Noritsu Hot Folder

Programmer's Guide

The Noritsu Hot Folder is a software application that allows printing to QSS-28 series digital printers (and above) from networked computers using the Noritsu NetOrder API. It is designed for high production labs that do not wish to allocate resources in programming the NetOrder API. Because the Hot Folder is script driven, programming is accomplished without the need for extensive software development.

It is your responsibility to develop the necessary scripts to drive the Noritsu Hot Folder application. the function of this guide is to give you the necessary information on what needs to be included in the script, not how to create the script.

For Software Version 1.19
January 16, 2004

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Prerequisites

Server

The Noritsu Hot Folder application requires a server to interface between the Noritsu Printer Control Unit(s) and a customer network. Here's an example using a Noritsu QSS-31 series system.
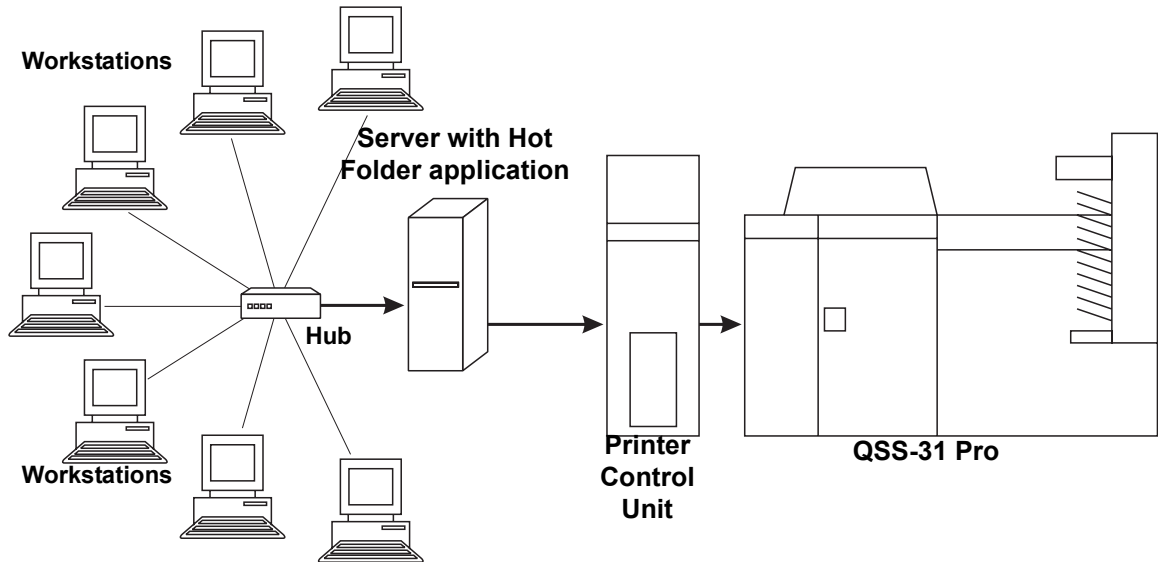

Figure 1: Typical Network to QSS interface

Server Specifications

Specification	Requirement
Operating System (OS)	Windows 2000 or Windows XP – **No other OS is supported**
CPU	Minimum 1.0 Ghz
RAM	Minimum 512 MB
Hard Drive	Minimum 30 GB
Network Communication	100BaseT Ethernet
Misc	CD ROM

Note: At least ONE printer, other than a QSS printer, must be installed on the server before installing the Noritsu Hot Folder application. The printer does not need to be physically present. Failure to have a printer listed will cause the Noritsu Hot Folder to malfunction.

Image Specifications

While the Noritsu Hot Folder application can handle images of any size up to the limitations of the RAM and free HDD space on the server, each QSS printer has a maximum size limitations. Sending an image file to a QSS printer that exceeds the printers capacity will cause errors.

Note:	*Some QSS printers have additional restrictions. See "Restrictions" on page 24.*

Image size in total pixels (Total pixels = Horizontal pixels times Vertical pixels) cannot exceed the maximum pixel count the printer is capable of handling.

Printer	128 MB	256 MB	512 MB
QSS-28xx	7,600,000	37,000,000	N/A
QSS-30xx	7,600,000	25,000,000	N/A
QSS-29xx	7,600,000	37,000,000	Does not increase image size capacity
QSS-31xx	7,600,000	37,000,000	

Maximum Pixel Count for RAM Installed on QSS Printer Control Unit

In addition to the total number of pixels per image, the aspect ratio in pixels of any image must fall within the guidelines for the specific printer.

Printer	128 MB	256 MB	512 MB
QSS-28xx	3800 x 2000	7400 x 5000	N/A
QSS-30xx	3800 x 2000	5000 x 5000	N/A
QSS-29xx	3800 x 2000	7400 x 5000	Does not increase image size capacity
QSS-31xx	3800 x 2000	7400 x 5000	
dDP-411	6480 x 4320 (RAM size is fixed)		

Maximum Image Size in Pixels for RAM Installed on QSS Printer Control Unit

Software Installation and Configuration

> *Note:* *At least ONE printer, other than a QSS printer, must be installed on the server before installing the Noritsu Hot Folder application. The printer does not need to be physically present. Failure to have a printer listed will cause the Noritsu Hot Folder to malfunction.*

Software installation is accomplished by running Setup on the CD and following the screen prompts. We suggest that you accept the default directory for the install. Once the software is installed, you need to configure the application.
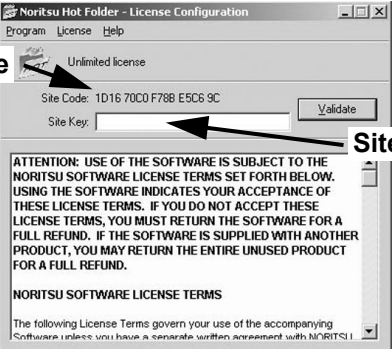
Noritsu Hot Folder License Authorization

When you start Noritsu Hot Folder, a *splash screen* opens then closes after a few seconds. To run the licensing portion of the application, press **Enter** (or click on the splash screen) while it is displayed.

> *Note:* *If you remove and re-install Noritsu Hot Folder during the trial period you will loose any remaining days for that trail period.*

Noritsu Hot Folder must have an authorized licensed with Noritsu America Corporation in order to work past the trial period.

When you are ready to purchase the application, contact the Noritsu America Corporation Hotline then start Noritsu Hot Folder. When you see the message above, press the **ENTER** key and read the ***Site Code*** to the technician. The technician will generate your ***Site Key*** and read it back to you. Enter the Site Key where indicated on the screen making sure to observe both case and spaces then click on the **Validate** button.
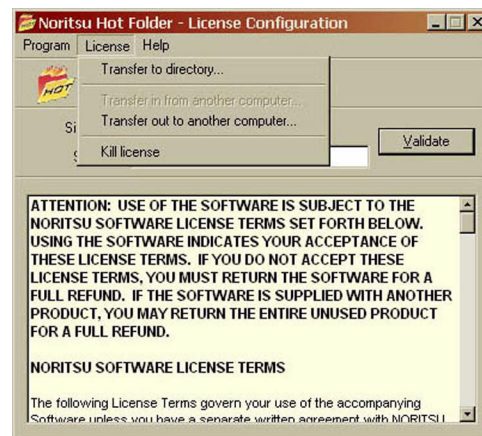
Managing your license – Software Update

Download updates from Noritsu.com – DO NOT delete, remove or uninstall your current version when installing a NHF update. If you uninstall your current version before installing an update, you will loose your active license and will need to contact the Noritsu Technical Hotline for a new license activation.

1. Install the NHF software update by running Setup and following the screen prompts. Accept the default directory for the install. Updates automatically install in a folder different from your current version.

2. Start the OLD version of NHF and press **Enter** (or left-click) when you see the splash screen to open the **License Configuration** screen.

3. Select **License** then select **Transfer to directory…**

4. Navigate to the directory where the NHF update is installed, select NHF.exe then click **Open**.

Managing your license– License Transfer to another computer

Note: *The computer that currently has the NHF license is called the source computer, the computer that you want to move the license to is called the destination computer.*

1. Install NHF on the destination computer.

2. Start NHF on the destination computer. Press **Enter** (or left-click) when you see the splash screen to open the **License Configuration** screen.

3. Select **License** then select **Transfer in from another computer…**
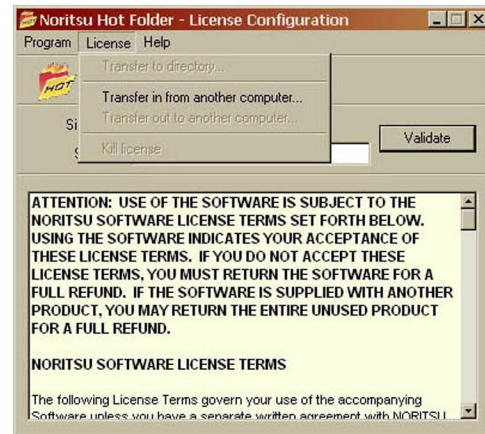
4. Follow the screen prompts and load a floppy into the destination computer.

   Note: *If you are using another media compatible with both the destination and source computer, click* **Browse…** *and navigate to that media.*

5. When you get to the second screen, select **Continue Transfer Later** to save the information to the floppy. Remove the floppy and go to the source computer.

6. Load the floppy into the source computer then start NHF on the source computer. Press **Enter** when you see the splash screen to open the **License Configuration** screen.

7. Select License then select **Transfer out to another computer…**

8. Remove the floppy from the source computer and load it into the destination computer. Start NHF on the destination computer and press **Enter** when you see the splash screen to open the **License Configuration** screen.

9. Select **License** then select **Transfer in from another computer…**
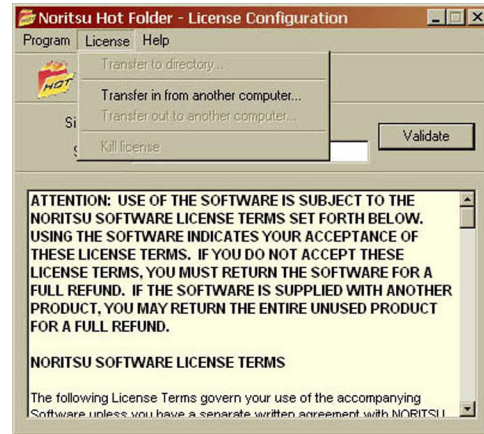
10. Follow the screen prompts and load the floppy into the destination computer.

Note: *If you are using another media compatible with both the destination and source computer, click* **Browse…** *and navigate to the media.*
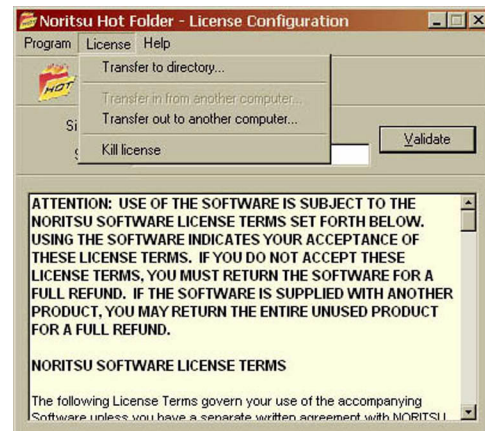

11. When you get to the second screen, select **Next** then follow the screen instruction to complete the license transfer.

Noritsu Hot Folder Configuration

Note: Make sure that your network is up and all QSS printers you will use with Noritsu Hot Folder are on and connected to the network before proceeding

1. Create a **hot folder** on the Server for each QSS printer that will receive images through Noritsu Hot Folder.
   Ex: C:\QSS29

2. Start the Noritsu Hot Folder application.

3. Click on **Tools > Options** and verify that the server card's IP adapter address is present.

*Note: To check the IP address, click the Windows **Start** button, select **Run** then enter **CMD**. In the DOS window enter **ipconfig**. Use the IP address for the adaptor that is connected to the QSS printer.*

4. Click on **File > Add Hot Folder** to set up a tab (page) for the printer.

Note: If this is the first printer you are setting up, you can skip step 4.

5. Click the Browse button next to the **IP Address** text box, select the QSS printer from the **Printer IP Address** list and click **OK**. When you click OK, the printer tab on the main screen shows the name of the printer.
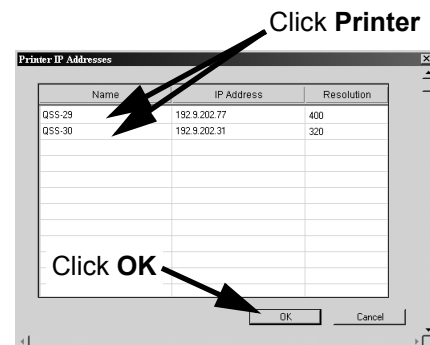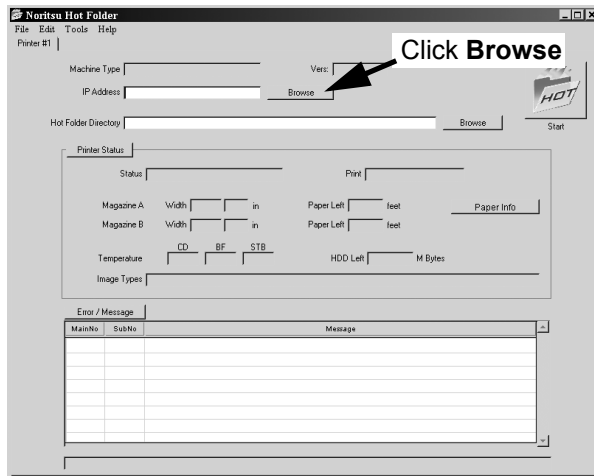
6. Click the Browse button next to the **Hot Folder Directory** text box, select the QSS printer folder in the *Browse for a Folder* window and click *OK*. Normally the folder you select is the same folder you created in step 1.
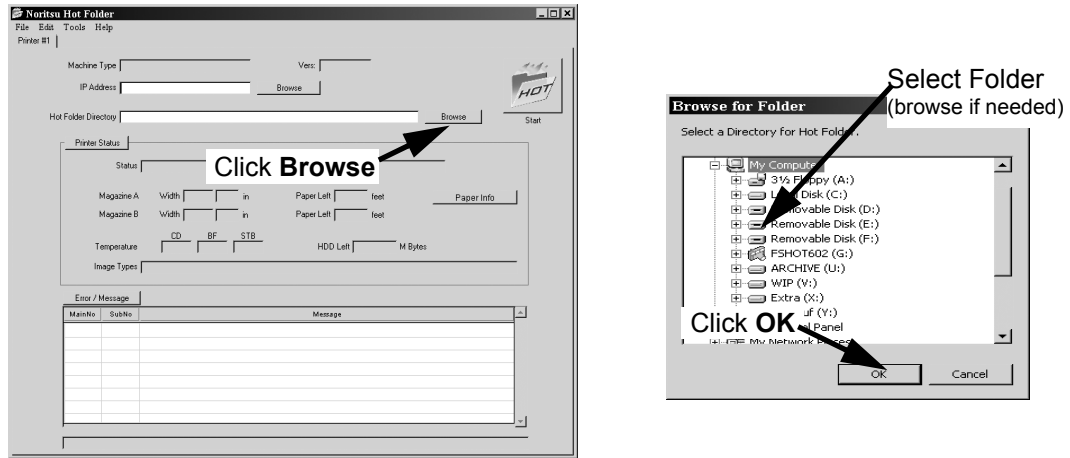
Repeat from step 4 for additional QSS printers

Software Operation

The following steps describe what needs to be done for the Noritsu Hot Folder application to operate.

Note: *Items 1 through 3 should be driven by a script or program. If you have more than one QSS printer listed in the Noritsu Hot Folder application, the sub folder listed in step 1 below needs to be created in the appropriate Noritsu Hot Folder.*
Remember, each hot folder is specific to a particular QSS printer.

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1. Create a sub folder under the hot folder with the extension **.n** (n = not ready for processing).
   Ex: 1234.n

2. Create a text file named **command.nhf** (nhf = Noritsu Hot Folder) and place it plus the images it references into the sub folder created in step 1. see "Command File" on page 13.

3. When step 2 completes, change the extension of the sub folder to **.r** (r = ready for processing).
   Ex: 1234.r

Note: *The following items are automatically handled by the Noritsu Hot Folder application*

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4. The Noritsu Hot Folder application watches for .r folders in its registered hot folders. When it sees a .r folder, it automatically starts processing the command file and sends the data to the appropriate QSS printer.

5. After the data is sent to the QSS printer and the Noritsu Hot Folder application completes the command file, the extension of the sub folder is changed to **.q** (q = queued in printer).
   Ex: 1234.q

<u>Reference</u>

Command File

The command file is a plain-text files that contain information about the images you want to send to the Noritsu printer. The command file structure follows the standard Windows **.ini** format and contains two sections. Both sections begin with a section name enclosed in brackets [section name] followed by keyname entries.

Note: *The command file **MUST** end with a blank line.*

The command file is normally created at the originating workstation and sent to the appropriate hot folder on the server. You can include comments in the file by preceding comments with a semicolon (**;**).

Note: *Each image requires its own [Frame] section in the command file. For example, if a work order contains 4 images, there would be four [Frame] entries.*

The format of the file is:

```
[Order]
   keyname=value
   keyname=value
   keyname=value

[Frame]
   keyname=value
   keyname=value
   keyname=value

[Frame]
   keyname=value
   keyname=value
   keyname=value
(blank line)
```

BackPrint keynames (shown in the Command File and Image Setting tables below) can contain *codes* to print specific information. For specific information on the codes and what they print on the back of the prints, see "Back Print Codes" on page 17.

Command File Sections

Order Setting – Standard ini section heading. Only one allowed per command file.

[Order] Order Setting	Description
ResponseFilePath=	Location of the folder where a generated **response.log** will be saved. If there is no entry the file will be created in the current folder.

JobID=	Identification number for the order (order number). Required
	Generates an error if not present, duplicates another number or is outside the numerical range for the target printer:
	  0 ~ 65535 for printers using NetOrder v1.1.0 or v1.0.3
	  0 ~ 18446744073709551615 for printers using NetOrder v1.0.5
	
	Note: *The JobID can only contain numbers - alpha and other non-numeric characters will cause errors.*

PaperFittingFlag=	Sizes the image to the paper size. Choices are Crop, Shrink or Real (default).
CmsFlag=	When ON, the printer's color management profile is applied to images. When OFF, the printer's color management profile is not applied images.
BackPrint1=	Backside data to print on the first line for each print in the order. Special codes can be included in this line. Uses printer data if not defined.
BackPrint2=	Backside data to print on the second line for each print in the order. Special codes can be included in this line. Uses printer data if not defined.

Image Setting – Standard ini section heading. One [Frame] entry is required for each image file. Multiple entries are allowed in each command file.

[Frame] Image Setting	Description
*FrameNum=	The first image listed in the command.nhf must be FrameNum= 1. Any following FrameNum= entries should be sequentially numbered. This entry is required. If not present or a FrameNum= entry number is duplicated, Noritsu Hot Folder generates an error.
FileName=	Location of the image and its folder. Generates an error if not present.
ImageFormat=	The format (ie. jpeg, bmp, tiff, etc.) of the image. Generates an error if not present or when the image is not a type supported by the printer.
RepeatNum=	Number of prints from this image. Range is 0 ~ 999. Defaults to 1 if not defined. A value of 0 means do not print.
BackPrint1=	Overrides corresponding setting in the [Order] section. Backside data to print on the first line for each print in the order. Special codes can be included in this line. Uses printer data if not defined.
BackPrint2=	Overrides corresponding setting in the [Order] section. Backside data to print on the second line for each print in the order. Special codes can be included in this line. Uses printer data if not defined.
†PaperWidth=	Width of paper to print onto in millimeters. Generates an error if not present or out of an acceptable range.
‡PaperLength=	Advance length of paper to print onto in millimeters and can include tenths of millimeters. For example PaperLength=100.5 means 100.5 millimeters. Generates an error if not present or out of an acceptable range.
**Surface=	Code to represent paper surface to print onto. Generates an error if not present or out of an acceptable range.

   * Maximum of 999 images for NetOrder v.1.0.5 or below. Maximum of 9999 images for NetOrder v1.1.0 or higher.

   † Paper width must be a width supported by the printer and must be the same for all images listed in the command.nhf when using NetOrder v.1.0.3. When using NetOrder v.1.0.5 or above, two paper widths can be included.

   ‡ Paper length must be a length supported by the printer. No more than 3 distinct paper lengths can be included in any one command.nhf when using NetOrder v.1.0.3.

   ** When generating a file for the dDP-411, this value must be set to 1 since the dDP-411 does not utilize different paper surfaces.

Note: The NetOrder version for each printer is shown on its tab in the ver. text box.

Sample command.nhf

Sample File	Description
[Order]	Section Name
JobID=23	Order identifier
PaperFittingFlag=Real	Real uses image size
CmsFlag=Off	Does not use file CMS
BackPrint1=[F]	[F] prints file name
BackPrint2=Copyright [C] [YYYY] Noritsu Photo Lab	[C] = ©, [YYYY] = year + text
	Blank line between sections
[Frame]	Section Name
FrameNum=1	Frame Number
FileName=photo1001.jpg	Image to Print
ImageFormat=Jpeg	Image Format
;BackPrint1=Test	; Makes a Comment
BackPrint2=Copyright [C] [YYYY] John Smith	Overrides [Order] BP2
PaperWidth=254	Print on 254mm Wide Paper
PaperLength=203	Print at 203mm Length
Surface=1	Use Paper Surface 1
	Blank line between sections
[Frame]	Section Name
FrameNum=2	Frame Number
FileName=photo1002.tif	Image to Print
ImageFormat=Tiff	Image Format
PaperWidth=89	Print on 89mm Wide Paper
PaperLength=127	Print at 127mm Length
Surface=1	Use Paper Surface 1
	The last line must be blank

Back Print Codes

The back print codes can be included in either section of the command file in the BackPrint keys. Including a code causes the indicated information to be printed on the back of the print.

Code	Printed Information
[C]	Copyright symbol (©)
[R]	Sequential print number for each print within an order.
[F]	Image filename
[P]	Computer name that supplied the image
[U]	User name (login) for the computer that supplied the image.
[YY]	2 digit number for the year the image was printed.
[YYYY]	4 digit number for the year the image was printed.
[M]	Number of the current month without a leading 0
[MM]	Number of the current month with a leading 0
[D]	Date of the current month without a leading 0
[DD]	Date of the current month with a leading 0

Response File

The response file, named ***result.log***, is generated by Noritsu Hot Folder when it finishes processing an order. If no location is specified in the command.nhf, the result.log is placed in the same folder as the command.nhf file giving you results for each QSS printer. The result.log contains the following:

First Line:	OrderNo= # Order Number for the images processed through the command.nhf.
Second Line:	RefID= # Reference Identification for the order.
Next Line(s):	FrameNo: # - Filename - Transmission Status One line for each Image in the order. Contains the Image Frame Number, File Name and the result of the transmission • Success • Partial (success) • Failure
Next Line:	RefID: # - Set Order Status QSS Set Order result that contains the Reference ID and the result of the Set Order
Last Line:	RefID: # - Order State Order state contains the Reference ID and the result of the Get Order State. The get order state is displayed in both numeric value and text description

Note: *When no location is specified in the command.nhf, a result.log is overwritten when an order is sent to the same QSS printer.*
When a common location is specified in the command.nhf, the result.log is overwritten each time an order is sent to any QSS printer.

Sample result.log

This sample result.log includes typical responses for three images:

Sample File	Description
OrderNo= 1	Order Number
RefID=104	Reference ID
FrameNo: 1 - Melissa1-1.jpg - Transmit File Success	Frame (Image) Number - File Name - Result of transmission
FrameNo: 2 - Melissa1-2.jpg - Transmit File Success	
FrameNo: 3 - Melissa1-3.jpg - Transmit File Success	
RefID: 104 - Set Order = Success	Reference ID - Result of order transmission
RefID: 104 - Order State: 2 = Print Queue	Reference ID - Where the order was sent

Menu Structure

File Menu

Selection	Description
Add Hot Folder	Adds a tabbed page to hold information about the Noritsu printer. Up to 4 folders can be added
	Note: Each Noritsu device printing images from Noritsu Hot Folder requires its own folder
Delete Hot Folder	Deletes the selected folder's tab
Exit	Exits the Noritsu Hot Folder application

Edit Menu

Selection	Description
Undo	Returns Noritsu Hot Folder to the previous setting.
Cut	Copies and deletes the selected text
Copy	Copies the selected text
Paste	Pastes cut or copied text into the selected area
Clear	Deletes all text on the current page
Select All	Selects all text on the current page
Show Clipboard	Displays the contents of the Windows clipboard

Tools Menu

Selection	Description
Options	Opens a window where the Noritsu Hot Folder IP address is displayed and can be manually adjusted. Also displayed and changeable are Polling Time Period (same as time-out), Unit (Metric or US. Standard) and displayed language (English or Japanese - for Japanese the OS must have Japanese fonts installed).
Change Tab Name	Change the name on the selected folder's tab

Help Menu

Selection	Description
About Noritsu Hot Folder	Software version number and author

Error Messages

Error messages display on the main screen under the tab for each specific printer's hot folder. When an error occurs, the tab where the problem information can be found includes an asterisk (*****) next to the tab name.
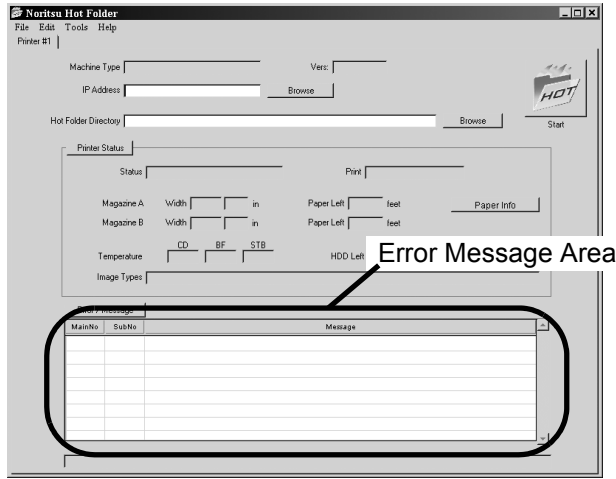
Error Message Area

Error	Message	Corrective Action
2000	Failed to retrieve Error Info messages from the printer.	Make sure the printer is still connected to network.
2001	Failed to retrieve the Error Info message count from the printer.	
2002	Failed to select the index of a specific Error Info message.	
2003	Failed to get the selected Error Info message.	
2010	Failed to retrieve Printer Enum information from the printer.	
2011	Failed to retrieve the Printer Enum count from the printer.	
2012	Failed to select the index of a specific Printer Enum record.	
2013	Failed to get the selected Printer Enum message.	
2020	Failed to Set Frame Params for an order.	
2021	Failed to Transmit Frame Params to printer for an order.	
2022	Failed to Set Order Params for an order.	
2023	Failed to transmit Order Params for an order.	

Error	Message	Corrective Action
2024	Failed to Get Order Status for an order.	Make sure the printer is still connected to network.
2025	Failed to Select Index for orders on the printer.	
2030	Failed to Retrieve Printer State from printer.	
2031	Failed to Get Printer State.	
2032	Failed to Get information on Magazine A.	
2033	Failed to Get information on Magazine B.	
2040	Failed to retrieve Paper Info records from the printer.	
2041	Failed to retrieve the Paper Info record count from the printer.	
2042	Failed to select the index of a specific Paper Info record.	
2043	Failed to get the selected Paper Info record.	
2050	No Command file was found in the Order directory.	A Command file must exist in the Order directory before marking it as Ready.
2051	Failed to get list of docs in Order directory.	Make sure there is a Command file and Images in the Order directory.
2052	The [Order] section was not found in Command file	Make sure the Command file meets the design specifications.
2053	The [Frame] section was not found in Command file	
2060	Failed to retrieve Order State Ex records from the printer.	Make sure the printer is still connected to network.
2061	Failed to retrieve the Order_State_Ex record count from the printer.	
2062	Failed to select the index of a specific Order State Ex record.	
2063	Failed to get the selected Order State Ex record.	
2070	Failed to retrieve the list of orders to monitor for completion.	Please report this error to Noritsu technical support.
2071	Failed to retrieve the Order State for a Ref Id.	Make sure the printer is still connected to network.
2072	Failed to get the path name for an order.	Please report this error to Noritsu technical support.
2073	Failed to mark an order as complete.	
2074	Failed to remove the completed order information from the monitor tables.	
2075	Failed to remove the canceled (or reserved) order information from the monitor tables.	

Error	Message	Corrective Action
2076	Failed to obtain the exit information for a monitor orders completed process.	Please report this error to Noritsu technical support.
2080	Failed to retrieve Order State records from the printer.	Make sure the printer is still connected to network.
2081	Failed to retrieve the Order State record count from the printer.	
2082	Failed to select the index of a specific Order State record.	
2083	Failed to get the selected Order State record.	
2833	OS Error: File directory full	Please report this error to your network administrator.
2834	OS Error: Disk is full	
2835	OS Error: Specified Volume does not exist	
2836	OS Error: Bad Block on Disk	
2837	OS Error: Bad Filename or Volume name	
2838	OS Error: Attempt to write to a file not open	
2839	OS Error: Logical end-of-file reached during read	
2840	OS Error: Attempt to position before start of file	
2841	OS Error: Not enough memory to open new file on disk	
2842	OS Error: Too many files open at same time	
2843	OS Error: File not found	
2844	OS Error: Volume is locked by hardware setting	
2845	OS Error: File is Locked	
2846	OS Error: Volume is locked by an application	
2847	OS Error: Tried access a file that has been deleted	
2848	OS Error: Tried to rename a file with name of deleted file	
2849	OS Error: File already open with Write permission	
2851	OS Error: Invalid document reference number	
2852	OS Error: Internal file manager error	
2853	OS Error: Volume not on line	
2854	OS Error: Attempt to open locked file for writing	
2857	OS Error: Tried to work on non-Windows disk	
2858	OS Error: Tried to work on non-Windows disk	
2860	OS Error: Bad master directory block. Your disk is damaged!	

Error	Message	Corrective Action
2861	OS Error: Read / write permission doesn't allow writing	Please report this error to your network administrator.
2864	OS Error: There is a hardware problem with the disk	
2884	OS Error: There is a hardware problem with the disk	
2920	OS Error: Pathname specifies a non existing directory	
2921	OS Error: An access path could not be created	
2924	OS Error: Tried to access a disconnected shared volume	
2999	A Noritsu Hot Folder application error occurred in method	Please report this error to Noritsu technical support.

<u>Restrictions</u>

dDP-411

1. The dDP-411 does not support paper fitting. This means images are printed at actual size only.

   Example:
   An image 1440 pixels wide (4 inches wide at 360 pixels per inch) is sent to the dDP-411. The Command File specifies that the image should print 5 inches wide on the 5 inch wide paper. However, because the image only prints at actual size, the image prints 4 inches wide on 5 inch wide paper regardless of how paper fitting is specified in the command file (Crop, Shrink or Real).

2. The dDP-411 can switch paper size regardless of the specified paper size in the Command File.

   Example 1:
   An image 2160 pixels wide (6 inches wide at 360 pixels per inch) is sent to the dDP-411 loaded with both 5 and 12 inch paper. The Command File specifies that the image should print on the 5 inch wide paper. However, because the image only prints at actual size and the dDP-411 can switch paper sizes, the image prints 6 inches wide on the 12 inch paper.

   Example 2:
   An image 1440 pixels wide (4 inches wide at 360 pixels per inch) is sent to the dDP-411 loaded with both 5 and 12 inch paper. The Command File specifies that the image should print on the 12 inch wide paper. However, because the image only prints at actual size and the dDP-411 can switch paper sizes, the image prints 4 inches wide on the 5 inch paper.

The following systems have no known restrictions

QSS-28xx Series   **QSS-29xx Series**   **QSS-30xx Series**   **QSS-31xx Series**