

FreeFlow[®] Web Services

Integration Guide

Book Assembly Supplement

Powered by **Press-sense** 



Xerox Corporation

Global Knowledge and Language Services

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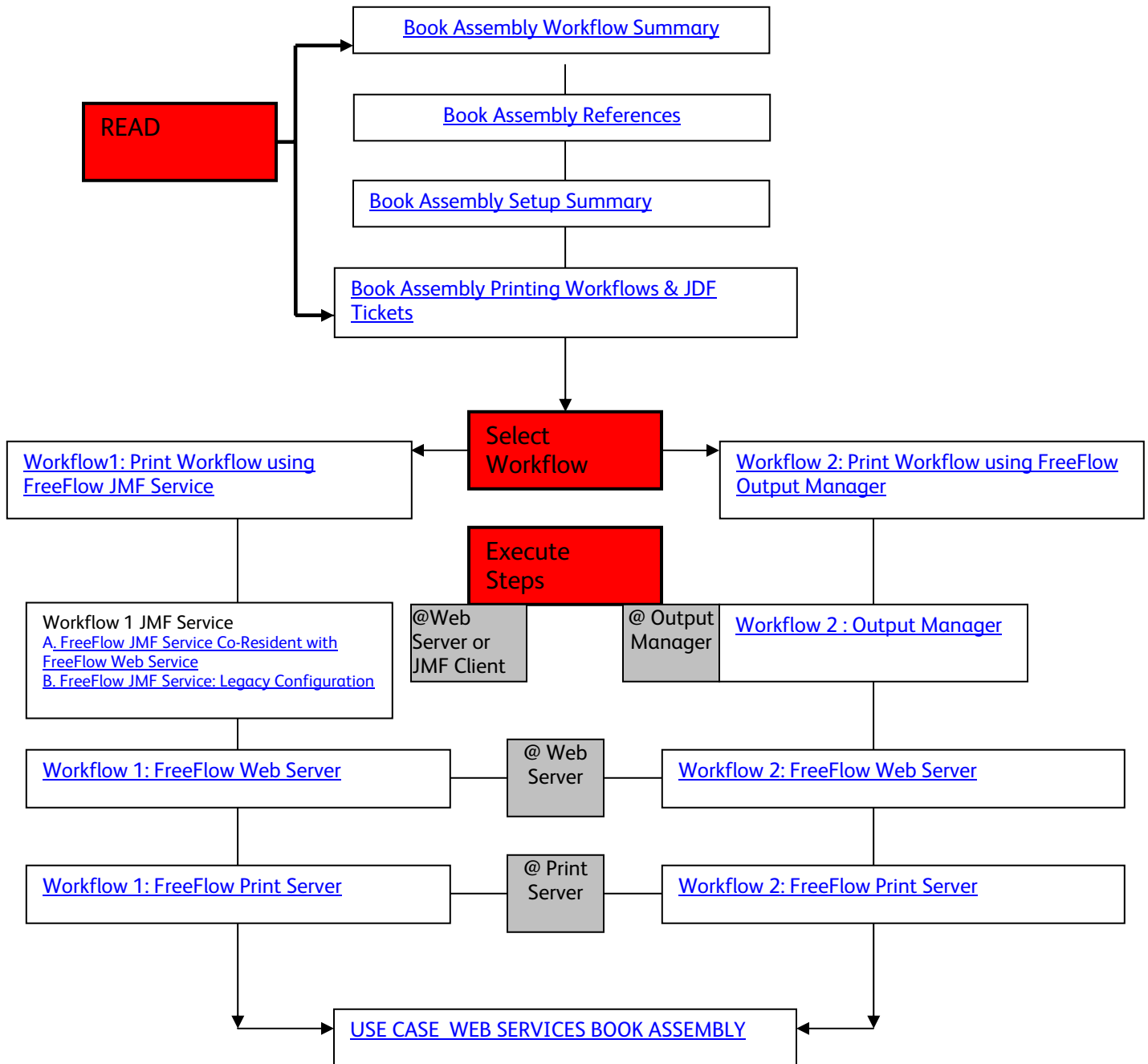
Book Assembly Workflow Summary

This guide describes how to integrate FreeFlow® Web Services with the Web Services Book Assembly option. Book Assembly allows Customers to take multiple files and file types, perform a soft-proof and dynamically create bound books or other finishing options from virtually any location.

- The actual routing of the job is normally assigned as part of the pricing setup of a template or job type. The JDF information is sent via JMF messages to the next module.
- A FreeFlow Web Services Output Device is created to route the Web Services jobs to the appropriate FreeFlow module.

For more information on all the Web Services Print Workflows and Web Services FreeFlow Integrations, refer to the *FreeFlow Web Services 7.0 Integration Guide*.

Navigating the Document



Book Assembly References

- FreeFlow Web Services Print Buyer Guide
- FreeFlow Web Services Print Service Provider Guide
- JMF Service User Guide
- FreeFlow Print Server on-line help
- FreeFlow Web Services Integration Guide

Reference materials may be obtained from the Xerox Analyst or by visiting the *Support & Drivers* section on Xerox.com.

Book Assembly Setup Summary

1. Select a Web Services Book Assembly Print Workflow
 - Workflow 1: FreeFlow JMF Service Print Workflow
-FreeFlow Web Server: Install on Web Server (Recommended) & Configure JMF Service.

<Or>

 - Workflow 2: FreeFlow Output Manager Print Workflow
-FreeFlow Output Manager: Configure print queue on the FreeFlow Output Manager.

In both printing workflows the JDF ticket with the job properties associated with Book Assembly is routed to the FreeFlow Print Server (DFE). JMF messaging is used to communicate the status of the job through the printing workflow back to the Web Services Production Queue.

2. FreeFlow Web Services
 - Define a FreeFlow Output Device for Book Assembly print workflow.
 - Create a Book Assembly Template
 - Check Stock Library with Print Server Stock Library
3. FreeFlow Print Server
 - Create a FreeFlow Print Server printer queue for Book Assembly print workflow
 - Check stock library
 - Load and Check applicable stocks in Xerox printer trays

Book Assembly Printing Workflows & JDF Job Tickets

FreeFlow Web Services achieves automation in production printing by implementing JDF/JMF Printing Workflows in combination with Xerox production printers. Customers can also acquire JMF Service software by contacting their Xerox Analyst or by downloading it from the *Support and Drivers* section on Xerox.com.

For more information on all the Web Services Print Workflows and Web Services FreeFlow Integrations, refer to the *FreeFlow Web Services 7.0 Integration Guide*.

Select a Print Workflow and follow the instructions to setup and configure each FreeFlow component for Book Assembly.

FreeFlow Web Services Book Assembly can only be used with the following JMF Printing Workflows:

1. **FreeFlow JMF Service Print Workflow:** Installed on the same server as FreeFlow Web Services (recommended). Also refer to the Legacy Configuration: installed on a stand-alone PC client.
 - Section: Workflow 1: FreeFlow JMF Service Print Workflow
2. **FreeFlow Output Manager Print Workflow:** A specific queue would be selected on the FreeFlow Output Manager.
 - Section: Workflow 2: Output Manager Print Workflow

Both workflows use the JDF digital printing process for Book Assembly jobs. The job ticket parameters supported in the JDF ticket are outlined in section: *Supported JDF Job Ticket Parameters*.

A FreeFlow Web Services Output Device is created to route the FreeFlow Web Services job to the appropriate FreeFlow component in the printing workflow.

Note

The FreeFlow Process Manager workflow cannot be used for the FreeFlow Web Services Book Assembly option.

Supported JDF Job Ticket Parameters

Since JDF is an emerging standard, not all possible job ticket attributes from FreeFlow Web Services are currently supported by the JDF printing path. When following one of the two printing workflows (via JMF Service or Output Manager), the job parameters below can be transferred via JDF process:

- Number of Copies
- Media (weight, size, color, type)
- Sides imaged (one side, two sides, head-to-toe)

Finishing

- Saddle Stitch (fold and stitch)
- Folding

Covers (for Book Assembly)

- Add Front Cover (media, print on front, print on back)
- Add Back Cover (media, print on front, print on back)

Insert Tabs (for Book Assembly)

- Insert after page number
- Media (weight, size, color, type, sequence number)
- Tab Text

Exceptions Pages (for Book Assembly)

- Media (weight, size, color, type)
- Sides imaged (one side, two sides, head-to-toe)

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Workflow 1: FreeFlow JMF Service Print Workflow

Select a Web Services Book Assembly Print Workflow:

Workflow 1: FreeFlow JMF Service Print Workflow: Two options that are supported by the Book Assembly workflow:

- Recommended: Install on Web Services (Co-Resident) & Configure JMF Service
 - Section entitled **FreeFlow JMF Service Co-Resident with FreeFlow Web Service**
- Legacy Configuration: Install on a Local stand alone PC & Configure JMF Service
 - Section entitled **FreeFlow JMF Service Legacy Configuration**

The JDF ticket with the job properties associated with Book Assembly is routed to the FreeFlow Print Server (DFE). JMF messaging is used to communicate the status of the job through the printing workflow back to the Web Services Production Queue.

FreeFlow JMF Service Co-Resident with FreeFlow Web Service

Recommended configuration, installed on the FreeFlow Web Services server.

Summary of Steps:

1. Install
2. Perform a System Check
3. Create Users & Groups
4. Run Printer Registration
5. Execute key CLI (Command Line Interface) commands

To obtain the latest JMF Service User Guide and the latest version of this software, visit the FreeFlow Web Services section in the *Support & Drivers* section on Xerox.com.

Reference

JMF Service User Document

Description: Complete install instructions for JMF Services and complete list of and syntax for CLI (Command Line Interface)

Install JMF Service: Same server as FreeFlow Web Service

FreeFlow JMF Service is intended to run on a single host and cannot reside on the same server with any other FreeFlow applications except Print Manager and Web Services.

The logged on user must have administrator rights to install programs on a Windows platform. The installation will ask for the following information:

- Installation root directory. The default is "C:\Program Files\Xerox\FreeFlow JMF Service".

Perform the following steps to install the product:

If the install program does not start automatically, double-click the install.exe file.

1. Select a language from the pull-down menu. Click **OK**.
2. Click **Next** in the Introduction screen.
3. In the Software License Agreement screen, select the "I accept..." option to accept the End User License Agreement terms. Click **Next**.
4. In the Choose Install Set screen, select both **FreeFlow JMF Service** and **Printer Registration**. Click **Next**.
5. In the Choose Install Folder screen, accept the default install directory or enter an alternate install location. Click **Next**.
6. In the Choose Shortcut Folder screen, select a Shortcut Folder option. Click **Next**.
7. Review the install options at the Pre-Installation Summary screen. Click **Install**.
8. Select **Done** to complete the software installation and reboot the system.

After you reboot the system, under the Start menu "Xerox FreeFlow Software- >FreeFlow JMF Service", the following shortcuts are available:

- Services: This shortcut is used when stopping and starting the FreeFlow JMF Service.
- Command Line: This shortcut is used to invoke the FreeFlow JMF Service CLI commands.

System Check: Same Computer as FreeFlow Web Service

At the Installed Products dialog, ensure that the Free Flow JMF Service check box is selected. Click **OK**.

Create Users & Groups: Same Computer as FreeFlow Web Service

FreeFlow JMF Service relies on the underlying operating system security mechanism for authentication.

All authenticated users must have an account on the host on which FreeFlow JMF Service is running. Authorization is enforced through the Command Line Interface (CLI) which must reside on the same host on which FreeFlow JMF Service is running.

The CLI uses the credentials associated with the logged in user for authorization purposes. Only a single access level is supported - "Xerox FreeFlow JMF Service Administrators".

Prior to executing any CLI commands, this group must be created and the user must be associated with it.

Perform the following to configure the user group:

1. Right-click **My Computer** and select **Manage**.
2. Open the Local Users and Groups folder and open the Groups folder.
3. Select the "Xerox FreeFlow JMF Service Administrators" Group.
4. Add users to the group. If necessary, first create any specific users whom you want to have access to the application.

Note

It is important to add the user who setup and administers the FreeFlow Web Server to this group.

5. Close the Computer Management window and login as one of the users added to the Xerox FreeFlow JMF Service Administrators group.

JMF Service Printer Registration: Same Server as FreeFlow Web Service

Only those users that are members of the Xerox FreeFlow JMF Service Administrators group can add or edit a Xerox printer in the Printer Registration application.

Close the Computer Management window and login as one of the users added to the group.

1. Select ->Programs->Xerox Free Flow Software->Printer Registration.
2. Select **Add** to add the Xerox Printer.

3. The Add Printer wizard will be displayed.

Add Printer Wizard

XEROX

FreeFlow®
7.0

Provide the following information for the printer you wish to register.
- or -
Enter the IP Address and select Identify Configuration
to automatically detect the Model and Controller/Server Type.

Printer Name or IP Address:

Identify Configuration

Printer Model:

DocuTech 6180

Controller/Server Type:

DocuSP 51

☐ High Security

< Back Next > Finish Cancel Help

4. Enter the IP address or Printer Name and click **Identify configuration**. The application will automatically identify the printer model and controller type.

Add Printer Wizard

XEROX

FreeFlow®
7.0

Provide the following information for the printer you wish to register.
- or -
Enter the IP Address and select Identify Configuration
to automatically detect the Model and Controller/Server Type.

Printer Name or IP Address:

13.132.246.25

Identify Configuration

Printer Model:

Xerox 4112/4127 Copier/Printer

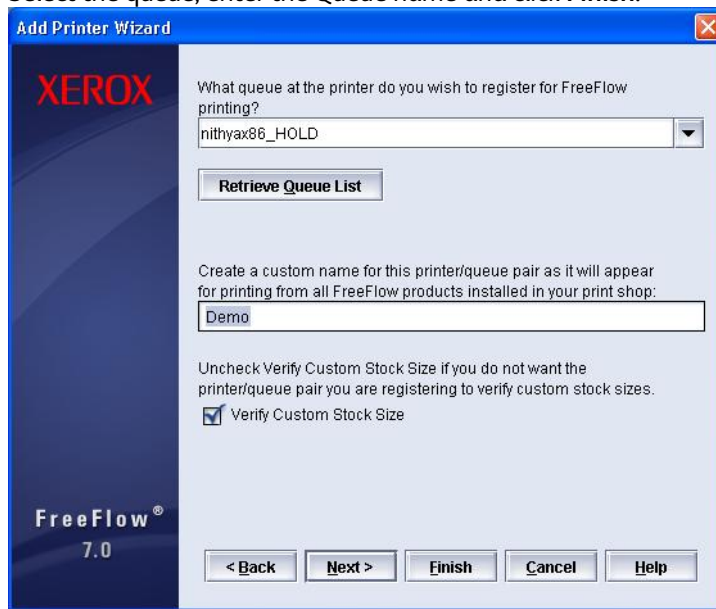
Controller/Server Type:

Xerox FreeFlow Print Server 6.0

☐ High Security

< Back Next > Finish Cancel Help

5. Select the queue, enter the Queue name and click **Finish**.



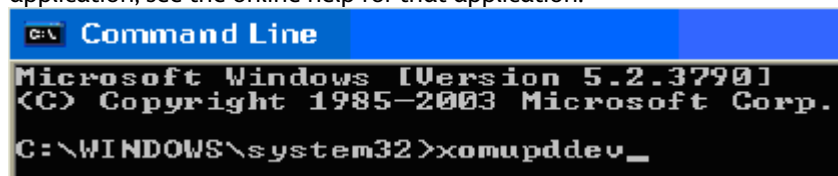
6. Select Start->Programs->Xerox Free Flow Software->Xerox Free flow JMF Service 7.0-> Command line.

CLI Command Line Interface: Same Server as FreeFlow Web Service

The JMF Service does not maintain its own list of configured production printers. You must use the FreeFlow Printer Registration application to add and configure printers.

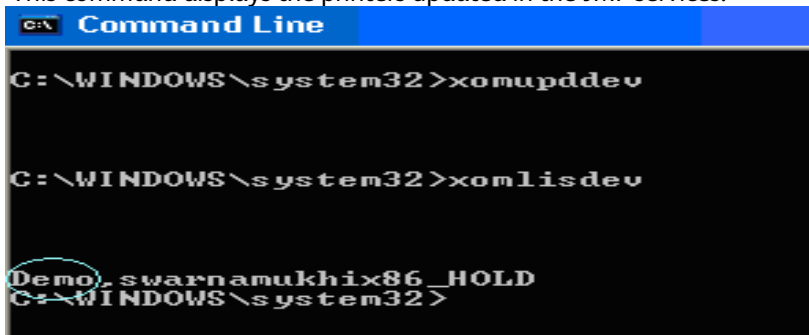
Once you have added the necessary production printers, you will need to bring up a Command Prompt and use the following FreeFlow JMF Service CLI command to register the printers into the FreeFlow JMF Service:

- Invoke the **xomupddev** command to retrieve the list of updated printers from the Printer Registration application. For information on how to use the FreeFlow Printer Registration application, see the online help for that application.



- Invoke the **xomlisdev** command

This command displays the printers updated in the JMF services.

A screenshot of a Windows Command Line window. The title bar is blue and says "Command Line". The window has a black background with white text. The prompt is "C:\WINDOWS\system32>". The first command entered is "xomupdev". The second command entered is "xomlisdev". The output of the second command is "Demo, swarnamukhi x86_HOLD". The prompt is now "C:\WINDOWS\system32>".

```
C:\WINDOWS\system32>xomupdev

C:\WINDOWS\system32>xomlisdev
Demo, swarnamukhi x86_HOLD
C:\WINDOWS\system32>
```

FreeFlow JMF Service Legacy Configuration

Install JMF Service

FreeFlow JMF Service is intended to run on a single host and cannot reside with any other FreeFlow applications except Print Manager and Web Services.

Refer to section: Install JMF Service: Same server as FreeFlow Web Service.

System Check

At the Installed Products dialog, ensure that the Free Flow JMF Service check box is selected. Click **OK**.

Create Users & Groups

FreeFlow JMF Service relies on the underlying operating system security mechanism for authentication.

All authenticated users must have an account on the host on which FreeFlow JMF Service is running. Authorization is enforced through the Command Line Interface (CLI) which must reside on the same host on which FreeFlow JMF Service is running.

Refer to section:

Create Users & Groups: Same Computer as FreeFlow Web Service.

JMF Service Printer Registration

Refer to section: JMF Service Printer Registration: Same Server as FreeFlow Web Service.

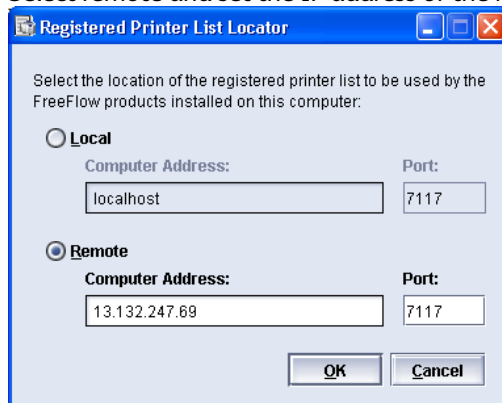
CLI Command Line Interface

Refer to section: CLI Command Line Interface: Same Server as FreeFlow Web Service.

List Locator Application for Legacy Configuration

This step is only required only for the Legacy Configuration:

1. Make sure that both computers (WS machine and JMF machine) are running under the same Windows user name and password.
2. Select Start->Programs->Xerox FreeFlow Software->Printer Administration->Registered Printer List Locator.
3. Select remote and set the IP address of the machine on which JMF Service installed.



Workflow 1: FreeFlow Web Server

Workflow 1: FreeFlow Web Server requires the following:

- Define a FreeFlow Output Device for Book Assembly print workflow.
- Create a Book Assembly Template
- Check Stock Library with Print Server Stock Library

Define a JMF Output Device for Book Assembly

To create a FreeFlow output device for FreeFlow JMF Service:

1. Select Settings > Output Devices.
2. Click **Add**; the Add Device dialog box appears.
3. In the Device Name field, type a name.
4. In the Device Group dropdown list, select **Digital**.
5. In the Machine Type dropdown list, select **FreeFlow JMF Service**.
6. Click **OK**.
7. In the Press Sheet Sizes sub-panel, select the sizes.

Note

You can change the Device Description name.

Output Channels Setup

To set up the path for the job files and Job Tickets to be transferred to the FreeFlow JMF Service after approval of a job:

1. Select the **Output Channels** tab.
2. Select the **JMF over HTTP** option button.
3. Select the Device supports multi-queue system check box.
4. In the Port field, type **7781**.

Note

Port 7781 is the FreeFlow JMF Service server's default port. If the port is changed on the FreeFlow JMF Service server it needs to be defined here respectively

- In the IP Address field, type the IP address or the server host name where FreeFlow JMF Service is installed (it is the PC Client IP for Legacy Configuration or FreeFlow Web Services IP for JMF Service co-resident with Web Service).

Note

You should NOT use localhost in place of the IP address as it will cause job transmission problems or failures. Input the IP address only.

- To enable this submission path in FreeFlow Web Services , select **Proc_DigitalPrinting_1.2_General.jdf**

In field, enter the IP address where JMF installed (Standalone-Legacy configuration or FreeFlow Web Services) Do not change the Port field

Produce JDF Output field set to: *Proc_DigitalPrinting_1.2_General*

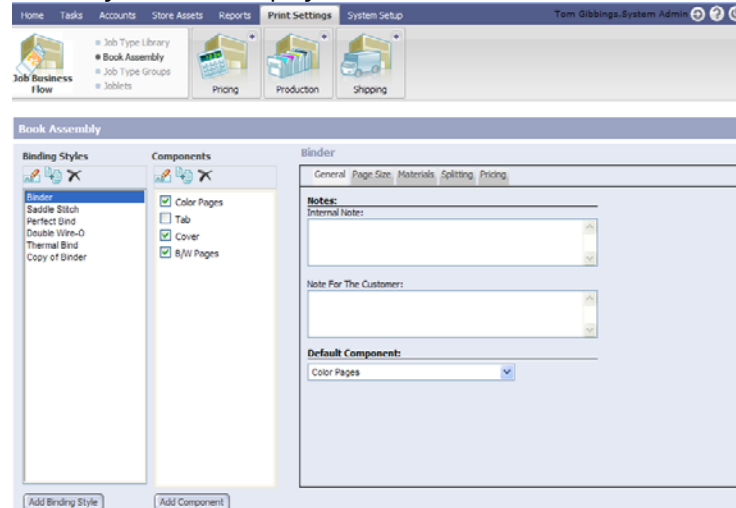
Registered Printers/Queues


Default	Name	Printer Name or IP Address	Queue Name	Model	Controller/Server
<input checked="" type="radio"/>	swamamukhsd_HOLD	13.132.247.33	swamamukhsd_HOLD	Xerox iGen3 Digital Production Press	NERQX_FREEFLOW_PRINT_J

- Click **Save**.

Create a Book Assembly Job Type

1. Duplicate the binding style
 - a. In the main menu, select Print Settings > Job Types > Book Assembly. The Book Assembly window is displayed.



- b. In the Binding Styles area, click and review the sample binding styles that come with the system. Then select the style that most resembles the one you need to create, and click .
 - c. In the dialog box that opens, assign a name to the binder style you have created (for example, My Example Binder). After the binder style is successfully duplicated, close the displayed success message.
 - d. In the Binding Styles area, select the style you just created.
 - e. In the General tab in the Binding Style definition area, specify any internal notes, notes for the customer, and select the default component (Color or B/W pages). If the binding has a spine, enter the spine details.

In the remaining tabs of the Binding Style definition area (Page Size, Materials, Splitting and Pricing), you will define the characteristics of the Book Assembly. For Saddle Stitch jobs, you should set the spine to **FIXED** and width to **0**.
2. Define the page sizes:
 - a. Select the Page Size tab, and then select the required page size check boxes (for example, A4 and A5).

Note

When selecting page sizes, you can use the Add Preview (or Edit Preview) link to define the dimensions of the binder and the position of the pages within the binder. For instructions on filling in this information, see the Print Service Provider Guide.

3. Select and price the materials. The materials are used for pricing and preview purposes. The preview added in this tab is used as the top layer in the Print Buyer's preview.
 - a. Select the Materials tab.
 - b. Define the binding material types and prices. To add a material:
 - i. Click **Add Material**
 - ii. In the row of blank fields that opens at the end of the Available Materials area, fill in material name and price.

Note

When defining binding materials, you can use the Properties link to define the properties of the binder. For instructions on filling in this information, see the Print Service Provider Guide.

4. Define component impositions.

You can define a general imposition, and then define exception impositions for parts of the book. For example, you might want the black and white pages of a booklet to be printed on one printer, the color pages on another, and the cover on yet another.

Note

You can split off color pages and black and white pages at different levels:

- You can split off (define a different imposition for) the Color Page and the B&W Page components (Split Color pages, Split B&W pages)—as indicated in substep d.
- You can split off (define a different imposition for) color pages from all components for which you specify Color Channels in the component definition—as indicated in substep e.
 - If you split off color for all components for which Color channels are defined, you can additionally split off pages that the print buyer identifies as color pages when uploading the file.

a. Select the Splitting tab.

- b. Click the **All** (Device and Imposition) button.
- c. Modify the imposition details as needed, and click **OK**.
- d. For each component that you want to “split off and define” a different imposition:
 - i. In the Binder area, click the check box for splitting the component (for example, to define a separate imposition for the Color Pages component, click the Split Color Pages check box in the Binder area).
 - ii. Click the component’s button.
 - iii. Define the imposition for the component and click **OK**.
- e. To split color pages for all components for which color pages are defined in the Color Channels tab (see Step 6).
 - i. In the Binding area, select **Split Colors (by Definition of the Print Provider according to the Color Channels)**.
 - ii. Click the Process Colors button, fill in the imposition, and click **OK**.
 - iii. Click the button, fill in the imposition, and click **OK**.
 - iv. To additionally split the color pages according to the content as defined by the Print Buyer, in the Binding area, select **Split Colors (By Content ...)**, click the Process Colors (Black & White Content) button, fill in the imposition, and click **OK**.

5. Define pricing.

Another Perfect Bind

General Page Size Materials Splitting Pricing

Price per Book Assembly unit:

Page Size	Base Price (€)	Unit Price (€)
A5	0	1
A4	0	3
letter	0	3
ledger	0	4

Book Assembly Quantity Discount:

Min	Max	Discount %	Step
1	50	0	10
50	200	15	50
200	1000	20	100
1000	infinite	22.2	500

Add Row Delete Last Row


- a. With no component selected in the Component area (if a component is selected, click the Binding Style again in the Binding area and the component will no longer be selected), click the Pricing tab.
 - b. Fill in the pricing information and click **OK**. You should set the base price and price per unit depending on page size, and discounts depending on the number of copies ordered.
6. For each component in the Binding style, define the details as follows:
- a. In the Component area:
 - i. Ensure the check box for the component is selected.
 - ii. Select the component by clicking its name (for example, Color Pages).
 - b. For each tab (General, Paper Selection, Color Channels, Finishing, and Pricing) in the definition area for the component.
 - i. Select the tab.
 - ii. Fill in the details. Note the following points:
 - When filling in the General tab for the Color Pages or B/W Pages components, you can select two sided printing; if you do not, printing will be one-sided.
 - In the Paper Selection tab, you can click **Add Paper** to add a Paper Category and a Paper type from stock.
 - In the Color Channels tab, select either **Process** or **Black & White**.
 - In the Finishing tab, select the Lamination, Texture, and number of print side.
 - In the Pricing tab, define the prices for the particular components (and discounts) that will be added to the base cost, depending on the options selected.

To add the price of the stock defined in the stock library to the price that you define here, select the **Add Paper Price** check box at the bottom of the Price per Page area.

iii. Click **OK**.

7. To add a component to the Binding style:
- a. In the Binding Styles area, select the Binding Style.
 - b. Click **Add Component**.
 - c. In the New Component dialog box, specify the component name, and select the component type (For example, to insert a transparent overlay page, call it Overlay page and select Pages).
 - d. For the component you added, perform the substeps in Step 6.

Validate the Book Assembly Job Type

1. Log in as a Print Buyer User administrator.
2. In the Order Jobs page, under Order a Book Assembly, click Start Ordering.
3. In the Book Assembly: Introduction page, click Start Printing.
4. In the Upload Files window, browse to the file(s) you want to upload, click Open, click Upload. When you have uploaded all the files, click Continue.
5. In the Define Binding Style window, select the binding style, and then set the page size (and spine width, when present) in the displayed fields. Click Continue.
6. In the Define Components window:
 - a. Use the Move Up, Move Down, Add Tabs, Add Blanks and  (Duplicate) button to arrange the book content.
 - b. Define the page type and paper for each component (file).
 - c. Preview and check the PDF.
 - d. Click **Add to Cart** and **Checkout**.
7. In the Shopping Cart window.
 - a. Specify the quantity to print.
 - b. Click **Get Quote**. Ensure that the quote is correct according to the Book Assembly definition.
 - c. Click **Proceed to Checkout**.
8. Complete the order.
9. Log back into the Print Service Provider account.
10. Click Tasks > Production and check that the job was associated with the correct output device and correct run size, and that the job was added to the queue.
11. Verify that the job contains the correct imposition and verify the job ticket details.
12. Click **Approve** to move the job to the Printing queue, and check that the file was sent to the correct output devices.

Check Stock Library

Check Stock Library with Print Server Stock Library.

Refer to Section: Stock Library Worksheet for FreeFlow Print Server & FreeFlow Web Server.

Workflow 1: FreeFlow Print Server

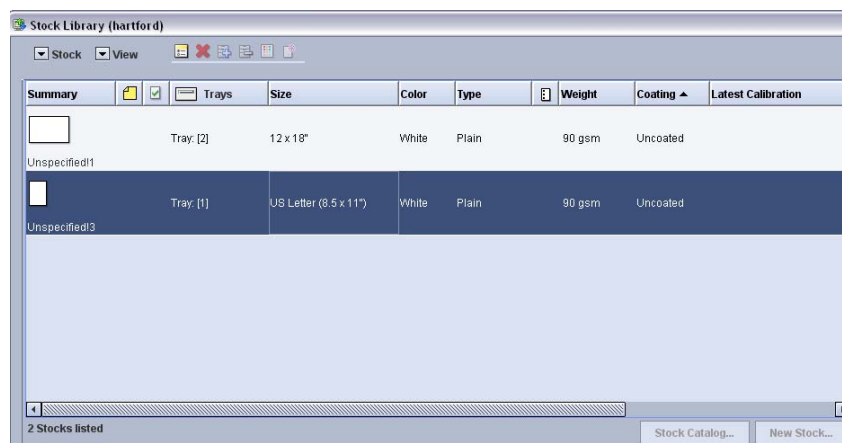
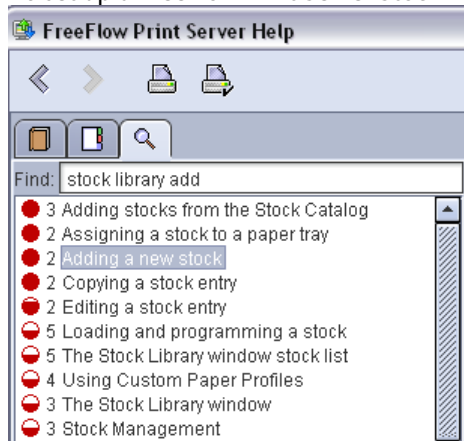
Workflow 1: FreeFlow Print Server requires the following:

- Check stock library.
- Create a FreeFlow Print Server printer queue for Book Assembly print workflow.
- Load and Check applicable stocks in Xerox printer trays.

Check FreeFlow Print Server Stock Library

Create the stock in the FreeFlow Print Server Stock Library that will be used in the FreeFlow Web Services Book Assembly Workflow for all supported segments of the Book Assembly.

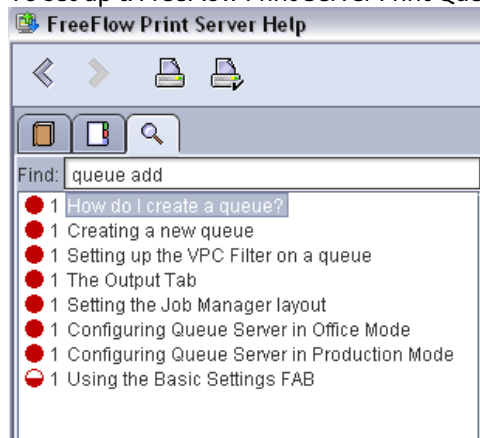
- To set up a FreeFlow Print Server Stock Library parameters, refer to the online help.



Create a FreeFlow Print Server Print Queue

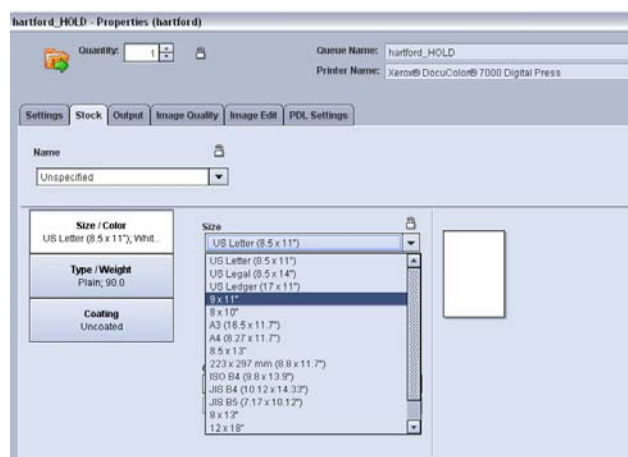
Create a Printer Queue on the FreeFlow Print Server for Book Assembly Jobs.

- To set up a FreeFlow Print Server Print Queue parameters, refer to the online help.

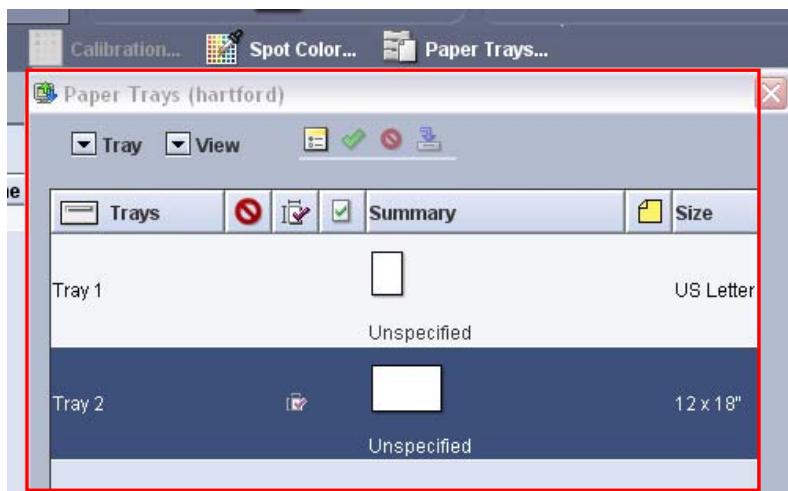
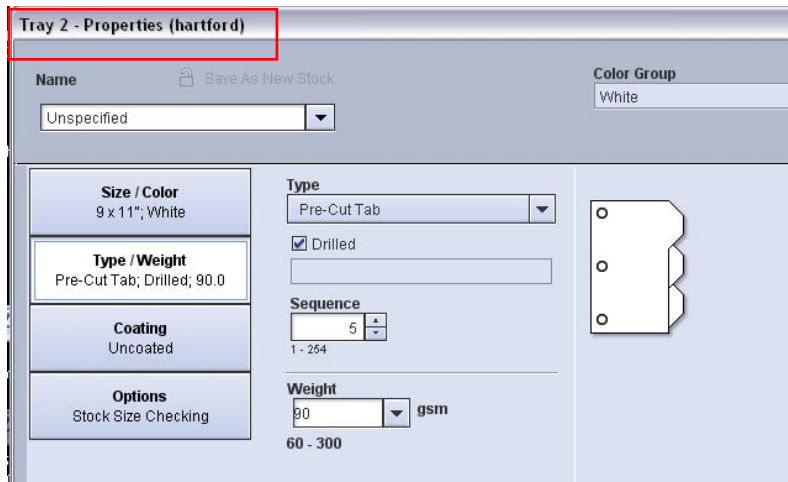


Assure that all the stocks used in the Web Services Book Assembly Workflow have been defined in both the FreeFlow Web Services Stock Library and in the FreeFlow Print Server Stock Library.

The stock selected in the window of adding a Print Queue is the default stock used for jobs that are submitted and have no stock specified. This stock is also used when the Print Queue Override is selected. A worksheet is provided in the Section: Stock Library Worksheet for FreeFlow Print Server & FreeFlow Web Server.



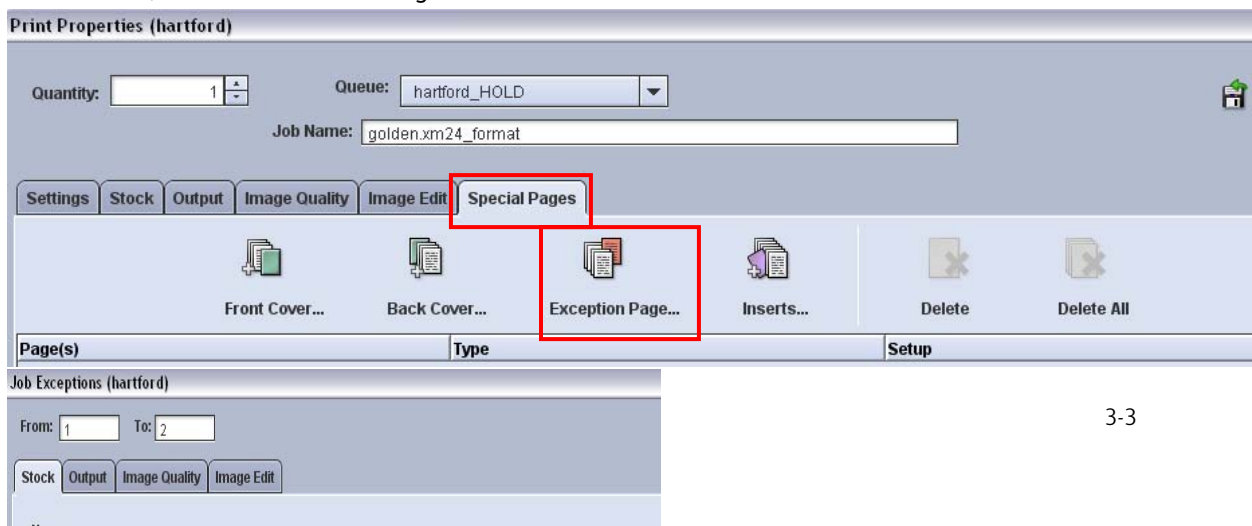
Load & Check FreeFlow Xerox Printer Trays



FreeFlow Print Server Exception Pages

All the jobs that are received from a Web Services Book Assembly workflow will appear in the FreeFlow Print Server designated Printer Queue as Exception Pages.

To see the JDF ticket properties supported on the Web Service JDF Ticket for the FreeFlow Print Server, refer to the screen image below.



Stock Library Worksheet for FreeFlow Print Server & FreeFlow Web Server

IMPORTANT NOTE:

The FreeFlow Print Server Stock Library **must** match both the Web Services Stock Library and stock assigned to the Book Assembly template.

Refer to Web Services Sections: Create a Book Assembly Job Type and FreeFlow Web Services Stock Library Fields.

To see the JDF ticket properties supported on the Web Service JDF Ticket for the FreeFlow Print Server

Refer to Section: Supported JDF Job Ticket Parameters.

FreeFlow Print Server: PS Stock Library

Web Server: WS Stock Library

Both Stock Libraries must match in Syntax	PS: name	PS: size	PS: color	PS: type	PS: weight	Print Queue Name (over-ride =off)	Xerox Printer: Tray	PS: Other info.
WS: stock item name								
WS: type								
WS: color								
WS: weight (gsm)								
WS:US weight								
WS: size								
Output Device								

Both Stock Libraries must match in Syntax	PS: name	PS: size	PS: color	PS: type	PS: weight	Print Queue Name (over-ride =off)	Xerox Printer: Tray	PS: Other info.
WS: stock item name								
WS: type								
WS: color								
WS: weight (gsm)								
WS:US weight								
WS: size								
Output Device								

Example:

FreeFlow Print Server: PS Stock Library

Web Server: WS Stock Library

Both Stock Libraries must match in Syntax	PS: name	PS: size	PS: color	PS: type	PS: weight	Print Queue Name (over-ride =off)	Xerox Printer: Tray	PS: Other info.
WS: stock item name	Test!1						Tray 1	Xerox Printer name= 8000AP_Speed y
WS: type				Plain				
WS: color			White					
WS: weight (gsm)								
WS:US weight					90 gsm			
WS: size		US letter 8.5 x 11						
Output Device						Hartford_hold		

Both Stock Libraries must match in Syntax	PS: name	PS: size	PS: color	PS: type	PS: weight	Print Queue Name (over-ride =off)	Xerox Printer: Tray	PS: Other info.
WS: stock item name	<i>Tabs</i>						<i>Tray 2</i>	Xerox Printer name= <i>8000AP_Speedy</i>
WS: type				<i>Pre-cut Tab Drilled Seq. 5</i>				
WS: color			<i>White</i>					
WS: weight (gsm)								
WS:US weight					<i>90 gsm</i>			
WS: size		<i>9.0 x 11.0</i>						
Output Device						<i>Hartford_hold</i>		

To see the JDF ticket properties supported on the Web Service JDF Ticket for the FreeFlow Print Server

Refer to section: [Supported JDF Job Ticket Parameters](#)

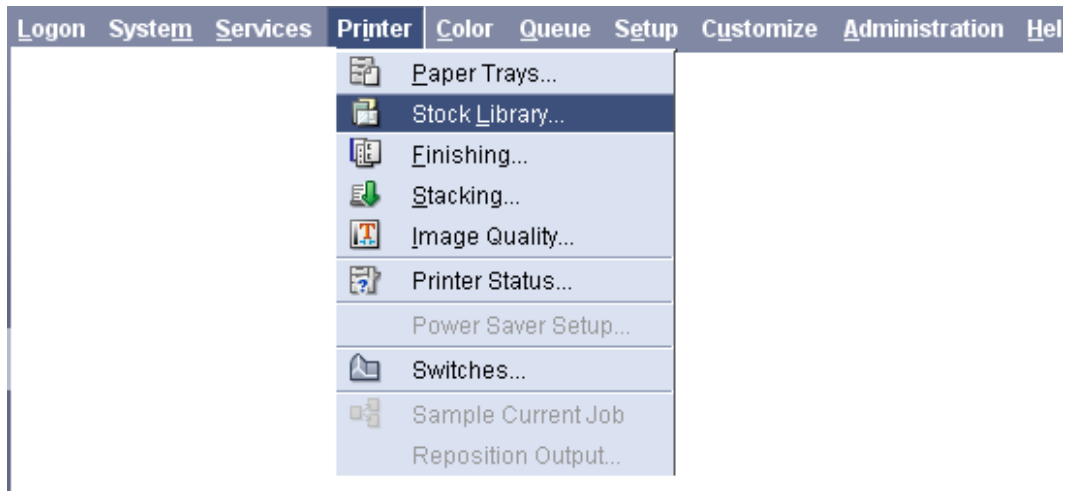
FreeFlow Web Services Stock Library Fields

Stock Library [Import Stock](#) [Export Stock](#) [Column](#)

Search:

Catalog ID	Stock Item Name	Type	Front Coating	Back Coating	Texture	Grade	Color	Weight	US Weight	In Stock	LineItemID	Cost	Cost Units	Markup	WeightUnit
stock-2	Coated;Gloss;Test-Gloss;White;150	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-3	Uncoated;Laid;Test-Laid;White;80	Paper Uncoated	Uncoated	Laid	White	80.00	A0	Yes	\$100.00	1000					
stock-3	My.Letter	Paper				150.00	letter	Yes	\$0.00	1					
stock-4	A3	Paper None				81.00	A3	Yes	\$0.00	1					
stock-5	Coated;Gloss;Test-Gloss;White;150-2	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-6	Coated;Gloss;Test-Gloss;White;150-3	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-7	Coated;Gloss;Test-Gloss;White;150-4	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-8	Coated;Gloss;Test-Gloss;White;150-5	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-9	Coated;Gloss;Test-Gloss;White;150-6	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-10	Coated;Gloss;Test-Gloss;White;150-7	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-11	Coated;Gloss;Test-Gloss;White;150-8	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-12	Coated;Gloss;Test-Gloss;White;150-9	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-13	Coated;Gloss;Test-Gloss;White;150-10	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-14	Coated;Gloss;Test-Gloss;White;150-11	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-15	Coated;Gloss;Test-Gloss;White;150-12	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-16	Coated;Gloss;Test-Gloss;White;150-13	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-17	Coated;Gloss;Test-Gloss;White;150-14	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-18	Coated;Gloss;Test-Gloss;White;150-15	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-19	Coated;Gloss;Test-Gloss;White;150-16	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-20	Coated;Gloss;Test-Gloss;White;150-17	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					
stock-21	Coated;Gloss;Test-Gloss;White;150-18	Paper Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000					

Column Name	Select
Catalog ID	<input checked="" type="checkbox"/>
Stock Item Name	<input checked="" type="checkbox"/>
Brand Name	<input type="checkbox"/>
Stock ID (internal)	<input type="checkbox"/>
Type	<input checked="" type="checkbox"/>
Vendor	<input type="checkbox"/>
Front Coating	<input checked="" type="checkbox"/>
Back Coating	<input checked="" type="checkbox"/>
Texture	<input checked="" type="checkbox"/>
Grade	<input type="checkbox"/>
Color	<input checked="" type="checkbox"/>
Weight	<input checked="" type="checkbox"/>
US Weight	<input type="checkbox"/>
Size	<input checked="" type="checkbox"/>
Thickness(ppi)	<input type="checkbox"/>
In Stock	<input checked="" type="checkbox"/>
LineItemID	<input type="checkbox"/>
Cost	<input checked="" type="checkbox"/>
Cost Units	<input checked="" type="checkbox"/>
Markup	<input checked="" type="checkbox"/>
WeightUnit	<input type="checkbox"/>



Stock Library (hartford)

Stock View

Summary	Trays	Size	Color	Type	Weight	Coating	Latest Calibration	Color Group	Profile Name
Jeanette		US Letter (8.5 x 11")	White	Plain	90 gsm	Uncoated	1/12/09 1:29 PM, 2...	White	Jeanette
Jeanette2		US Letter (8.5 x 11")	White	Plain	90 gsm	Uncoated	1/12/09 1:29 PM, 2...	White	Jeanette
Test1	Tray: [1]	US Letter (8.5 x 11")	White	Plain	90 gsm	Uncoated	1/12/09 1:29 PM, 2...	White	Jeanette
Test		9 x 11"	White	Pre-Cut Tab	90 gsm	Uncoated	1/12/09 1:29 PM, 2...	White	Jeanette
Unspecified2	Tray: [2]	12 x 18"	White	Plain	90 gsm	Uncoated	1/12/09 1:29 PM, 2...	White	Jeanette

Workflow 2: Output Manager Print Workflow

Select a Web Services Book Assembly Print Workflow:

Workflow 2: FreeFlow Output Manager Workflow: Two options that are supported by the Book Assembly workflow:

- FreeFlow Output Manager: Configure print queue on the FreeFlow Output Manager

In both printing workflows the JDF ticket with the job properties associated with Book Assembly is routed to the FreeFlow Print Server (DFE). JMF messaging is used to communicate the status of the job through the printing workflow back to Web Services Production Queue.

1. Click **Queue Manager**.

Queue Name	Jobs in Queue	Accepting	Releasing	Release Jobs At	Hold New Jobs	Bypass	Default Split/Maximum	Retain Job
BA_E2E_DC700	0	Yes	Yes	--	--	--	--	--
BA_Gen3_E2E	0	Yes	Yes	--	--	--	--	--
BA_Gen4_E2E	1	Yes	Yes	--	--	--	--	--
BA_Nuvera_Hold	0	Yes	Yes	--	--	--	--	--
Color_Split	0	Yes	Yes	--	--	--	By Color / 2	--
DC_Load_Balance	0	Yes	Yes	--	--	--	By Quantity / 20000	--
E2E_Dallas_OM	0	Yes	Yes	--	--	--	--	--
E2E_OM	1	Yes	Yes	--	--	--	--	59 Minute(s)
E2E_SF_OM	0	Yes	Yes	--	--	--	--	--
iGen4_Demo	0	Yes	Yes	--	--	--	--	--
ksda_EK260	0	No	No	--	--	--	--	--
Legal_Brief	0	Yes	No	--	--	--	--	--
Syllabus-2sided	0	Yes	No	--	--	--	--	--

2. New Queue. In the next window type a name in the Queue Name field.

New Queue

You will be guided through the steps to create a new queue in Output Manager

Queue Name > Job Split Selection > Associated Printers > Job Split Limits > Values from Printers > Properties

Queue Name:

The name for this queue will appear in Output Manager. The queue name may not be changed. However, properties of the queue may be edited at any time.

3. Click **Next** and select the required printer for Associated Printers. Click **Next**.

New Queue

Printers may be associated with this queue. These associations may be changed at a later time.
Queue Name > Job Split Selection > **Associated Printers** > Job Split Limits > Values from Printers > Properties

Selecting All Printers in System will associate this queue with all Output Manager defined printers, even those added later.
Primary printers are used by Output Manager on a regular basis. Standby printers are used only when the primary printers are not available.

Associated Printers: ☐ All Printers in the System
☒ Selected Printers

Associated Printers			Primary
<input checked="" type="checkbox"/> sparshax86_HOLD	C,P	<input checked="" type="radio"/>	Standby
<input type="checkbox"/> swarnamukhix86_HOLD	C,P	<input type="radio"/>	

*C = Supports Color
I = Supports Interposer
P = Supports Page Range

Cancel Back Next

QUEUE STATE

Accepting Jobs: ☒ Yes
☐ No

Releasing Jobs: ☒ Yes
☐ No
Release At:

Jobs in Queue: 0
Date Created: January 2, 2009 6:44:32 PM

Job Processing Options

Jobs Processing by System: ☒ Allow
☐ Bypass

Printer Requested: [Printer Default]

Preprocessing Program: Default
☐ Supported
☒ Printer Default
☐ xompdlna.bat

Check Printers for Capability Match: ☐ Yes (Slower, More Accurate)
☒ No (Faster, Less Accurate)

Assign Jobs: ☒ To Next Printer
☐ To Least Busy Printer by Page Count
☐ To Least Busy Printer by Job Count

Schedule Jobs at Printer: ☒ First In, First Out
☐ By Priority
Priority Default:

Cancel Back Next

4. Click **Create Queue**
5. Click **Edit Queue Properties**
6. Under Basic Properties, select **Yes** in the Accepting Jobs and Release jobs fields
7. Select the Xompdlna.bat check box and select the Preprocessing Program option, under Job Processing Options
8. Select the **Supported** check box and in the Keep Completed jobs fields for Minimum, Maximum and Default options, respectively, select 3 days.

Job Size Limits (Pages): ☐ Supported:
Minimum: Maximum:

Job Proof: ☐ Supported
Default:

Job Split Method: Default
☐ Supported
☒ Printer Default
☐ None
☐ By Best Method
☐ By Document
☐ By Quantity

Job Cannot be Split By Specified Method: ☐ Print Job on One Printer
☐ Hold Job

Maximum Job Splits:

Enable Splits if Job Contains: Minimum Quantity:

Keep Completed Jobs: ☒ Supported
(0 Minute - 30 Days)
Minimum: 3 Day(s)
Maximum: 3 Day(s)
Default: 3 Day(s)

Hold at Printer: Default
☐ Supported
☒ Printer Default
☒ On
☒ Off

Cancel Back Next

9. Under Paper Stock, type 1-254 instead of 0-254 for Order field.

The screenshot shows the 'Paper Stock' tab in the FreeFlow Web Services interface. The 'Queue Name' is 'TsetQ'. The 'View' dropdown is set to 'Value Options'. The 'Reset All', 'Apply', and 'OK' buttons are visible. The 'Paper Stock' tab is active, showing various settings. The 'Color' section has a 'Default' dropdown set to 'Supported' and a list of color options: 'Printer Default', 'Blue', 'Buff', 'Clear', and 'Goldenrod'. The 'Type' section has a 'Default' dropdown set to 'Supported' and a list of type options: 'Printer Default', 'Full Cut-Tab', 'Labels', 'Plain', and 'Pre-Cut-Tab'. The 'Order' field is highlighted with a pink oval and contains the text '1 - 254'. Below the 'Order' field, there is a 'Default' dropdown set to 'Printer Default'.

10. Click **OK** to save the changes.

Workflow 2:

FreeFlow Web Server

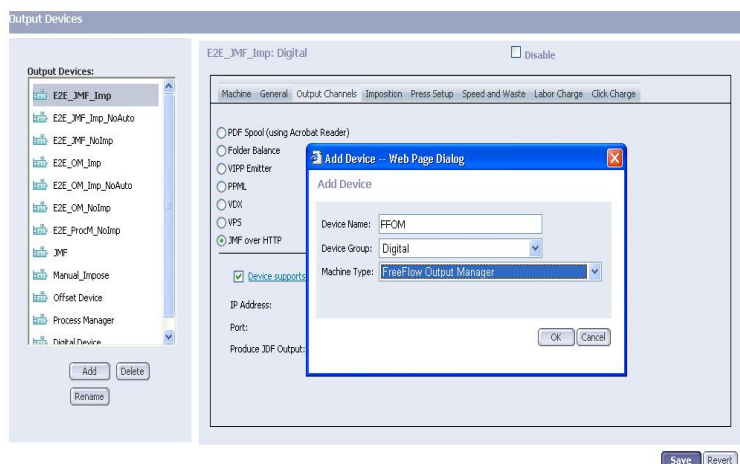
Workflow 2: FreeFlow Web Server requires the following:

- Define a FreeFlow Output Device for Book Assembly print workflow.
- Create a Book Assembly Template
- Check Stock Library with Print Server Stock Library.

Define Output Device for Book Assembly:

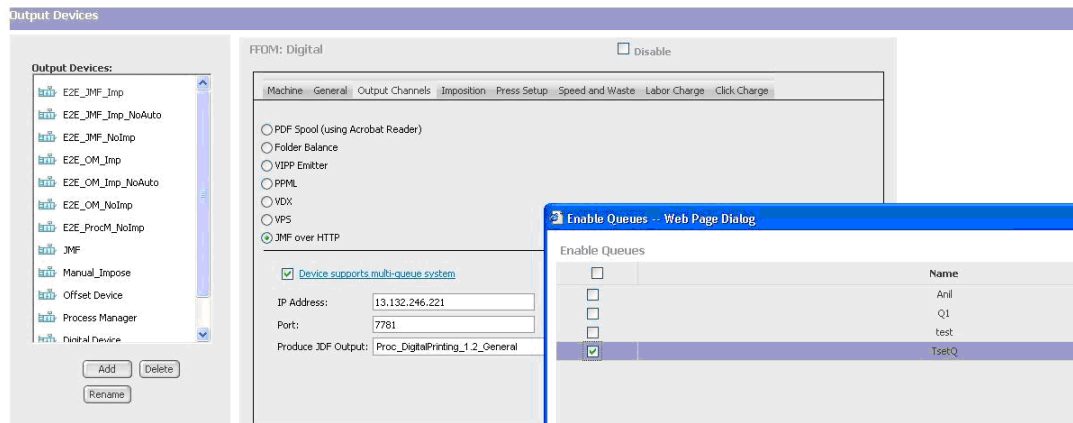
To set up the output device in the Web Services:

1. Log in as the Print Provider
 - Navigate to Print Settings-> Production-> Output Devices.
2. Create an Output Manager Output device. To add an output device, perform the following:
 - d. Click **Add**, under Output Devices
 - e. Enter values in the following fields,
 - Device Name: Any Custom Name
 - Device Group: Digital
 - Machine Type: FreeFlow Output Manager




3. Click **OK** and navigate to output channels.
4. Select **JMF over HTTP**.
5. Enter the IP address of the system on which FreeFlow Output Manager is installed.

6. In the port field, type **7781**.
7. Select **Proc_DigitalPrinting_1.2_General** option for Production JDF Output filed.
8. Click the **Device support multi queue system** link.
9. Select **Available Queues** and select the queue created above.



Create a Book Assembly Template

1. Create the template.
 - a. In the main menu, select Accounts > Store Setup > Templates.
 - b. In the Accounts area, select the Print Buyer account for which you are creating the template.
 - c. In the template list area, click the **Create a New Book Assembly Template** link. The Upload Files window is displayed.
2. Upload the files.
 - a. In the Upload Files window, click **Browse...**, choose a file that will be in the book, and click **Open**.
 - b. Click **Upload** to add the file to the book. The file will be listed in Uploaded Files list on the right.
 - c. Repeat this process to add other files (for example, cover file, other book files).
 - d. Click **Continue**.
The Define Binding window is displayed.
3. Define the binding style.
 - a. In the Define Binding Style window, select the required Binding style (e.g., Binder), and where relevant, Material (e.g., 1.5 inch D-Ring), Book Assembly Size (e.g., A4), and the Spine Width (e.g., 0.050).
 - b. Click **Continue**.
The Define Components window is displayed. This window lists and displays a graphic of the first page of the file you uploaded.

4. Define the components. For any component (uploaded file) you select in the left side of the window, the default values for the page Type and Paper are displayed in the Changer Properties for selected pages area on the right side of the window.
 - a. To alter page type and paper values for the component, select the component, and select the page type and paper values. If one of the components is a cover, select the component, and select Cover as the page type
 - b. To alter the page type and paper values for specific pages in the file.
 - i. Select the component.
 - ii. In the Select Pages text box, type the page numbers for which you want to define a common page and paper type.
 - iii. Click **Select**.
 - iv. Select the page type and paper type for those pages (for example, B/W pages with Standard Quality) in the Changer Properties for selected pages area.
 - v. Click **Apply**. The component is listed in the left side of the screen.
 - vi. Repeat sub Step b for all sets of pages for which you want to define separate page and paper types.
 - c. Perform adjustments to the components (sets of file pages) in the book, as needed:
 - To duplicate a component, select the component, and click  (Duplicate).
 - To change the location of a component in the book, select the component and click the Move Up or Move Down buttons as needed.
 - To add tabs to a component, select the component, click **Add Tabs**, define the tab specifications in the Add Tabs dialog box, and click **OK**.
 - To add blank pages to a component, select the component, click **Add Blanks**, define the blank page specifications in the Add Blank Pages dialog box, and click **OK**.
 - d. Click **Continue**. The Save as Template window is displayed.
5. Complete the template definition.
 - a. In the Save as Template window, specify a template name (title), and fill in the other template details.
 - b. Specify the folder in which the template should be created.
 - c. Click **Finish**.

Book Assembly template creation is complete

Validate the Book Assembly Template

1. Log in as a Print Buyer user.
2. Select the template and add the order to your shopping cart.
3. In the Shopping Cart window.
 - a. Specify the quantity to print.
 - b. Click **Get Quote**. Ensure that the quote is correct according to the Book Assembly definition.
 - c. Click **Proceed to Checkout**.
4. Complete the order.
5. Log back into the Print Service Provider account.
6. Click Tasks > Production and check that the job was added to the queue.
7. Verify that the job contains the correct imposition and verify the job ticket details.
8. Click **Approve** to move the job to the Printing queue, and check that the job was sent to the correct output devices.

Check Stock Library

Check Stock Library with Print Server Stock Library.

Refer to Section: Stock Library Worksheet for FreeFlow Print Server & FreeFlow Web Server.

Workflow 2: FreeFlow Print Server

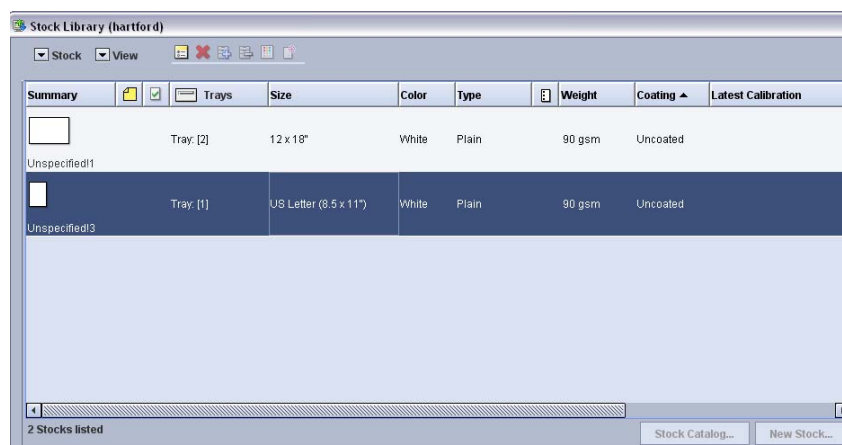
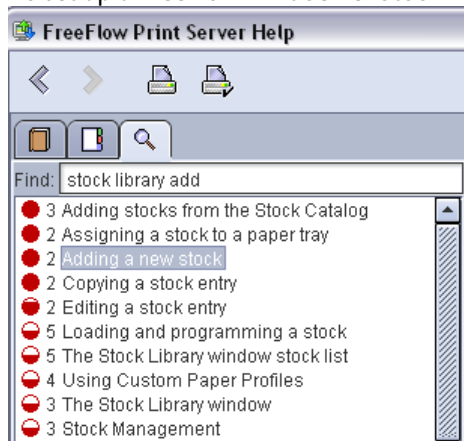
Workflow 2: FreeFlow Print Server requires the following:

- Define a FreeFlow Output Device for Book Assembly print workflow.
- Create a Book Assembly Template
- Check Stock Library with Print Server Stock Library.

Check FreeFlow Print Server Stock Library

Create the stock in the FreeFlow Print Server Stock Library that will be used in the FreeFlow Web Services Book Assembly Workflow for all supported segments of the Book Assembly.

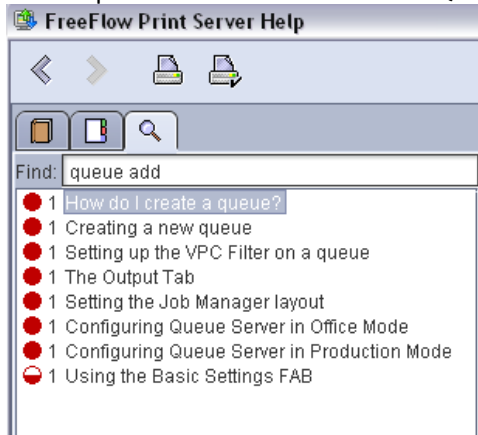
- To set up a FreeFlow Print Server Stock Library parameters, refer to the online help.



Create a FreeFlow Print Server Print Queue

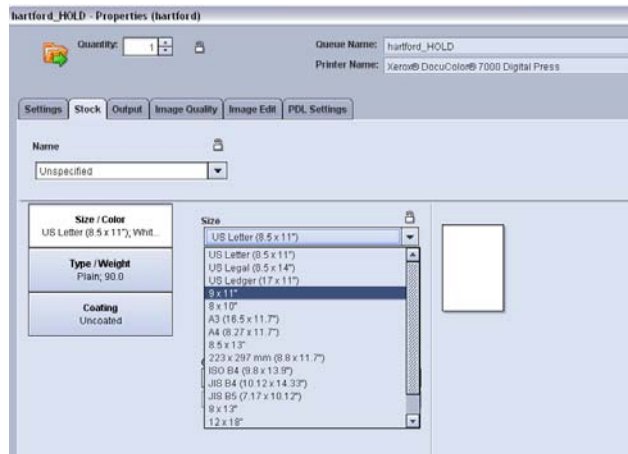
Create a Printer Queue on the FreeFlow Print Server for Book Assembly Jobs.

- To set up a FreeFlow Print Server Print Queue parameters, refer to the online help.

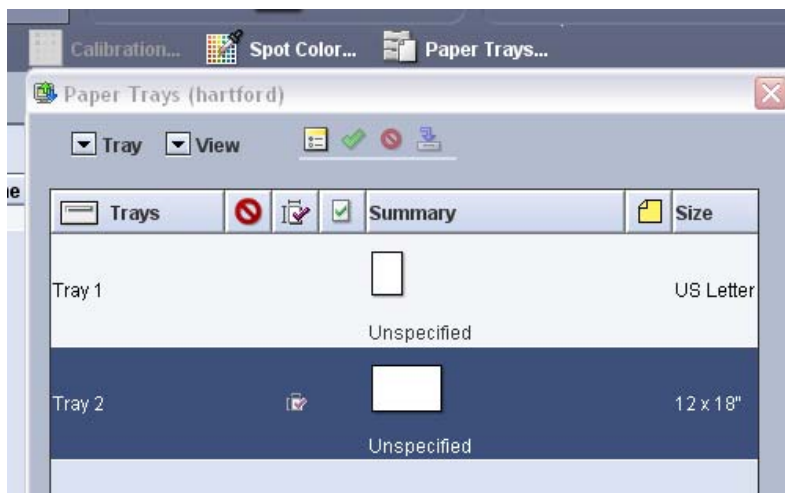


Make sure that all the stocks used in the Web Services Book Assembly Workflow have been defined in both the FreeFlow Web Services Stock Library and FreeFlow Print Server Stock Library.

The stock selected in the window of adding a Print Queue is the default stock used for jobs that are submitted and do not have a stock specified. This stock is also used when the Print Queue Override is selected. A worksheet is provided in Section: Stock Library Worksheet for FreeFlow Print Server & FreeFlow Web Server.



Load & Check FreeFlow Xerox Printer Trays



FreeFlow Print Server Exception Pages

Print Properties (hartford)

Quantity: Queue: hartford_HOLD
Job Name: golden.xml24_format

Settings Stock Output Image Quality Image Edit **Special Pages**

Front Cover... Back Cover... **Exception Page...** Inserts... Delete Delete All

Job Exceptions (hartford)

From: 1 To: 2

Stock Output Image Quality Image Edit

Name: Test

Size / Color: 9 x 11", White

Type / Weight: Pre-Cut Tab; Drilled; 90.0

Coating: Uncoated

Coating: **Uncoated**

Weight: 80 gsm

Type: Pre-Cut Tab

Drilled

Sequence: 5

Print Properties (hartford)

Quantity: Queue: hartford_HOLD
Job Name: golden.xml24_format

Settings Stock Output Image Quality Image Edit **Special Pages**

Front Cover... Back Cover... **Exception Page...** Inserts... Delete Delete All

Page(s)	Type	Setup
1 - 2	Exception	9 x 11"; Pre-Cut Tab (5); Drilled

Stock Library Worksheet for FreeFlow Print Server & FreeFlow Web Server

The FreeFlow Print Server Stock Library must match both the Web Services Stock Library and Stock assigned to the Book Assembly template.

Refer to Web Services sections: Create a Book Assembly Template and FreeFlow Web Services Stock Library Fields.

FreeFlow Print Server: PS Stock Library

Web Server: WS Stock Library

Both Stock Libraries must match in Syntax	PS: name	PS: size	PS: color	PS: type	PS: weight	Print Queue Name (over-ride =off)	Xerox Printer: Tray	PS: Other info.
WS: stock item name								
WS: type								
WS: color								
WS: weight (gsm)								
WS:US weight								
WS: size								
Output Device								

Both Stock Libraries must match in Syntax	PS: name	PS: size	PS: color	PS: type	PS: weight	Print Queue Name (over-ride =off)	Xerox Printer: Tray	PS: Other info.
WS: stock item name								
WS: type								
WS: color								
WS: weight (gsm)								
WS:US weight								
WS: size								
Output Device								

Example:




FreeFlow Print Server: PS Stock Library

Web Server: WS Stock Library

Both Stock Libraries must match in Syntax	PS: name	PS: size	PS: color	PS: type	PS: weight	Print Queue Name (over-ride =off)	Xerox Printer: Tray	PS: Other info.
WS: stock item name	Test!1						Tray 1	Xerox Printer name= 8000AP_Speedy
WS: type				Plain				
WS: color			White					
WS: weight (gsm)								
WS:US weight					90 gsm			
WS: size		US letter 8.5 x 11						
Output Device						Hartford_hold		

Both Stock Libraries must match in Syntax	PS: name	PS: size	PS: color	PS: type	PS: weight	Print Queue Name (over-ride =off)	Xerox Printer: Tray	PS: Other info.
WS: stock item name	<i>Tabs</i>						<i>Tray 2</i>	<i>Xerox Printer name= 8000AP_Speedy</i>
WS: type				<i>Pre-cut Tab Drilled Seq. 5</i>				
WS: color			<i>White</i>					
WS: weight (gsm)								
WS:US weight					<i>90 gsm</i>			
WS: size		<i>9.0 x 11.0</i>						
Output Device						<i>Hartford_hold</i>		

FreeFlow Web Services Stock Library Fields

Stock Library  [Import Stock](#)  [Export Stock](#)  [Columns](#)

Search:

Catalog ID	Stock Item Name	Type	Front Coating	Back Coating	Texture	Color	Weight	Size	In Stock	Cost	Cost Units
stock-2	Coated;Gloss;Test-Gloss;White;150	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-2	Uncoated;Laid;Test-Laid;White;80	Paper Uncoated	Uncoated	Uncoated	Laid	White	80.00	A0	Yes	\$100.00	1000
stock-3	My.Letter	Paper					150.00	letter	Yes	\$0.00	1
stock-4	A3	Paper None					81.00	A3	Yes	\$0.00	1
stock-5	Coated;Gloss;Test-Gloss;White;150-2	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-6	Coated;Gloss;Test-Gloss;White;150-3	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-7	Coated;Gloss;Test-Gloss;White;150-4	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-8	Coated;Gloss;Test-Gloss;White;150-5	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-9	Coated;Gloss;Test-Gloss;White;150-6	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-10	Coated;Gloss;Test-Gloss;White;150-7	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-11	Coated;Gloss;Test-Gloss;White;150-8	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-12	Coated;Gloss;Test-Gloss;White;150-9	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-13	Coated;Gloss;Test-Gloss;White;150-10	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-14	Coated;Gloss;Test-Gloss;White;150-11	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-15	Coated;Gloss;Test-Gloss;White;150-12	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-16	Coated;Gloss;Test-Gloss;White;150-13	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-17	Coated;Gloss;Test-Gloss;White;150-14	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-18	Coated;Gloss;Test-Gloss;White;150-15	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-19	Coated;Gloss;Test-Gloss;White;150-16	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-20	Coated;Gloss;Test-Gloss;White;150-17	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000
stock-21	Coated;Gloss;Test-Gloss;White;150-18	Paper Coated	Coated	Coated	Gloss	White	150.00	A0	Yes	\$100.00	1000

Column Name	Select
Catalog ID	<input checked="" type="checkbox"/>
Stock Item Name	<input checked="" type="checkbox"/>
Brand Name	<input type="checkbox"/>
Stock ID (internal)	<input type="checkbox"/>
Type	<input checked="" type="checkbox"/>
Vendor	<input type="checkbox"/>
Front Coating	<input checked="" type="checkbox"/>
Back Coating	<input checked="" type="checkbox"/>
Texture	<input checked="" type="checkbox"/>
Grade	<input type="checkbox"/>
Color	<input checked="" type="checkbox"/>
Weight	<input checked="" type="checkbox"/>
US Weight	<input type="checkbox"/>
Size	<input checked="" type="checkbox"/>
Thickness(ppi)	<input type="checkbox"/>
In Stock	<input checked="" type="checkbox"/>
LineItemID	<input type="checkbox"/>
Cost	<input checked="" type="checkbox"/>
Cost Units	<input checked="" type="checkbox"/>
Markup	<input checked="" type="checkbox"/>
WeightUnit	<input type="checkbox"/>

NewPrintProvider - Windows Internet Explorer

http://localhost/WS/

Webpage Dialog

Edit Item: tabstock

StockID: 15

Stock Item Name: tabstock

Catalog ID: stock-15

☒ In Stock

Brand Name: Test-Gloss [Edit List](#)

Type: Paper [Edit List](#)

Vendor: [Edit List](#)

Front Coating: [Edit List](#)

Back Coating: [Edit List](#)

Texture: [Edit List](#)

Grade: Uncoated, white paper [Edit List](#)

Color: White [Edit List](#)

Weight: 90.00 gm

US Weight: 0.00 lbs

Size: 8 x 11

Thickness: 0 PPI (Paper per inch)

Type Details: Pre-Cut Tab [Edit List](#)

Media Set Count: ☐ Not applicable ☒ 5 Units

Line Item # 1763, Type: Paper, Description: Paper: New Paper

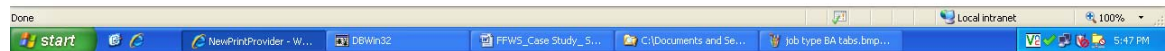
☐ Use markup

From	To	Fixed	Variable	Unit
1	Infinity	Cost	Cost	Parent sheets
		Price	Price	per 1 Parent sheets

Note: Fields marked by a red asterisk (*) are mandatory.

OK Cancel

http://localhost/NewsWay/ASPX/StockLibrary2/ModalForms/EditItem.aspx?__LoadFrame=True&__Scrolling=True








Logon System Services **Printer** Color Queue Setup Customize Administration Hel

- Paper Trays...
- Stock Library...
- Finishing...
- Stacking...
- Image Quality...
- Printer Status...
- Power Saver Setup...
- Switches...
- Sample Current Job
- Reposition Output...

Stock Library (hartford)

Stock View

Summary	Trays	Size	Color	Type	Weight	Coating	Latest Calibration	Color Group	Profile Name
 Jeanette		US Letter (8.5 x 11")	White	Plain	90 gsm	Uncoated	1/12/09 1:29 PM, 2...	White	Jeanette
 Jeanette2		US Letter (8.5 x 11")	White	Plain	90 gsm	Uncoated	1/12/09 1:29 PM, 2...	White	Jeanette
 Test1	Tray: [1]	US Letter (8.5 x 11")	White	Plain	90 gsm	Uncoated	1/12/09 1:29 PM, 2...	White	Jeanette
 Test		9 x 11"	White	Pre-Cut Tab	90 gsm	Uncoated	1/12/09 1:29 PM, 2...	White	Jeanette
 Unspecified2	Tray: [2]	12 x 18"	White	Plain	90 gsm	Uncoated	1/12/09 1:29 PM, 2...	White	Jeanette

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Use Case Samples

7

There are many ways to setup and use the Book Assembly module in FreeFlow Web Services. Included are the setup directions for 1 common scenario:

- Saddle Stitched Booklet

To take full advantage of the job ticketing feature, we will use either FreeFlow JMF Service or FreeFlow Output Manager to pass a JDF job ticket to the FreeFlow Print Server. There are sections later in this chapter that cover the setup procedures for JMF Service and Output Manager.

Saddle Stitched Booklet

It is quite common for customers to upload 8.5x11 documents to be imposed onto 11x17 sheets which are then stitched and folded to a final size of 8.5x11. In this scenario, we upload 2 or more documents, specify the page for the front cover file, and submit the job. Imposition is done in Web Services before transferring the job to either JMF Service or Output Manager.

1. Log into FreeFlow Web Services as a Print Service Provider.
2. Navigate to Print Settings > Production > Paper Sizes.
3. Make sure the 11x17 paper size is listed. If not, select **New Size** and enter a Name: 11x17, Width: 11, Height: 17 and select **Save**.
4. Navigate to Print Settings > Production > Stock Library. Configure the required stocks in both your printer and Web Services stock library. Create two stocks like below: (the names must match what is defined in YOUR printer's stock library):

Saddle Stitched Cover	Saddle Stitched Guts
Name: Cover ! 11x17	Name: Standard ! 11x17
Size: 11x17	Size: 11x17
Color: White	Color: White
Type: Plain	Type: Plain
Weight: 220 GSM	Weight: 90 GSM

Web Page Dialog

Edit Item: Cover ! 11x17 StockID: 17

Stock Item Name:

Catalog ID:

☒ In Stock

Brand Name: [Edit List](#)

Type: [Edit List](#)

Vendor: [Edit List](#)

Front Coating: [Edit List](#)

Back Coating: [Edit List](#)

Texture: [Edit List](#)

Grade: [Edit List](#)

Color: [Edit List](#)

* Weight: gsm

US Weight: lbs

Size:

Thickness: PPI (Paper per inch)

Type Details: [Edit List](#)

Media Set Count: ☒ Not applicable ☐ Units

5. Select Print Settings > Job Business Flow > Book Assembly > Saddle Stitch.

Binding Styles

- Binder
- Saddle Stitch**
- Perfect Bind
- Double Wire-O
- Thermal Bind

Components

- ☒ Color Pages 2 sides
- ☐ Tab
- ☐ Cover
- ☐ B/W Pages 2 sides
- ☐ Front Cover
- ☐ Back Cover
- ☐ Color pages 1 side
- ☐ B/W pages one side
- ☒ Saddle Stitch Cover
- ☐ Binder Slip
- ☐ PPT Body
- ☐ PPT Cover

Saddle Stitch

General Page Size Materials Splitting Pricing

Notes:

Internal Note:

Note For The Customer:

Spine:

Width: Inches

Default Component:

6. Under the General tab, Under Spine: Select **Fixed** and set the Width: **0**.
7. Select the Splitting tab and deselect the Split options (below).

Binding Styles

- Binder
- Saddle Stitch**
- Perfect Bind
- Double Wire-O
- Thermal Bind

Components

- ☒ Color Pages 2 sides
- ☐ Tab
- ☐ Cover
- ☐ B/W Pages 2 sides
- ☐ Front Cover
- ☐ Back Cover
- ☐ Color pages 1 side
- ☐ B/W pages one side
- ☐ Saddle Stitch Cover

Saddle Stitch

General Page Size Materials **Splitting** Pricing

☐ Split Color Pages 2 sides

☐ Split Colors (By Definition of the Print Provider according to the Color Channels)

☐ Split Colors (By Content exclude B/W pages from Color component)

Blank Pages:

Summary:

All

Note

You only need to split these sections if the Printer (Output Device) does not support the different stocks that will be defined for Saddle Stitched booklets in the upcoming steps. When splitting, the sections of the booklet are printed separately.

8. Select the Edit Imposition icon under the word Summary.

9. Select a previously defined Output Device (e.g. DC700_JMF_SS) that uses the JDF Process: Proc_DigitalPrinting_1.2_General. (This output device should have the 11x17 page size enabled).
10. Program the imposition as follows:
 - Press Sheet Size: 11x17, Orientation: Landscape, Imposition Method: Multiple-Up, Work Style: Work And Back (Top-Top 2 plates), Page Order: Saddle-Stitched.

11. Click **OK**.
12. Select the Page Size tab.
13. Make sure the **8.5x11** and **11x17** checkboxes are selected.

Note

The Page sizes defined above are what show up as options to the Print Buyer during Book Assembly.

14. Under Components, select **Color Pages 2 sides**.

Note

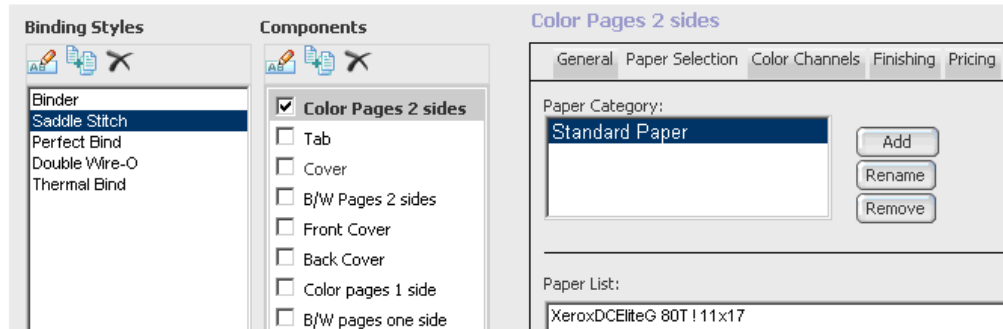
The components that are defined can be used for ALL Book Assembly jobs. As such, it is suggested to create individual components for each Book Assembly type. This will reduce confusion for the Print Buyer as it will keep them from selecting options that do not apply to the Book Assembly job type.

15. Make sure the checkbox for **Two Sides** is selected to allow duplex printing on this stock.

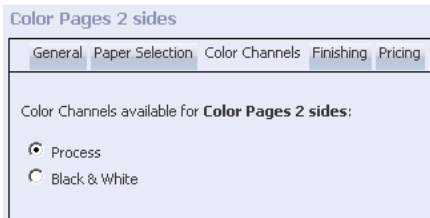
Note

There are 3 kinds of Components: Pages, Tabs, Cover. When you use different Component Types in one job it has significant impact on the workflow. Each component type will get imposed separately. So with a Saddle Stitched booklet, if you use a Component type: Cover, then those pages will be imposed first and then the next component type (i.e.: Pages) will be imposed. This can explain why you may not get the final expected imposed results.

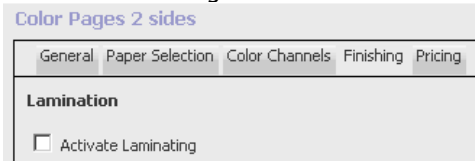
16. Select the Paper Selection tab.



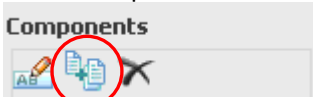
17. Create a Paper Category for the customer to choose from (You can have several). The name of this category appears in the Paper Selection drop down for the Print Buyer. Some of the categories that might appear: Uncoated, Glossy, Standard, High Quality, etc.
18. Click the **Add Paper** button under the Paper List. Select a stock from the Web Services Stock Library. Make sure it is the 11x17 size. This will link a stock to a specific Paper Category.
19. Select the Color Channels tab. Select **Process** to allow Color.



20. Select the Finishing tab. Clear the **Activate Laminating** checkbox.



21. Click **Save**.
22. Under Components, with the Color Pages 2 sides highlighted, click the Duplicate icon.



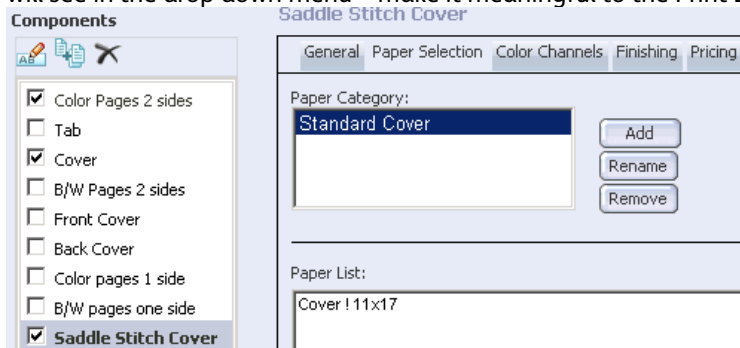
23. Name the new Component: Saddle Stitch Cover.

Note

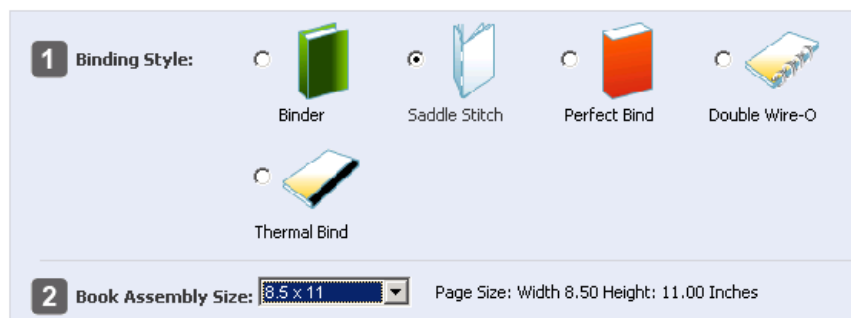
By duplicating the Color Pages 2 sides component, we are creating a Component Type of Pages which we are only naming as a cover. This allows us to impose the entire job together (same component types) while allowing page exceptions for a heavy weight stock. If you create a new Component Type of Cover then it will break apart the job during imposition.

24. Select the new Saddle Stitch Cover component and then the Paper Selection tab.

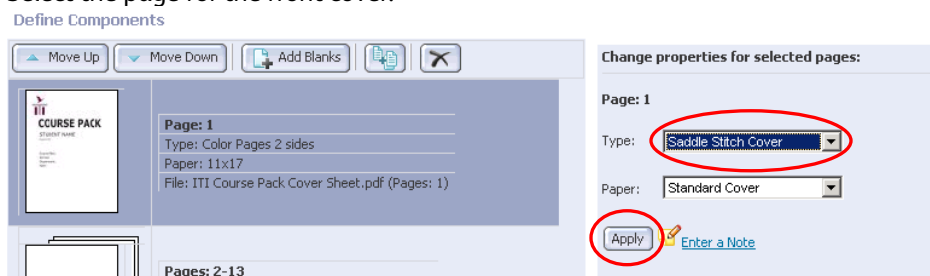
25. Rename the Paper Category to Standard Cover. Remember this is what the Print Buyer will see in the drop down menu – make it meaningful to the Print Buyer.



26. Under the Paper List, highlight the existing stock and click **Remove Paper**.
27. Click **Add Paper** and choose a heavy weight 11x17 cover stock from the Stock Library.
28. Click **Save**.
29. Log in to Web Services as a Print Buyer to a site that has Book Assembly ordering. (Like the test account).
30. Select Order a Book Assembly job and click **Start Printing**.
31. Select **Browse**, choose a cover file, and click **Upload**.
32. Select **Browse**, choose a file for the main book file and click **Upload**.
33. Click **Continue**.
34. Select the **Saddle Stitch** radio button and **8.5x11** or **Letter** for the Book Assembly size.

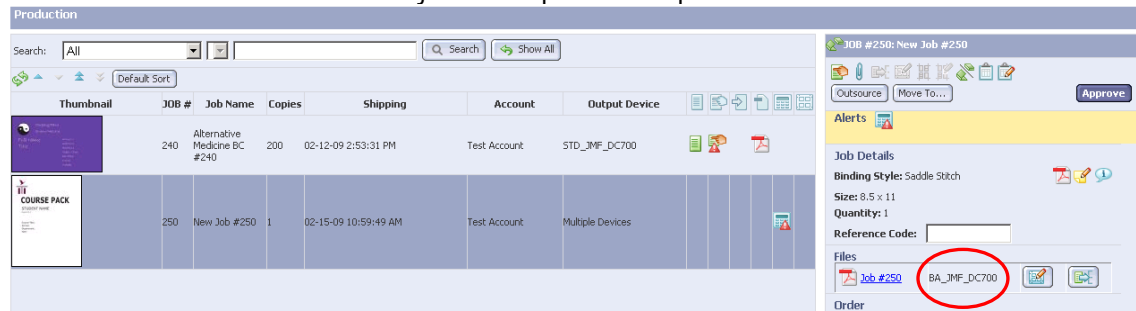


35. Click **Continue**.
36. Select the page for the front cover.



37. Under Change properties for selected pages: Select the **Saddle Stitch Cover** type and click **Apply**.
38. All the other pages should default to: Color Pages 2 sides.
39. (Optional) Click **PDF Preview**.
40. Click **Add to Cart and Checkout**. Complete the checkout process.
41. Log in to Web Services as the Print Provider.

42. Select Tasks > Production to show all jobs in the production queue.



43. Notice the Output Device above in red.
44. Select the **Device and Imposition** button to check and update the settings. For the purposes of this scenario, change the Output Device to DC700_JMF_SS and reset the imposition as defined earlier in step 6.
45. Click **OK**.

Note

After changing the Device and Imposition settings, the job will disappear from the Production Queue. You need to manually refresh the window by clicking Show All or the Refresh icon.

46. Select **Approve**. The job will be submitted to the specified Output Device via JMF.
47. Select Tasks > Printing. This will show jobs submitted to print and their status.
48. The status icons look like these:



49. If you see the icon with the Arrow and Red exclamation there has been an internal error. You may need to recheck your JMF setup or there is a communications error.

Note

Due to the JMF Service being a command line application, it can be difficult to troubleshoot files not arriving at the Output Device. It is usually easier to rebuild and re-sync the JMF printers than to troubleshoot it. The re-sync process (xomuppdev) does not take effect for printers that have active jobs in them through JMF submission. This is documented in the FreeFlow JMF Service User Guide 701P48823 in section 1.4.1.

50. If you are submitting the job through Output Manager, log in to Output Manager.
51. Select the Job Manager tab. Select the new job and click **View Job Properties**. You should see the job ticketing under the Output and Special Pages areas.
52. Check the FreeFlow Print Server for the job. The following information should have made it to the printer: Job Name and #, Quantity, Saddle Stitched, Special Pages. Job should be 11x17. You can check this by right clicking on the job and selecting Properties and then the Special Pages tab. The Saddle Stitched imposition should appear under the Stapling / Finishing area and will probably read "Bi-Fold Stapled Multiple Sheets". If your printer does not support Saddle Stitch then this information will be lost / ignored.

Additional Setup procedures

The following sections describe the setup procedures for FreeFlow JMF Service and FreeFlow Output Manager.

FreeFlow JMF Service Setup

Note

The JMF Service can accept either JDF Intent or JDF Process jobs from Web Services. Book Assembly jobs should only use the JDF Process which is shown in Web Services as: Proc_DigitalPrinting_1.2_General.

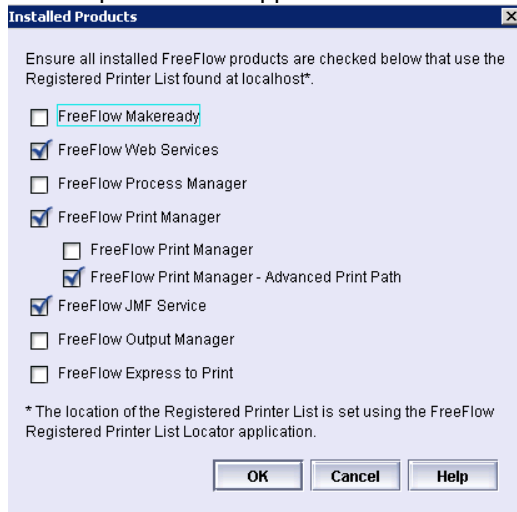
Set up printers in Printer Registration on the Web Services 7.0 server:

1. Select Start > Programs > Xerox FreeFlow Software > Print Administration > Printer Registration.

Note

Printer Registration should be run ON the Web Services server and NOT set to pull the Registered Printers from a remote system. The Synchronize step below may not work with a remote system.

2. A list of products will appear. Select at least the following and click **OK**.



3. Select **Add**.

4. Input the IP address of the printer and click **Identify Configuration**.

Note

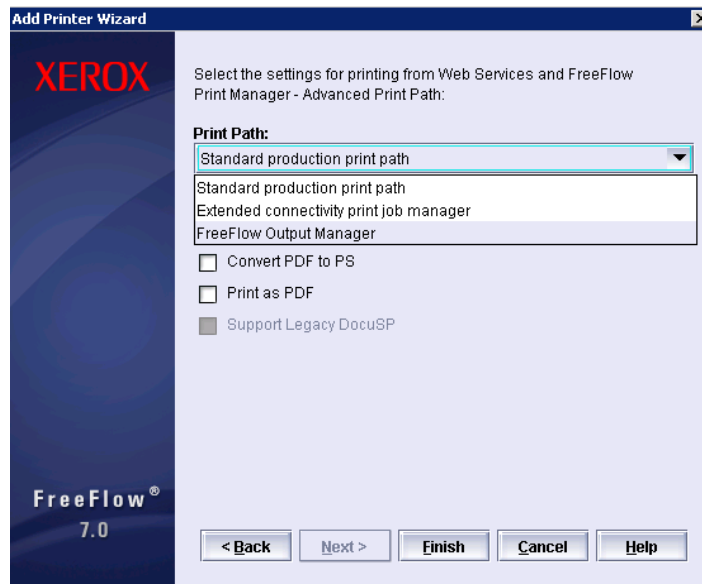
The printer information should update automatically. If it is not a FreeFlow Print Server then you might need to input the printer model and controller type manually.

5. Click **Next** and **Next** again. Do not select the check box to Automatically register all queues at printer.
6. Click **Retrieve Queue List**. The default queue set as the FreeFlow Print Server will appear.
7. From the drop down menu, select the appropriate queue.

8. Input a Custom Name for the printer. This will only appear in printer registration and in queue selection later in the Web Services Output Device selection.
9. Click **Next**.
10. From the drop down menu select **FreeFlow Output Manager**.

Note

While we are not actually connecting to FreeFlow Output Manager this is really a production print path.

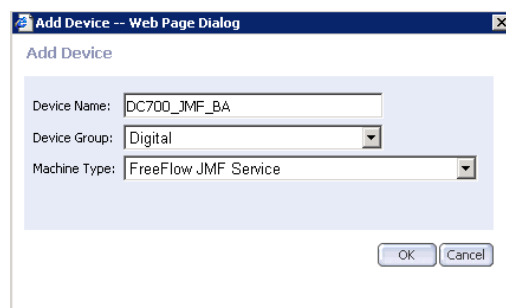


11. Click **Finish**. The printer is now ready for use in Printer Registration.
12. Synchronize printers with JMF Service:
 - From a command line, (DOS Prompt) type: **xomupddev** <enter>

Note

A message will only be displayed if there is an error.

13. To see the active JMF Printers:
 - at command line type: **xomlisdev** <enter>
14. JMF Printers are now ready for use in Web Services.
15. Select Print Settings > Output Devices > Add.
16. Enter the Device Name, select **Digital** in the Device Group field, and select **FreeFlow JMF Service**. Click **OK**.



Note

Use a descriptive name for your printer. Include information like the Printer_SubmissionMethod_Asst. For example, when setting up for Book Assembly jobs use a name like: DC700_JMF_BA where BA designates Book Assembly and will use the JDF Process Intent.

17. Update the Device Description to match the name of the Output Device.

Output Devices

Output Devices:

- BA_JMF_DC700
- BA_OM_DC700
- DC700_JMF
- DC700_JMF_BA

DC700_JMF_BA: Digital

Machine General Output Channels Imposition Press

Device Description: DC700_JMF_BA

Quality: Cost Effective

☐ Automatically approve all Jobs for Printing

18. Select the Paper sizes available for printing. Should have at least **8.5x11** and **11x17**.
19. Select the Output Channels tab.
20. Select **JMF over HTTP**, and input the IP Address of the Web Services Server.

Note

Do NOT use localhost for the IP Address. This will cause some jobs to not pass through the JMF Service and give unpredictable results.

JMF over HTTP

☒ Device supports multi-queue system

IP Address: 192.168.1.100

Port: 7781

Produce JDF Output: Proc_DigitalPrinting_1.2_General

21. Select **Proc_DigitalPrinting_1.2_General** for Produce JDF Output.
22. Select **Device supports multi-queue system**.
23. Select the **Available Printers** button.
24. Select only the checkbox for the desired Printer and Select **OK**.

Enable Printers -- Web Page Dialog

Enable Printers

<input type="checkbox"/>	Name	Printer Name or IP Address	Queue Name	Model	Controller/Server Type
<input checked="" type="checkbox"/>	DC700_JMF	13.123.240.63	kscffps_HOLD	DOCUCOLOR700	XEROX_FREEFLOW_PRINT_SERVER_6_0
<input type="checkbox"/>	JMF_DC700_E2E	13.123.240.63	E2E	DOCUCOLOR700	XEROX_FREEFLOW_PRINT_SERVER_6_0
<input type="checkbox"/>	JMF_DC8000_E2E	13.123.240.39	E2E	DocuColor 8000	XEROX_FREEFLOW_PRINT_SERVER_6_0
<input type="checkbox"/>	JMF_iGen4_E2E	13.241.236.12	E2E	XEROX_IGEN4_90_10_DPCP	XEROX_FREEFLOW_PRINT_SERVER_7_0

OK Cancel

25. Click **Save** and **Save** again.
26. Select the Imposition tab. Set the Page size and Imposition settings based on the application or scenario.
27. The Output Device is ready for use with Book Assembly jobs.

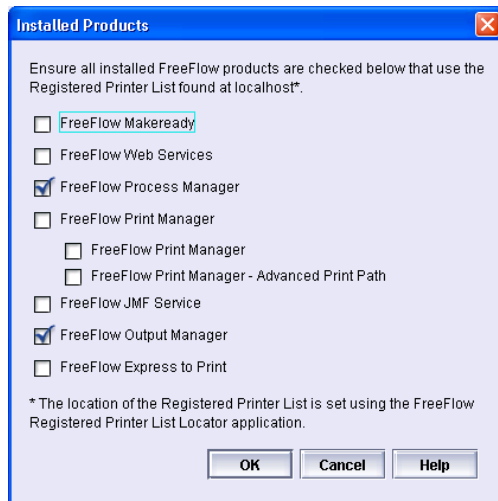
FreeFlow Output Manager Setup

Note

FreeFlow Output Manager can accept either JDF Intent or JDF Process jobs from Web Services. Book Assembly jobs should only use JDF Process that appears in Web Services as *Proc_DigitalPrinting_1.2_General*.

Setup printers in Printer Registration:

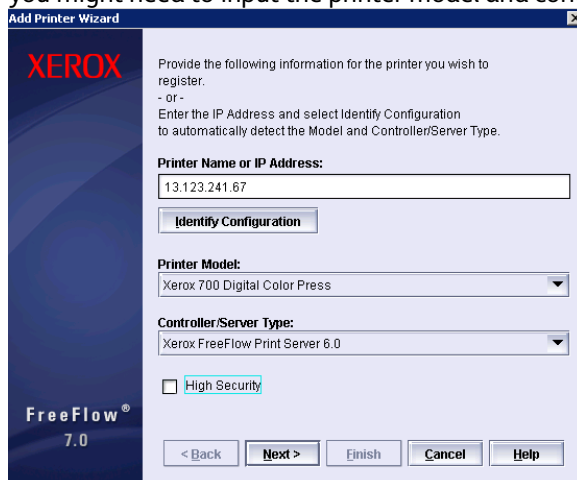
1. Select Start > Programs > Xerox FreeFlow Software > Print Administration > Printer Registration on the system being used for Printer Registration. If not done on the Output Manager server, set the Registered Printer List Locator with the IP of the system being used.
2. A list of products should appear. If not, select Options > Installed Products. Select at least **Output Manager** and click **OK**.



3. Click **Add**.
4. Input the IP address of the printer and click **Identify Configuration**.

Note

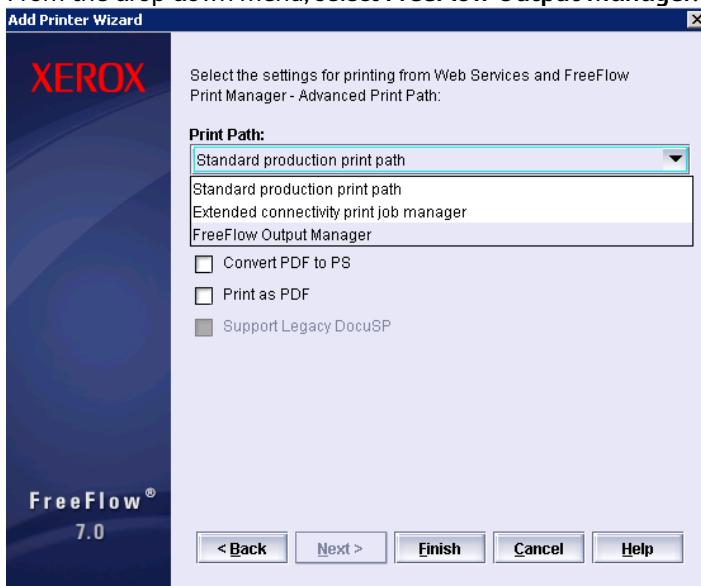
The printer information should update automatically. If it is not a FreeFlow Print Server, you might need to input the printer model and controller type manually.



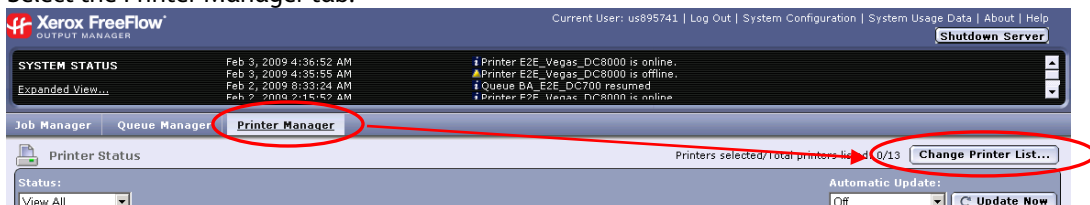
5. Click **Next** and **Next** again. Do not select the check the box to automatically register all queues at printer.
6. Click **Retrieve Queue List**. The default queue set at the FreeFlow Print Server will appear.
7. From the drop down menu, select the appropriate queue.



8. Input a Custom Name for the printer.
9. Click **Next**.
10. From the drop down menu, select **FreeFlow Output Manager**.

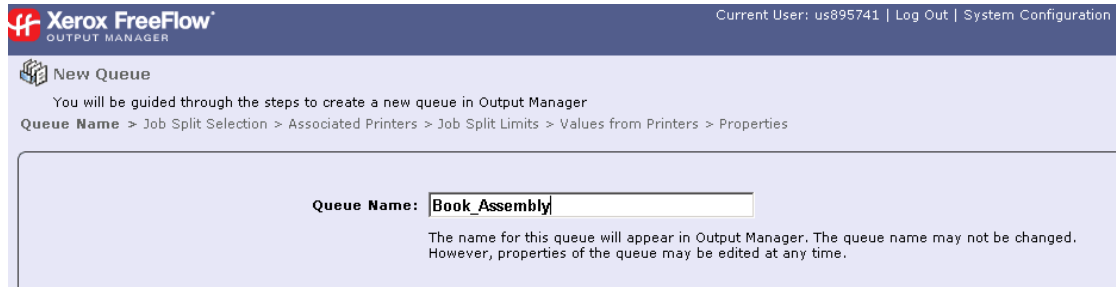


11. Click **Finish**. The printer is now ready for use in Printer Registration.
12. Launch Output Manager and log in as an administrator.
13. Select the Printer Manager tab.



14. Click the **Change Printer List** button. Select the required printer. Click on **Next** and **Done**.

15. Select the Queue Manager tab.
16. Click the **New Queue** button. In the next window, enter any custom name for Queue Name field.



Xerox FreeFlow
OUTPUT MANAGER

Current User: us895741 | Log Out | System Configuration

New Queue

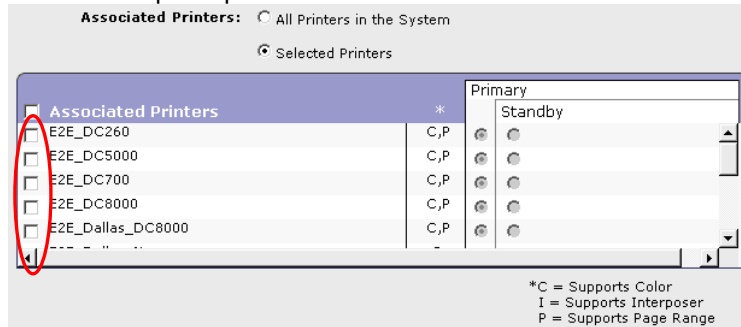
You will be guided through the steps to create a new queue in Output Manager

Queue Name > Job Split Selection > Associated Printers > Job Split Limits > Values from Printers > Properties

Queue Name:

The name for this queue will appear in Output Manager. The queue name may not be changed. However, properties of the queue may be edited at any time.

17. Click **Next**. Click **Next** again to skip Job Splitting at this time.
18. Select the required printer for Associated Printers. Click **Next**.

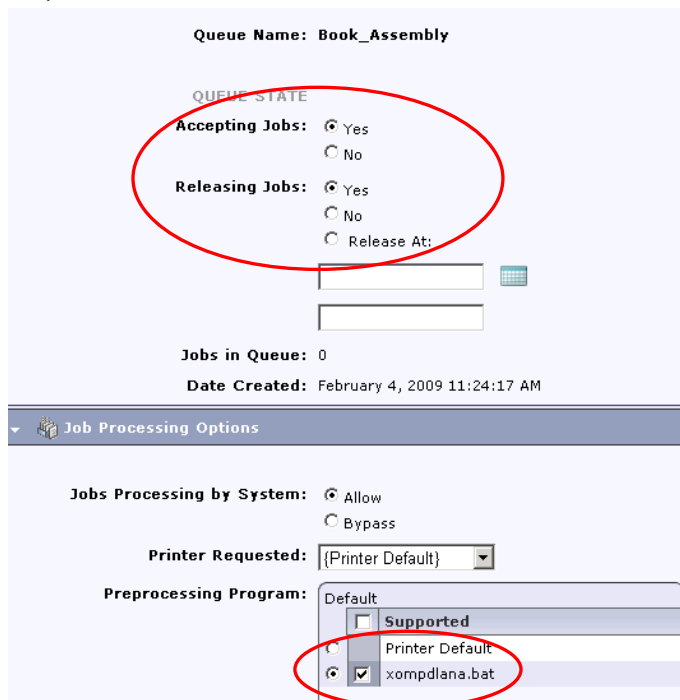


Associated Printers: ☐ All Printers in the System
☒ Selected Printers

Associated Printers	*	Primary
<input checked="" type="checkbox"/> E2E_DC260	C,P	Standby
<input type="checkbox"/> E2E_DC5000	C,P	
<input type="checkbox"/> E2E_DC700	C,P	
<input type="checkbox"/> E2E_DC8000	C,P	
<input type="checkbox"/> E2E_Dallas_DC8000	C,P	

*C = Supports Color
I = Supports Interposer
P = Supports Page Range

19. Click **Create Queue**.
20. In the next window, click the **Edit Queue Properties** button.
21. Select the **Yes** radio button for Accepting Jobs and Release jobs fields under Basic Properties.



Queue Name: Book_Assembly

QUEUE STATE

Accepting Jobs: ☒ Yes
☐ No

Releasing Jobs: ☒ Yes
☐ No
☐ Release At:

Jobs in Queue: 0

Date Created: February 4, 2009 11:24:17 AM

Job Processing Options

Jobs Processing by System: ☒ Allow
☐ Bypass

Printer Requested: (Printer Default)

Preprocessing Program:

<input type="radio"/> Default
<input type="radio"/> Supported
<input type="radio"/> Printer Default
<input checked="" type="radio"/> xomplana.bat

22. Under Preprocessing Program, select the radio button and the checkbox: **xomplana.bat**

23. Select the checkbox for **Keep Completed Jobs** field and select **3** days for Minimum, Maximum and Default options. (You can set these times as desired).

Keep Completed Jobs: ☒ Supported
(0 Minute - 30 Days)
Minimum: 3 Day(s)
Maximum: 3 Day(s)
Default: 3 Day(s)

24. Under Paper Stock, enter **1-254** instead of 0-254 for Order field. If you forget, an error message will appear when saving the queue settings.

Type: Default
☒ Supported
☐ Printer Default
☒ Full Cut Tab
☒ Labels
☒ Plain
☒ Pre-Cut Tab
Order: ☒ Supported: 1 - 254
(Example: 1, 3-5, 10)

25. Select **OK** to save the changes.
26. Login to Web Services as Print Provider.
27. Navigate to Print Settings > Production > Output Devices.
28. Click the **Add** button under Output Devices.
29. Enter a Device Name, select Digital, select **FreeFlow Output Manager**, and click **OK**.

Add Device -- Web Page Dialog
Add Device
Device Name: DC700_OM_BA
Device Group: Digital
Machine Type: FreeFlow Output Manager
OK Cancel

Note

Use a descriptive name for your printer. Include information like the Printer_SubmissionMethod_Asst. For Example when setting up for Book Assembly jobs use a name like: DC700_OM_BA, where BA designates Book Assembly and will use the JDF Process Intent.

30. Click **OK** and navigate to the Impose tab.
31. Ensure that Impose all jobs is selected for Imposition Preferences and click **Save**.
32. Navigate to the Output Channels tab.
33. Select **JMF over HTTP**, and input the IP Address of the Output Manager Server.

JMF over HTTP
☒ Device supports multi-queue system
IP Address: 192.168.1.100
Port: 7781
Produce JDF Output: Proc_DigitalPrinting_1.2_General

34. Select **Proc_DigitalPrinting_1.2_General** for Produce JDF Output.
35. Select **Device supports multi-queue system**.
36. In the opened window, click **Available Queues** and select the queue created earlier in Output Manager. After selecting the checkbox, click **OK** and then click **Save**.
37. The Output Device is now ready for use with Book Assembly jobs.

