QSS Network Service
Debug Tool
Operation Manual

- Version 1.0.0 -

Revision Record

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Version	*Date*	*Description*
1.0.0	May 29, 2002	Newly created

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Preface

This manual describes QSS Network Service Debug Tool software that is the tool intended for debugging of the interface for QSS network service.

Major functionality

- Operating check of the interface
- Load test of QSS network service QSS

Limitations

- Multiple Debug Tool software can run simultaneously on a single machine. (Be sure to start them from different folders.)
- Window size is fixed to 800 x 600.

1. Install Debug Tool software

This chapter explains the installation of the Debug Tool.

1-1 Operating environment

Followings are the minimum requirements for installation of Debug Tool software.
Monitor: Resolution of 1024 x 768
PC: PC/AT compatible machine
CPU: Pentium II 300MHz or compatible processor
Memory: 64 Mbyte
HDD free space: 5 Mbyte
OS: Windows 98/98SE/Me/NT4.0/2000 Professional
LAN card: one that supports the above OS
Protocol: TCP/IP

1-2 Installation procedure

Follow the procedure below in order to install Debug Tool software.

1. Create a folder and name it with alphanumerical value (e.g. “QSS_CLIENT”) in any drive on the PC where the Debug Tool software is to be installed.
2. Place the media that includes Debug Tool software to the corresponding drive.
3. Display the contents of the media by using Explorer or the equivalent.
4. Select all the files in the media and copy them into the folder you have just created (in this case, C:¥QSS_CLIENT).
5. Release the read-only attribute of all the files in the folder you have just copied into, in this case, C:¥QSS_CLIENT.

2. Start up Debug Tool software

Follow the procedure below in order to start Debug Tool software.

1. Display the contents of the folder, by using Explorer or the equivalent, where the Debug Tool software has been installed.
2. Double-click on QSS_CLIENT.exe.
3. Debug Tool will start and the menu screen will be shown.

Proceed to “4. Preparation for debugging the QSS network service”.

3. Close down Debug Tool software

Click “END” in the Debug Tool menu screen so Debug Tool will close.

4. Preparation for running Debug Tool software

1. Make the following settings on QSS in order to validate Net Order mode.
   a. Option Registration
      Register “NMC” as an optional accessory in use.
      2) Go to “F” > “Menu” > “Extension” > “Option Registration” > “Option” tab.
      3) Check “No.” box for “NMC” and then click “YES: OK”.
   a. Operator Selections
      Validate “Net Order” mode.
      1) Go to “F” > “Menu” > “Extension” > “Operator Selection” > “Print Operations” tab.
      2) Choose “Valid” for “Net Order mode” and then click “YES: OK”.
2. Display Net Order screen.
   1) When “Net Order mode” is set to “Valid” in Operator Selections mode, the Net Order icon appears at the left end of the status bar shown in Order screen (M_010000).

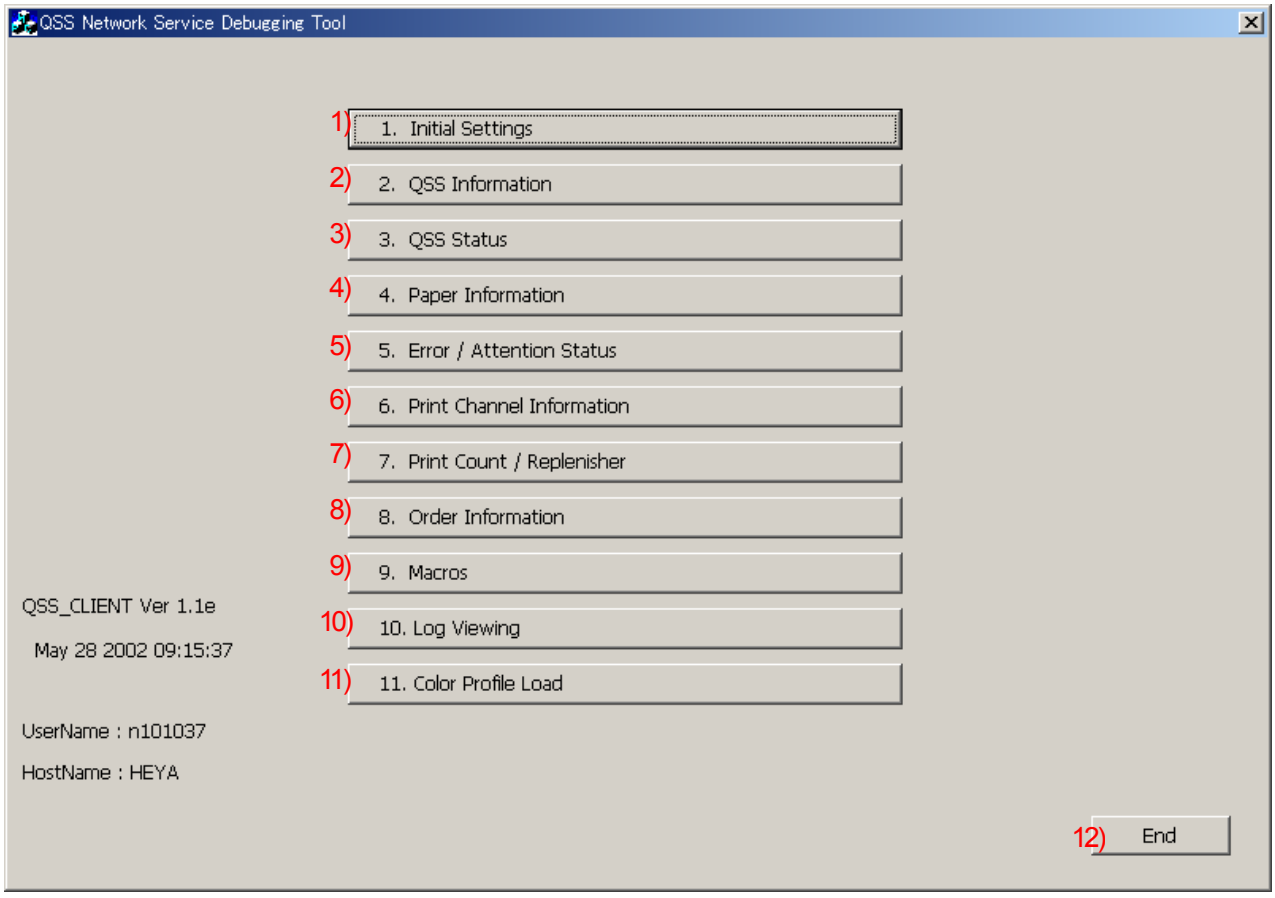
      NOTE: The icon blinks when there is an order that has been accepted but not printed yet.
   2) Clicking the icon will bring up the Net Order screen.
      NOTE:
      - Net Order screen will not be brought up by itself.
      - The icon does not appear on the status bar in the Net Order screen.
      - QSS can accept print data from Client only when the Net Order screen is shown.

In order to utilize Debug Tool, it is required to make initial settings of Debug Tool. Refer to “5-2. Initial Settings”.

5. Functions

5-1 Menu Screen

Description:
Menu Screen allows you to bring up the desirable screen.



Explanation of each button:

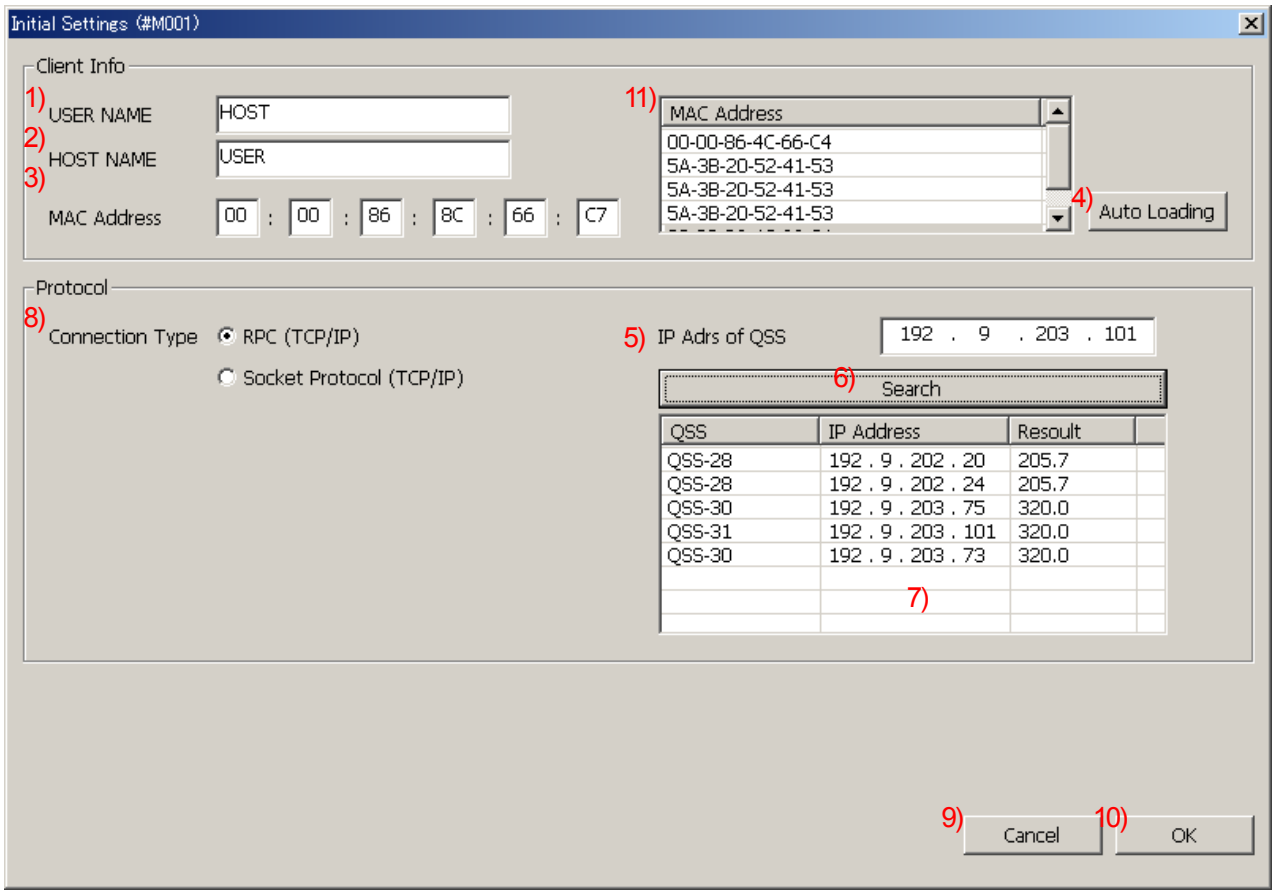
1) Initial Settings
   Clicking this button will proceed to the “Initial Settings” screen that allows you to make initial settings of Debug Tool software.
2) QSS Information
   Clicking this button will proceed to the “QSS Information” screen that allows you to get QSS information.
3) QSS Status
   Clicking this button will proceed to the “QSS Status” screen that allows you to get current status of QSS.
4) Paper Information
   Clicking this button will proceed to the “Paper Information” screen that allows you to get paper information.

5) Error/Attention Status
   Clicking this button will proceed to the “Error/Attention Status” screen that allows you to get error/attention information.
6) Print Channel Information
   Clicking this button will proceed to the “Print Channel Information” screen that allows you to get print channel information.
7) Print Count/Replenisher
   Clicking this button will proceed to the “Print Count/Replenisher” screen that allows you to get information on total number of print/replenisher amount.
8) Order Information
   Clicking this button will proceed to the “Order Information” screen that allows you to get status of and/or to register or cancel order.
9) Macros
   Clicking this button will proceed to the “Macros” screen that allows you to execute macro.
10) Log Viewing
   Clicking this button will proceed to the “Log Viewing” screen that displays log.
11) Color Profile Load
   Clicking this button will proceed to the “Color Profile Load” screen that allows you to get color profile.
12) END
   Clicking this button will close Debug Tool software.

NOTE: It is required to make settings in Initial Settings screen at the first startup of Debug Tool software. Otherwise, you will not be able to select other modes (2-11).

5-2 Initial Settings

Description:
Initial Settings screen allows you to make settings required to start up Debug Tool software.



Explanation of each item:

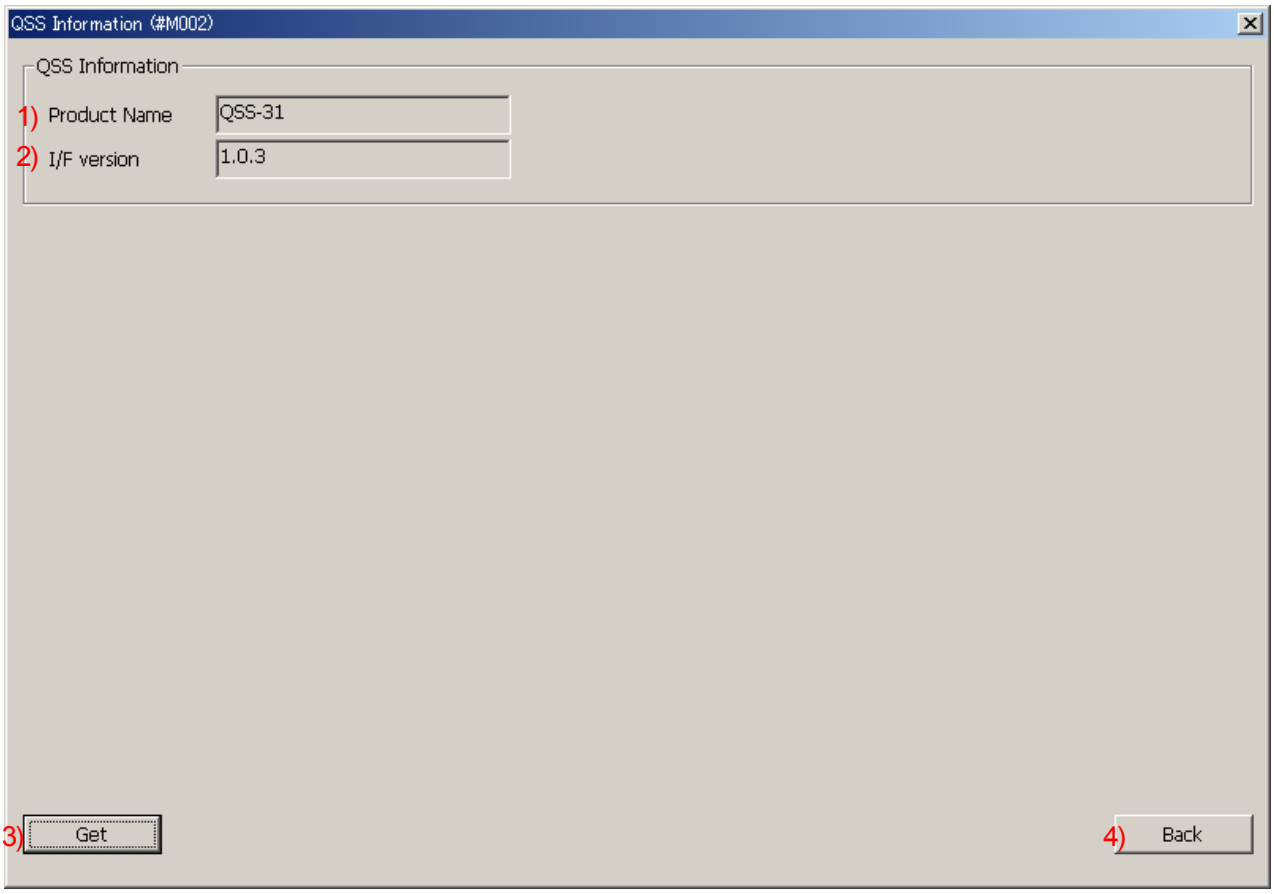
1) USER NAME
   You can enter user name of the OS, or it can be set automatically by clicking “Auto Loading” button. (Enter any name for Win98/98SE/Me.)
2) HOST NAME
   You can enter host name of the machine in use, or it can be set automatically by clicking “Auto Loading” button.
3) MAC Address
   You can enter MAC address of the LAN card in use, or it can be set automatically by clicking “Auto Loading” button.
4) Auto Loading
   Clicking this button will detect the user name, host name and MAC addresses currently used, and show the results in 1), 2), 3) and 11). In case no information is got, nothing will be entered in them.
5) IP Address of QSS
   Specifies the IP address of the QSS you wish to connect.

6) Search
   Clicking this button will show the list in 7) of QSS model(s), IP address(es) and resolution(s) that are available on the network.
7) Search result
   Display the result of Search you have conducted with 6).
8) Connection type
   Communication between QSS and Debug Tool software uses one of the following:
   - RPC (TCP/IP)
   - RPC (Named pipe)
     NOTE: Currently unused.
   - Socket communication (TCP/IP)
     NOTE: Currently under development
9) Cancel
   Clicking this button will cancel all the settings that you have made in this screen but that not yet registered by clicking OK, and bring up the Menu screen.
10) OK
    Clicking this button will register all the settings you have made in this screen and bring up the Menu screen.
11) MAC Address
    MAC Addresses that are acquired by clicking 4) are listed here. When you click a MAC address in the list, it will be reflected in 3).

NOTE: For items 1) – 3) and 5), the values once set are retained even though Debug Tool is closed.

5-3 QSS Information

Description:
QSS Information screen allows you to get information of the connected QSS by using QssGetName function.

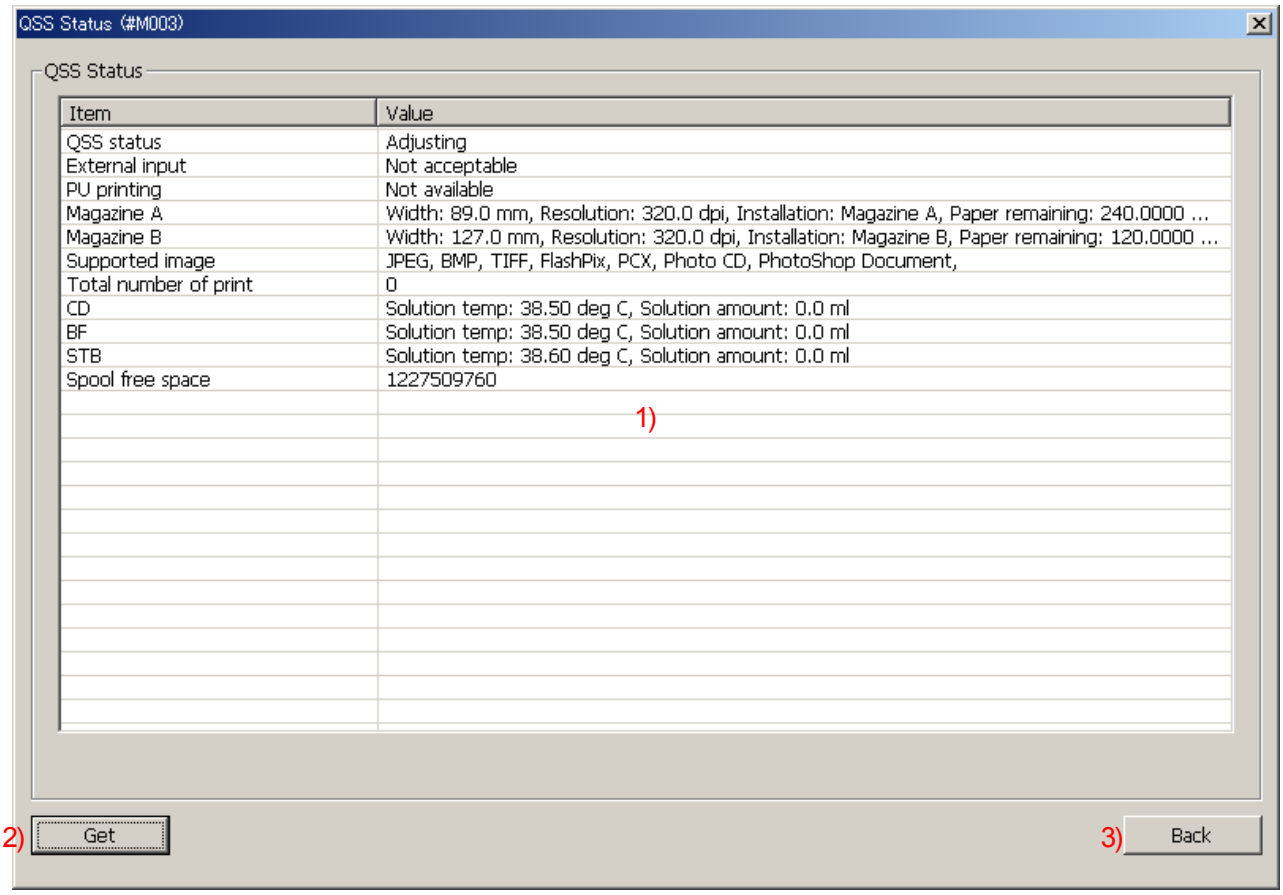


Explanation of each item:

1) Product Name
   Shows the QSS model name of the QSS connected.
2) I/F version
   Shows the version of network interface got from QSS.
3) Get
   Clicking this button will call QssGetName function to get QSS information and show the result in 1) and 2).
4) Back
   Clicking this button will bring up the Menu screen.

5-4 QSS Status

Description:
QSS Information screen allows you to get current status of QSS by using QssGetPrinterState function.



Explanation of each item:

1) QSS status

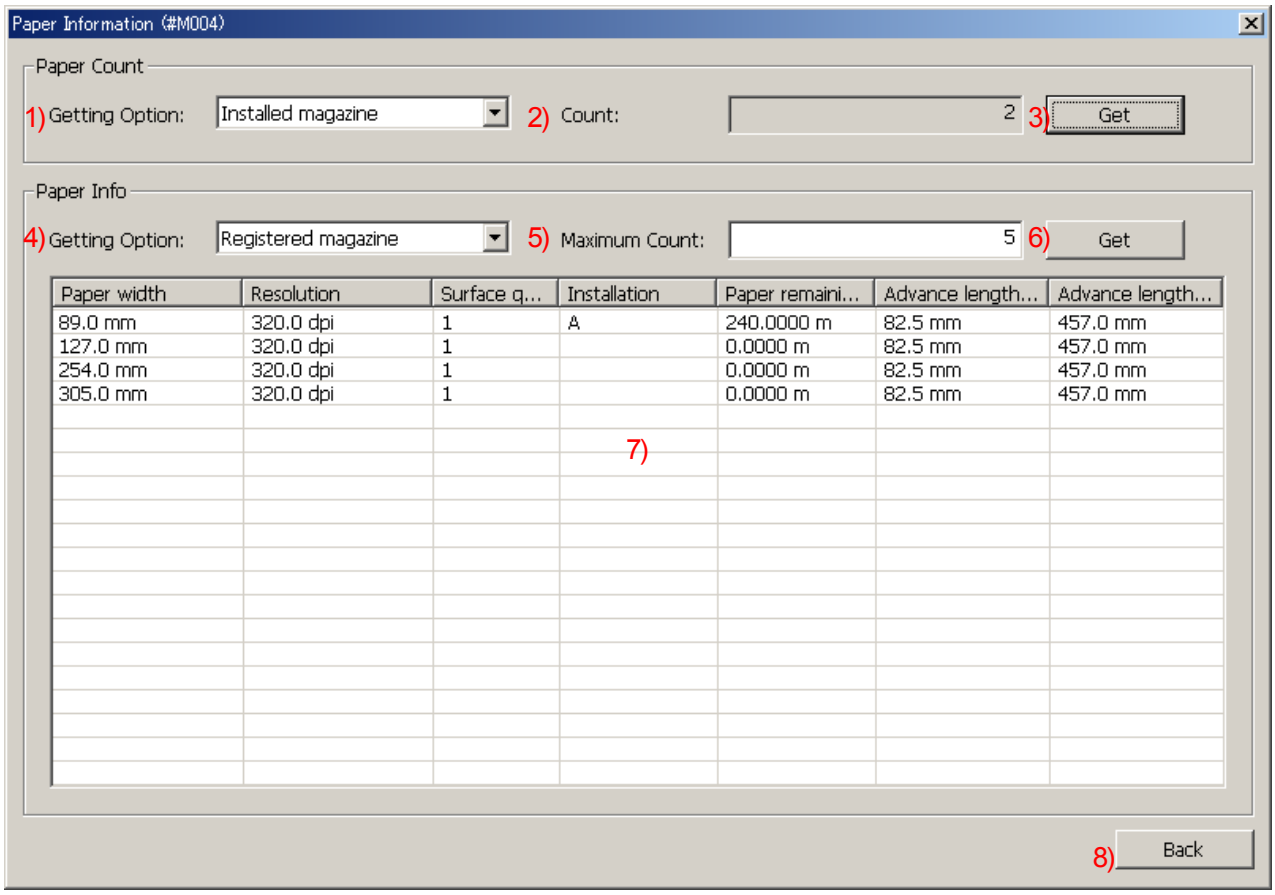
Items to be listed are as follows:

QSS status	Printing, Adjusting, Idling, Error/Attention has occurred
External input	Acceptable/Not acceptable
PU printing	Available/Not Available
Magazine A	Paper width, Resolution, Paper remaining, Surface quality
Magazine B	Paper width, Resolution, Paper remaining, Surface quality
Supported image	Refer to Specifications of QSS Network Service for detail.
Total number of prints	
CD	Solution temperature, Remaining amount
BF	Solution temperature, Remaining amount
STB	Solution temperature, Remaining amount
Spool free space	

2) Get
   Clicking this button will get the current status of QSS connected and show the result in 1).
3) Back
   Clicking this button will bring up the Menu screen.

5-5 Paper Information

Description:
Paper Information screen allows you to get paper information by using QssGetPaper function.



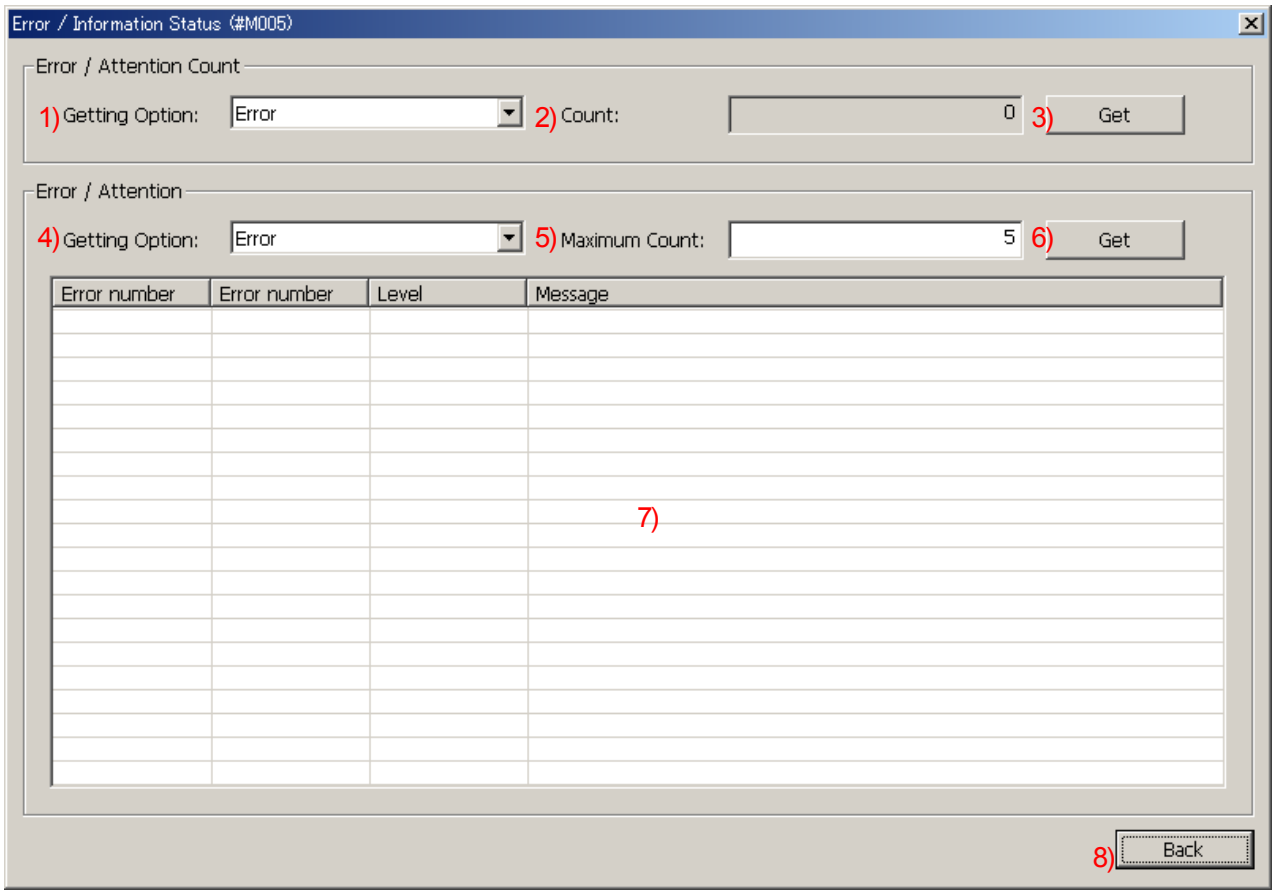
Explanation of each item:

1) Getting Option (Paper Count)
   Specify the type of paper magazine you wish to get the number of. Options are:
   - Installed magazine
   - Registered magazine
2) Count (Paper Count)
   Using QssGetPaper function, the number of paper for which “paper magazine registration” has been performed is shown of the paper magazine specified in 1).
3) Get (Paper Count)
   Clicking this button will get and show, in 2), the number of paper for which “paper magazine registration” has been performed for the paper magazine specified in 1).
4) Getting Option (Paper Info)
   Specify the type of paper magazine you wish to get information from. Options are:
   - Installed magazine
   - Registered magazine

5) Maximum Count (Paper Info)
   Specify up to how many paper you want to get information from of the paper magazine you have specified in 4).
6) Get (Paper Info)
   Clicking this button will call QssGetPaper function to get the paper information of the paper magazine you have specified in 4) and show it in 7) up to the number of paper magazine you have specified in 5).
7) Paper information list
   The information you have got by clicking Get button 6) is listed.
8) Back
   Clicking this button will bring up the Menu screen.

5-6 Error/Attention Status

Description:
Error/Attention Status screen allows you to get error/attention information by using QssGetError function.



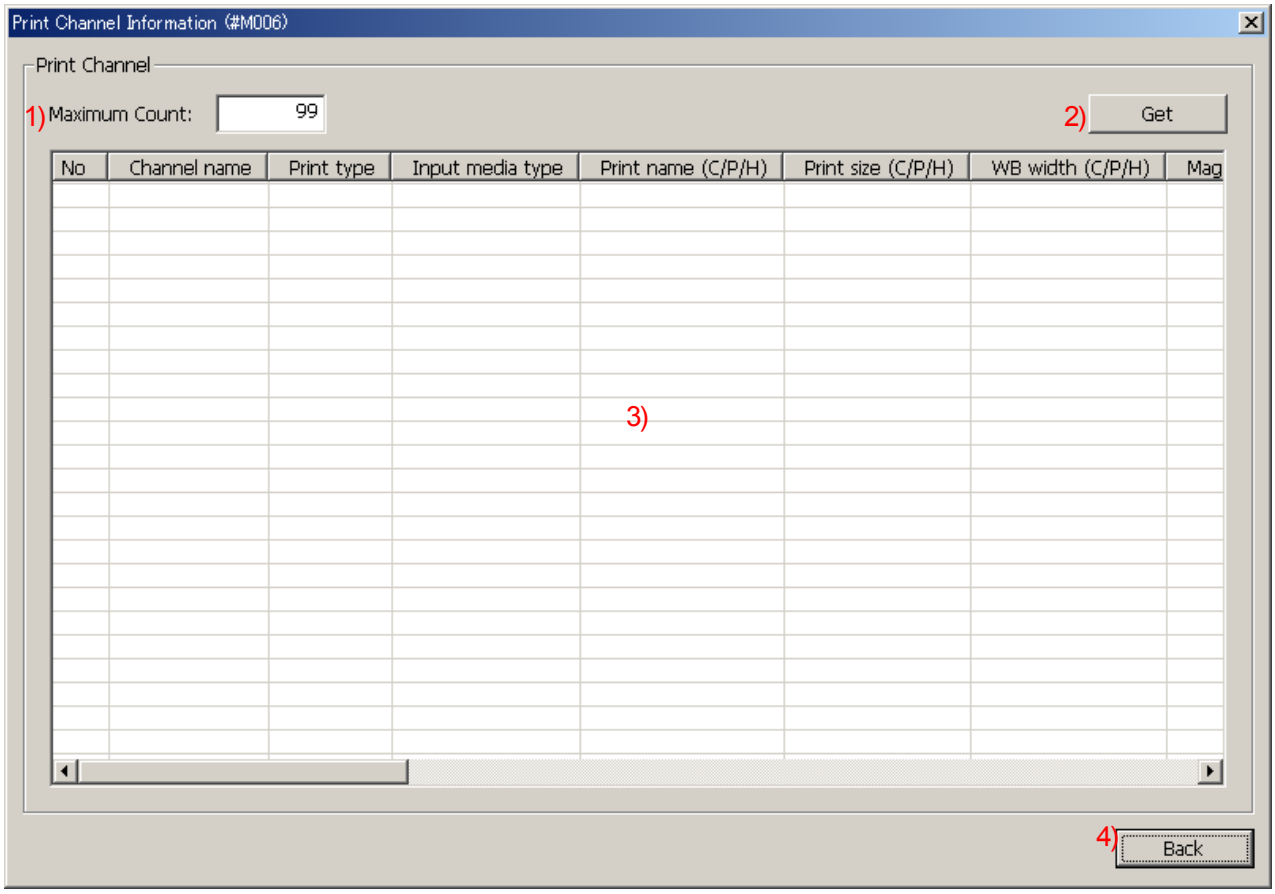
Explanation of each item:

1) Getting Option (Error/Info Count)
   Specify what information you want to get the number of. Options are:
   - Error
   - Attention message
   - Error & Attention message
2) Count (Error/Info Count)
   Using QssGetError function, the number of error/attention message(s) that currently occur(s) is shown.
3) Get (Error/Info Count)
   Clicking this button will get and show, in 2), the number of error(s), attention message(s) or both, based on option 1).

4) Getting Option (Error/Attention)
   Specify what information you want to get. Options are:
   - Error
   - Attention message
   - Error & Attention message
5) Maximum Count (Error/Attention)
   Specify up to how many errors, attentions or both, based on option 4), you want to get information from.
6) Get (Error/Attention)
   Clicking this button will call GetQssError function to get the error/attention information based on option 4) and show it in 7) up to the number you have specified in 5).
7) Error/Attention information list
   Error number(s), sub number(s), level(s) and message(s) of the error(s)/attention(s) currently occur are listed.
8) Back
   Clicking this button will bring up the Menu screen.

5-7 Print Channel Information

Description:
Print Channel Information screen allows you to get print channel information by using QssGetChannelInfo function.

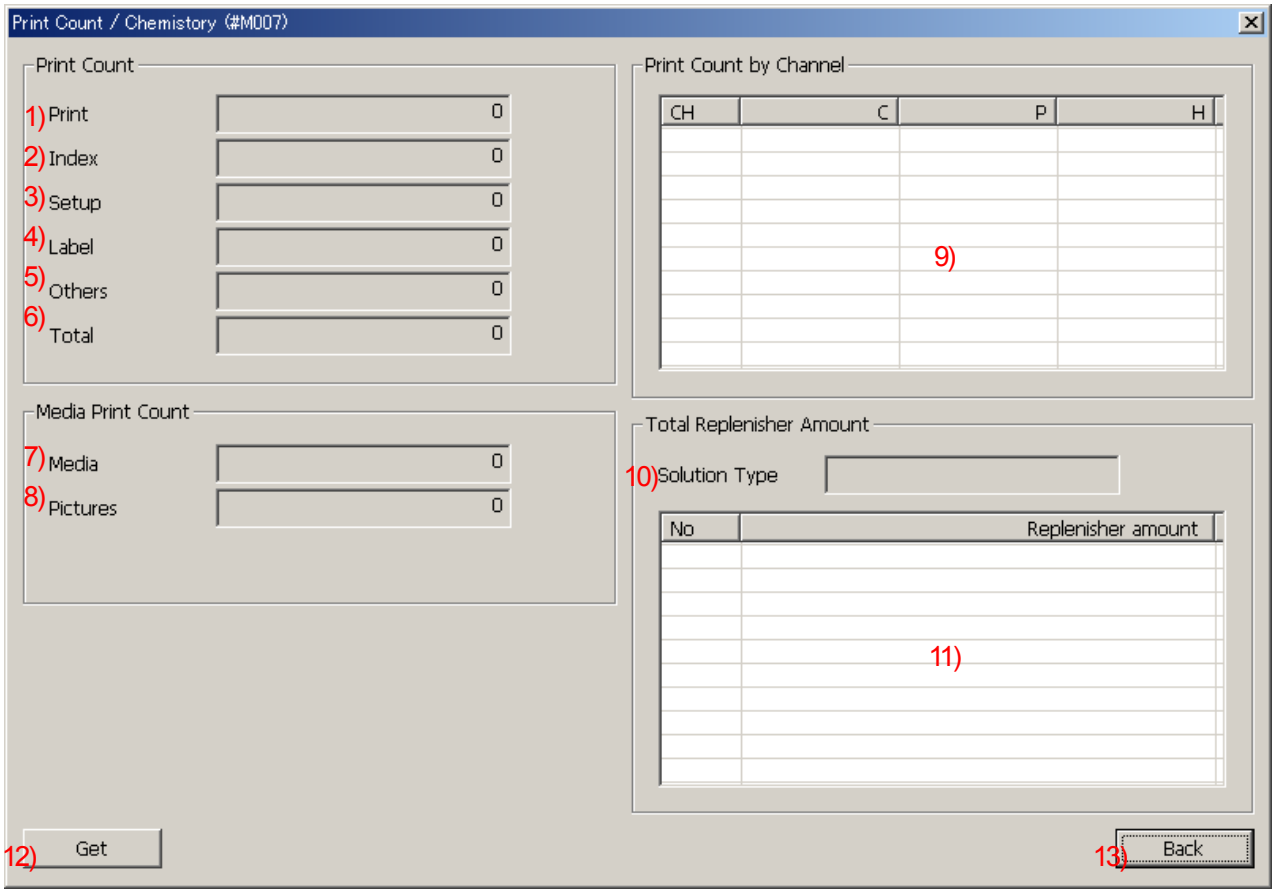


Explanation of each item:

1) Maximum Count
   Specify up to how many print channels you want to get information from.
2) Get
   Clicking this button will get and show the print channel information in 3) by using QssGetChannelInfo function.
3) Print channel information list
   Print channel information, such as channel name, print type, input media, print name, etc. of up to the number of channels you have specified in 1) are listed here.
4) Back
   Clicking this button will bring up the Menu screen.

5-8 Print Count/Replenisher

Description:
Print Count/Replenisher screen allows you to get information on total number of print/replenisher amount by using QssGetSumInfo function.



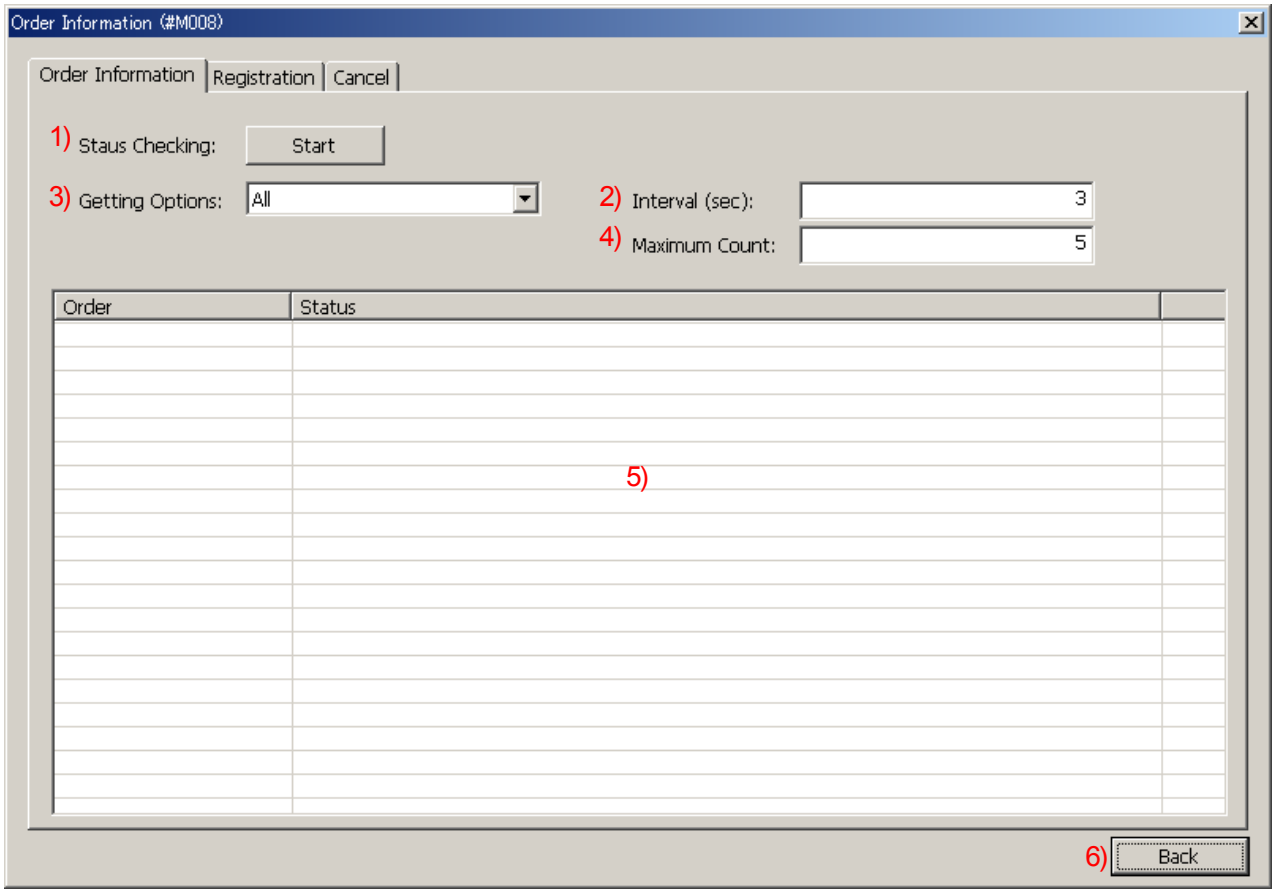
Explanation of each item:

1) Print
   Shows the total number of normal prints that have been made.
2) Index
   Shows the total number of index prints that have been made.
3) Setup
   Shows the total number of setup prints that have been made.
4) Label
   Shows the total number of label prints that have been made.
5) Others
   Shows the total number of other prints that have been made.
6) Total
   Shows the total number of all types of prints that have been made.

7) Media
   Shows the total number of media in which data is saved.
8) Pictures
   Shows the total number of images that have been saved in media.
9) Print Count by Channel
   Shows the total number of prints by print channel (CH1-99 and Net Order)
10) Solution Type
   Shows the process specification of the connected QSS.
11) Total Replenisher Amount
   Shows total amount of replenisher that has been made (Solution name may vary depending on the process spec.)
12) Get
   Clicking this button will get and show in 1) – 11) the total number of prints and total amount of replenishment of the QSS connected by using QssGetSumInfo function.
13) Back
   Clicking this button will bring up the Menu screen.

5-9 Order Information (1. Order Information)

Description:
Order Information screen, Order Information tab, allows you to get order information by using QssGetOrderState function.



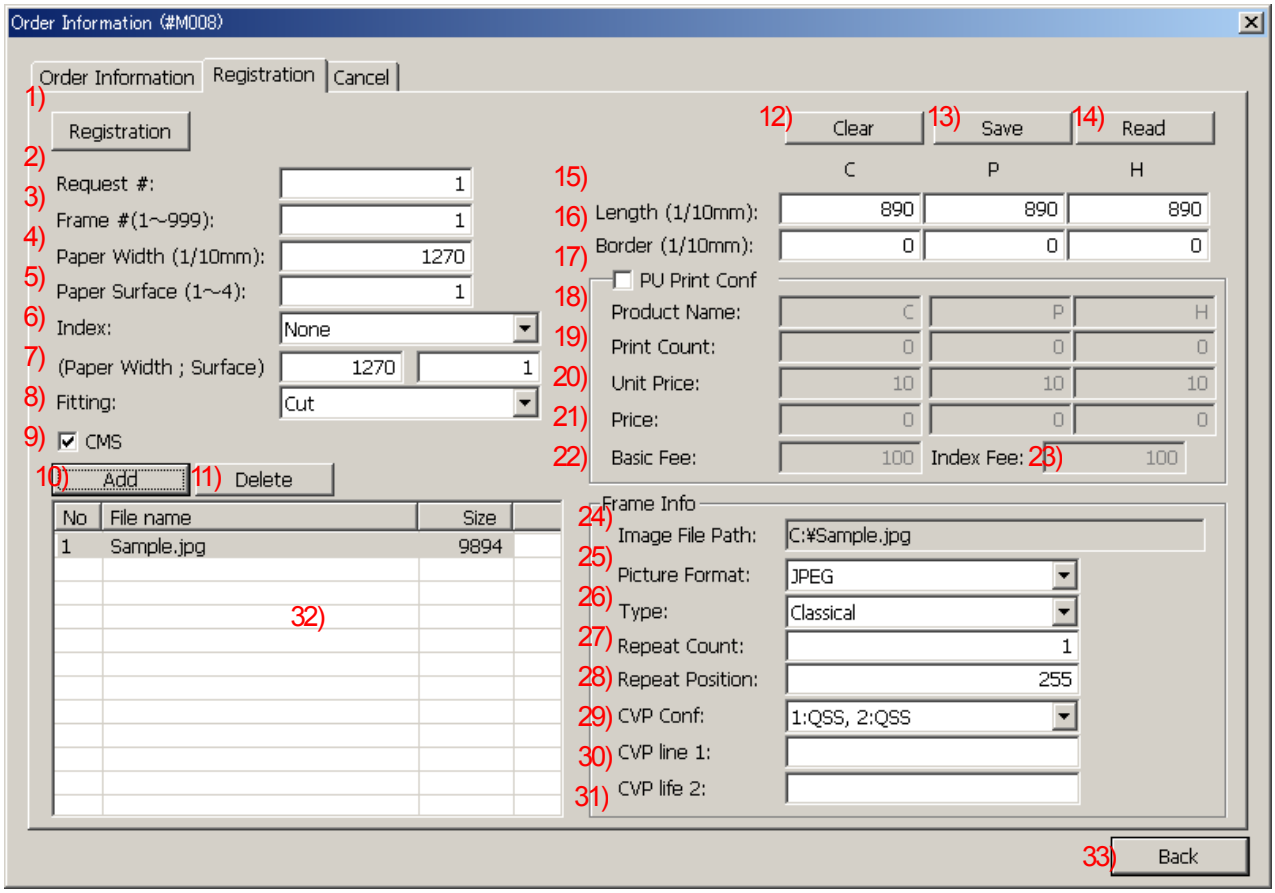
Explanation of each item:

1) Status checking
   Clicking the Start button will get the current status of order by using QssGetOrderState function, based on the conditions made in 2) – 4) and show the result in 5).
2) Interval (sec)
   Specifies the frequency to call QssGetOrderState function.
3) Getting Options
   Determine if you wish to get the status of all orders that have been sent to QSS or of only the ones you specify. When you select the latter, “Request #” box appears where you can enter a desirable order number. By clicking Add then, you can add another order from which you wish to get information.
4) Maximum count
   Specify the maximum number of orders you wish to get the information from.
5) Order information result
   Lists the number and the status of the order you have got by clicking Start button in 1).

6) Back
Clicking this button will bring up the Menu screen.

5-10 Order Information (2. Registration)

Description:
Order Information screen, Registration tab, allows you to register order in QSS by using QssTransmitFile, QssSetPUInfo, and QssSetOrder functions.



Explanation of each item:

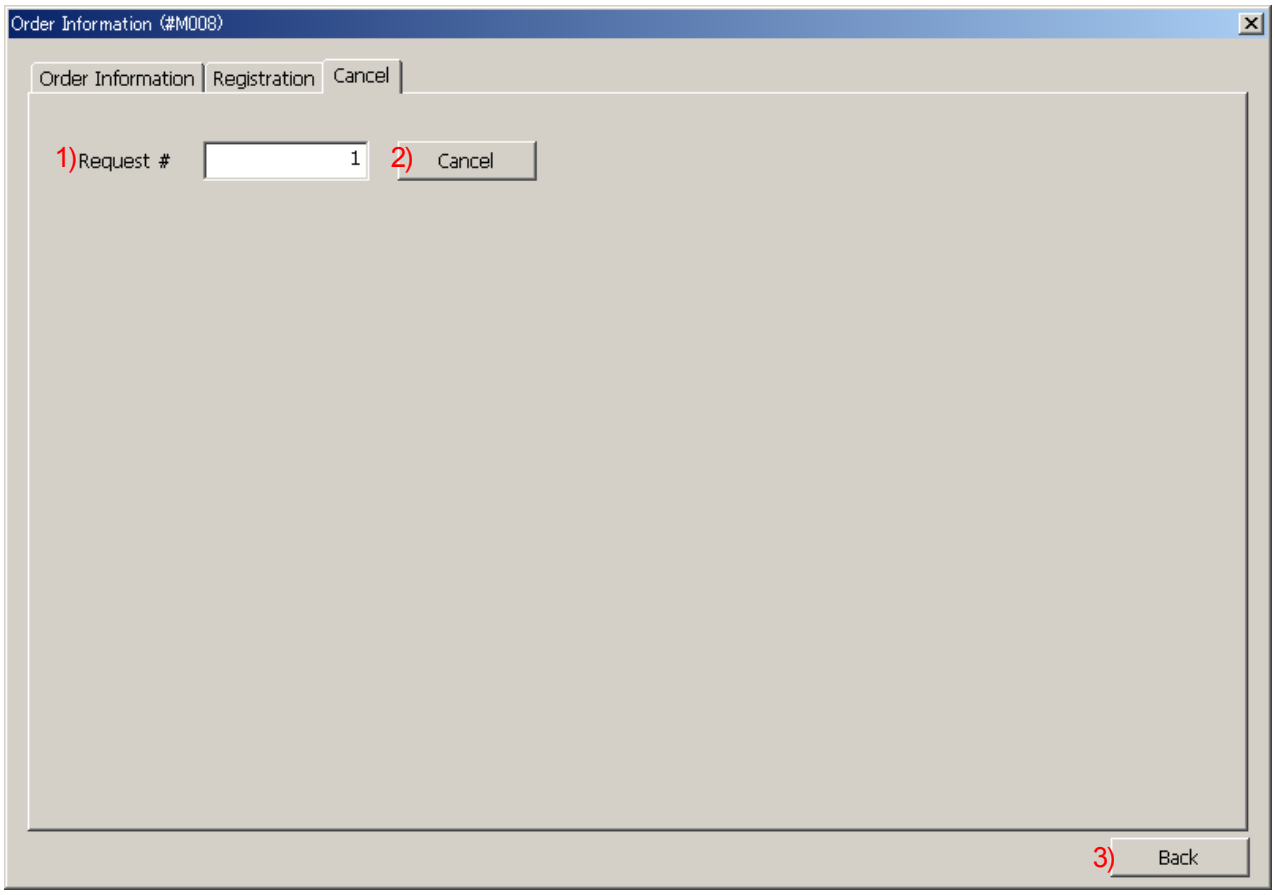
1) Registration
   Clicking this button will send order information 2) - 9), PU information 17) – 23) and frame information 24) – 31) to QSS by using QssTransmitFile, QssSetPUInfo, and QssSetOrder functions.
2) Request #
   Specifies the order number.
3) Frame # (1-999)
   Specifies the number of frame(s).
4) Paper Width (1/10mm)
   Specifies the paper width.
5) Paper Surface (1-4)
   Specifies the paper surface.
6) Index
   Specifies index print type.

7) Paper Width; Surface
   Specifies the paper width and surface for index print.
8) Fitting
   Specifies the desirable type of paper fitting (cut/whole/real)
9) CMS
   Check the box when you wish to apply CMS.
10) Add
   Clicking the button will show “Open” dialog where you select the image file you wish to print.
11) Delete
   Clicking this button will delete the image file selected in 32) from the list.
12) Clear
   Clicking this button will reset the settings you have made in 2) – 8) and 17) – 32) to the default settings.
13) Save
   Clicking this button will save the settings in a file.
14) Read
   Clicking this button will read the information saved in 13).
15) Length (1/10mm)
   Specifies the advance length of C/H/P print.
16) Border (1/10mm)
   Specifies the width of white boarder for C/H/P print.
17) PU Print Conf
   Determine if you wish to make PU printing or not.
   When you decide not, items 18) – 23) are not available.
18) Product Name
   Specifies the product name of C/H/P to be printed with PU.
19) Print Count
   Specifies the print count of C/H/P to be printed with PU.
20) Unit Price
   Specifies the unit price of C/H/P to be printed with PU.
21) Price
   Specifies the price of C/H/P to be printed with PU.
22) Basic Fee
   Specifies the basic fee (charge fee) to be printed with PU.
23) Index Fee
   Specifies the index price to be printed with PU.
24) Image File Path
   Shows the full path of the image file selected in 32).
25) Picture Format
   Select the image format of the frame selected in 32).
26) Type
   Select the frame type, C, P or H, of the frame selected in 32).
27) Repeat Count
   Specifies the number of repeat print of the frame selected in 32).

28) Print Count CVP
    Specifies where in CVP printing to locate the print count.
    Enter the number to start printing print count with. A line can contain up to 120 characters. When you enter “126”, for example, then print count will be printed starting with the 6th character of the 2nd row.
29) CVP Configuration
    Specifies CVP type to be printed for the frame selected in 32). You may make setting for 2 rows respectively, such as “QSS” for the 1st line and “AUX” for the 2nd line so that CVP printing refers to the CVP setting defined on QSS for the 1st line and setting you have made in 31) below for the 2nd line.
30) CVP line 1
    Define the information to be printed on the 1st line of CVP.
31) CVP line 2
    Define the information to be printed on the 2nd line of CVP.
32) Image information
    Lists the image file information of the frames to be sent to QSS as an order.
33) Back
    Clicking this button will bring up Menu screen.

5-11 Order Information (3. Cancel)

Description:
Order Information screen, Cancel tab, allows you to cancel order by using QssAbort function.

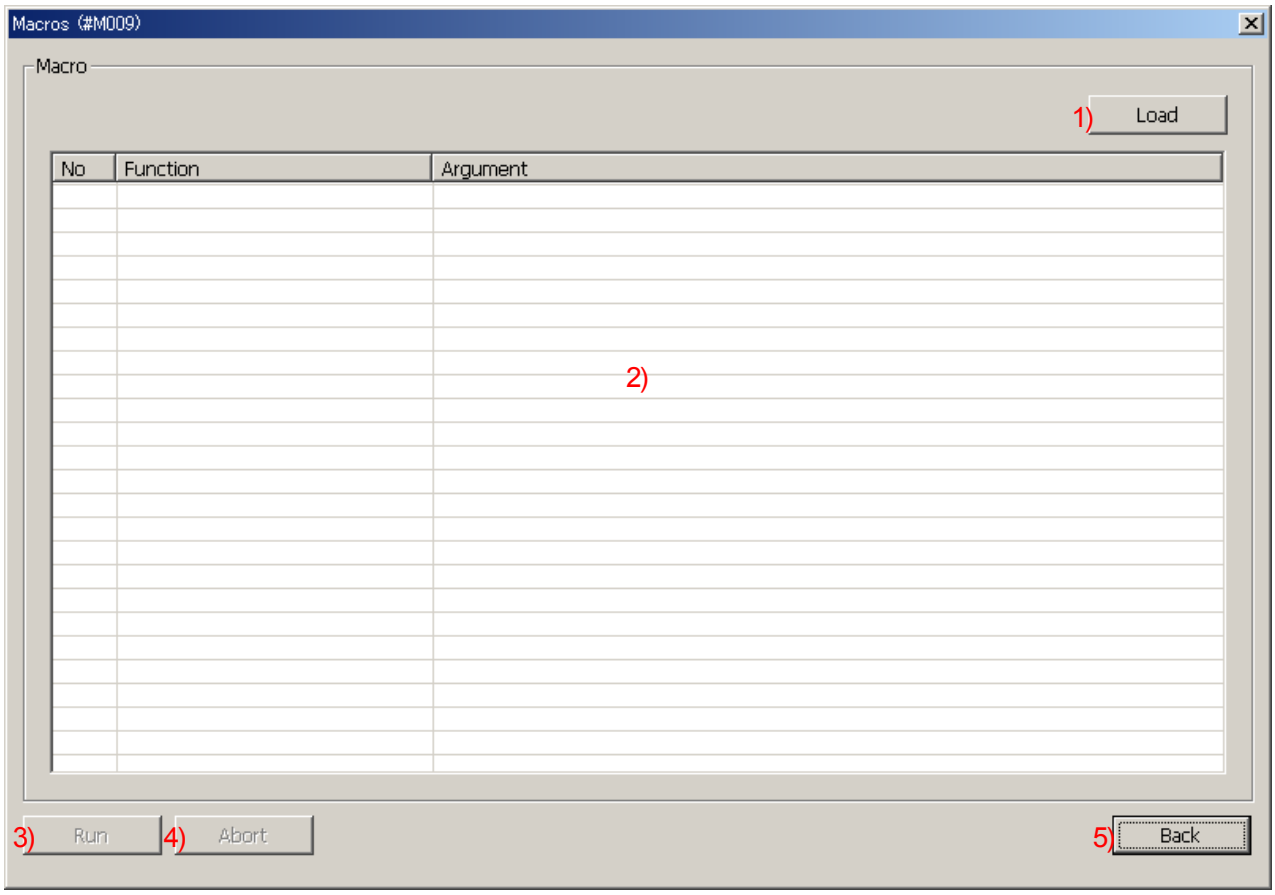


Explanation of each item:

1) Request #
   Specify the order number you wish to cancel.
2) Cancel
   Clicking this button will cancel the order specified in 1) by using QssAbort function.
3) Back
   Clicking this button will bring up the Menu screen.

5-12 **Macros** (Currently not supported)

Description:
Macros screen allows to read and execute the macro file you specify.



Explanation of each item:

1) Load
   Clicking this button will show the dialog where you can select desirable macro file. Once you select, contents of the macro file are displayed in 2).
2) Macro list
   Number, function, and argument of the macro you have loaded in 1) is listed.
3) Run
   Clicking this button will execute the macro shown in 2).
4) Abort
   Clicking this button will stop the execution of the macro. This button is active only when the macro is being executed. (While executing macro a progress bar is shown.)
5) Back
   Clicking this button will bring up the Menu screen.

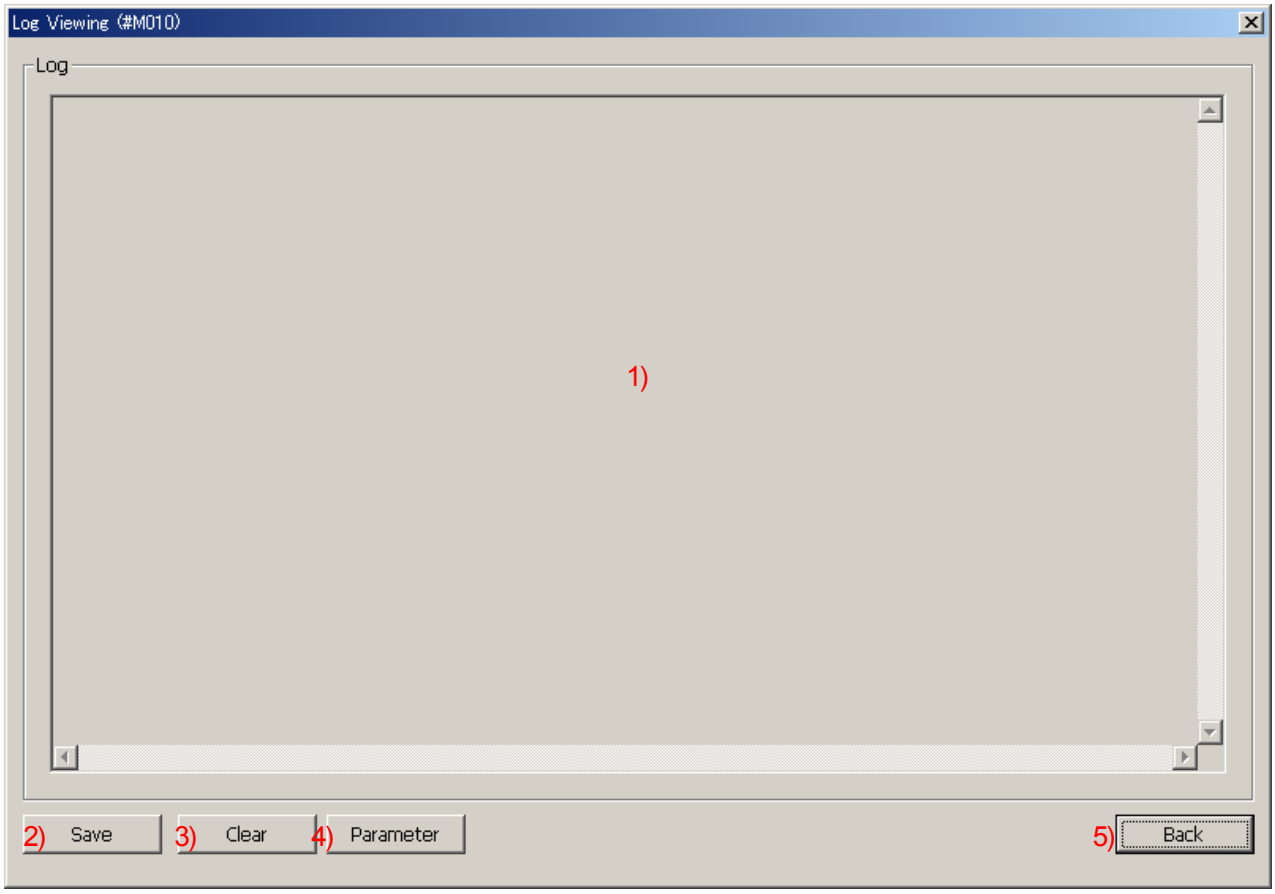
Description of Macro file

- Macro in file is of CSV format that uses comma (,) as separator.
- You can set a RPC function per column. Set the following function name in the 1st row and arguments to be passed to the function in the 2nd row.

Function name	Description
QssGetName	Get QSS information No parameter e.g. QssGetName
QssAbort	Delete registered order. Set the order number you wish to delete in the 2nd row. e.g. QssAbort,1
QssGetPaper	Get information of paper registered to QSS. Set get flag in the 2nd row and buffer number to be set to get paper information in the 3rd row. e.g. QssGetPaper,0,5
QssGetError	Get error information of QSS. Set get flag in the 2nd row and buffer number to be set to get error information in the 3rd row. e.g. QssGetError,0,5
QssGetOrderState	Get order information of QSS. Set get flag in the 2nd row and buffer number to be set to get error information in the 3rd row. NOTE: When you set 0 as get flag, specify the order number you want to get paper information from in the 4th and subsequent rows. e.g. QssGetOrderState,0,5,1,2,3,4,5 QssGetOrderState,1
QssGetPrinterState	Get current status of QSS No parameter e.g. QssGetPrinterState
QssGetChannelInfo	Get print channel information. Specify the number of buffer to get print channel information in the 2nd row. e.g. QssGetChannelInfo,5
QssGetSumInfo	Get the information on total number of print/replenisher amount. No parameter e.g. QssSetSumInfo
QssSetOrder (not supported)	Register order. Specify in the 2nd row the full path of the order information file that you have saved in Registration tab of Order Management screen. e.g. QssSetOrder,D:¥DATA¥0001.ini

5-13 Log Viewing

Description:
Log Viewing screen allows you to check the record of executed interface functions for QSS Network Service.



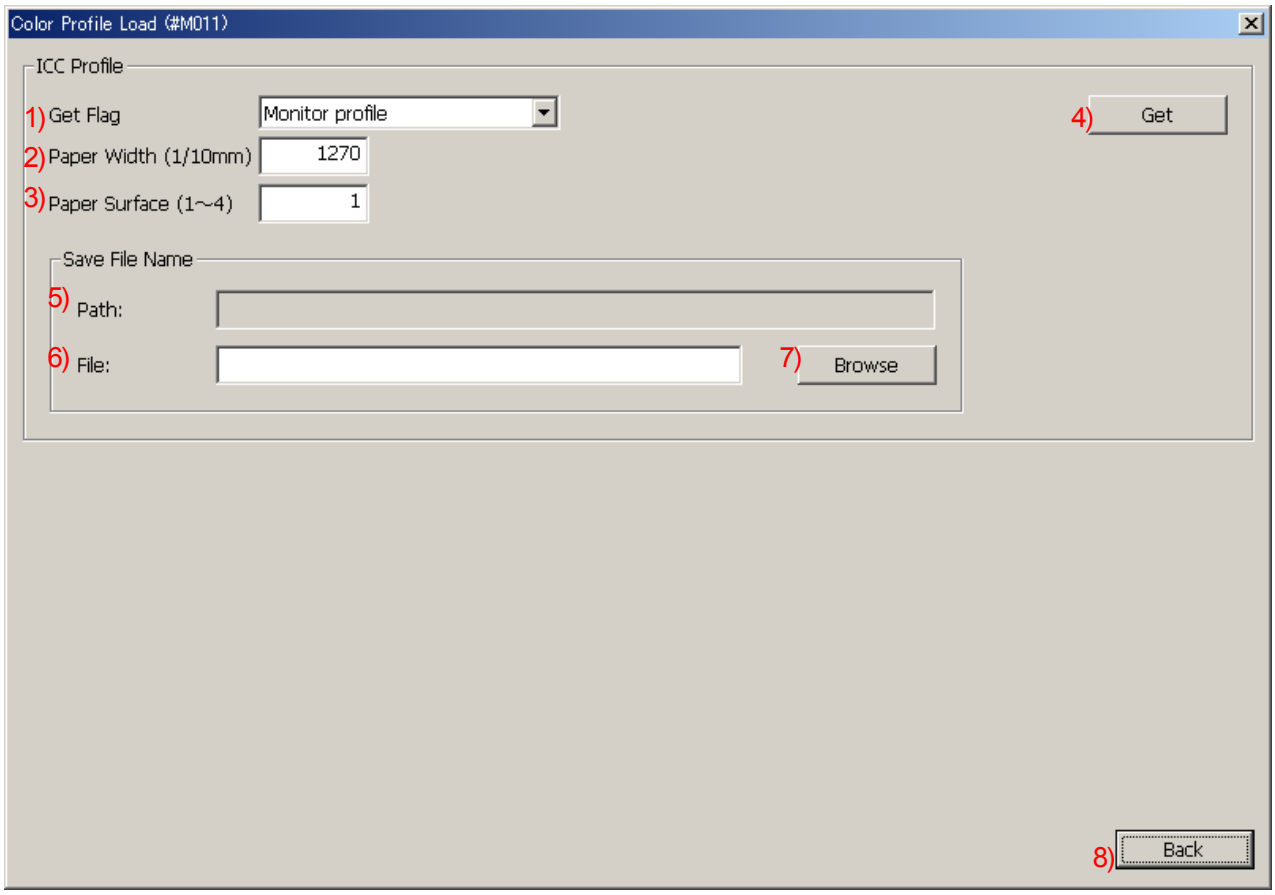
Explanation of each item:

1) Contents
   Shows the contents of log.
2) Save
   Clicking this button will save the log currently displayed in file.
3) Clear
   Clicking this button will delete the log currently displayed.
4) Parameter (Currently not supported)
   When this button is clicked, argument(s) and return value(s) are also shown in 1).
5) Back
   Clicking this button will bring up the Menu screen.

Generally, log of each process is written in “QSS_CLIENT.log” and an abstract of the file is shown in this screen.

5-14 Color Profile Load

Description:
This screen allows you to get profile data.



Explanation of each item:

1) Get flag
   Select the profile you wish to get. Options are:
   - Monitor profile
   - Printer profile
2) Paper width
   Specify the paper width.
3) Surface
   Specify the paper surface.
4) Get
   Clicking this button will get the profile you have specified in 1) – 3) and save it with the path and filename you have specified in 5) and 6).
5) Path
   Shows the full path to the file to save the profile you have got.

6) File
   Specify the file name to save the profile you have got.
7) Browse
   Clicking this button will show the dialog that allows you to select which folder you wish to save the file.
8) Back
   Clicking this button will bring up the Menu screen.

