XEROX®

FreeFlow™

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FreeFlow® Web Services Process Manager Integration Guide

Powered by Press-sense

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Content

Introduction

Overview

FreeFlow Process Manager automates your repetitive prepress activities and increases the overall efficiency of your workflow by creating automated workflows for your Jobs.

Combined with *FreeFlow Web Services*, the *FreeFlow* Process Manager accepts documents uploaded by the Web-to-Print and adds automation for the prepress process.

FreeFlow Web Services 6.0 introduces a new method of transferring files which is over HTTP. The existing method of transferring files by using "Hot Folders" still exists.

Web Services 6.0 introduces a new option in the integration with the *FreeFlow* Process Manager that enables Web Service in its Print Provider side to select an order and submit the Jobs within the same order as a group to the *FreeFlow* Process Manager. Web Service generates a Manifest which is submitted to the *FreeFlow* Process Manager designated "*Hot Folder*". The *FreeFlow* Process Manager will receive the manifest file, process the Jobs through specified workflows, and generate the Bill of Materials (BOM) which can be used to enable kitting and order fulfillment.

The Manifest option is supported only when transferring files using "Hot Folders".

Integration

The integration between *FreeFlow Web Services* and *FreeFlow* Process Manager comprises the following steps:

Set-up:

1. Defining the following in the *FreeFlow* Process Manager software:
   - **a.** Workflows
   - **b.** Manifest *Hot Folder* (if the option is utilized, see explanations in following sections).
2. If the workflows in the *FreeFlow* Process Manager are defined to work with "Hot Folders", then it is necessary to define the root directory of the "Hot Folders" location as shared on the network.

   Note: If the workflows in the *FreeFlow* Process Manager are defined to work with JMF over HTTP then this step is irrelevant.
3. Defining a dedicated output device in *Web Services* for the *FreeFlow* Process Manager.

Job Printing:

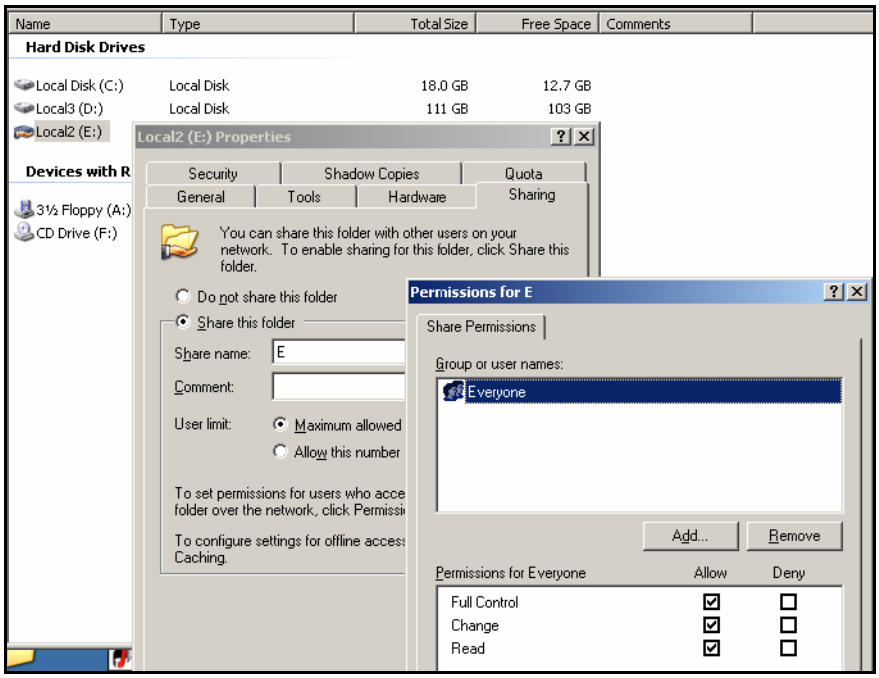
4. Printing a Job in the *Web Services*: The Job is sent with the relevant information and files to the relevant *FreeFlow* Process Manager workflow, either over HTTP or by using "Hot Folders" according to the definition in the *Output Device* and the workflow.
5. The Job is processed in the *FreeFlow* Process Manager according to the defined workflow.

This document shows the process for step 2 and describes steps 3 and 4. For details on definitions and usage of the *FreeFlow* Process Manager (steps 1, 2 and 5), refer to the relevant *Xerox User Guides*.

Defining the Root Directory of the "Hot Folders" as Shared

In order to define the root directory of the "Hot Folders" as shared carry out the following steps:

1. Right-click on the Root directory where the "Hot Folders" reside and select **Properties**.
2. Click on the **Sharing** tab (see figure below).
3. Select **Share this folder**; the **Share name** appears.
4. Click on **Permissions** and ensure that everyone has Full Control.
5. Click on **OK** to save changes; the Folder properties becomes the active window.
6. Click on **OK** to save changes.



Note: It is important to ensure that the Permissions are set for Full Control.

Important: All "*Hot Folder*" directories will reside on the same drive.

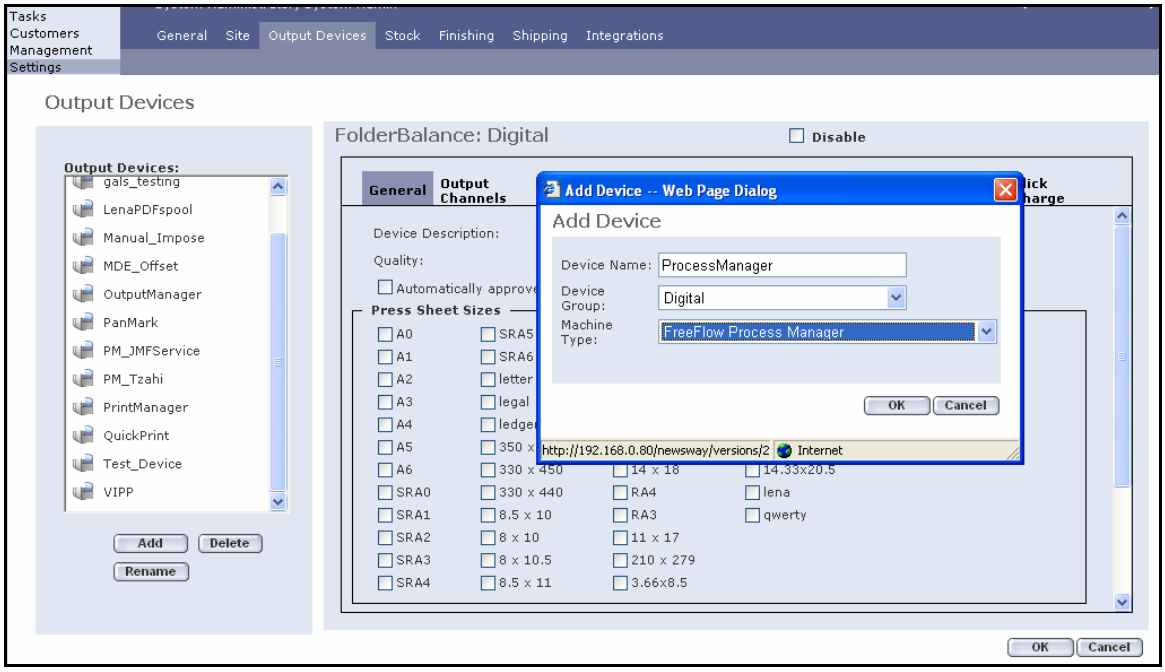
Defining an Output Device for the Process Manager

Creating a New Output Device

In order to create a *Web Services Output Device* for the *FreeFlow* Process Manager, carry out the following steps:

1 In *Web Services*, click on **Settings**/**Output Devices**.

2 Click on the **Add** button (below the **Output Devices** list); the ***Add Device*** dialog box appears.



3 Enter the **Device Name**

4 In **Device Group**, select **Digital**.

5 In **Machine Type**, select *FreeFlow* Process Manager.

6 Click on **OK** to save the settings and to close the ***Add Device*** dialog box; the new *Output Device* is added to the **Output Devices** list and the specifications for the *Output Device* appear to the right of the list.

7 In **Press Sheet Sizes**, select the appropriate sizes.

Note: The **Device Description** name can be changed to a familiar name.

Output Channels Set-up

In order to set up the path for the Job files and *Job Tickets* to be transferred to the *FreeFlow* Process Manager after approval of a Job, carry out the following step:

- In the ***Output Devices*** window, select Output Manager as the **Output Device** and then click on **Output Channels**.

To connect to *FreeFlow* Process Manager using "Hot Folders" *see "Hot Folders" on page 4*.

To connect to *FreeFlow* Process Manager using HTTP, *see "HTTP" on page 6*.

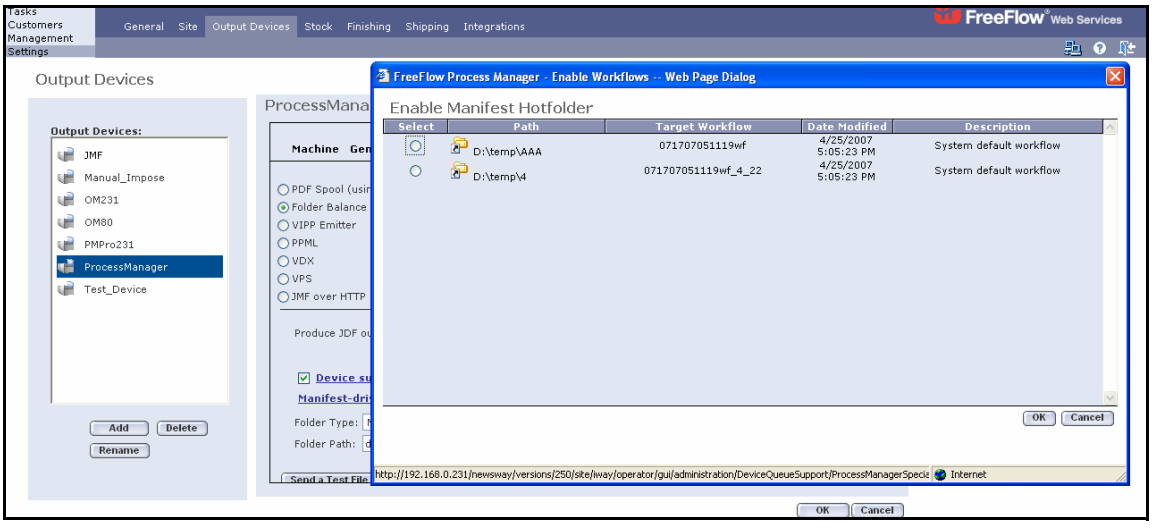
Hot Folders

When using "Hot Folders" for connection with the *FreeFlow* Process Manager, carry out the following steps:

1. Select **Folder Balance** from the **Output Channels** list.
2. In **Produce JDF output**, select **JDF Intent** from the dropdown list (this is the only JDF option that is supported with the *FreeFlow* Process Manager).

   Note: By selecting **JDF Intent**, a JDF format file is automatically created and includes certain Job property settings for this specific Job and a link to the production file. If **None** is left as the selected option, the JDF file will not be created and sent.
3. Select the **Send Production File with JDF** option. This enables sending the production file together with the *JDF Job Ticket*.
4. In **Folder Path**, enter the shared root directory where the "*Hot Folder*" directories were created and linked in the *FreeFlow* Process Manager application.

   Enter the root drive (not the shared name); for example: e:
5. Verify that the **Device supports multi-queue system** check box has been selected.
6. If utilizing the Manifest option, carry out the following steps:
   a. Click on **Manifest-driven Hot Folder**; the ***Manifest-driven Hot Folder*** window appears.
   b. Click on **Special Hotfolders**; the ***Enable Manifest Hotfolder*** dialog box appears.



   c. Select the relevant Manifest Hotfolder.

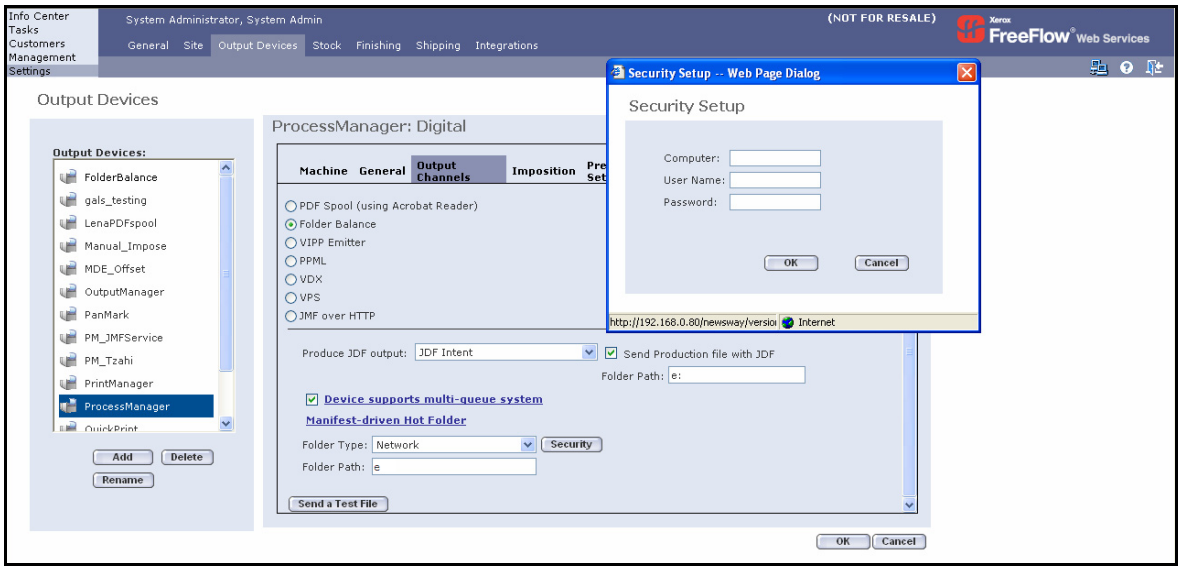
d. Click on **OK**.

e. Click **Save**; the ***Enable Manifest Hotfolder*** window closes.

Note: 1. It is necessary to define the designated "*Manifest Folder*" in the *FreeFlow* Process Manager before performing this step.

2. The Manifest option creates a file in *CSV (Comma Separated Value)* format that contains information regarding all the Jobs in the specific Manifest which is sent together with the Job files and *Job Ticket*.

7 In the **Folder Type** dropdown menu (below the **Manifest-driven Hot Folder** link) select **Network**; the ***Security Setup*** dialog box appears.



8 Enter the **Computer** (IP address or server name), **User Name** and **Password** of the server where the "*Hot Folder*" directories are located.

9 Click on **OK**; the window closes.

10 In **Folder Path** enter the shared name of the root directory. This is where the *FreeFlow* Process Manager "*Hot Folder*" directories have been created (example: e).

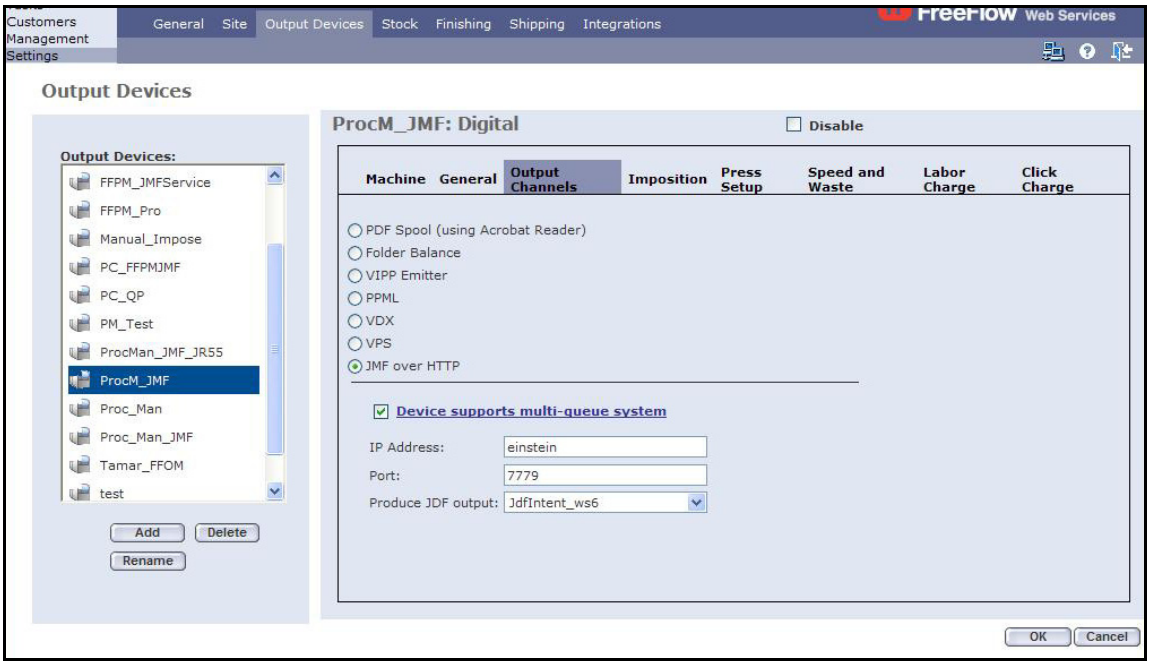
11 Click on **Send a Test File** in order to test the definitions. Testing is done by sending a JDF *Job Ticket* and the PDF resource. This will place a PDF in the root directory named test_page.pdf.

12 Click on **Yes** in the dialog box that appears.

HTTP

When using HTTP for connection with the *FreeFlow* Process Manager, carry out the following steps:

1. Select **JMF over HTTP** from the **Output Channels** list.
2. Verify that the **Device supports multi-queue system** check box is selected.



3. In **IP Address**, enter the IP address of the server where the *FreeFlow* Process Manager is installed.
4. In **Port**, verify that **7779** (the default port for the Process Manager server) is defined.
5. In **Produce JDF output**, verify that **JdfIntent_ws6** is selected.
6. Click on **OK** to save changes.

Defining Workflows

This definition enables the Print Provider to create multiple workflows for electronically transporting the Job file either to target folders that are linked to the *FreeFlow* Process Manager "Hot Folders" or over HTTP.

Note when using "Hot Folders"

Consider these folders as "watched folders" by the *FreeFlow* Process Manager. When a *JDF/PDF* combination is sent, *Web Services* will create a subfolder in the *FreeFlow* Process Manager named "Files". This is where the PDF resource is copied. The JDF, which is the file the Process Manager will use for production, is placed up one level in the directory you created and designated as the "*Hot Folder*". For a non-*JDF/PDF* transfer, the PDF is placed in this directory.

In order to connect to the workflows previously set up in the *FreeFlow* Process Manager, carry out the following steps:

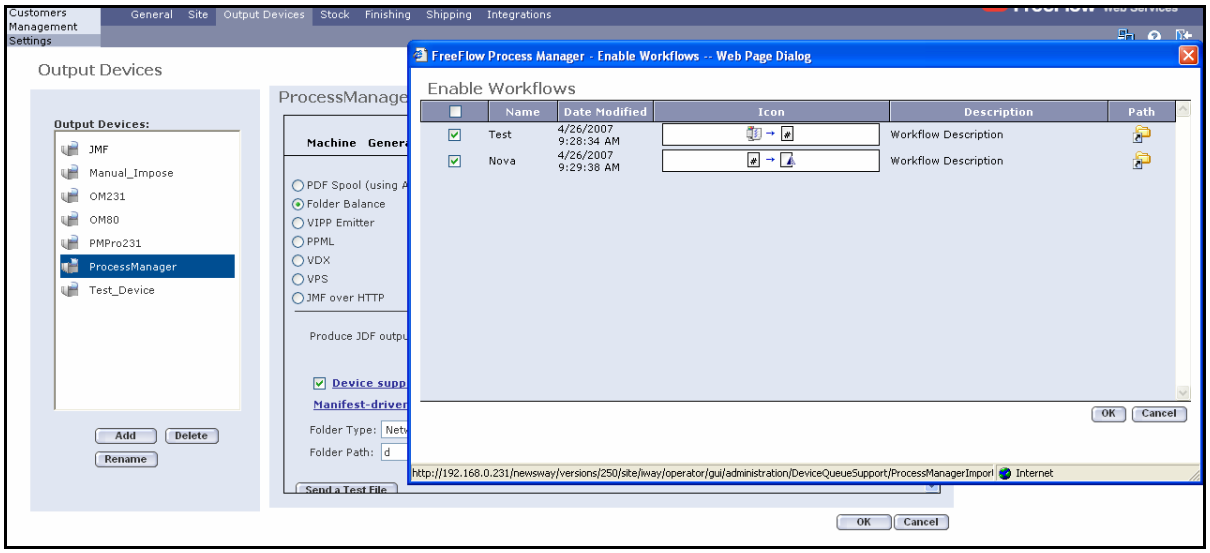
1 In the ***Output Devices***/***Output Channels*** window, click on the **Device supports multi-queue system** link; the ***Select Default Workflow*** dialog box appears.

Upon clicking this link, the user will see a **No Data to Display** message that indicates that no workflows are available in the *FreeFlow Web Services* yet. Continue to the next step in order to define workflows.

Note: 1. If entering this link at a later stage (after the *Output Device* has already been set up), the user will see a list of workflows already available and registered in the *FreeFlow Web Services*.

2. The *FreeFlow Web Services* registered workflows list may not reflect the actual list of workflow currently defined in the *FreeFlow* Process Manager. In order to synchronize *FreeFlow Web Services* registered workflows and *FreeFlow* Process Manager workflows, use the **Available Workflows** option, as defined in the next step.

2 Click on the **Available Workflows** button for synchronizing with *FreeFlow* Process Manager; the workflows previously set up appear in the ***Enable Workflows*** window.



Note: When using "Hot Folders", workflows that appear on the list are workflows that:
a. Are enabled within the *FreeFlow* Process Manager
b. Have at least one item defined in the workflow.
c. Were associated with a *Hot Folder*.

When using "HTTP", workflows that appear on the list are workflows that:
a. Are enabled within the *FreeFlow* Process Manager.
b. Have at least one item defined in the workflow.

3 Select the relevant workflows for this *Output Device*.

4 Click on **OK**.

5 Select the workflow to serve as default and click on **OK**.

6 Click on **Save**.

Printing a *FreeFlow Web Services* Job to *FreeFlow* Process Manager

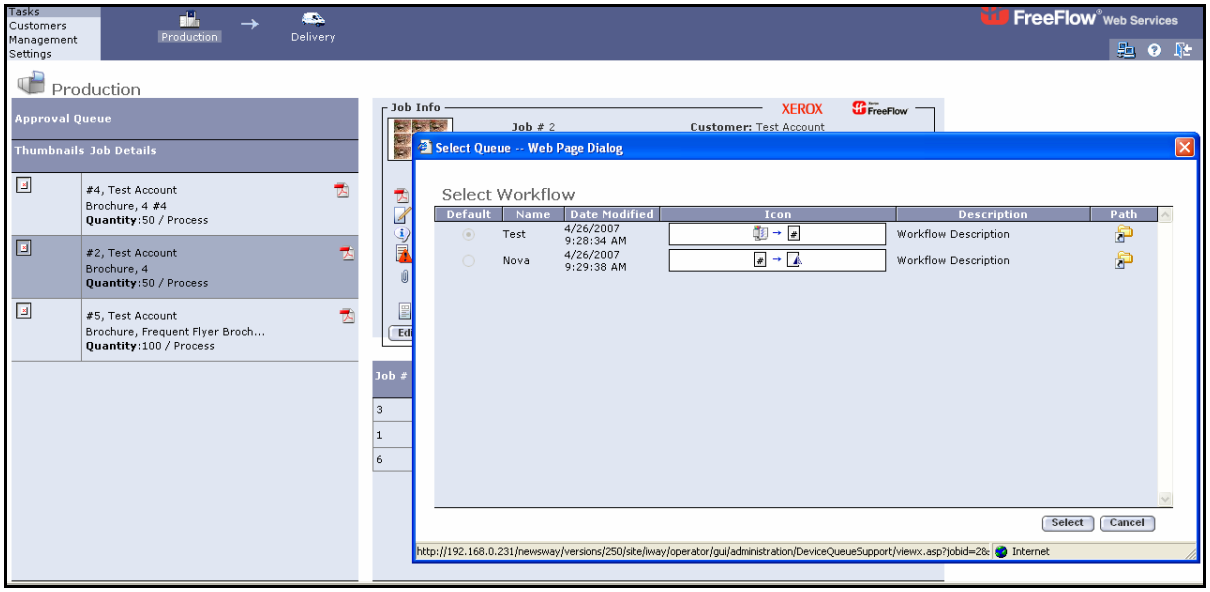
In order to approve a *Web Services* based Job for printing through the *FreeFlow* Process Manager, carry out the following steps:

1 Select **Tasks** and click on the **Production** icon.

2 Select the relevant Job in the **Approval Queue**.

3 In order to verify the selected *FreeFlow* Process Manager workflow or to select a different workflow for the Job, carry out the following steps:

a. Click on the Multiple Queue icon in **Job Info** (next to the **Device** name); a window with a list of workflows currently registered in *Web Services* appears.



b. Accept the selected workflow or change it by selecting a different workflow.

c. Click on **Select**.

Note: If no workflow has been selected, the workflow that was set as default will be used.

4 Select **Approve order** if you want to submit all Jobs connected to the same order (of the selected Job, in case there is more than one Job). If the Manifest option was defined for the *FreeFlow* Process Manager/ *Output Device* then a Manifest file will be created, containing the information regarding all Jobs in the order and this will be sent along with the production files and Job Tickets.

5 Click on **Approve**.

6 **If JMF over HTTP was defined in the Output Device set-up:**
The Job file is bundled in a MIME encoded package together with the JMF message and JDF *Job Ticket* and is sent over HTTP to the IP address defined in the *Output Channels* set-up.
The Job will appear in the relevant workflow in *FreeFlow* Process Manager, where it is possible to complete the production print.

7 **If Folder Balance was defined in the Output Device set-up:**
The Job will be transferred to the designated "Hot folder" created in the *Output Device* set-up. The Job will appear in the relevant workflow in *FreeFlow* Process Manager, where it is possible to complete the production print.

8 The approval is successful when the  icon appears in the **Status** column.

9 Jobs that fail in the **Printing Queue** are generally due to network errors (). Examine the *Device* set-up to diagnose this problem.