].

Step 3: To move the cursor to the ringer tone to confirm playback.

Select "Music Ring 1" when "Ringer tone 1" has been downloaded.

Select "Music Ring 2" when "Ringer tone 2" has been downloaded.

Select "Music Ring 3" when "Ringer tone 3" has been downloaded.

*If the Terminal (Telephone) before DT 800 series (FW version 5.1.x.x or later), this item displays "Download 1""Download 2""Download 3".

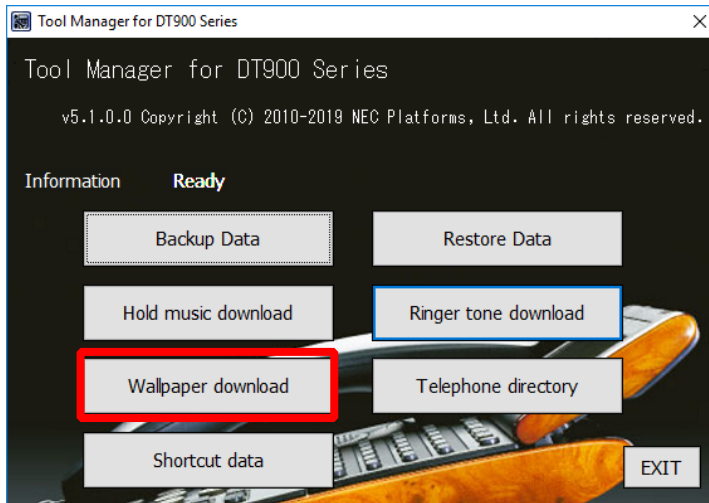
* If the volume is not appropriate, see “6.7.3 How to Adjust the Volume of a Voice File to Be Downloaded”.

6.5 How to Download Wallpapers to the Terminal (Telephone)

You can use the following steps to download wallpapers to the terminal (telephone).

Downloadable image files, please refer to the "6.5.1 Picture File Formats Supported by This Tool"

Step 1: Click the [Wallpaper download] button on Tool Manager.



The status information changes to "Wallpaper download."

All the buttons on Tool Manager are disabled.

The Wallpaper Download screen appears.

Wallpaper Download(PC->Terminal)

Download type: Wallpaper(DT920C)

Download file: Please select a download file.

Property	Original	After optimization
File format	::-	::-
File size	::-	::-

Selected picture: Original, After optimization

Optimization Download(PC->Terminal)

Step 2: Click on the [Download type] box, and select a wallpaper classification you want to download.

Wallpaper(DT920C) : It chooses, when downloading to DT920(8LCX)

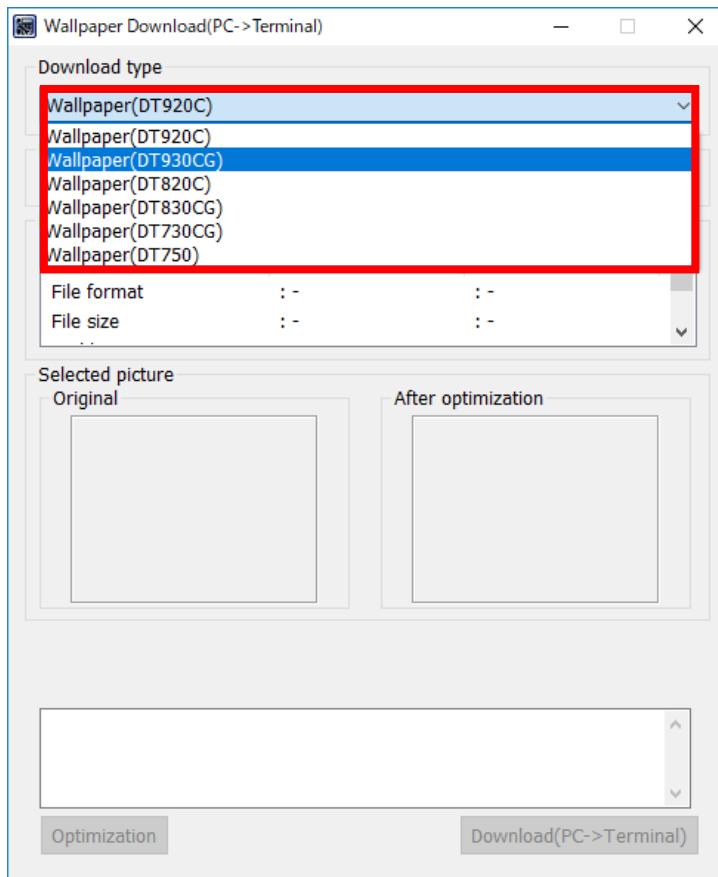
Wallpaper(DT930CG) : It chooses, when downloading to

DT930CGWallpaper(DT820C) : It chooses, when downloading to DT820(8LCGX)

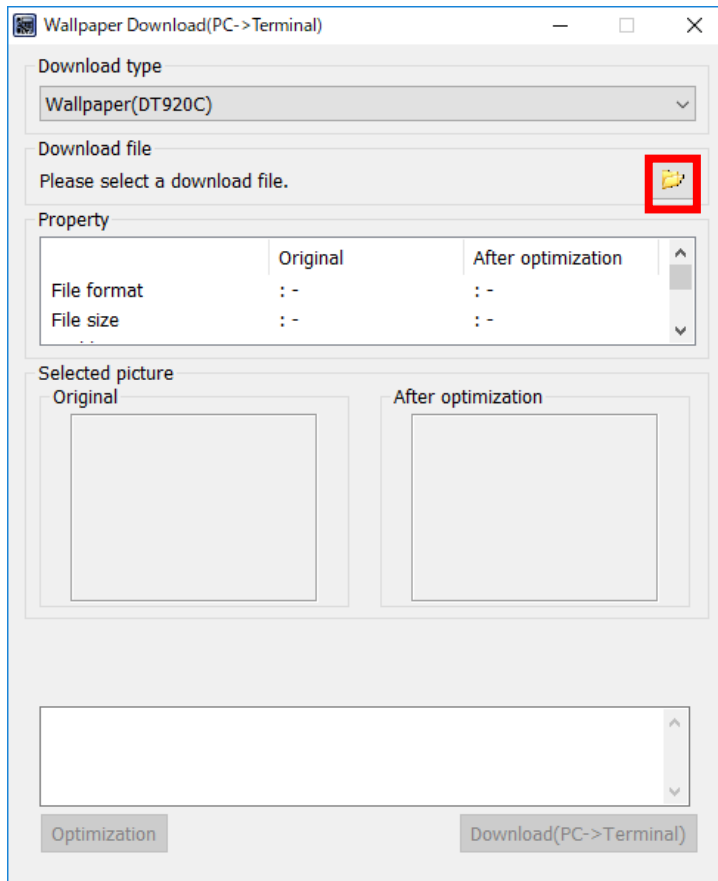
Wallpaper(DT830CG) : It chooses, when downloading to DT830G(12CG/24CG).

Wallpaper(DT730CG) : It chooses, when downloading to DT730G(12CG/24CG).

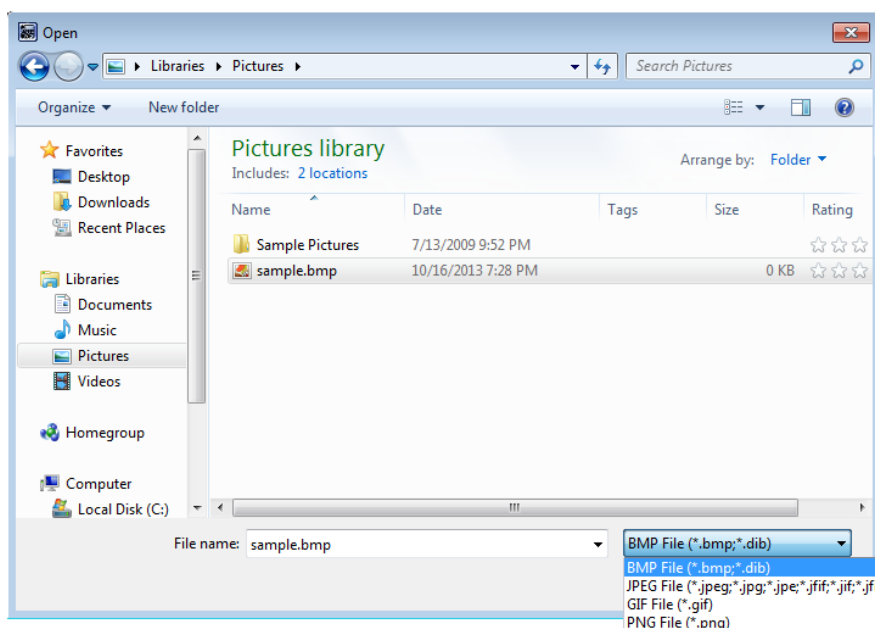
Wallpaper(DT750) : It chooses, when downloading to DT750.



Step 3: Click the folder icon.



Step 4: Specify the picture file that you want to download to the terminal (telephone) as wallpaper.



Selectable file formats are BMP file (bmp, dib), JPEG files (jpeg, jpg, jpe, jif, jfi, jfi), GIF file (gif), and PNG file (png).



Status after the picture file is specified

The screenshot shows the 'Wallpaper Download(PC->Terminal)' application window. It features several sections: 'Download type' with a dropdown menu showing 'Wallpaper(DT930CG)'; 'Download file' with a text field showing 'C:\Users\Public\Pictures\sample01.jpg'; 'Property' section with a table comparing 'Original' and 'After optimization' values for 'File format' (JPEG) and 'File size' (41,399 byte); 'Selected picture' section with two image thumbnails labeled 'Original' and 'After optimization'; a message box stating 'The selected picture file can be displayed on the telephone.'; and two buttons at the bottom: 'Optimization' and 'Download(PC->Terminal)'. Five callout boxes with orange borders and arrows point to specific elements: the download type, the download file path, the property table, the original picture thumbnail, and the message box.

Property	Original	After optimization
File format	: JPEG	: -
File size	: 41,399 byte	: -

The selected picture file can be displayed on the telephone.



Property information items to be displayed depend on the file formats shown in the table below.

Property Information \ File Format	BMP File	JPEG File	GIF File	PNG File
File format	○	○	○	○
File size	○	○	○	○
Width	○	○	○	○
Height	○	○	○	○
Bit depth	○	○	○	○
Data storage format	○	-	-	-
Drawing format	-	○	-	-
Color type	-	○	-	-
Transparency	-	-	-	○

[Explanation of each item]

- File format ... Format of specified file (e.g., BMP, JPEG)
- File size ... Size of specified file (byte)
- Width ... Picture width (pixel)
- Height ... Picture height (pixel)
- Bit depth ... Depth of bit (bit)
- Data storage format ... Storage format of picture data
(Bottom up/Top down)
- Drawing format ... Drawing format of pictures
(Baseline/Progressive)
- Color type ... Display color element (RGB/CMYK/YCCK, etc.)
- Transparency ... Transparent/nontransparent



Explanation about suggestion messages for optimization

The optimization recommended message, the specified picture file is the message to tell whether or not it is possible to use as wallpaper.

The picture files that can be displayed by the terminal (telephone) are those which meet the following conditions:

- Files whose formats can be displayed by the terminal (telephone)
(File formats marked by ○ in

"6.5.1 Picture File Formats Supported by This Tool")

- Files where the picture size is less than or equal to the screen size.

Terminal (Telephone)	Screen size
DT930CG/ DT830G(12CG/24CG)/ DT730G(12CG/24CG)	272 pixels×480 pixels
DT920(8LCX)/ DT750/DT820(8LCGX)	240 pixels×320 pixels

Optimization recommendation message displays either of the following messages.

1. "The selected picture file can be displayed on the telephone."

If this message is displayed, can use the specified picture file to the telephone wallpaper.

Please proceed to step 5.

2. "The selected picture file has the following problems.

Please Click on the optimization button to resolve the problem."

If this message is displayed, cannot use the specified picture file to the telephone wallpaper.

The details of the problem, to display in red characters.

Convert to the picture file that can be used with the telephone by executing the optimization.

For information about how to optimize, please refer to the

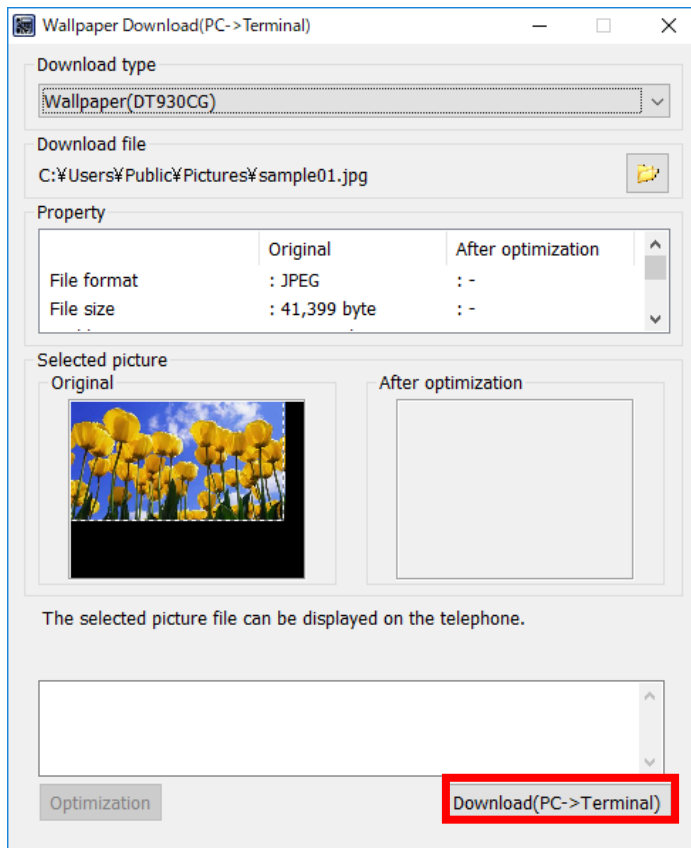
"6.8Optimization of the picture file"

3. " This picture file was not downloadable."

If this message is displayed, specified voice file not be used.

Unsupported file format or. the file is corrupted.

Step 5: Click the [Download (PC -> Terminal)] button.



Step 6: Set each item on the Download screen and click the [Run] button.

Download (PC->Terminal) - OK

Specified Terminal

Extension Number : 301

IP address : 192 . 168 . 0 . 20

User Authentication

ID : USER

Password : ●●●●

Computer Network Settings

IP address : 192.168.0.123

Secure Setting

Secure Communication Enable

Run Close

✓Specified Terminal

Specify the telephone number or IP address of the terminal (telephone) to send the picture file.



When a telephone number is used, the PC and terminal (telephone) must be on the same network segment.

✓User Authentication

Specify an ID and password to log in to the terminal (telephone).



ID: USER
Password: 0000 (initial value)



"ID" and "password" is important information. Please be careful about handling sufficiently. Please be sure to change and use the password. Please change it periodically for a password to raise safety, and we encourage in the complicated setting which can't be guessed easily.

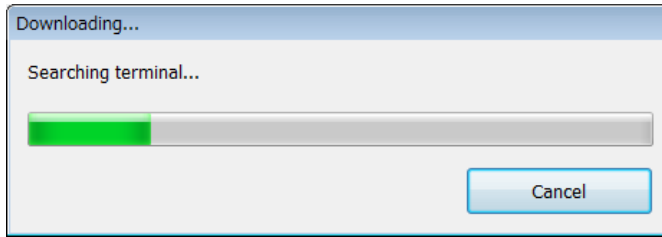
✓Computer Network Settings

Select the IP address of the PC on which this tool is running.

✓Secure Setting

Secure communication cannot be specified when downloading wallpaper.

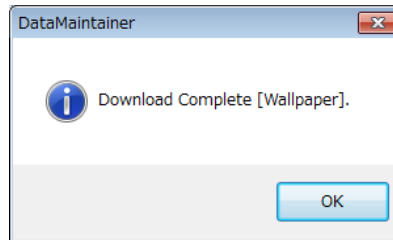
The following screen appears after the [Run] button is clicked.



Even if you click the Cancel button during downloading, file transfer to the terminal (telephone) may be completed and the file may be updated, depending on the timing.

If the download succeeds

PC side



The above message is displayed showing successful download.
Click the [OK] button to close the screen.

Terminal (telephone) side

"Download Complete!" is displayed on the screen.
Click the [Exit] soft key located below the display and check that the wallpaper downloaded to the terminal (telephone) is displayed on the Home screen.



Displaying the wallpaper downloaded to the terminal (telephone) requires the following settings:

Step 1: Click the [Menu] button on the terminal (telephone).

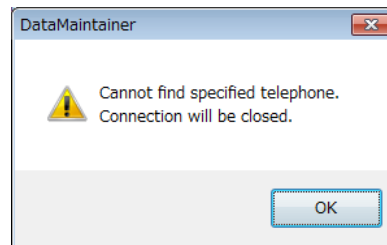
The following push the [TenKey 4] button on the terminal.

Step 2: Open the screen [User Setting] -> [Display] -> [Advanced] -> [Wallpaper].

Step 3: Move the cursor to [Download].

If the download fails

PC side



The above error message appears.

Click the [OK] button to close the screen.

* Some displayed messages vary depending on the error.

For details, see attached “**Appendix I: Error Messages.**”

Terminal (telephone) side

"Download Failed!" is displayed on the screen.

Click the [Exit] soft key located below the display to close the screen.

6.5.1 Picture File Formats Supported by This Tool

○...The picture file can be downloaded to the terminal (telephone) without being optimized.

△...The picture file can be downloaded to the terminal (telephone) by optimizing it.

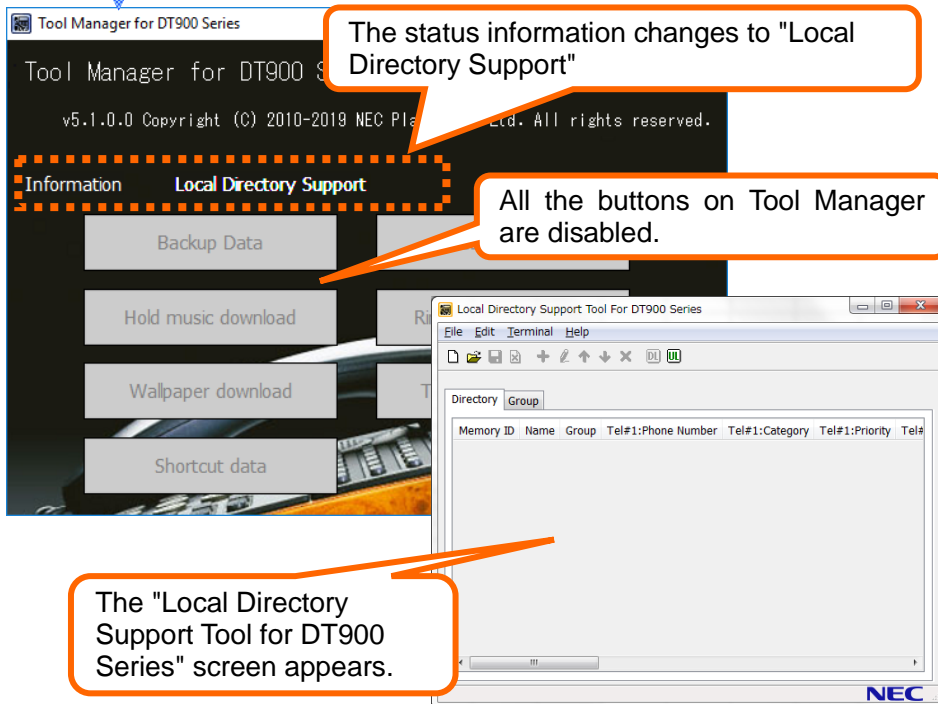
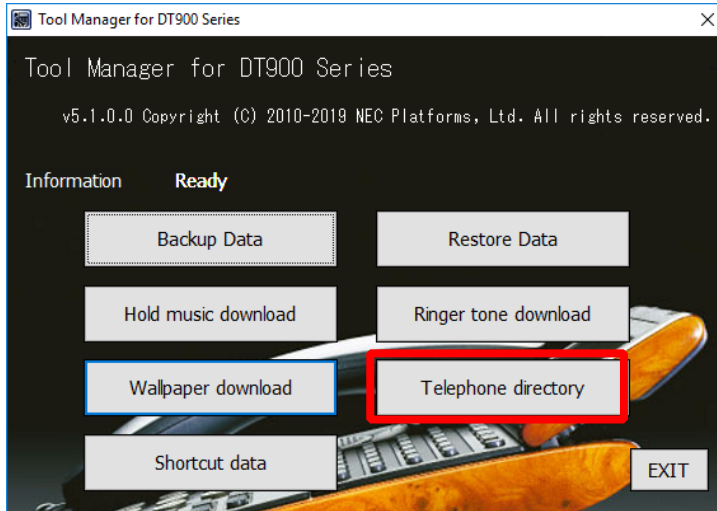
×... The picture file is not supported, so it cannot be downloaded to the terminal (telephone).

File Type	Format Type	Format Type	Bit Depth	Availability
JPEG	Format type	JFI	24	○
		JFIF	24	○
		JIF	24	○
		JPE	24	○
		JPG	24	○
		JPEG	24	○
		JPEG 2000	24	×
		JPEG-LS(Lossless)	24	×
		JPEG XR	36	×
	Drawing format	Baseline	-	○
		Progressive	-	△
	Color type	RGB	24	○
		CMYK	24	△
		YCCK	24	△
		YCbCr	24	○
YUV		24	○	
Grayscale		8	○	
BMP	Data storage format	Top down	2,4,8,24	△
			32	△
	Bottom up	2,4,8,24	○	
		32	△	
GIF	Animation	Without animation	8	○
		With animation	8	×
PNG	Color type	Index color	1,2,4,8	○
			Transparent	△
		Grayscale	2,4,8,16,32	○
			Transparent	△
		True color	24,48	○
			Transparent	△
	Animation	APNG	24,48	×
		MNG		×

6.6 How to Edit the Telephone Directory for the Terminal (Telephone)

To edit the local telephone directory for your terminal (telephone).

Step 1: Click the [Telephone directory] button on Tool Manager.

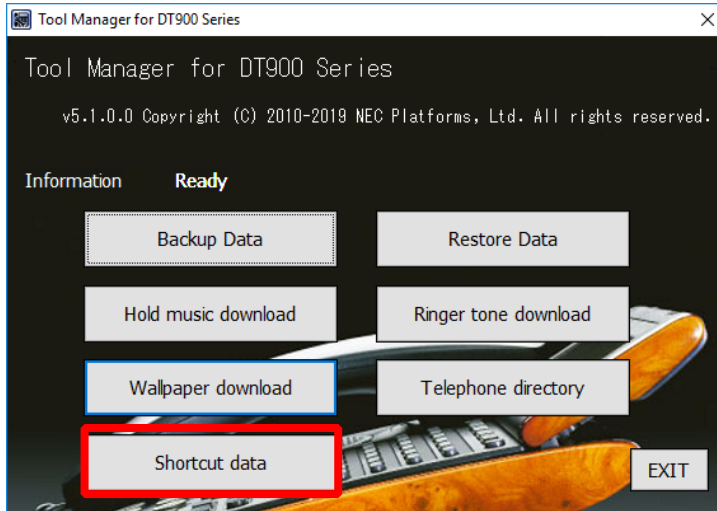


For subsequent operations, refer to the "DT900 Series Local Directory Support Tool User's Guide."

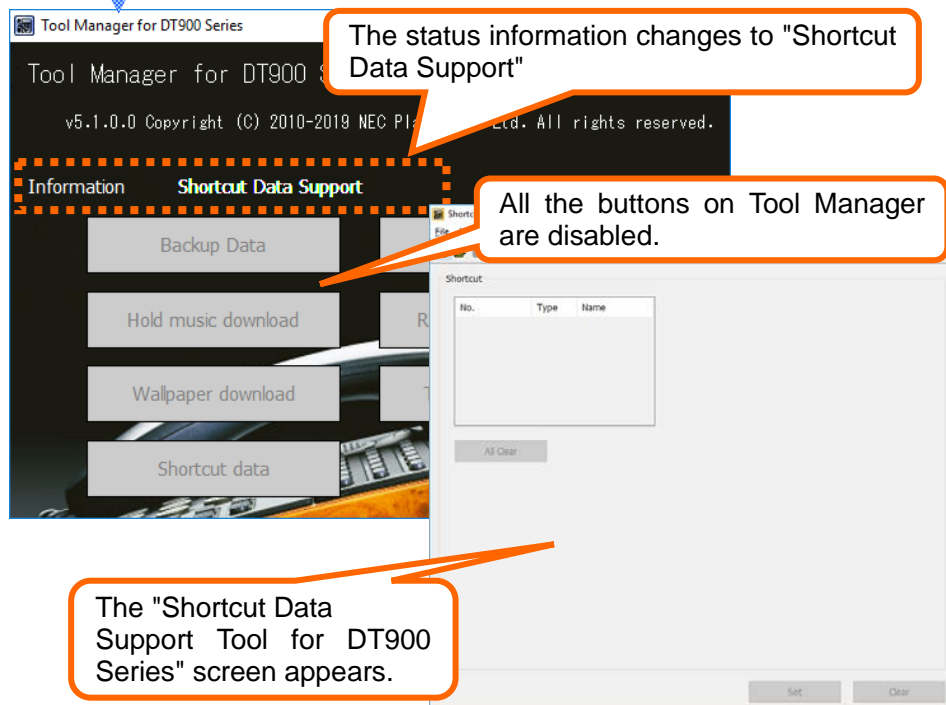
6.7 How to Edit the Shortcut Data for the Terminal (Telephone)

To edit the Shortcut Data for your terminal (telephone).

Step 1: Click the [Shortcut Data] button on Tool Manager.



Click.



For subsequent operations, refer to the "DT900 Series Shortcut Data Support Tool User's Guide."

6.8 Optimization of the voice file

In the optimization of the voice file, convert to a usable format on the telephone.



With optimization by this tool, you can convert audio files of "Linear PCM" or "G.711 u-Law" format into an audio file playable by the terminal.
Not supported about other audio format.

6.8.1 The reason the specified voice file cannot be used.

If the following message is displayed on the optimization recommendation message, can be converted to voice files that can be used in the telephone by optimizing.

"The selected voice file has the following problems.

Please click the optimization button to resolve the problem."

The details of the problem, to display the following in red characters.

1. "Format not supported by telephone, unable to play back."

[Cause]

Format is not playable.

[Optimization process]

Converted to a format (*1) that can be played on the telephone.

(*1) The supported audio file, please refer to the **"6.3How to Download Hold Music to the Terminal (Telephone)"** or **"6.4How to Download Ringer Tone to the Terminal (Telephone)"**.

2. "Play back time is longer than that supported by the telephone."

[Cause]

The playback time of the voice file exceeds 32 seconds.

[Optimization process]

The playback time is shortened to 32 seconds.

3. "Copyright information may cause the file to not play back on the telephone."

[Cause]

The copyright information is attached to the voice file.

[Optimization process]

The unnecessary tag information is deleted.

4. "Additional information may cause the file to not play back on the telephone."

[Cause]

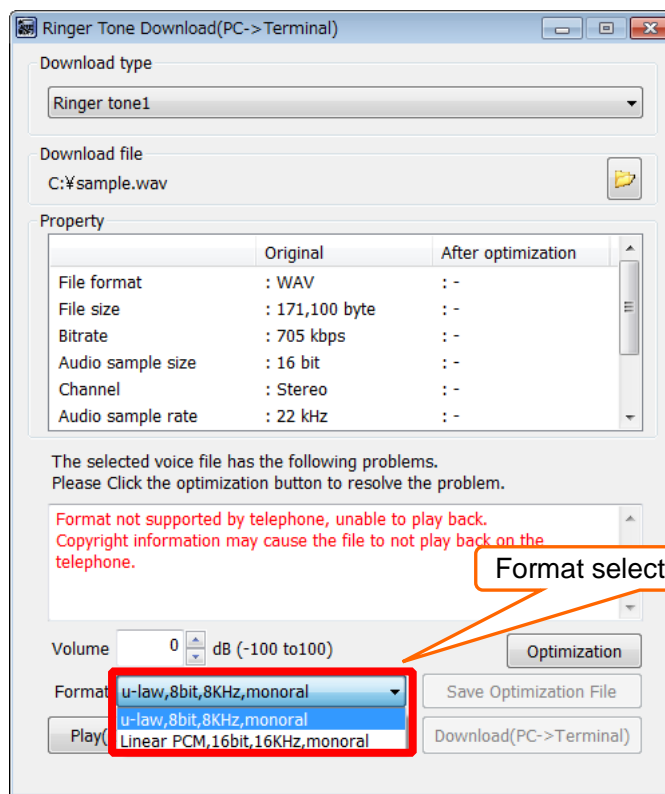
The additional information is attached to the voice file.

[Optimization process]

The additional information is deleted.

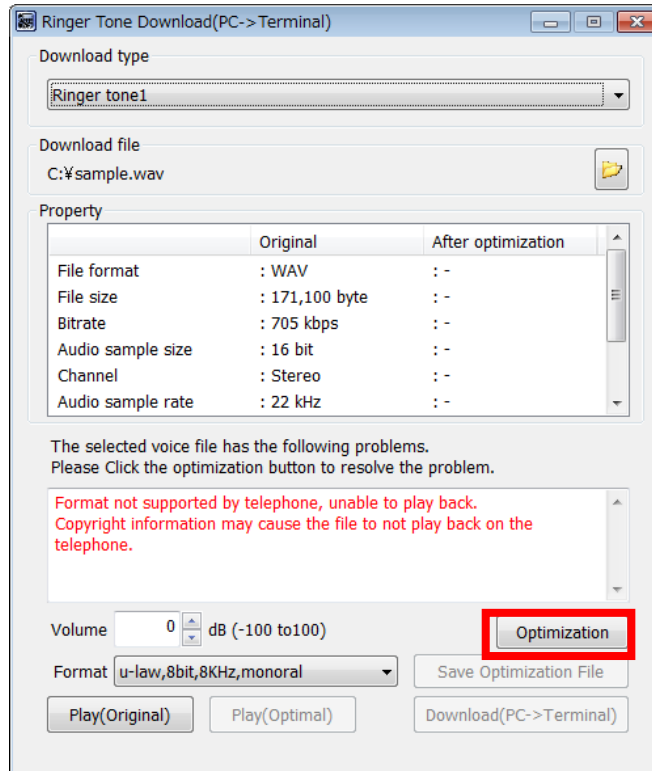
6.8.2 How to optimize the voice file

Step1: Select the format of the voice file after the optimization.

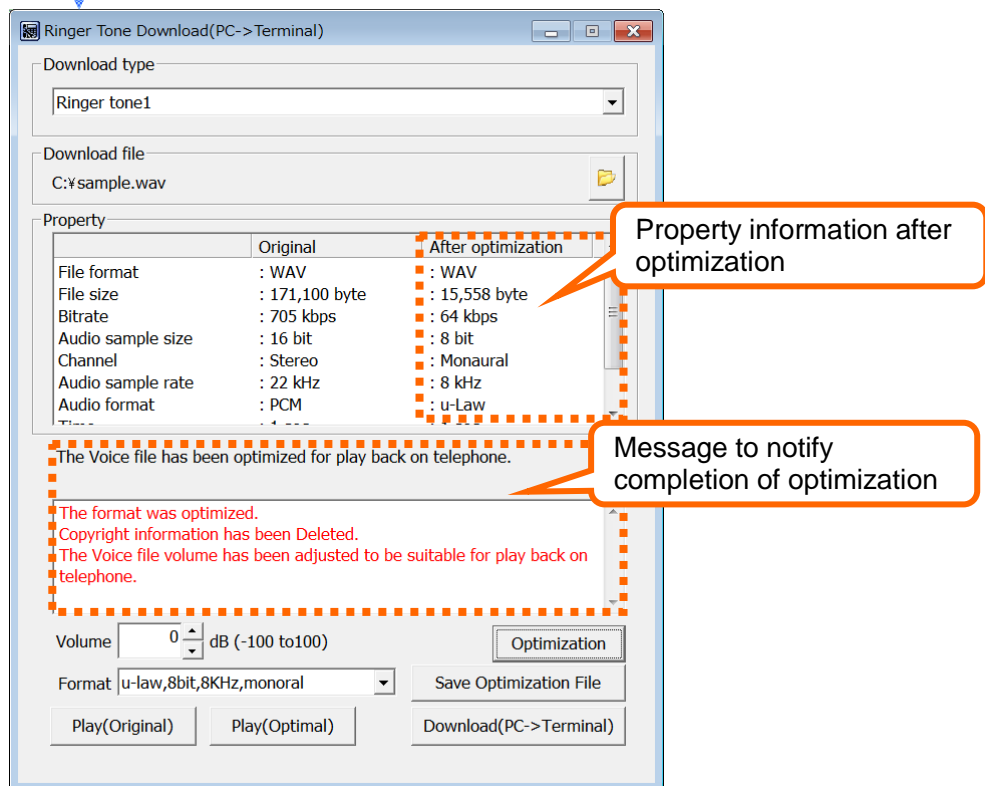


Format that can be selected, please refer to the audio file format described in the "6.3How to Download Hold Music to the Terminal (Telephone)" or "6.4How to Download Ringer Tone to the Terminal (Telephone)".

Step 2: Click the [Optimization] button.



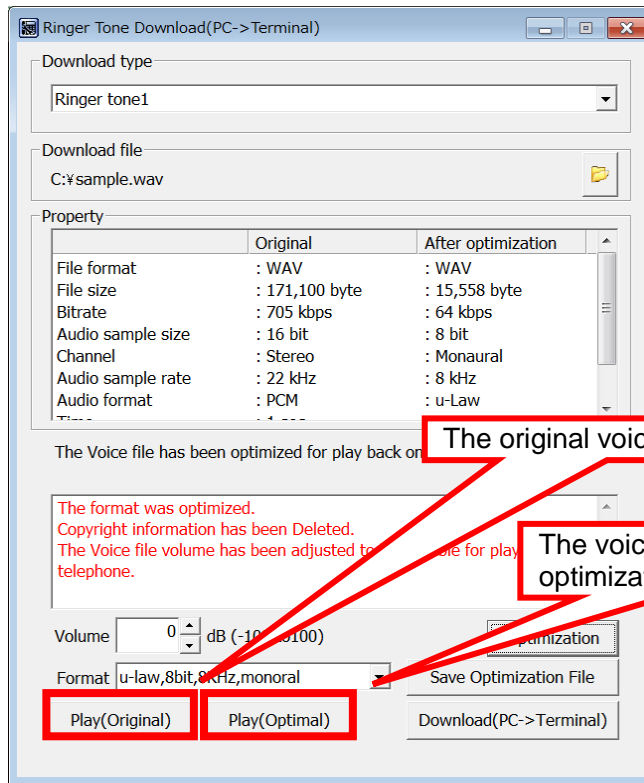
Status after the [Optimization] button is clicked.



If the optimization is successful, the optimization completion message is displayed as "The Voice file has been optimized for play back on telephone.", "Download" button and "Save Optimization File" button are enabled.



You can check the voice file to before and after optimization.



The original voice file is played.

The voice file after optimization is played.



Because there is a case where the audio format is converted when performing optimization, There is a case where the original voice and the sound quality is different.

Note that the volume may be heard differently when the same audiovoice file is played on a PC or terminal.



This tool adjusts the volume to a level appropriate for the use of the terminal when the [Optimization] button is clicked.

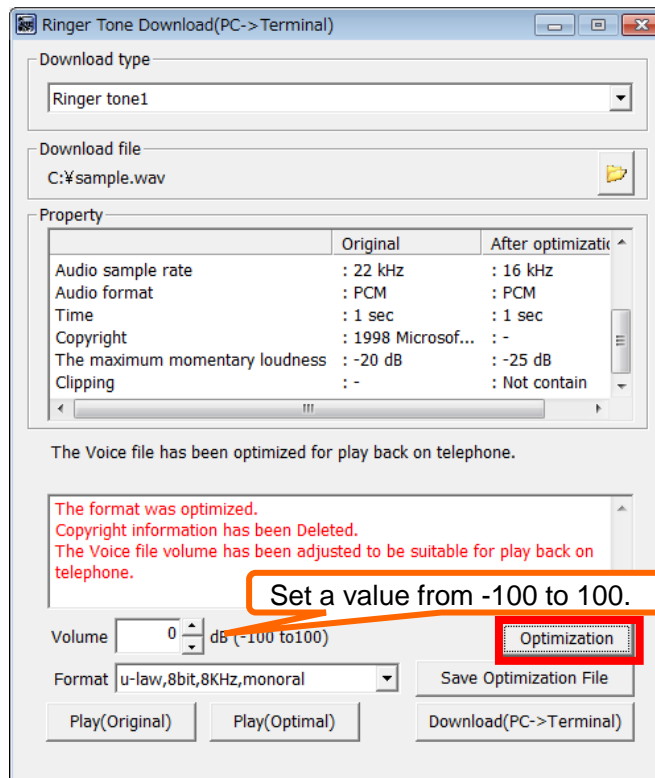
Please refer to the property information of "The maximum momentary loudness" or "Clipping" for a volume adjustment result.

For how to adjust the volume, see "**6.7.3How to Adjust the Volume of a Voice File to Be Downloaded**"

6.8.3 How to Adjust the Volume of a Voice File to Be Downloaded

On the "Hold Music Download" or "Ringer Tone Download" screen, you can adjust the volume of a voice file to be downloaded.

Step1: Set your desired value in the [Volume] field in the lower left part of the screen (using the [↑] (up-arrow) and [↓] (down-arrow) buttons, or by direct input), and click the [Optimization] button.



The voice file adjusted to the standard volume level is re-adjusted by the specified quantity. You can specify it in the range of -100dB to 100dB (decibels). For example, if "-5" is specified, the volume of the voice file is decreased by -5dB. Please refer to the property information of "The maximum momentary loudness" or "Clipping" for a volume adjustment result.

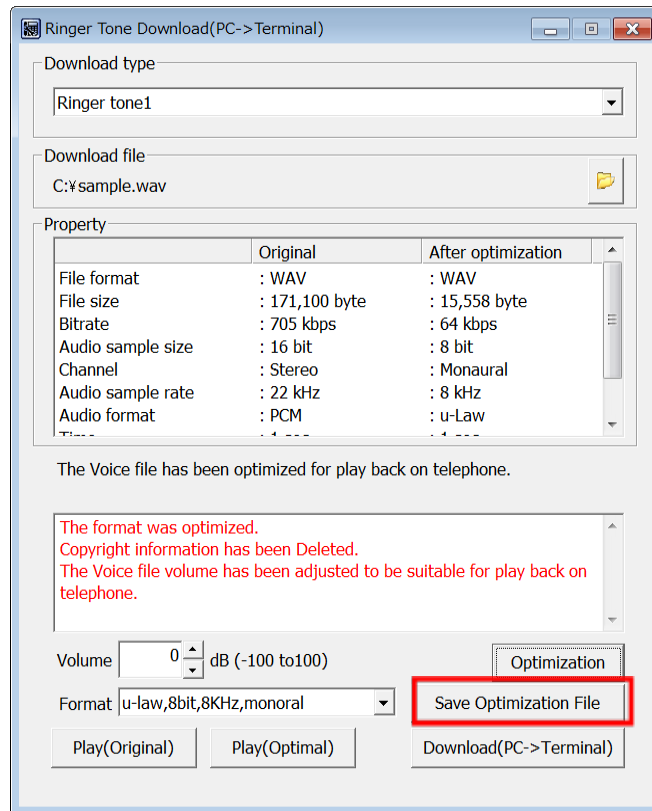


If an invalid value is specified for volume adjustment, the optimization fails with an error message "Invalid volume range."

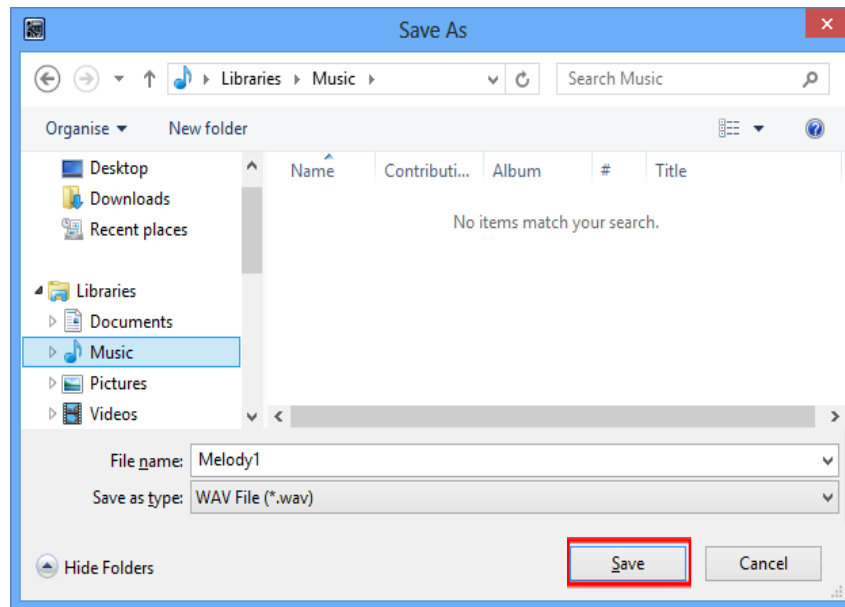
6.8.4 How to save a sound file

On the "Hold Music Download" or "Ringer Tone Download" screen, you can save the converted to voice files.

Step1: On Optimization succeeded screen, you click the [Save Optimization File] button.



Step2: If you clicked, the dialog of Save As is displayed.



The file name is Default indicated by the download type of mentioning in the following

- Hold music : MOH.wav
- Ringer tone1 : Melody1.wav
- Ringer tone2 : Melody2.wav
- Ringer tone3 : Melody3.wav



The type of sound file that can be specified is "Wave sound (wav format)"

Step3: On Save Dialog screen, you Input directory to preservation and file name.

Step4: If you clicked button [Save], you can save to the Voice file.

6.9 Optimization of the picture file

In the optimization of the picture file, convert to a usable format on the telephone.



Optimization function, the type of format that can be converted image file, please refer to the "6.5.1 Picture File Formats Supported by This Tool".

6.9.1 The reason the specified picture file cannot be used.

If the following message is displayed on the optimization recommendation message, can be converted to picture files that can be used in the telephone by optimizing.

"The selected picture file has the following problems.

Please Click on the optimization button to resolve the problem."

The details of the problem, to display the following in red characters.

1. "The section of the picture which is over the dotted line will not be displayed on the telephone."

[Cause]

<Case of DT930CG/DT830G(12CG/24CG)/DT730G(12CG/24CG)>

The picture file exceeds the screen size (272 pixels x 480 pixels) of the telephone.

<Case of DT920(8LCX)/DT750/DT820(8LCGX) >

The picture file exceeds the screen size (240 pixels x 320 pixels) of the telephone.

[Optimization process]

The portions outside the dotted frame displayed in the picture image are deleted.

2. "Pictures with top down data storage form cannot be displayed on the telephone."

[Cause]

The data storage format of the bitmap picture file is Top down.

[Optimization process]

The data storage format is converted to Bottom up.

3. "Bit depth of 32bits or more cannot be displayed on the telephone."

[Cause]

The bit depth of the bitmap picture file is greater than or equal to 32 bits.

[Optimization process]

The bit depth is converted to 24 bits.

4. "Progressive drawing form cannot be displayed on the telephone."

[Cause]

The drawing format of the JPEG picture file is Progressive.

[Optimization process]

The drawing format is converted to Baseline.

5. "Color type CMYK or YCCK cannot be displayed on the telephone."

[Cause]

The color type of the JPEG picture file is CMYK or YCCK.

[Optimization process]

The color type is converted to YCbCr.

6. "Picture files with Transparent information cannot be displayed on the telephone."

[Cause]

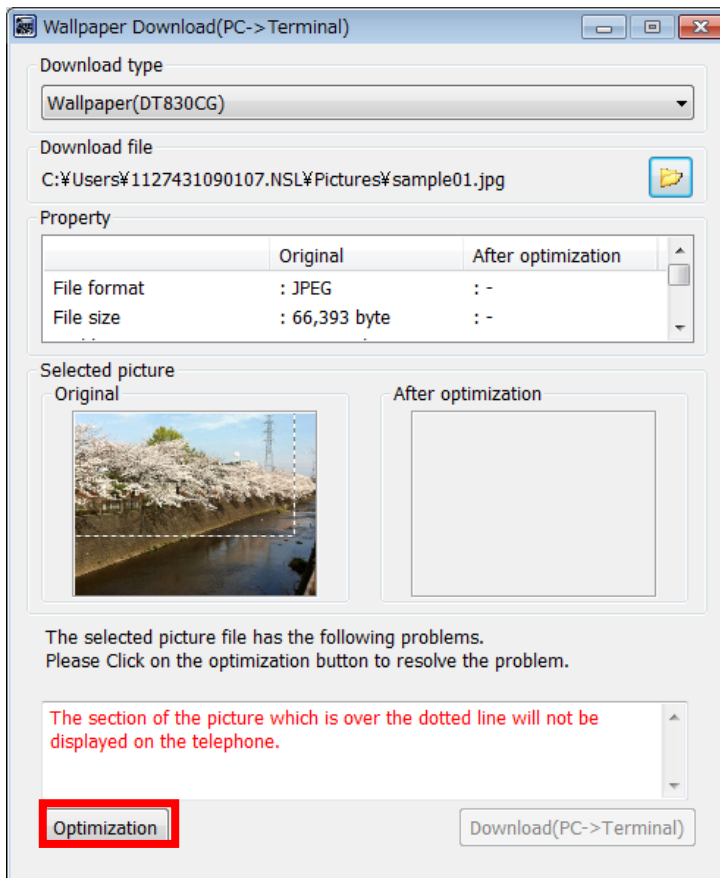
Transparent information is added to the PNG picture file.

[Optimization process]

Transparent information is deleted.

6.9.2 How to optimize the picture file

Step 1: Click the [Optimization] button.





Status after the [Optimization] button is clicked

Wallpaper Download(PC->Terminal)

Download type
Wallpaper(DT830CG)

Download file
C:\Users¥1127431090107.NSL¥Pictures¥sample01.jpg

	Original	After optimization
File format	: JPEG	: JPEG
File size	: 66,393 byte	: 30,300 byte

Selected picture
Original: [Image]
After optimization: [Image]

The picture file has been optimized for display on the telephone.

The size of the picture has been optimized.

Buttons: Optimization, Download(PC->Terminal)

Callouts:
 - Property information after optimization is displayed.
 - The picture image after optimization is displayed.
 - Optimization completion message

If the optimization is successful, the optimization completion message is displayed as "The picture file has been optimized for display on the telephone.", "Download" button is enabled.



If the screen size is optimized, the part outside the dotted frame is cut with reference to the original picture. The black part outside the dotted frame displayed after the picture image is optimized is not included in the optimized picture image.

If a picture with transmittance 100% is used, the transparent part becomes black in the tool and telephone. If a picture whose transmittance is less than 100% is used, transparency becomes invalid.

	Windows picture and FAX viewer		This tool or telephone
Transmittance 100%		Transparent part	
Transmittance less than 100%		Transparent part	

Appendix I: Error Messages

■ Setting-related

Message	Invalid parameter.
Explanation	Some items are not yet entered on the Upload or Download screen.
Response	Check if the following items are correctly entered: <ul style="list-style-type: none"> • Telephone number or IP address selected in "Specified Terminal (Telephone)" • ID set in "User Authentication" • Password set in "User Authentication"

Message	Invalid network setting.
Explanation	The terminal (telephone) with the IP address specified in "Specified Terminal (Telephone)" and the PC with the IP address specified in "Computer Network Settings" cannot communicate with the network.
Response	Check if the terminal (telephone) with the IP address specified in "Specified Terminal (Telephone)" and the PC with the IP address specified in "Computer Network Settings" can communicate with the network.

■ Connection-related

Message	Cannot find specified telephone. Connection will be closed.
Explanation	The terminal (telephone) with the specified extension number was not found.
Response	Check the following: <ul style="list-style-type: none"> • Does the terminal (telephone) with the extension number specified in "Specified Terminal (Telephone)" really exist? • Are you logging in to the terminal (telephone) in Web programming? If so, log out. • If the Menu screen is displayed, close it. • Is the application of the terminal (telephone) (local IPM port) set to 3530?

Message	Duplicate telephone. Connection will be closed.
Explanation	Several terminals (telephones) with the specified extension number were found.
Response	Contact your system administrator.

Message	Connection error. Connection will be closed.
Explanation	There is no response from the terminal (telephone).
Response	Check the following: <ul style="list-style-type: none"> • Is this terminal (telephone) a model supported by Maintenance Tool? • Is the IP address specified in "Specified Terminal (Telephone)" correct? (There is no terminal (telephone) with the specified IP address) • Is the application of the terminal (telephone) (local IPM port) set to 3530? • Is the security setting (Web programming) of the terminal (telephone) enabled?

Message	Cannot proceed due to active connection. Please wait.
Explanation	Communication with the terminal (telephone) is now terminating.
Response	Wait for a while and then retry.

Message	Session error. Connection will be closed.
Explanation	An attempt to acquire session information (communication ID) with the target terminal (telephone) has failed.
Response	Check the following: <ul style="list-style-type: none"> • When you are logging in to the terminal (telephone) in Web programming, log out. • If the Menu screen of the terminal (telephone) is displayed, switch it to the Standby screen. • Check if the ID or password specified in "User Authentication" on the Download or Upload screen is correct.

Message	Session timeout. Connection will be closed.
Explanation	A timeout occurred during communication with the terminal (telephone).
Response	Check the following and then retry: <ul style="list-style-type: none"> • Are the terminal (telephone) and PC connected via the network? (The network connection may have been disconnected during communication.) • If the communication such as uploading/downloading holding tone, ring tone, wall paper or backing up and restoring is disconnected, it may be displayed "Uploading/Downloading" on the phone.(In this case, It is not possible to download/upload using the DataMaintenanceTool) The display "Uploading/Downloading" will disappear after 6 minutes, or it will return to the normal state when you reset the phone. • Is the network line congested?

Message	Undefined HTTP error. Connection will be closed.
Explanation	An error occurred during HTTP communication.
Response	Check the following: <ul style="list-style-type: none"> • Is the IP address specified in "Specified Terminal (Telephone)" correct? (The IP address of a device that is not a terminal (telephone) may have been specified.) • If this error still occurs despite this response, restart the tool and then retry.

Message	HTTPS connect error.
Explanation	An error occurred during HTTPS communication.
Response	Check the following and then retry: <ul style="list-style-type: none"> • Are the terminal (telephone) and PC connected via the network? (The network connection may have been disconnected during communication.) • Using a DataMaintenanceTool with TLS. (Ver.4.2.0.0 or later)

■ Directory folder-related

Message	Cannot make temporary directory.
Explanation	An attempt to create a work directory used to exchange data with the terminal (telephone) has failed.
Response	Check the following: <ul style="list-style-type: none"> • Does the drive where the tool is installed have free space of at least 10 megabytes?

Message	Cannot make temporary file.
Explanation	An attempt to create the file to be sent to the terminal (telephone) has failed.
Response	Check the following: <ul style="list-style-type: none"> • Does the disk drive where the tool is installed have free space of at least 10 megabytes?

Message	Cannot read directory data.
Explanation	An attempt to read the directory data acquired from the terminal (telephone) has failed.
Response	Directory data may have been corrupted.

Message	Cannot extend directory data archive. Directory file is not included.
Explanation	An attempt to uncompress the archive file acquired from the terminal (telephone) has failed or the directory file does not exist in the terminal (telephone).
Response	Check the following: <ul style="list-style-type: none"> • Does the drive where the tool is installed have free space of at least 10 megabytes? • Does the directory exist in the terminal (telephone)?

Message	Folder access error occurred.
Explanation	An attempt to access the specified folder during data backup has failed.
Response	Check the following: <ul style="list-style-type: none"> • Does the specified folder exist? • Does the drive where the tool is installed have free space of at least 10 megabytes?

Message	Failed to save backup.
Explanation	An attempt to save a backup file during data backup has failed.
Response	Check if the drive where the tool is installed has free space of at least 10 megabytes, wait for a while, and then retry.

■ Terminal (telephone) error-related

Message	Telephone has sent an error message. <error message>
Explanation	An error message was sent from the terminal (telephone). The example of the <error message>: <ul style="list-style-type: none"> * <error message> is displayed in the language set up by telephone. • Download failed!! * • Saving Failed!! Decrypt Error. • Saving Failed!! Terminal Type Error. • Saving Failed!! • Saving Failed!! Wav File Format Check Error. • Backup Failed!! * • Upload Failed!! *
Response	The correspondence method for every <error message>: <ul style="list-style-type: none"> • Download failed!! * • Saving Failed!! Decrypt Error. • Saving Failed!! Terminal Type Error. • Saving Failed!! <p style="padding-left: 20px;">The file specified for the download may be incorrect or may have been corrupted.</p> <ul style="list-style-type: none"> • Saving Failed!! Wav File Format Check Error. <p style="padding-left: 20px;">Telephone does not correspond to the downloaded voice files. Please be optimized by specifying the format of the other voice file.</p> <ul style="list-style-type: none"> • Backup Failed!! * • Upload Failed!! * <p style="padding-left: 20px;">Wait for a while and then retry. If this error cannot be corrected, contact the distributor.</p>

■ Tool-related

Message	It is not corresponded in the specified telephone.
Explanation	The model of the specified terminal (telephone) does not support the executed function.
Response	Executable functions depend on a terminal (telephone) model. For details, refer to the manual.

Message	Voice file cannot be optimized.
Explanation	An attempt to convert the voice file format has failed.
Response	The specified voice file may have been corrupted.

Message	Voice file cannot download.
Explanation	An attempt to read the specified voice file has failed.
Response	The specified voice file may have been corrupted.

Message	This picture file was not downloadable.
Explanation	An attempt to read the specified picture file has failed.
Response	The specified picture file may have been corrupted.

Message	Failed to save directory file.
Explanation	The preservation of an optimized file was failed.
Response	The specified file is in the state which can't be preserved. By during use and other reasons. After releasing the position which can't be overwritten, it's preserved please.

Message	Application has failed to start. Application already running.
Explanation	An attempt was made to start Tool Manager several times.
Response	Check if Tool Manager was started several times.

Message	Application has failed to start. Configuration files error. Please re-install the application.
Explanation	Tool manager configuration file is broken.
Response	Uninstall the Data Maintenance Tool, please re-install them.

Message	The application has failed to start because its side-by-side configuration is incorrect. Please see the application event log for more detail.
Explanation	Required libraries are not installed.
Response	Please install [Microsoft Visual C + + 2010 SP1 Redistributable Package]. These are available from the Download Center of Microsoft.

Message	Application startup error. Please start from the Tool manager.
Explanation	The tool was started illegally.
Response	Start the tool from Tool Manager.

Message	Application startup error.
Explanation	An attempt to start each tool has failed.
Response	The Data Maintenance Tool may have been destroyed. Repair or reinstall the tool.

Message	Application has failed to start. Application already running.
Explanation	An attempt was made to start several Local Directory Support Tools.
Response	Close all the started Local Directory Support Tools.

Message	Application has failed to start. Please close the data Maintenance Tool and restart the Application.
Explanation	An attempt was made to start a Local Directory Support Tool when the Data Maintenance Tool is active.
Response	Close the active Data Maintenance Tool.

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DT900 Series Data Maintenance Tool contains certain third party open source software components.

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