



RELIABLE FILE TRANSFER

HULFT7e

Windows

Installation Manual

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Preface

This document describes the procedures from the installation of HULFT on Windows, environment setting, through the File Transfer Test of which purpose is to confirm the result of installation. It is for the individuals who use HULFT for the first time as well as for those who engage in version, level, and revision upgrade operation.

This document is for the person with system administrator-level knowledge of Windows.

Structure of This Document

This document is composed of the following chapters:

- Chapter 1 Overview
- Chapter 2 Installation Method
- Chapter 3 Startup of HULFT
- Chapter 4 Transfer Test
- Chapter 5 Termination of HULFT
- Chapter 6 Backup
- Chapter 7 Switchover from Trial Version to Product Version
- Chapter 8 Version Upgrade Procedure
- Chapter 9 Level Upgrade/Revision Upgrade Procedure
- Appendix 1 HULFT Uninstallation Method
- Appendix 2 Files to be Restored from Backup

Product Covered in This Document

HULFT7e for Windows

HULFT7e ManagerConnection Option for Windows

[Note] Manager connection function is available only when you install HULFT7e ManagerConnection Option.

Symbols and Notations

<Description of Product Name>

In this document, HULFT7e for iOS is generally named as 'HULFT.'

In the case the document indicates each product, relevant product name is provided.

<Version, Level, and Revision of HULFT>

Version information is displayed under following format:

Example: 7. 0. 0

a) b) c)

a): Version

b): Level

c): Revision

Upgrade of the number appeared in a)—Version Upgrade

Upgrade of the number appeared in b)—Level Upgrade

Upgrade of the number appeared in c)—Revision Upgrade

HULFT

<Command or Control Card Explanation>

- []: Brackets indicate that the enclosed items are optional.
- { }: Braces indicate that enclosed items are multiple options, from which one option must be selected.
-: Repeat symbol indicates options, which should be repeated if necessary. The symbol may follow single word or a group of options enclosed within either brackets or braces. The part enclosed within either brackets or braces in a format is regarded as one unit. Repeat the whole part in between the symbols on a unit basis.
- | : Vertical bar is used to set off options.
- Italics: Italics indicate a variable. (a value that varies depending on the target or state)

Example: *yyyymmdd*

Type in comma (,) and equal sign (=) in the exact location as they are represented.

<Command or Management Information Settings>

- | | |
|--------------------------|---|
| Uppercase characters: | Uppercase characters indicate that uppercase alphabets (A-Z) can be used. |
| Lowercase characters: | Lowercase characters indicate that lowercase alphabets (a-z) can be used. |
| Alphabets: | Alphabets indicate that both uppercase (A-Z) and lowercase (a-z) alphabets can be used. |
| Alphanumeric characters: | Alphanumeric characters indicate uppercase and lowercase alphabets (A-Z, a-z) as well as numeral (0-9) can be used. |

Where to Look up

Depending on the users and the purpose of usage, HULFT manuals are classified as follows. For file names and stored locations and so on, refer to the 'readme' file included in the installation CD.

HULFT7e Functions Manual

The manual describes the functions of HULFT. The explanation is for the first-time users of HULFT as well as those who are in charge of the introduction of HULFT.

HULFT7e New Functions and Incompatibility Manual

The manual explains the functions of new product and describes incompatibility with old versions. It is for the individuals who are involved in introduction of HULFT, upgrade of version, level, and revision, and product transition.

HULFT7e Windows Installation Manual

The manual explains all the procedures from product installation, environment settings, to file transfer (File Transfer Test). It is for new users of HULFT for Windows and for system administrators who implement version and/or revision upgrade.

HULFT7e Windows Administration Manual

The manual describes environment settings required for the operation of HULFT on Windows. The explanation is for the individuals who are involved in designing and establishing application system and for those who are in charge of the introduction of HULFT.

HULFT7e Windows Operation Manual

The manual describes the environment settings required for the operation of HULFT on Windows. The explanation is for the individuals who are involved in designing and establishing application systems and for those who engage in daily operation of the system.

HULFT7e Windows Error Codes and Messages

The manual describes the error codes and message contents of HULFT. It is for the individuals who are involved in designing and establishing application systems and for those who engage in daily operation of the system.

HULFT

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Chapter 1

Overview

This chapter describes the workflow and requirements that you should know before you install HULFT that runs on Windows.

1.1 Workflow

Comply with the workflow shown in Figure 1.1 'Workflow.'

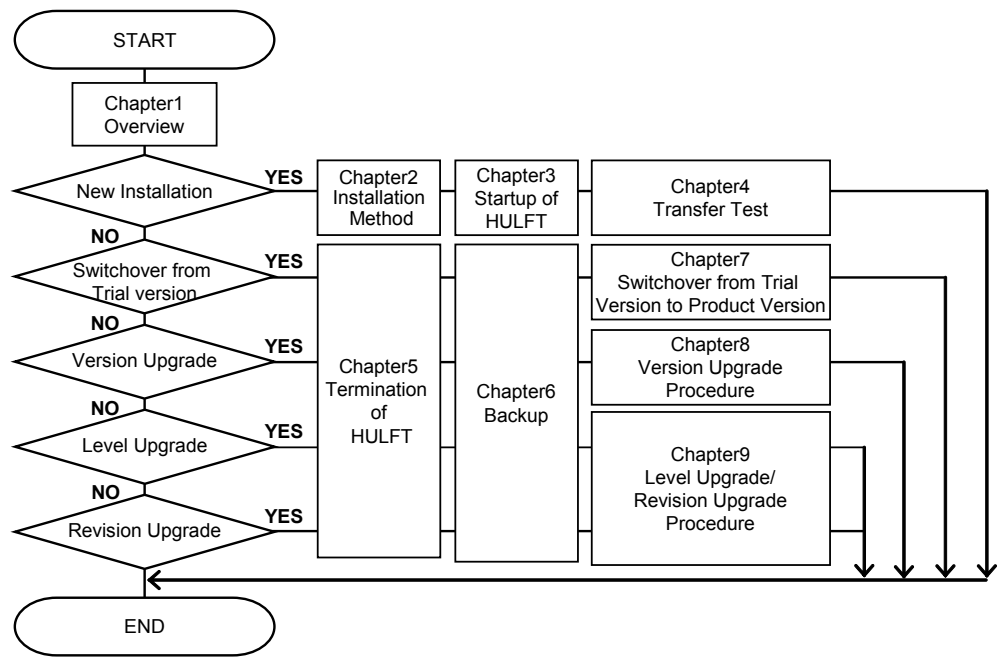


Figure 1.1 Workflow

[Remarks] For the definition of version upgrade, level upgrade, and revision upgrade, refer to "Preface" in this document.

1.2 Environment Requirements for Installation

1.2.1 Machine Environment

The setup program copies the files required for the operation of HULFT, creates the items on [Start] menu, and registers services. When you install the application on a machine on which HULFT of older version has already been installed, refer to "Chapter 8 Version Upgrade Procedures" or "Chapter 9 Level Upgrade/Revision Upgrade Procedures." Make sure that any one of the following OS has been installed properly:

- Windows 2000 Service Pack 4
- Windows XP Service Pack 2 or later
- Windows Server 2003
- Windows Small Business Server 2003
- Windows Vista
- Windows Server 2008

For details, see the manual of each OS.

1.2.2 Software Requirements

For the software requirements, visit our website from the following URL:

<http://www.hulft.com/>

1.2.3 Connection with Partner Machine

HULFT uses TCP/IP protocol (included in the OS which is a part of OS) to transfer. The partner machines are identified by their host names. Therefore, verify that connection is established by the host name (using the PING command).

For the Transfer Test described later in this manual, make sure that the connection test under the local host name of the machine is successful.

(1) Execution Method of Ping

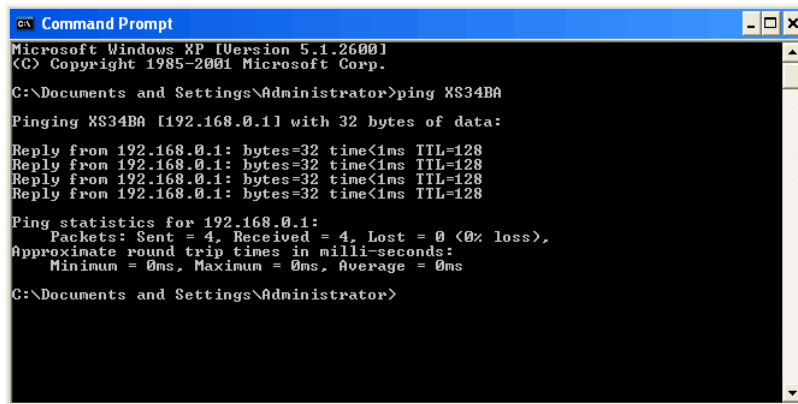
To execute the ping command, start the command prompt and enter as follows;

<Description Example>

- For IPv4

ping <partner host name>

Example : ping XS34BA



```

C:\Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ping XS34BA

Pinging XS34BA [192.168.0.1] with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time<1ms TTL=128
Reply from 192.168.0.1: bytes=32 time<1ms TTL=128
Reply from 192.168.0.1: bytes=32 time<1ms TTL=128
Reply from 192.168.0.1: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

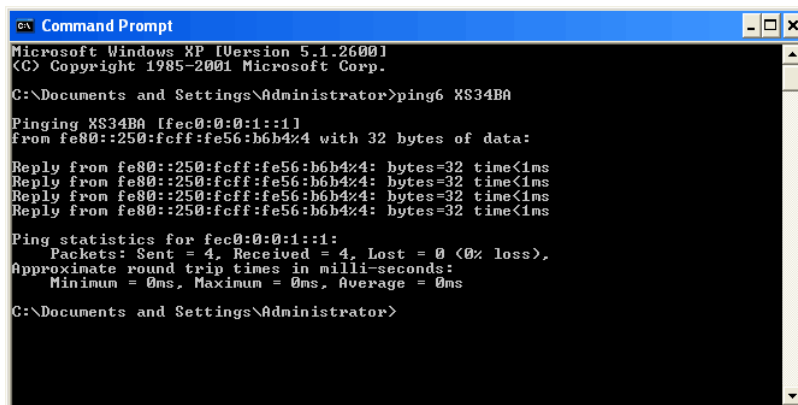
C:\Documents and Settings\Administrator>

```

- For IPv6

ping6 <partner host name>

Example : ping6 XS34BA



```

C:\Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ping6 XS34BA

Pinging XS34BA [fec0:0:0:1::1]
from fe80::250:fcff:fe56:b6b4%4 with 32 bytes of data:

Reply from fe80::250:fcff:fe56:b6b4%4: bytes=32 time<1ms
Reply from fe80::250:fcff:fe56:b6b4%4: bytes=32 time<1ms
Reply from fe80::250:fcff:fe56:b6b4%4: bytes=32 time<1ms
Reply from fe80::250:fcff:fe56:b6b4%4: bytes=32 time<1ms

Ping statistics for fec0:0:0:1::1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Documents and Settings\Administrator>

```

For more details, refer to the manual of each OS.

1.2.4 HULFT Structure and Disk Space

For installation, free disk space in the hard disk should be not less than 40 MB.

- [Note] **Hints on upgrade installation are as follows:**
- **Required disk space varies depending upon the volume of logs.**
 - **Separate free disk space, which amounts to the existing HULFT that had been used, is required. Confirm the state of partition first, before you start installation work.**
 - **Back up operation logs beforehand.**

HULFT

~~~~~Memo~~~~~



## **Chapter 2**

### **Installation Method**

This chapter explains how to install HULFT

## 2.1 Installation of HULFT

### 2.1.1 Installation of HULFT

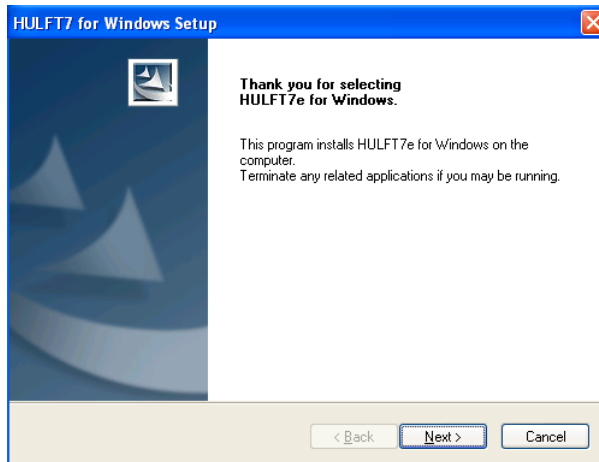
HULFT is installed by using the setup program.

If HULFT of lower version has already been installed, refer to "Chapter 8 Version Upgrade Procedure" and "Chapter 9 Level Upgrade/Revision Upgrade Procedure."

#### (1) Startup of Setup Program

Execute 'setup.exe' in the installation CD.

When the setup program is started, the following screen is displayed. Click [Next].



#### (2) License Agreement Screen

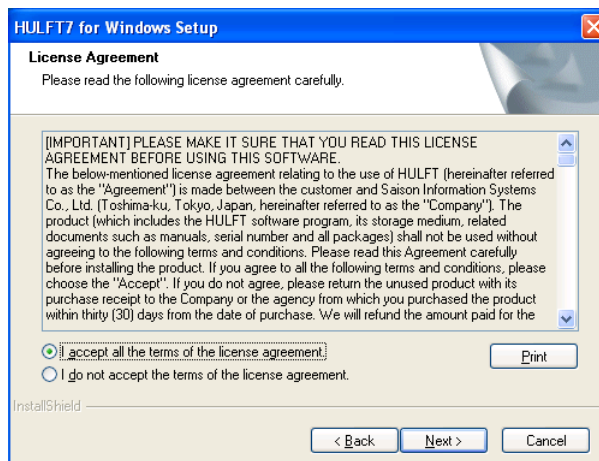
The explanation on the license of HULFT is displayed. Read the entire license agreement, select [I accept all the terms of the license agreement], and then click [Next].

When [Next] is clicked.

Installation of HULFT continues.

When [Cancel] is clicked.

Installation of HULFT is stopped.



### (3) Entry of Serial Number and Product Key

If the Serial number or the Product key is specified incorrectly, the setup will not proceed to the next step.

Specify the user information and click [Next].

The screenshot shows the 'HULFT7 for Windows Setup' window with the 'Customer Information' tab selected. The window has a blue title bar and a standard Windows XP-style border. The main area is light beige. At the top, it says 'Please enter your information.' Below that, it says 'Please enter the product serial number and the product key.' There are three input fields: 'Host Name' with 'HOST01' entered, 'Serial number' with a masked format 'XXXX-XX-XXXXXX', and 'Product key' with a masked format 'XXXXXX-XXXXXX-XXXXXX-XXXXXX-XXXXXX'. Below these fields, there is a note: '\* You can obtain Product Key from the following website:' followed by a text box containing 'http://www.hulft.com/'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

[Remarks]

- You can obtain the Product key from the URL shown on the dialog box.
- You can acquire the Host Name using hostname command as well.
- If you change the Host Name, you should obtain the Product Key again to perform setting up HULFT once more. When you set up the application again, select the Update Installation.

### (4) Selection of Installation Type

Select the New Installation if you newly install HULFT, while select the Update Installation if you overwrite the existing HULFT that has already been installed.

Select the Installation Type first, then click [Next].

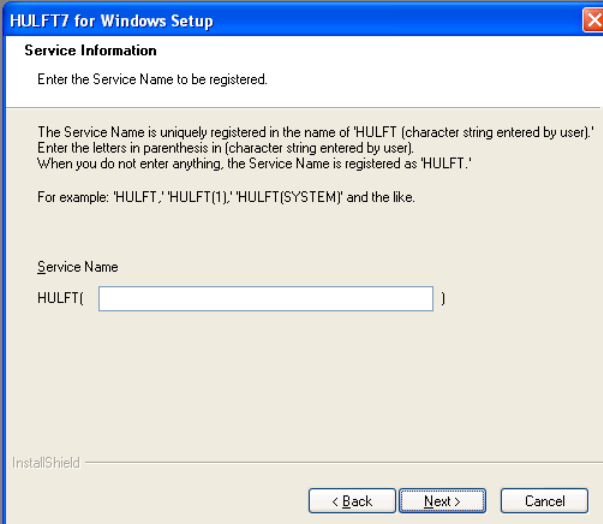
The screenshot shows the 'HULFT7 for Windows Setup' window with the 'Installation Type' tab selected. The window has a blue title bar and a standard Windows XP-style border. The main area is light beige. At the top, it says 'Please select installation type.' Below that, it says 'Select either New Installation or Update Installation.' There are two radio button options: 'New Installation' (which is selected) and 'Update Installation'. Below each option is a description: 'Perform new installation of HULFT.' for New Installation and 'Perform update installation of the existing HULFT.' for Update Installation. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

You can install more than one HULFT. Even when HULFT has already been installed, you can select the New Installation as well.

## (5) Setting of Service Name

Specify the Service Name. If more than one HULFT has been installed, specifying the name that has already been registered causes an error.

Specify the Service Name first, then click [Next].



The screenshot shows a Windows-style dialog box titled "HULFT7 for Windows Setup". The "Service Information" tab is selected. The dialog contains the following text:

**Service Information**  
Enter the Service Name to be registered.

The Service Name is uniquely registered in the name of 'HULFT (character string entered by user).'  
Enter the letters in parenthesis in (character string entered by user).  
When you do not enter anything, the Service Name is registered as 'HULFT.'

For example: 'HULFT,' 'HULFT(1),' 'HULFT(SYSTEM)' and the like.

Service Name  
HULFT(  )

InstallShield

At the bottom, there are three buttons: "< Back", "Next >", and "Cancel".

## (6) Settings of Installation Folder

Set HULPATH, the installation folder.

If you intend to change the folder to another, click [Browse] to select the folder.

Specify the installation folder and click [Next].

[Remarks]

### Installation Folder

- If you intend to change the folder, HULFT stores the modules required for the execution of HULFT and console logs.
- The size of console log increases as you operate HULFT.
- The minimum size of disk free space required for installation folder is 40MB.

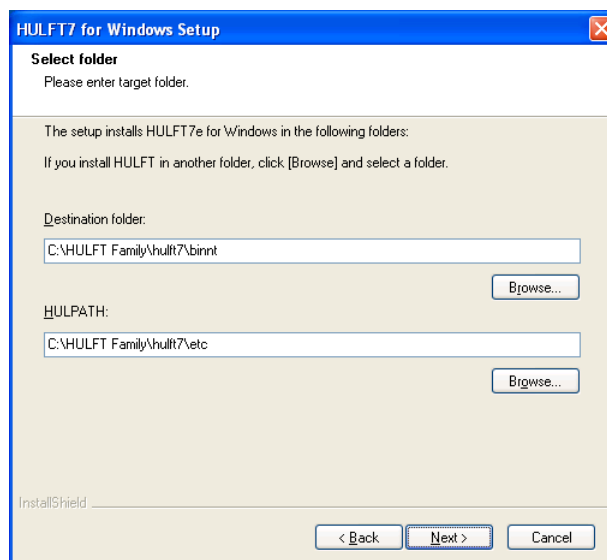
### HULPATH

- HULPATH is the path in which HULFT stores the management information required for sending and receiving operation as well as information such as the Send Log and the Receive Log.
- HULPATH is described in HULFT System Environment Settings file (hulft.ini), which is stored in the installation folder.  
(Example: C:\HULFT Family\hulft7\binnt\hulft.ini)

For details, refer to *Administration Manual*.

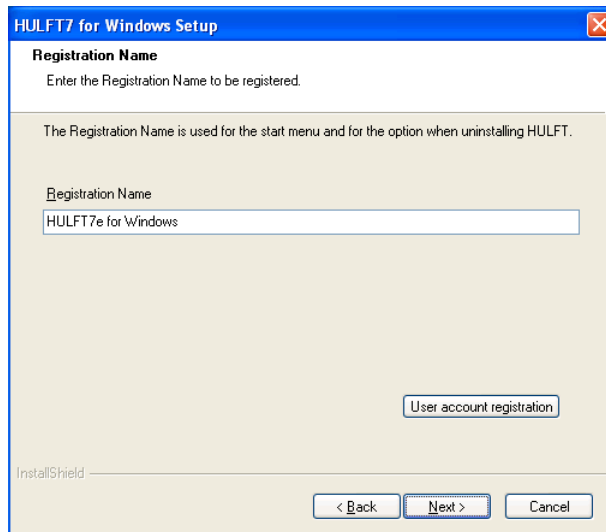
[Note]

- **You should specify the folder with sufficient free space for HULPATH.**
- **If the free disk space for HULPATH is not sufficient, proper operation of HULFT is not guaranteed.**
- **Specify a folder exclusively for the product for the installation folder.**
- **Do not create a user-made file in the installation folder.**



### (7) Setting of Registration Name

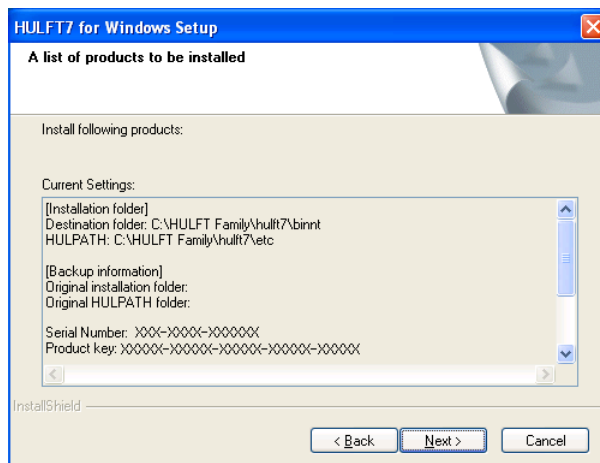
Specify the Registration Name that is indicated on [Start] Menu and [Add or Remove Programs].  
Specify the Registration Name first, then click [Next].



If more than one HULFT has been installed, specifying the Registration Name that has already been registered causes an error.

### (8) Confirmation of Installation Contents

Confirm the details of installation and click [Next]. The Installation process will start.

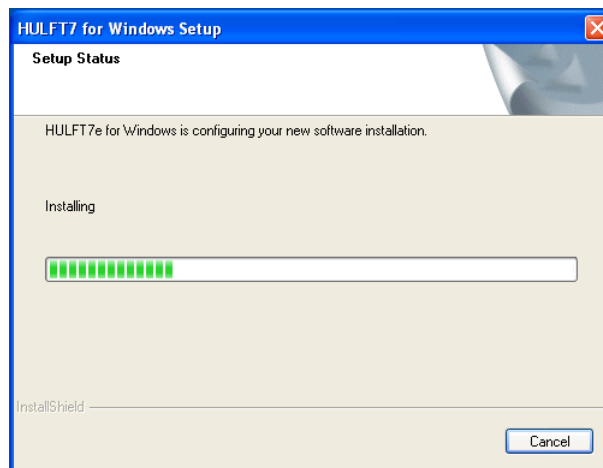


### (9) Installation Process

When the following screen is displayed, the installation of HULFT is in process.

Before this screen is displayed, the installer checks the system and operating environment to update.

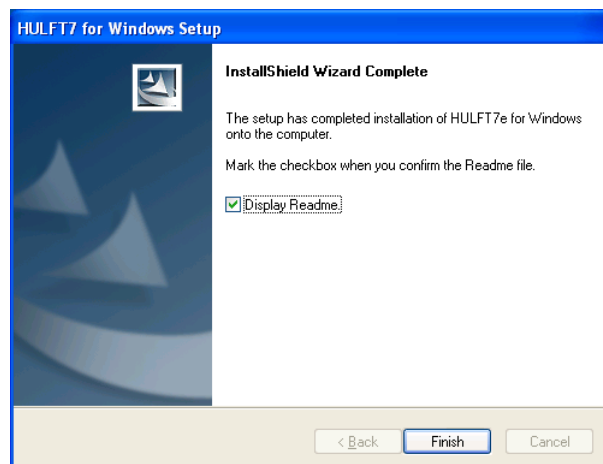
Click [Cancel] to stop the installation process.



### (10) Termination of Setup Program

To exit from the setup program, click [Finish]. You can start HULFT after the setup is completed.

Ensure that you read the explanation on environment settings for Windows in *Administration Manual*.



When you mark the Display Readme, the readme file is opened.

The installation of HULFT is now completed.

HULFT

~~~~~Memo~~~~~


Chapter 3

Startup of HULFT

This chapter explains how to start HULFT.

3.1 Startup of HULFT

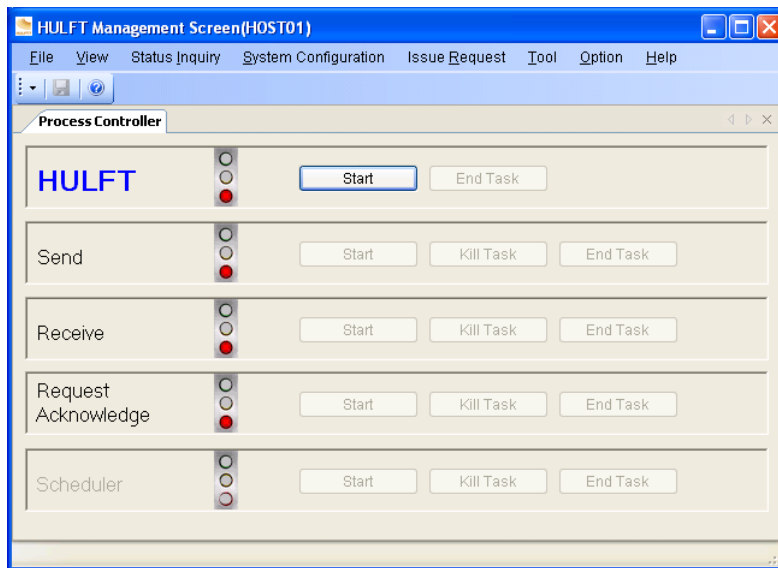
HULFT Service must be started before you use HULFT.

There are four methods to start HULFT Service. Refer to the sections from "3.1.1 Startup from HULFT Process Controller" to "3.1.4 Startup of Service Using Command."

3.1.1 Startup from HULFT Process Controller

Start HULFT Service from the Process Controller screen of HULFT Management screen.

- (1) Select [Start] > [All Programs] > [HULFT Family] and click [HULFT Management screen] to be started found in the menu, to start HULFT Management screen.
- (2) Start the Process Controller screen by selecting the [Tool] > [Process Controller] on the Management screen. The control window shown below is displayed.



The green light indicates that the startup is in process, yellow light indicates termination process is being initiated, and red light indicates the process is terminated, respectively. HULFT field indicates the status of the service. (started or stopped)

- (3) Click the [Start] of HULFT field. The service starts and the light turns to green, which indicates that startup is in process.

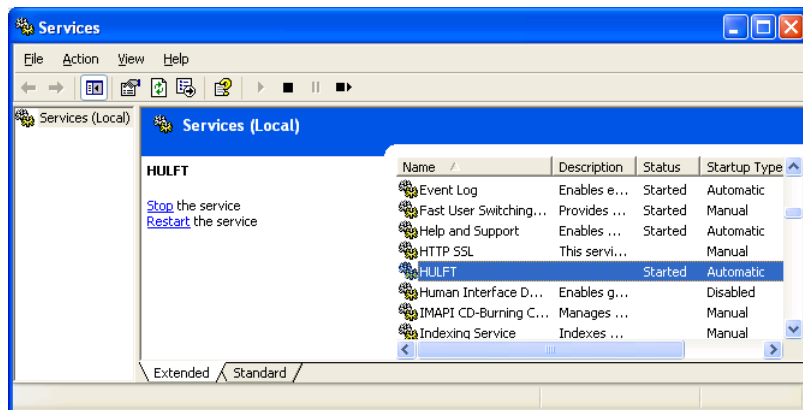
[Note] When you use the Process Controller, invoke it on the Management screen activated by administrative privilege.

3.1.2 Startup from the Control Panel Service

In the case of Microsoft WindowsXP Professional, comply with the procedure shown below to start HULFT Service by using Service provided by the OS:

[Remarks] Confirm how to display Services dialog box with the manual of your OS, as the manner differs from OS to OS.

- (1) Select [Start] > [Control Panel] > [Administrative Tools] > [Services].
- (2) Select the service name to be activated from the list of the registered services, and click the string that reads Start to start the service.

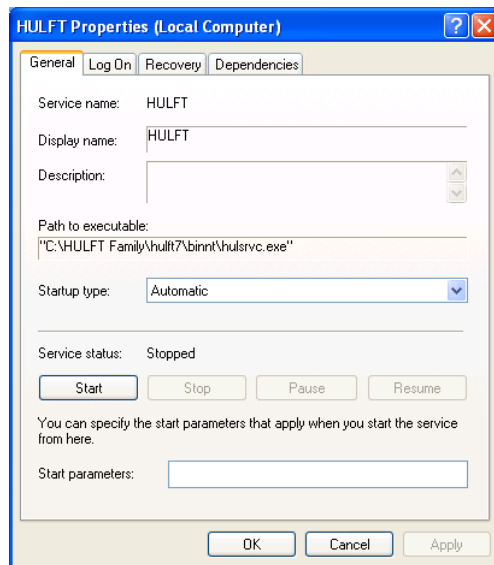


3.1.3 Startup of Service at Operating System Startup

In the case of Microsoft WindowsXP Professional, start HULFT Service along with the activation of OS by complying with the procedure shown below:

[Remarks] Confirm how to display Services dialog box with the manual of your OS, as the manner differs from OS to OS.

- (1) Select [Start] > [Control panel] > [Administrative Tools] > [Services].
- (2) Double-click the service name to be activated upon the startup of OS from the list of the registered services, or select the service name to be activated upon the startup of OS and click the [Action] > [Property].
- (3) Select [Startup type] > [Automatic] and click the [OK].



Setting up the property as above enables HULFT to start at the time of starting OS from the next time.

3.1.4 Startup of Service Using Command

Start HULFT service by using HULFT Startup command.

- (1) Start the command prompt.
- (2) Move to the folder in which HULFT is installed and execute utlsvctl.exe.

• HULFT Startup command
`utlsvctl -c start [-q]`

Description of the parameters

`-c start`

The parameter specifies the requests for HULFT. (Mandatory)

The tag activates HULFT.

`-q`

Asynchronous Request (Optional)

The parameter returns the control upon issuing the request, without waiting for the complete termination of HULFT.

[Note] When you execute utlsvctl command, execute it on the command prompt activated by administrative privilege.

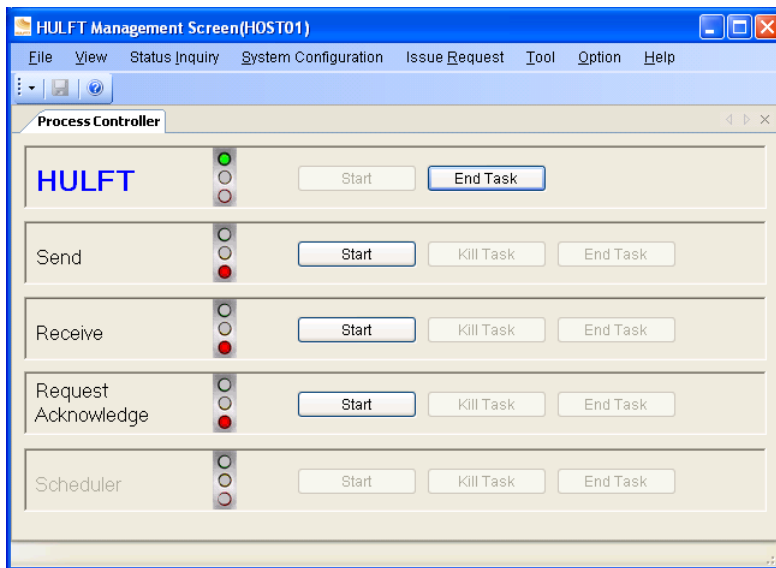
3.2 Startup of Each Process

Processes such as Send, Receive, and Request Acknowledge are started after the startup of HULFT service. There are two types of startup methods for each process.

3.2.1 Startup Each Process Individually

Startup each process from the Process Controller screen of the Management screen.

- (1) Select [Start] > [All Programs] > [HULFT Family] and click [HULFT Management screen] to be started found in the menu, to start HULFT Management screen.
- (2) Start the Process Controller by clicking the [Tools] > [Process Controller]. The control window shown below is displayed.



The green light indicates startup is in process, yellow light indicates the termination is in process, and red light indicates that the process is terminated, respectively.

- (3) When you click the [Start], the process will start and the light turns to green, which indicates that startup is in process.

[Note] When you use the Process Controller, invoke it on the Management screen activated by administrative privilege.

3.2.2 Startup Process at the Time of Service Startup

Set 'System Environment Settings' on the Management screen so that all processes startup when the service is started.

- (1) Select [Start] > [All Programs] > [HULFT Family] and click [HULFT Management screen] to be started found in the menu, to start HULFT Management screen.
- (2) Click the [System Configuration] > [System Environment Settings] on the Management screen.
- (3) Select the checkbox of the process to be automatically started by using the Automatic Process Startup in the Basic Settings of the System Environment Settings screen. Meanwhile, all processes are set to start up automatically upon installation.

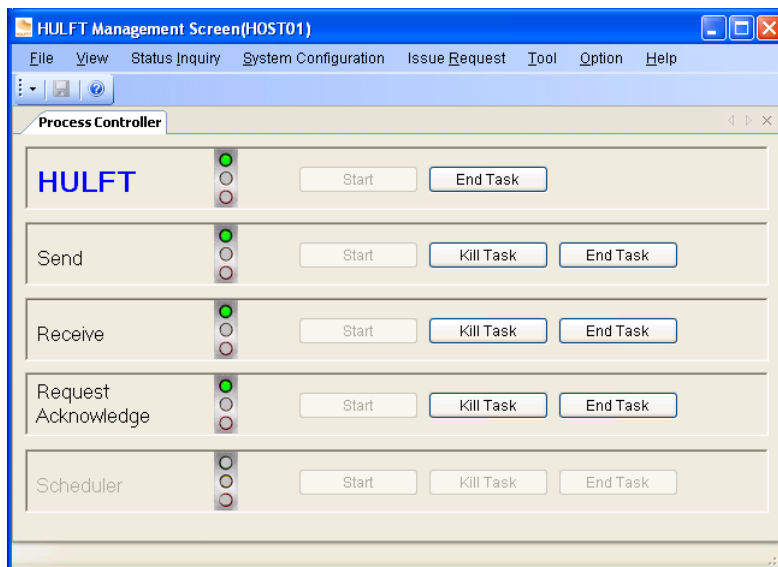
3.3 Confirmation of HULFT Startup

Confirm the proper startup of HULFT Service and each process. There are two methods to confirm.

3.3.1 Confirmation of Startup by HULFT Management Screen

Confirm the startup of each process and service by using process controller.

- (1) Select [Start] > [All Programs] > [HULFT Family] and click [HULFT Management screen] which you would like to confirm the startup found in the menu, to start HULFT Management screen.
- (2) Start the Process Controller by clicking the [Tool] > [Process Controller] on the Management screen. The control window shown below is displayed.



Confirm the status buttons and signals of each process and Service. The green light indicates that the startup is in process, yellow light indicates the termination is in process, and red light indicates the process is terminated, respectively. HULFT field indicates the status of the service. (started or stopped)

[Note] When you use the Process Controller, invoke it on the Management screen activated by administrative privilege.

3.3.2 Confirmation of Startup by Windows Task Manager

To confirm the startup of all processes and services with the Task Manager List (which is a part of OS)

- (1) Open Windows Task Manager.
- (2) Select Process tab. You can confirm the startup by checking the presence of the image names of the startup process list. The image names are described in the table shown below:

Table 3.1 List of Image Names

| Process Name | Image Name |
|-----------------------------|------------|
| HULFT Service | hulsrc.exe |
| Send Process | hulsdd.exe |
| Receive Process | hulrcv.exe |
| Request Acknowledge Process | hulobs.exe |

Chapter 4

Transfer Test

This chapter describes how to conduct HULFT transfer test.

4.1 Work before Transfer Test

This chapter describes the procedure to conduct the basic operation test on the local machine in order to check whether or not HULFT has been installed properly.

In the Transfer Test, the following points are verified;

- 4.2 Management Information Registration on HULFT Management Screen
- 4.3 Send File Issued on HULFT Management Screen (File Transfer Started at Sending Side)
- 4.4 Send and Receive Log Confirmation on HULFT Management Screen (File Transfer Started at Sending Side)
- 4.5 Send Request Issued on HULFT Management Screen (File Transfer Started at Receiving Side)
- 4.6 Request Status Confirmation on HULFT Management Screen
- 4.7 Send and Receive Log Confirmation on HULFT Management Screen (File Transfer Started at Receiving Side)

Comply with the instructions in this chapter to ensure trouble-free operation.

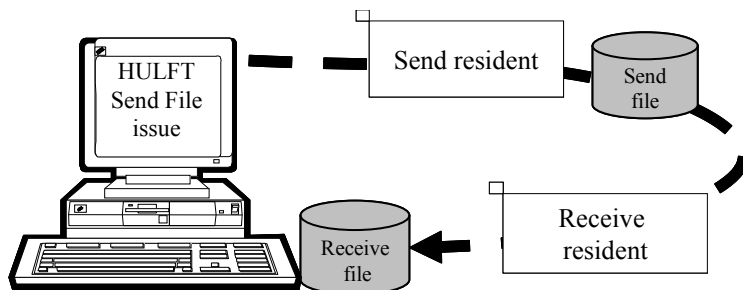


Figure 4.1 Image of Send File Relationship

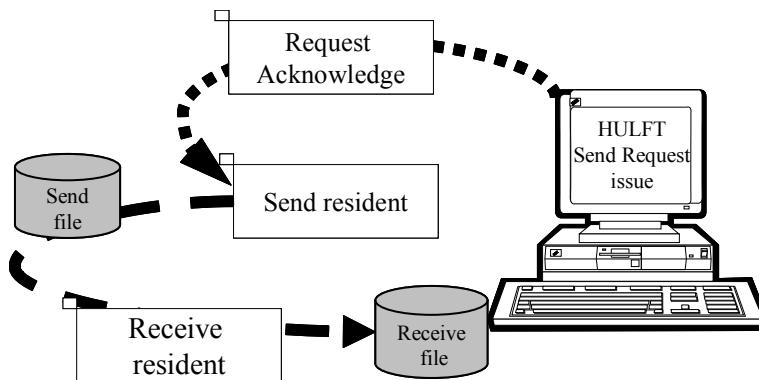


Figure 4.2 Image of Send Request Relationship

4.1.1 Verification of Connection with Local Host

To transfer with HULFT, you must check connection with the partner machine under the local host name of the partner machine (by using the ping command).

In the transfer test, the local host (your machine) is considered itself as a remote machine, so you must check by connecting with the local host name. Refer to "1.2.2 Connection with Partner Machine" for details.

4.1.2 Startup of Management Screen

To carry out Sending and Receiving on HULFT, management information should be registered. To register each management information, use HULFT Management screen. The method to start the Management screen is as follows;

- (1) Select [Start] > [All Programs] > [HULFT Family] and click [HULFT Management screen] to be started found in the menu, to start HULFT Management screen.
- (2) The Management screen is started and the initial screen is displayed.

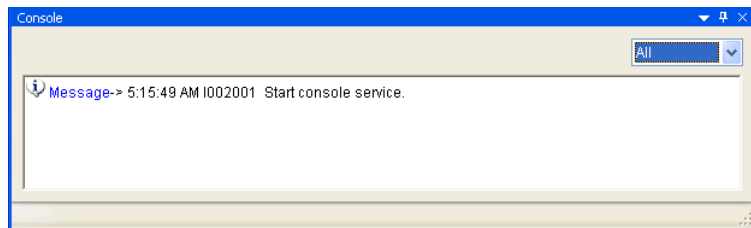
4.1.3 HULFT Startup

Refer to "Chapter 3 Startup of HULFT."

4.1.4 Startup of Console Screen

On the Console screen, the operation status of HULFT is displayed on a real-time basis and the Send and Receive status can be confirmed. The method to start the Console screen is as follows;

- (1) Select the [Tool] > [Console] on the Management screen.
- (2) When the Console screen starts, the initial screen is displayed as shown below.



4.2 Management Information Registration on HULFT Management Screen

HULFT registers the same File ID (within 8 alphanumeric characters) both on the sending side and on the receiving side and carries out file transfer based on management information associated with the file ID.

The file ID should be registered for each file both on the sending side (the Send Management Information) and on the receiving side (the Receive Management Information).

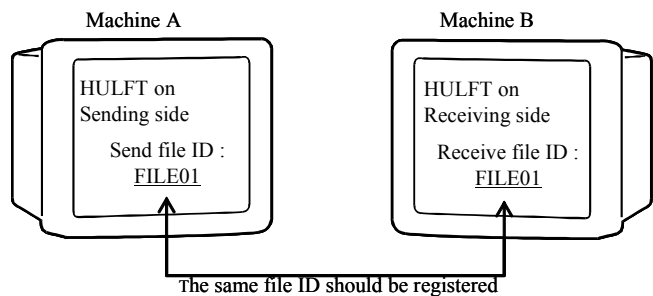


Figure 4.3 Image of File ID Relationship

In addition to file ID, other management information should be registered, which is also managed by the ID. During the file transfer, the minimum management information required at the sending side and the receiving side is as follows. For details on the management information requisite to the file transfer, refer to *Administration Manual*.

HULFT on Sending side

- Send Management Information (Send file ID)
- Host Information (host name of the host on the receiving side)
- Transfer Group Information (Transfer Group ID)

HULFT on Receiving side

- Receive Management Information (Receive file ID)
- Host Information (host name of the host on the sending side)
- Transfer Group Information (Transfer Group ID)

File transfer within the same HULFT on the same machine is carried out in this transfer testing, therefore the following four types of information has to be registered.

They are given in the following sections in the order of registration. The respective 'ID' should be as follows.

- 4.2.1 Host Information (local host name) HOST01
- 4.2.2 Transfer Group Information (Transfer Group ID) Group001
- 4.2.3 Send Management Information (Send file ID) TEST0001
- 4.2.4 Receive Management Information (Receive file ID) TEST0001

[Note] Although the local host name of the machine is given as 'HOST01' in this document, use a suitable name to your environment.

Now, register the information by using the System Configuration menu on HULFT Management screen.

4.2.1 Host Information Registration

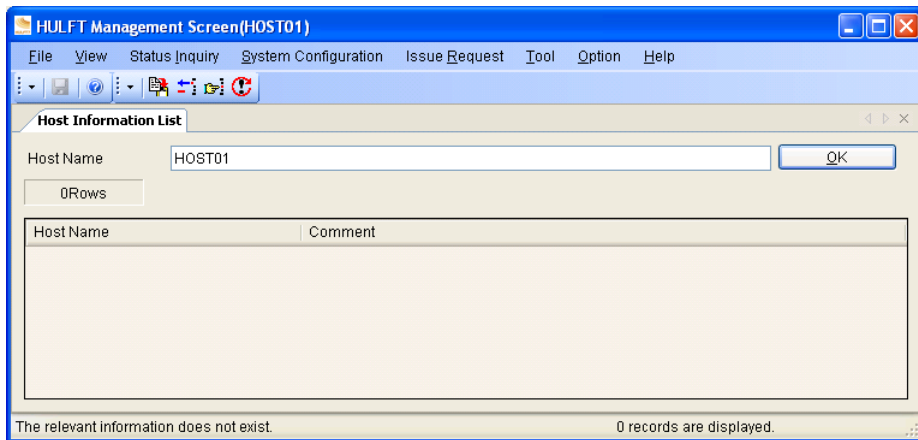
The procedure to register the Host Information on the Management screen is described below. In the transfer test, the file transfer with the same HULFT on the same machine is performed. Therefore, register the following information in the Host Information.

[Registration contents]

| | |
|-------------------------------|---------------|
| Host Name: | HOST01 |
| Host Type: | WindowsNT |
| Receive Port No.: | 30000 |
| Request Acknowledge Port No.: | 31000 |
| Other fields: | Default value |

(1) Display of Host Information List Screen

Select the [System Configuration] > [Host Information] on the Management screen. The Host Information List screen is displayed.



(2) Registration of Host Name

Enter the host name to be registered in the field of the Host Name on the Host Information List screen and click the [OK]. The Host Information Update screen will be displayed.

The screenshot shows the 'HULFT Management Screen(HOST01)' window. The 'Host Information List' tab is active, and the 'Host Information Update(HOST01)' screen is displayed. The 'Host Name' field contains 'HOST01'. On the left, a tree view shows 'Basic Settings' selected. The main area contains the following fields:

- Host Type: WindowsNT (dropdown)
- Kanji Code Type: SHIFT-JIS (dropdown)
- Receive Port No.: 30000 (text)
- Send Process Multiplex Level by Host: 0 (text)
- Connection Type: LAN (dropdown)
- Communication Protocol: HULFT (dropdown)
- Request Acknowledge Port No.: 31000 (text)
- JIS Year: 83JIS (dropdown)
- Mailbox Use: ☐ (checkbox)

A 'Comment' field is located at the bottom of the screen.

[Note] Enter the correct spelling of the host name, because Host Name on HULFT is case-sensitive.

(3) Registration of Detailed Host Information

Select the Basic Settings of the Host Information Update screen. Refer to *Operation Manual* for details.

Once all the fields are completed, click the [Save] on the toolbar to register the entry. To cancel the registration, click the [Close] on the Host Information List screen.

4.2.2 Transfer Group Information Registration

The procedure to register the Transfer Group Information on the Management screen is described below.

In the transfer test, the file transfer with the same HULFT on the same machine is performed. Therefore, register the following information in the Transfer Group Information.

[Registration contents]

Transfer Group ID: Group001

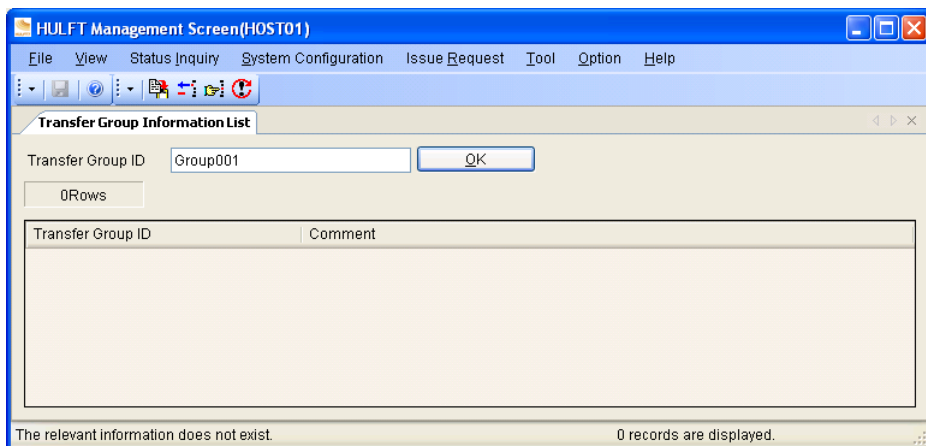
Host Name: HOST01 (Remote host name registered in the Host Information)

(1) Display of Transfer Group Information screen

To display the Transfer Group Information screen, select [System Configuration] > [Transfer Group Information].

(2) Registration of Transfer Group Name

Enter the Transfer Group ID to be registered in the field of the Transfer Group ID on the Transfer Group Information List screen. Click the [OK]. The Transfer Group Information Update screen is displayed.



(3) Registration of Detailed Transfer Group ID

Enter the Host Name on the Transfer Group Information Update screen. Refer to *Operation Manual* for details.

The screenshot shows the HULFT Management Screen (HOST01) with the following components:

- Menu Bar:** File, View, Status Inquiry, System Configuration, Issue Request, Tool, Option, Help.
- Toolbar:** Includes icons for file operations and navigation.
- Tab Bar:** Shows 'Transfer Group Information List' and 'Transfer Group ...date(Group001)'. The second tab is active.
- Form Fields:**
 - Transfer Group ID:** A text box containing 'Group001'.
 - Host Name:** A table with one row containing 'HOST01'.
 - Comment:** A text box at the bottom.
- Table:**

| | Host Name |
|----|-----------|
| ▶1 | HOST01 |
| * | |
- Footer:** A button labeled '1 Rows'.

Once all the fields are completed, click the [Save] on the toolbar to register the entry. To cancel the registration, click the [Close] on the Transfer Group Information Update screen.

4.2.3 Send Management Information Registration

The procedure to register the Send Management Information on the Management screen is described as below.

In the transfer test, the file transfer with the same HULFT on the same machine is performed. Therefore, register the following information in the Send Management Information.

[Registration contents]

| | |
|--------------------|-----------------------------|
| Send File ID: | TEST0001 |
| Send File Name: | C:\HULFT\SendData\Data1.txt |
| Transfer Type: | TEXT |
| Transfer Group ID: | Group001 |
| Other fields: | Default value |

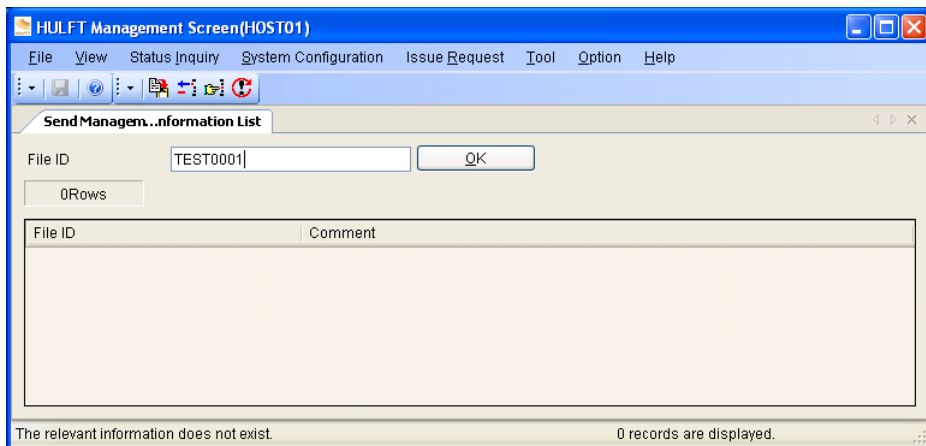
[Note] The name of the file to send needs to be changed according to your environment.

(1) Display of Send Management Information List screen

To display the Send Management Information List screen, select [System Configuration] > [Send Management Information] on the Management screen.

(2) Registration of File ID

To register, enter a file ID to be registered in the field of File ID on the Send Management Information List screen and click the [OK]. The Send Management Information Update screen is displayed.



(3) Registration of Detailed File ID Information

Specify the File Name, the Transfer Group ID, and the Transfer Type on the Basic Settings of the Send Management Information Update screen. Refer to *Operation Manual* for details.

The screenshot shows the 'HULFT Management Screen(HOST01)' window. The title bar includes menu items: File, View, Status Inquiry, System Configuration, Issue Request, Tool, Option, Help. The main window has a tab labeled 'Send Management Information List' and a sub-tab 'Send Management Information Update(ATEST0001)'. On the left, there is a tree view with 'Basic Settings' selected. The main area contains the following fields:

| | | |
|-------------------|-----------------------------|---------------------------|
| File ID | TEST0001 | |
| File Name | C:\HULFT\SendData\Data1.txt | Reference |
| Transfer Type | TEXT | |
| Code Conversion | Sending Side | |
| Compression Level | None | Compression Unit: 0 Bytes |
| Pre-send Job ID | | |
| Successful Job ID | | Unsuccessful Job ID |
| Interface DBID | | Format/Multi Format ID |
| Transfer Group ID | Group001 | |
| Comment | | |

Once all the fields are completed, click the [Save] on the toolbar to register the entry. To cancel the registration, click the [Close] on the Send Management Information Update screen.

4.2.4 Receive Management Information Registration

The procedure to register the Receive Management Information on the Management screen is described as below.

In the transfer test, the file transfer with the same HULFT on the same machine will be done. Therefore, register the following information in the Receive Management Information.

[Registration contents]

| | |
|--------------------|-----------------------------|
| Receive File ID: | TEST0001 |
| Receive File Name: | C:\HULFT\RecvData\Data1.txt |
| Transfer Group ID: | Group001 |
| Other fields: | Default value |

[Remarks] When specified file name already exists, the Registration Mode needs to be changed to 'Replace.'

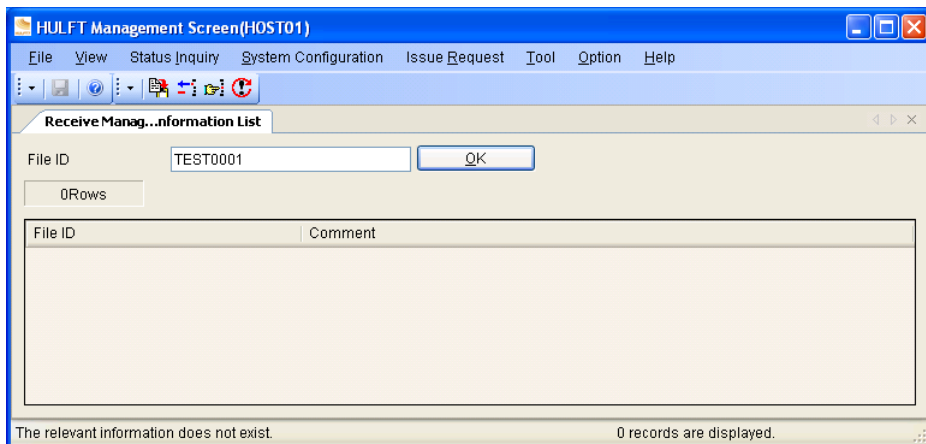
[Note] **The Receive file name needs to be changed according to your environment.**

(1) Display of Receive Management Information List screen

To display the Receive Management Information List screen, select the [System Configuration] > [Receive Management Information] on the Management screen.

(2) Registration of File ID

Enter a file ID to be registered in the field of File ID on the Receive Management Information List screen and click the [OK]. The Receive Management Information Update screen will be displayed.



(3) Registration of Detailed File ID Information

Specify the File Name in the Basic Setting of the Receive Management Information Update screen.

HULFT Management Screen(HOST01)

File View Status Inquiry System Configuration Issue Request Tool Option Help

Receive Management Information List **Receive Manag...ate(TEST0001)**

File ID: TEST0001

Basic Settings

File Name: C:\HULFTData1.txt Reference

Registration Mode: New Creation ▼

Error Recovery: Delete ▼

Receive Mode: Single Receive ▼

Generation File: Disabled ▼

Generation File Count: 0

Job

Successful Job ID:

Unsuccessful Job ID:

Comment:

Set the Transfer Group ID in the Extension Settings of the Receive Management Information Update screen.

HULFT Management Screen(HOST01)

File View Status Inquiry System Configuration Issue Request Tool Option Help

Receive Management Information List **Receive Manag...te(TEST0001)***

File ID: TEST0001

Extension Settings

Transfer Group ID: Group001

EBCDIC Code Set: Standard ▼

Mail Interface ID:

Encryption Key:

Notification: Receive Completion ▼

Verify Data: No ▼

Comment:

Refer to *Operation Manual* for more details on each field.

Once all the fields are completed, click the [Save] on the toolbar to register the entry. To cancel the registration, click the [Close] on the Receive Management Information Update screen.

4.3 Send File Issued on HULFT Management Screen (File Transfer Started at Sending Side)

The send file is used when file transfer is started from the side that retains the file to be transferred.

You can execute Send File both from HULFT Management screen and by using a batch command.

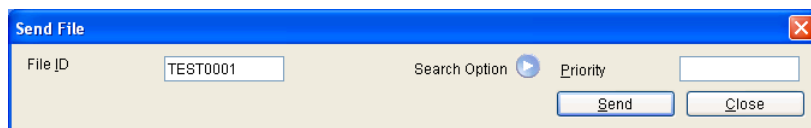
The method to execute Send File from Issue Request on HULFT Management screen is described in this section.

(1) Display of Send File Dialog Box

Select [Issue Request] > [Send File] > [Send File] on the Management screen. The Send File dialog box is displayed.

(2) Execution of Send Process

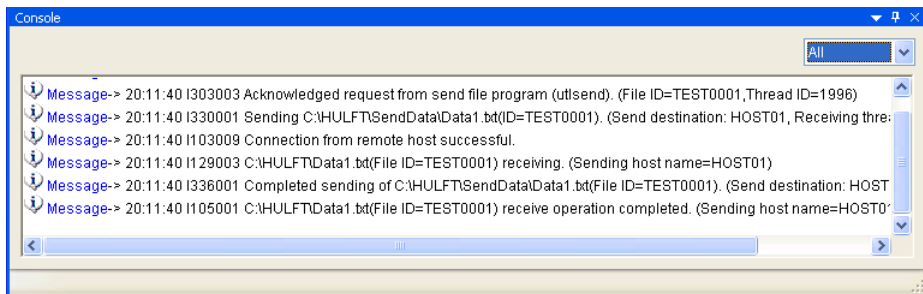
Enter the File ID to which you intend to issue the Send File in the Send File dialog box. Click the [Send].



When the processing of the Send File has been successful, a message box that reads 'Request issue operation successful' is displayed.

(3) Confirmation from the Console screen

Messages of start and end of send process are displayed on the Console screen.



Now the Send File will be issued from HULFT Management screen.

[Remarks] Make sure following points if an error occurs;

- Verify the setting of the Host Information.
- Verify whether the Host Names of the Host Information (Including the case sensitivity) have been registered correctly or not.
- Refer to *Error Codes and Messages* for the error code shown in the message box of issue request failure.
- Refer to *Error Codes and Messages* for the respective error codes and error messages, if an error message is displayed in the Console screen.

4.4 Send and Receive Log Confirmation on HULFT Management Screen (File Transfer Started at Sending Side)

Check the result of the file transfer you carried out in "4.3 Send File Issue from HULFT Management Screen (File Transfer Started at Sending Side)." The send log is displayed on the sending side and the receive log is displayed on the receiving side. The confirmation of the result of each process is carried out by using the [Status Inquiry] menu on HULFT Management screen. In this Transfer Test, because the transfer is performed within the local machine, both logs are displayed.

4.4.1 Confirmation of Send Log (File Transfer Started at Sending Side)

(1) Display of Send Log List screen

Select the [Status Inquiry] > [Send Log Inquiry] on the Management screen. The Send Log List screen is displayed.

| File ID | Host Name | Start Date | Start Time | End Date | End Time | Status Code | Record |
|----------|-----------|------------|------------|------------|----------|---------------|--------|
| TEST0001 | HOST01 | 2009/05/07 | 21:42:11 | 2009/05/07 | 21:42:12 | 333450(00701) | |
| FILE002 | HOST01 | 2009/05/07 | 21:41:21 | 2009/05/07 | 21:41:21 | 000000(00000) | |
| FILE001 | HOST01 | 2009/05/07 | 21:40:59 | 2009/05/07 | 21:40:59 | 000000(00000) | |
| FILE001 | HOST01 | 2009/05/07 | 21:40:56 | 2009/05/07 | 21:40:57 | 000000(00000) | |
| FILE001 | HOST01 | 2009/05/07 | 21:40:28 | 2009/05/07 | 21:40:28 | 333450(00802) | |
| FILE001 | HOST01 | 2009/05/07 | 21:40:25 | 2009/05/07 | 21:40:25 | 333450(00802) | |

14 records are displayed.

(2) Display of Send Detail Information Inquiry

Select the File ID for which you would like to confirm the log records of sending and click the [Details] or double-click on the list. The Send Detail Information is displayed on the Send Log List screen.

The screenshot displays the HULFT Management Screen (HOST01) with the following components:

- Menu Bar:** File, View, Status Inquiry, System Configuration, Issue Request, Tool, Option, Help.
- Toolbar:** Includes icons for file operations and navigation.
- Receive Log List:**
 - Buttons: 8Rows, All, Unsuccessful, Down, Up.
 - Table with columns: File ID, Host Name, Start Date, Start Time, End Date, End Time, Status.
 - Selected row: File ID TEST0001, Host Name HOST01, Start Date 2009/05/07, Start Time 21:42:11, End Date 2009/05/07, End Time 21:42:12, Status 10970.
- Form Fields:**
 - File ID: TEST0001
 - Send Host: HOST01
 - Receive Date: 2009/05/07 21:42:11 - 2009/05/07 21:42:12
 - Record Count: 0
 - Data Size: 0 Bytes
 - Status Code: 109701 - 00080
 - File Name: C:\HULFTData1.txt
 - Identifier: 0B28481653F80B5198DD19159855D4D161
 - Connection Type: LAN
 - Transmission Rate: 0 Byte
 - IP Version: IPv4
- Job Message Section:**
 - Job: Receiving Side Job Status
 - Job Execution Date: [Empty field]
 - Table with columns: Job Name, Start Time, End Time, Status.
- Description and Measure:**
 - Description: Unable to open file.
 - Measure: Specified directory may not exist or the file may be write-protected. Check Environment Settings.
- Status Bar:** 1 records are selected.

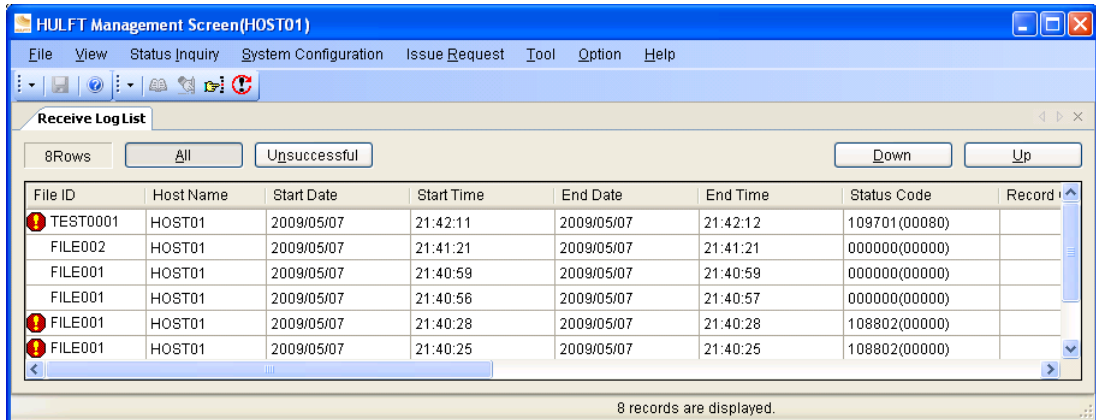
[Remarks] Refer to *Error Codes and Messages* in case of an error.

For the details of the Send Log List screen, refer to *Operation Manual*.

4.4.2 Confirmation of Receive Log (File Transfer Started at Sending Side)

(1) Display of Receive Log List Screen

To display the Receive Log List screen, select the [Status Inquiry] > [Receive Log Inquiry] on the Management screen.



Receive Log List

8Rows All Unsuccessful Down Up

| File ID | Host Name | Start Date | Start Time | End Date | End Time | Status Code | Record |
|----------|-----------|------------|------------|------------|----------|---------------|--------|
| TEST0001 | HOST01 | 2009/05/07 | 21:42:11 | 2009/05/07 | 21:42:12 | 109701(00080) | |
| FILE002 | HOST01 | 2009/05/07 | 21:41:21 | 2009/05/07 | 21:41:21 | 000000(00000) | |
| FILE001 | HOST01 | 2009/05/07 | 21:40:59 | 2009/05/07 | 21:40:59 | 000000(00000) | |
| FILE001 | HOST01 | 2009/05/07 | 21:40:56 | 2009/05/07 | 21:40:57 | 000000(00000) | |
| FILE001 | HOST01 | 2009/05/07 | 21:40:28 | 2009/05/07 | 21:40:28 | 108802(00000) | |
| FILE001 | HOST01 | 2009/05/07 | 21:40:25 | 2009/05/07 | 21:40:25 | 108802(00000) | |

8 records are displayed.

(2) Display of Receive Detail Information Inquiry screen

Select the File ID for which you would like to confirm the log records of receiving and click the [Details] or double-click on the list. The Receive Detail Information is displayed on the Receive Log List screen.

The screenshot displays the HULFT Management Screen (HOST01) with the 'Receive Log List' tab selected. The main window shows a table of log entries. The first entry, File ID TEST0001, is selected. Below the table, detailed information for this entry is shown, including File ID, Send Host, Receive Date, Record Count, Status Code, File Name, and Identifier. A 'Job Message' section on the left shows an error message: 'Unable to open file.' The 'Receiving Side Job Status' section on the right shows 'Job Execution Date' and a table for 'Job Name', 'Start Time', 'End Time', and 'Status'. The status bar at the bottom indicates '1 records are selected.'

| File ID | Host Name | Start Date | Start Time | End Date | End Time | Status |
|----------|-----------|------------|------------|------------|----------|--------|
| TEST0001 | HOST01 | 2009/05/07 | 21:42:11 | 2009/05/07 | 21:42:12 | 109701 |

File ID: TEST0001
 Send Host: HOST01
 Receive Date: 2009/05/07 21:42:11 - 2009/05/07 21:42:12
 Record Count: 0
 Status Code: 109701 - 00080
 File Name: C:\HULFTData1.bt
 Identifier: 0B28481653F80B5198DD19159855D4D161

Job Message: Unable to open file.

Receiving Side Job Status
 Job Execution Date:
 Job Name: Start Time: End Time: Status:

Measure: Specified directory may not exist or the file may be write-protected. Check Environment Settings

1 records are selected.

[Remarks] Refer to *Error Codes and Messages* in the case of an error.

For the details of the Receive Log List screen, refer to *Operation Manual*.

4.5 Send Request Issued on HULFT Management Screen (File Transfer Started at Receiving Side)

The Send Request is used when file transfer is started from the side that receives the transferred file.

You can execute the Send Request both on HULFT Management screen or by using a batch command.

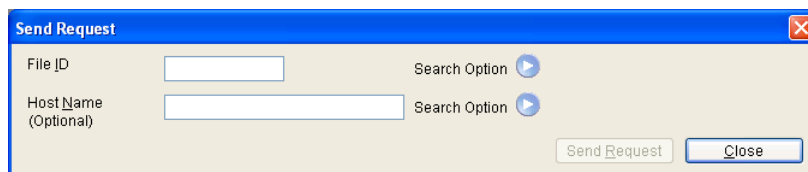
The method to execute the Send Request from the [Issue Request] menu of HULFT Management screen is described in this section.

(1) Display of Send Request Dialog Box

To display the Send Request dialog box, select [Issue Request] > [Send Request] > [Send Request] on the Management screen.

(2) Execution of Receive Process

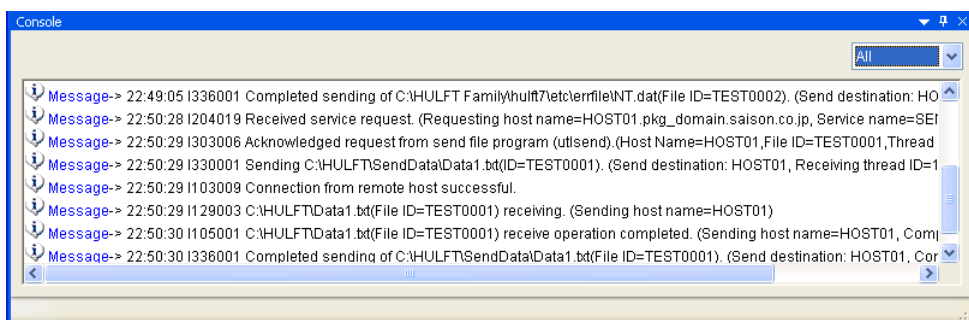
Enter the File ID and Host Name to which you intend to issue the Send Request in the Send Request dialog box. on the Send Request dialog box and click the [Send Request].



When the processing of the Send Request has been successful, a message box that reads 'Request issue operation successful' is displayed.

(3) Confirmation on the Console Screen

Messages of start and end of receive process are displayed on the Console screen.



Now the send request will be issued from HULFT Management screen.

[Remarks] Make sure following points if an error occurs;

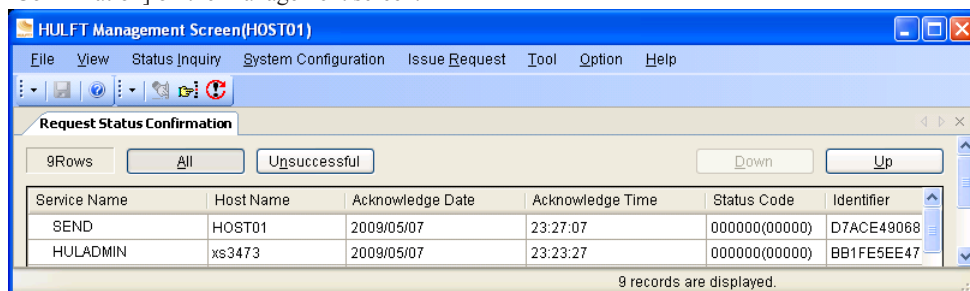
- Verify the setting of the Host Information.
- Verify whether the Host Names of the Host Information (Including the case sensitivity) have been registered correctly or not.
- Verify whether the Host Information on receiving (send request) side is registered correctly in the Host Information on the sending side.
- Verify the Request Log of the request destination host.
- Refer to *Error Codes and Messages* for the error code shown in the message box of issue request failure.
- Refer to *Error Codes and Messages* for the respective error codes and error messages, if an error message is displayed in the Console screen.

4.6 Request Status Confirmation on HULFT Management Screen

HULFT maintains a log similar to those described in "4.3 Send File Issue from HULFT Management Screen (File Transfer Started at Sending Side)." However, in the case of the Send Request, the request is acknowledged by the Request Acknowledge resident job of the remote machine. The log that indicates the request has been received is also displayed in the Request Status Confirmation of the machine that has received the request.

(1) Display of Request Status Confirmation screen

To display the Request Status Confirmation screen, select the [Status Inquiry] > [Request Status Confirmation] on the Management screen.



| Service Name | Host Name | Acknowledge Date | Acknowledge Time | Status Code | Identifier |
|--------------|-----------|------------------|------------------|---------------|------------|
| SEND | HOST01 | 2009/05/07 | 23:27:07 | 000000(00000) | D7ACE49068 |
| HULADMIN | xs3473 | 2009/05/07 | 23:23:27 | 000000(00000) | BB1FE5EE47 |

9 records are displayed.

[Remarks] In case of an error, refer to *Error Codes and Messages*.

For the details of the Request Status Confirmation screen, refer to *Operation Manual*.

4.7 Send and Receive Log Confirmation on HULFT Management Screen (File Transfer Started at Receiving Side)

Confirm the result of file transfer carried out in "4.5 Send Request Issued on HULFT Management Screen (File Transfer Started at Receiving Side)."

4.7.1 Confirmation of Send Log (File Transfer Started at Receiving Side)

The operation procedure is the same as in "4.4.1 Confirmation of Send Log (File Transfer Started at Sending Side)."

4.7.2 Confirmation of Receive Log (File Transfer Started at Receiving Side)

The operation procedure is the same as in "4.4.2 Confirmation of Receive Log (File Transfer Started at Sending Side)."

The transfer test is now completed.

Chapter 5

Termination of HULFT

This chapter describes how to stop HULFT.

5.1 Termination of HULFT

There are three methods to stop HULFT Service.

Refer to the sections from "5.1.1 Termination of HULFT Service Using HULFT Process Controller" to "5.1.3 Termination of HULFT by Using Command Prompt."

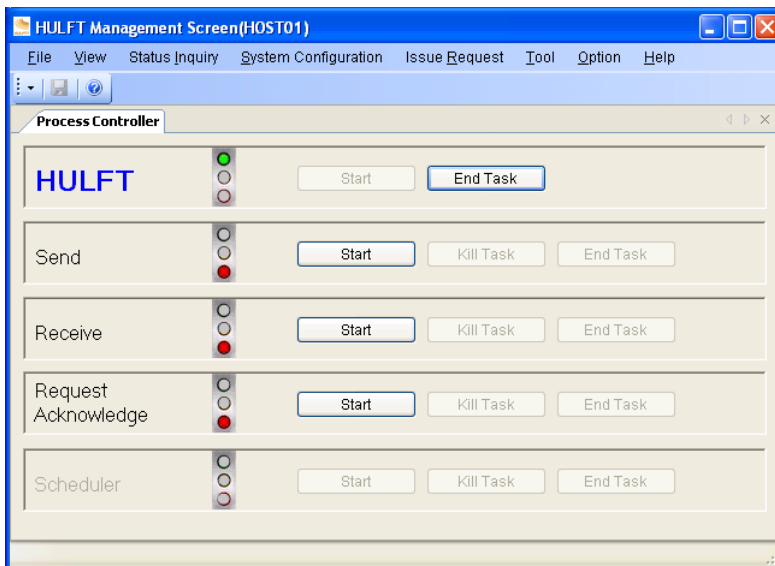
When you stop HULFT Service, all the processes will terminate at the same time. However, if sending and receiving are in progress, HULFT will terminate the Send and Receive process first then end each process to terminate HULFT Service.

5.1.1 Termination of HULFT Service Using HULFT Process Controller

To stop HULFT Service on the Process Controller screen of HULFT Management screen,

- (1) Select [Start] > [All Programs] > [HULFT Family] and click [HULFT Management screen] to be stopped found in the menu, to start HULFT Management screen.
- (2) On the Management screen, start the Process Controller. To start the Process Controller, select the [Tool] > [Process Controller].

The following control window is displayed.



The green color of the signal indicates that the startup is in progress, yellow indicates that the termination is in progress, and red indicates that the process has been stopped, respectively. HULFT indicates the status of the Service (started or stopped).

- (3) Clicking the [End Task] of HULFT on the screen stops the service and the signal turns to red, which indicates that the process has been stopped.

[Note] When you use the Process Controller, invoke it on the Management screen activated by administrative privilege.

5.1.2 Termination of HULFT Using Services in Control Panel

In the case of Microsoft WindowsXP Professional, comply with the procedure shown below to stop HULFT Service by using Services provided by the OS:

[Remarks] Confirm how to display Services dialog box with the manual of your OS, as the manner differs from OS to OS.

- (1) Select [Start] > [Control Panel]. Double-click Administrative Tools icon. Double-click Services.
- (2) Select a service name from the list of the registered services. Clicking Stop the service stops the service.

5.1.3 Termination of HULFT Using Command Prompt

- (1) Start the Command Prompt.
- (2) Move to the folder in which HULFT is installed and execute utlsvctl.exe.

- HULFT Termination command
`utlsvctl -c stop [-q]`

Explanation of parameters

`-c stop`

The parameter specifies the requests for HULFT. (Mandatory)
 The tag stops HULFT.

`-q`

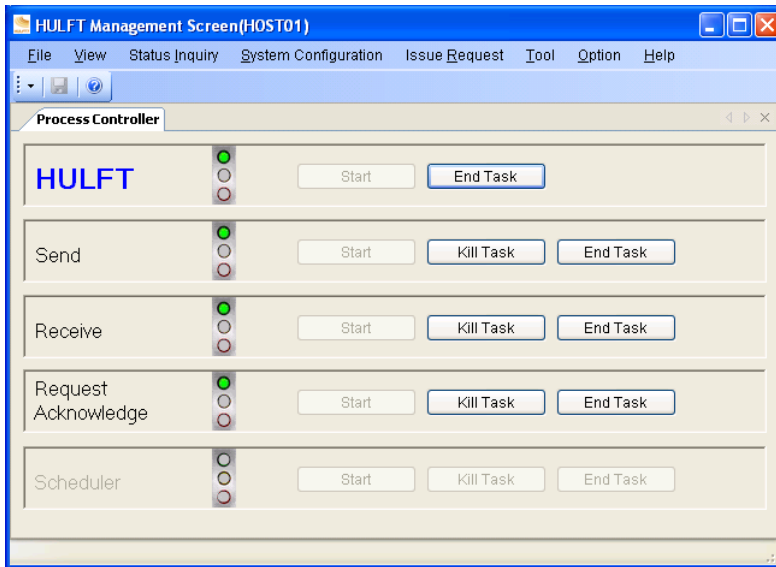
The parameter returns the control upon issuing the request, without waiting for the complete termination of HULFT. (Optional)

[Note] **When you execute utlsvctl command, execute it on the command prompt activated by administrative privilege.**

5.2 Termination of Processes

In this section, you terminate each process, namely, Send, Receive, and Request Acknowledge. The method to terminate each process on HULFT Management screen is described below:

- (1) Select [Start] > [All Programs] > [HULFT Family] and click [HULFT Management screen] to be stopped found in the menu, to start HULFT Management screen.
- (2) Start the Process Controller by selecting the [Tool] > [Process Controller] on HULFT Management screen. The following control window is displayed.



The green color of the signal indicates that the startup is in progress, yellow indicates that the termination is in progress, and red indicates that the process has been stopped, respectively.

- (3) To end a process, click the [End Task] of the process you would like to stop. The signal will turn to yellow. When the termination process is completed, the signal turns to red.

[Note]

- If you execute exit process while sending and receiving are in process, HULFT terminates Send and Receive process which is currently active prior to exit from the service. In such case, the signal stays on yellow.
- When you use the Process Controller, invoke it on the Management screen activated by administrative privilege.

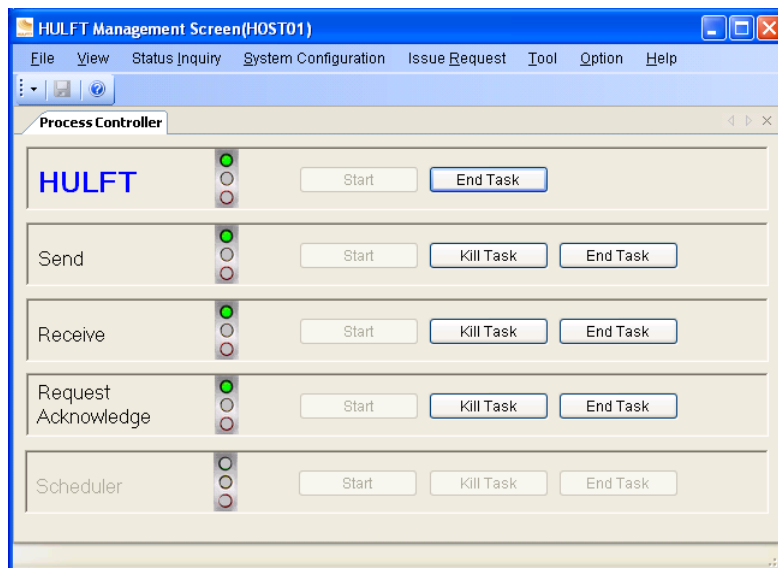
5.3 Forced Termination of Processes

If you cannot terminate active processes due to unstable operation of operating system, you may carry out forced termination of each process. However, this will cause damage in management information files or possibility of non-release of resources as well as remaining objects in the operating system. Therefore, you should avoid forced termination.

How to forcibly terminate processes using the Process Controller on the Management screen is explained below:

- (1) Select [Start] > [All Programs] > [HULFT Family] and click [HULFT Management screen] to be forcibly terminated found in the menu, to start HULFT Management screen.
- (2) Start the Process Controller by selecting the [Tool] > [Process Controller] on HULFT Management screen.

The following control window will be displayed.



The green color of the signal indicates that the startup is in progress, yellow indicates that the termination is in progress, and red indicates that the process has been stopped, respectively.

- (3) When you intend to exit from a process, click the [Kill Task] of the process. The exit from the process is carried out and the signal turns to yellow. When termination is completed, the signal turns to red.

[Note] When you use the Process Controller, invoke it on the Management screen activated by administrative privilege.

5.4 Confirmation of HULFT Stopping/Termination

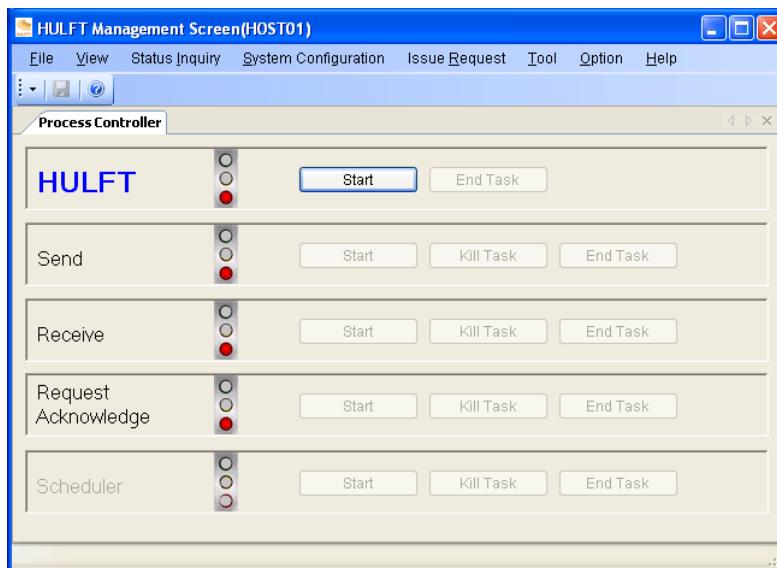
This section explains how to confirm that the service or each process of HULFT has been stopped or terminated successfully. To confirm the state, there are two methods, which are explained in the following subsection.

5.4.1 Confirmation of HULFT Stopping/Termination Using HULFT Management Screen

To confirm whether you have stopped or exited from HULFT Service and each process by using Process Controller of the Management screen;

- (1) Select [Start] > [All Programs] > [HULFT Family] and click [HULFT Management screen] which you would like to confirm stopping or termination found in the menu, to start HULFT Management screen.
- (2) Start the Process Controller by selecting the [Tool] > [Process Controller] on HULFT Management screen.

The following control window will be displayed.



Check the buttons and signals of the Service and processes. The green color of the signal indicates that the startup is in progress, yellow indicates that the termination is in progress, and red indicates that the process has been stopped, respectively. Confirm that the signal of HULFT has turned to red.

[Note] When you use the Process Controller, invoke it on the Management screen activated by administrative privilege.

5.4.2 Confirmation of HULFT Stopping/Termination Using Windows Task Manager

To confirm whether you have topped or exited from HULFT Service and each process by using the list of Task Manager of the operating system;

- (1) Open Windows Task Manager.
- (2) Select the Process tab. You can confirm the termination of HULFT Service by verifying the absence of image names in the process list. The image names are described in the table shown below:

Table 5.1 List of Image Name

| Process Name | Image Name |
|-----------------------------|-------------|
| HULFT Service | hulsrcv.exe |
| Send Process | hulstd.exe |
| Receive Process | hulrcv.exe |
| Request Acknowledge Process | hulobs.exe |

HULFT

~~~~~Memo~~~~~

# **Chapter 6**

## **Backup**

This chapter describes how to make a backup of HULFT.

## 6.1 Backup Method

You can create a backup of HULFT by complying with the procedure shown below. We recommend that the user who installed HULFT or a system administrator carry out the operations below. In this manual, we assume that HULPATH is set to 'etc.' If a different HULPATH is used in your operation, use your own HULPATH.

- a) Move to 'etc.', which is the HULPATH environment
- b) Verify that the current location is HULPATH environment

HULPATH is set to the following folder:

- HULFT for WindowsNT/Windows Ver.5, Ver.6: %windir%\hulft.ini
- HULFT7e for Windows: HULFT installation folder\hulft.ini

Confirm that above folder is set as HULPATH.

- c) Create a backup  
Copy all the files under the HULPATH environment to any folder.
- d) Verify that the backup is created.

**[Note]      Regarding the files which are created by users, refer to *Administration Manual* and create backup or restore as needed.**

The backup work is now completed.

## **Chapter 7**

# **Switchover from Trial Version to Product Version**

This chapter describes the switchover method from the Trial version  
to the Product version of HULFT.

This chapter describes the method to switch over from the Trial version of HULFT to the Product version, while taking over the existing environment in use.

The points to be noted in terms of switchover are as follows:

- Terminate HULFT before commencing the operation.
- Create a backup of HULFT before starting the work.
- Confirm that the corrections are added to the Request Acknowledge Definition file.
- To switch over to the Product version, the version, level, and revision numbers of the target Product version should be consistent with those of the Trial version, respectively.

## 7.1 Work before Switchover

### (1) Termination of HULFT

You should terminate HULFT during the switchover work.

For the method to terminate, refer to "5.1 Termination of HULFT."

The switchover work may not be executed properly if HULFT is in active state.

### (2) Backup of HULFT Trial Version Data

You should create a backup of HULFT Trial version data. For details on the method to backup, refer to "Chapter 6 Backup."

### (3) Confirmation of Request Acknowledge Definition file

The contents of the file should be corrected manually if corrections are made to the contents of the Request Acknowledge Definition file (service.dat). If required, confirm the contents of the Request Acknowledge Definition file (service.dat) which exists in the HULPATH folder and take a duplicate.

## 7.2 Switchover Work

### (1) Uninstallation of Trial Version

Refer to "Appendix 1 HULFT Uninstallation Method" to uninstall HULFT Trial version. You should delete HULFT from the Services before you carry out the uninstallation of HULFT.

### (2) Installation of Product Version

Refer to "Chapter 2 Installation Method" to install HULFT Product version.

**[Note]      You should obtain the product key again to set up HULFT once more, when you switchover HULFT from the Trial version to the Product version.**

### (3) Restoration of Backup Data

From the files you backed up in "7.1 Work before Switchover (2)," identify the files to be restored by referring to "Appendix 2 Files to be Restored from Backup," and place them back to HULPATH, HULPATH\mail, HULPATH\gtf, HULPATH\xml, or other specified folders.

Besides, if the Request Acknowledge Definition file has been changed in the Trial version, correct the file according to the duplicate you took in "7.1 Work before Switchover (3)."

**[Note]      Depending on product types, some files may not exist.**

The switchover work is now completed.

## **Chapter 8**

# **Version Upgrade Procedure**

This chapter describes the Version Upgrade of HULFT.

## 8.1 Work before Version Upgrade

### (1) Matters to be Confirmed before Version Upgrade

Because the upgrading procedure differs depending on the version of HULFT for Windows you use, you should confirm the current version prior to carry out version upgrade.

The points to be noted for version upgrade are as follows:

- Note that HULFT clears the Send Control file and the Resend Queue file.
- Terminate HULFT before you start the work.
- Create a backup of HULFT before you start the work.

### (2) Exit from HULFT

Terminate HULFT while version upgrade operation is carried out.

For the method to terminate, refer to "5.1 Termination of HULFT."

Upgrade may not be completed successfully if HULFT is running.

### (3) Creation of HULFT Data Backup

Create the backup of HULFT data.

For the details on the method to create the backup, refer to "Chapter 6 Backup."

[Remarks] The installer backs up HULFT data automatically when HULPATH exists.  
However, we recommended you back up the data manually.



## 8.2 Version Upgrade Work

The procedure of version upgrade is described below. Comply with the procedure and carry out version upgrade.

### 8.2.1 Installation of New Version

Refer to "Chapter 2 Installation Method" and install the new version of HULFT.

The management information is converted automatically upon the installation. However, if HULPATH of lower version does not exist, the conversion of management information is not carried out automatically upon the installation of the new version. In such cases, refer to "Section 8.3 Manual Conversion of Management Information" and convert the management information manually.

HULPATH is set to the following locations

- HULFT for WindowsNT/Windows Ver.5, Ver.6: %windir%\hulft.ini
- HULFT7e for Windows: HULFT installation folder\hulft.ini

[Remarks] During version upgrade, the icon of lower version remains on [Start] menu. This icon needs to be deleted manually.

### 8.2.2 Modification for User Application

As for hulapi.dll of HULFT7, the stored location is different from that of HULFT Ver.6 or lower.

When you use the user application of HULFT Ver.6 or lower, either of the following measure is required:

- Load hulft.dll in full path first, then correct the user application so that it loads hulapi.dll in full path.
- Set installation folder in the path of environment variable before you execute the user application.

[Remarks] In 64-bit environment, the file names are changed from hulft.dll to hulft64.dll and from hulapi.dll to hulapi64.dll, respectively.

### 8.2.3 Confirmation after Version Upgrade Work

In order to confirm whether the version upgrade work has been executed correctly, open the Version Information screen of the Management screen and check the version information of HULFT.

Also, check if each of management information and Log files are displayed correctly by using the Management screen. If these are not display correctly, please contact us.

**[Note] The folders of lower version should be deleted manually. Although the information of lower version remains in Add/Remove Programs of Control Panel, deletion of the information on Add/Remove Programs may cause improper operation of the newly installed HULFT.**

The version upgrade work is now completed.

## 8.3 Manual Conversion of Management Information

File conversion processing is required because some of the file formats have been changed in HULFT7.

You can convert the management information by using Command Prompt. Move to the folder in which HULFT is newly installed and execute the Management Information Conversion command.

- Management Information Conversion command

```
hulconv -hulpath path
```

Explanation of parameters

```
-hulpath path
```

Existing management information storage path (Mandatory)

Specify the full path to the location where each management information of the lower version is stored.

**[Note] Before executing the Management Information Conversion command, store the backup of files and folders under HULPATH that are created in "8.1 Work before Version Upgrade" in any folder.**

## **Chapter 9**

# **Level Upgrade/Revision Upgrade Procedure**

This chapter describes the Level Upgrade and the Revision Upgrade procedure of HULFT.

This chapter describes the method to upgrade HULFT to HULFT of newer level or revision (including the same revision), while taking over the existing environment in use.

Meanwhile, because the procedures of level upgrade and revision upgrade of HULFT are the same, this chapter generically describes the two as 'level upgrade.'

If you upgrade from HULFT lower than Ver.7.0, refer to "Chapter 8 Version Upgrade Procedure."

## 9.1 Work Before Level Upgrade/Revision Upgrade

### (1) Matters to be Confirmed before Level Upgrade

The points to be noted for level upgrade are as follows:

- HULFT clears the Send Control file and the Resend Queue file.
- Terminate HULFT before you start the work.
- Create a backup of HULFT before you start the work.

Meanwhile, read the "Level Upgrade Notification" before you start the upgrade work.

### (2) Termination of HULFT

Terminate HULFT while level upgrade operation is carried out.

For the method to terminate, refer to "Chapter 5 Termination of HULFT."

Level upgrade may not be completed successfully if HULFT is running.

### (3) Creation of HULFT Data Backup

Create the backup of HULFT data.

For the details on the method to create the backup, refer to "Chapter 6 Backup."

[Remarks] The installer backs up HULFT data automatically when HULPATH exists.  
However, we recommend you backup the data manually just in case of any problem.

## **9.2 Level Upgrade/Revision Upgrade Work**

The procedure of level upgrade is described below. Comply with the procedure and carry out level upgrade.

### **9.2.1 Installation of New Level/Revision**

Refer to "Chapter 2 Installation Method" and install the new version of HULFT.

The management information is converted automatically upon the installation. However, if HULPATH of lower level does not exist, the conversion of management information is not carried out automatically upon the installation of the new level. In such cases, management information has to be converted manually. For more details, refer to "9.3 Manual Conversion of Management Information."

### **9.2.2 Confirmation after Level Upgrade/Revision Upgrade Work**

In order to confirm that the level upgrade work has been executed correctly, open the Version Information screen of the Management screen and confirm the version information of HULFT.

Also, check if each of management information and log files are displayed correctly or not using the Management screen. If they are not displayed properly, contact us.

The level upgrade work is now completed.

## 9.3 Manual Conversion of Management Information

You can convert the management information by using Command Prompt. Move to the folder in which HULFT is newly installed and execute the Management Information Conversion command.

- Management Information Conversion command

```
hulconv -hulpath path
```

Explanation of parameters

-hulpath path

Existing management information storage path (Mandatory)

Specify the full path to the location where each management information of the lower level is stored.

**[Note] Before executing the Management Information Conversion command, store the backup of files and folders under HULPATH that are created in "9.1 Work Before Level Upgrade/Revision Upgrade" in any folder.**

# **Appendix 1**

## **HULFT Uninstallation Method**

## HULFT

Carry out uninstallation of HULFT by complying with the procedure given below.

### (1) Termination of HULFT

Stop HULFT.

For the method to terminate HULFT, refer to "Chapter 5 Termination of HULFT."

### (2) Deletion of Service

Delete the service by using the command prompt.

Start Command Prompt, move to the folder in which HULFT is installed, then execute the Service Deletion command.

- Service Deletion command  
`utlservice -m delete`

Explanation of parameters

`-m delete`

Specify deletion (Mandatory)

`delete` : deletion of the Service

**[Note] When you execute utlservice command, execute it on the command prompt activated by administrative privilege.**

### (3) Uninstallation of HULFT

To uninstall HULFT;

select [Start] > [Control Panel] > [Add/Remove Applications], [Add/Remove Programs], or [Programs and Features]. Only selected HULFT is uninstalled.

Upon starting, uninstaller deletes only the installed file based on the information at the time of HULFT installation. Comply with the instructions of the uninstaller.

**[Note] The uninstaller program does not delete the files created at the time of HULFT execution. Therefore, the uninstaller may fail to delete all the folders. In this case, delete each folder manually after the uninstallation is completed.**

### (4) Restarting

Reboot the machine after HULFT installation is finished.

The uninstallation work is now completed.



## **Appendix 2**

### **Files to be Restored from Backup**

This chapter explains about the files to be restored from backup.

Among the backup files, place the files described in the following tables back to HULPATH, HULPATH\mail, HULPATH\gtf, HULPATH\xml, HULPATH\opl, and other specified folders.

Further, if the Request Acknowledge Definition file has been changed, correct the file back to the original.

**[Note] Some files do not exist depending on product types.**

Table App 2.1 List of Files to be Restored from Backup—1

| Name                                                    | Path*        | Main File Name                                           | Sub File Name                                                 |
|---------------------------------------------------------|--------------|----------------------------------------------------------|---------------------------------------------------------------|
| <b>Management Information</b>                           |              |                                                          |                                                               |
| System Environment Settings File                        | HULPATH      | hulenv.cnf                                               | hulenv.bkup.cnf                                               |
| Request Acknowledge Definition File                     | HULPATH      | service.dat                                              | service.bkup.dat                                              |
| Account File                                            | HULPATH      | psaccount.dat                                            | psaccount.bkup.dat                                            |
| Mail Environment Settings File                          | HULPATH\mail | Sendmail.ini                                             | Sendmail.bkup.ini                                             |
| Send Management Information File                        | HULPATH      | hulsnddb.dat                                             | hulsnddb.bkup.dat                                             |
|                                                         | HULPATH      | hulsnddb.idx                                             | hulsnddb.bkup.idx                                             |
| Receive Management Information File                     | HULPATH      | hulrcvdb.dat                                             | hulrcvdb.bkup.dat                                             |
|                                                         | HULPATH      | hulrcvdb.idx                                             | hulrcvdb.bkup.idx                                             |
| Host Information File                                   | HULPATH      | hulhstdb.dat                                             | hulhstdb.bkup.dat                                             |
|                                                         | HULPATH      | hulhstdb.idx                                             | hulhstdb.bkup.idx                                             |
| Transfer Group Information File                         | HULPATH      | hulrhtdb.dat                                             | hulrhtdb.bkup.dat                                             |
|                                                         | HULPATH      | hulrhtdb.idx                                             | hulrhtdb.bkup.idx                                             |
| Job Information File                                    | HULPATH      | hulexedb.dat                                             | hulexedb.bkup.dat                                             |
|                                                         | HULPATH      | hulexedb.idx                                             | hulexedb.bkup.idx                                             |
| Format Information File                                 | HULPATH      | hulfmtdb.dat                                             | hulfmtdb.bkup.dat                                             |
|                                                         | HULPATH      | hulfmtdb.idx                                             | hulfmtdb.bkup.idx                                             |
|                                                         | HULPATH      | FormatID.fmt                                             | FormatID.bkup.fmt                                             |
| Multi Format Information File                           | HULPATH      | hulmfmtdb.dat                                            | hulmfmtdb.bkup.dat                                            |
|                                                         | HULPATH      | hulmfmtdb.idx                                            | hulmfmtdb.bkup.idx                                            |
| CSV Environment Settings File                           | HULPATH      | hulcsv.inf                                               | hulcsv.bkup.inf                                               |
| Password Management File                                | HULPATH      | huladmin.dat                                             | huladmin.bkup.dat                                             |
| Mail Interface Information File                         | HULPATH\mail | Sendmail.lst                                             | Sendmail.bkup.lst                                             |
|                                                         | HULPATH\mail | MailID.mal                                               | MailID.bkup.mal                                               |
| Addressbook File                                        | HULPATH\mail | Sendmail.adr                                             | Sendmail.bkup.adr                                             |
| XML Environment Settings File                           | HULPATH\xml  | <host name>.<format segment field>.<format ID field>.inf | <host name>.<format segment field>.<format ID field>.bkup.inf |
| <b>Operation Logs</b>                                   |              |                                                          |                                                               |
| File Access Log File                                    | HULPATH\opl  | huloplfile.csv                                           | huloplfile.bkup.csv                                           |
| Command Execution Log File                              | HULPATH\opl  | huloplcmd.csv                                            | huloplcmd.bkup.csv                                            |
| File Access Log Switch Generation Management File       | HULPATH\opl  | huloplfile.info                                          | huloplfile.bkup.info                                          |
| Command Execution Log Switch Generation Management File | HULPATH\opl  | huloplcmd.info                                           | huloplcmd.bkup.info                                           |
| <b>Generation File</b>                                  |              |                                                          |                                                               |
| Generation File Information File                        | HULPATH      | <file ID>.info                                           | <file ID>.bkup.info                                           |

Table App 2.2 List of Files to Be Restored from Backup—2

| Name                                          | Path*     | Main File Name                       | Sub File Name                                         |
|-----------------------------------------------|-----------|--------------------------------------|-------------------------------------------------------|
| <b>Logs</b>                                   |           |                                      |                                                       |
| Send Log                                      | HULPATH   | hulsndlg.dat                         | hulsndlg.bkup.dat                                     |
| Send Log (switch)                             | HULPATH   | hulsndlg.sw.dat                      | hulsndlg.sw.bkup.dat                                  |
| Post-send Job Execution Log                   | HULPATH   | hulexlg.dat                          | hulexlg.bkup.dat                                      |
| Post-send Job Execution Log (switch)          | HULPATH   | hulexlg.sw.dat                       | hulexlg.sw.bkup.dat                                   |
| Receive Log                                   | HULPATH   | hulrcvlg.dat                         | hulrcvlg.bkup.dat                                     |
| Receive Log (switch)                          | HULPATH   | hulrcvlg.sw.dat                      | hulrcvlg.sw.bkup.dat                                  |
| Post-receive Job Execution Log                | HULPATH   | hulexlgr.dat                         | hulexlgr.bkup.dat                                     |
| Post-receive Job Execution Log (switch)       | HULPATH   | hulexlgr.sw.dat                      | hulexlgr.sw.bkup.dat                                  |
| Request Acknowledge Log                       | HULPATH   | hulobslg.dat                         | hulobslg.bkup.dat                                     |
| Request Acknowledge Log (switch)              | HULPATH   | hulobslg.sw.dat                      | hulobslg.sw.bkup.dat                                  |
| Job Notification Log (hulsndrc.dat)           | Not fixed | Not Fixed<br>(default: hulsndrc.dat) | <main file name>.bkup<br>(default: hulsndrc.dat.bkup) |
| hulrjob Execution Log (joblog.dat) for Server | Not fixed | Not Fixed<br>(default: joblog.dat)   | <main file name>.bkup<br>(default: joblog.dat.bkup)   |
| utlrjob Execution Log (joblog.dat) for Client | Not fixed | Not Fixed                            | <main file name>.bkup                                 |
| utlalert Execution Log                        | HULPATH   | Not Fixed                            | <main file name>.bkup                                 |
| <b>Receive Information</b>                    |           |                                      |                                                       |
| Multiple Receive Information File             | HULPATH   | FileID.str                           | FileID.bkup.str                                       |

Table App 2.3 List of Files to Be Restored from Backup—3

| Name                                       | Path*       | Main File Name | Sub File Name   |
|--------------------------------------------|-------------|----------------|-----------------|
| <b>External Character File</b>             |             |                |                 |
| SJIS → IBM                                 | HULPATH\gtf | gtstoi.xtd     | gtstoi.bkup.xtd |
| SJIS → KEIS                                | HULPATH\gtf | gtstok.xtd     | gtstok.bkup.xtd |
| SJIS → JEF                                 | HULPATH\gtf | gtstoj.xtd     | gtstoj.bkup.xtd |
| SJIS → EUC                                 | HULPATH\gtf | gtstoe.xtd     | gtstoe.bkup.xtd |
| SJIS → NEC                                 | HULPATH\gtf | gtston.xtd     | gtston.bkup.xtd |
| SJIS → UTF-8                               | HULPATH\gtf | gtsto8.xtd     | gtsto8.bkup.xtd |
| KEIS → SJIS                                | HULPATH\gtf | gktos.xtd      | gktos.bkup.xtd  |
| EUC → SJIS                                 | HULPATH\gtf | gtetos.xtd     | gtetos.bkup.xtd |
| IBM → SJIS                                 | HULPATH\gtf | gtitos.xtd     | gtitos.bkup.xtd |
| JEF → SJIS                                 | HULPATH\gtf | gtjtis.xtd     | gtjtis.bkup.xtd |
| NEC → SJIS                                 | HULPATH\gtf | gtntos.xtd     | gtntos.bkup.xtd |
| UTF-8 → SJIS                               | HULPATH\gtf | gt8tos.xtd     | gt8tos.bkup.xtd |
| <b>EBCDIC Code Set Conversion Template</b> |             |                |                 |
| EBCDIC User Table 1                        | HULPATH     | user1.ucf      | user1.bkup.ucf  |
| EBCDIC User Table 2                        | HULPATH     | user2.ucf      | user2.bkup.ucf  |
| EBCDIC User Table 3                        | HULPATH     | user3.ucf      | user3.bkup.ucf  |

**[Note]** Refer to *Administration Manual* for any files created optionally and carry out backup and restore operations where necessary.

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~~~~~Memo~~~~~

HULFT7e Windows

Installation Manual

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SAISON INFORMATION SYSTEMS CO., LTD.



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