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Technical bulletin

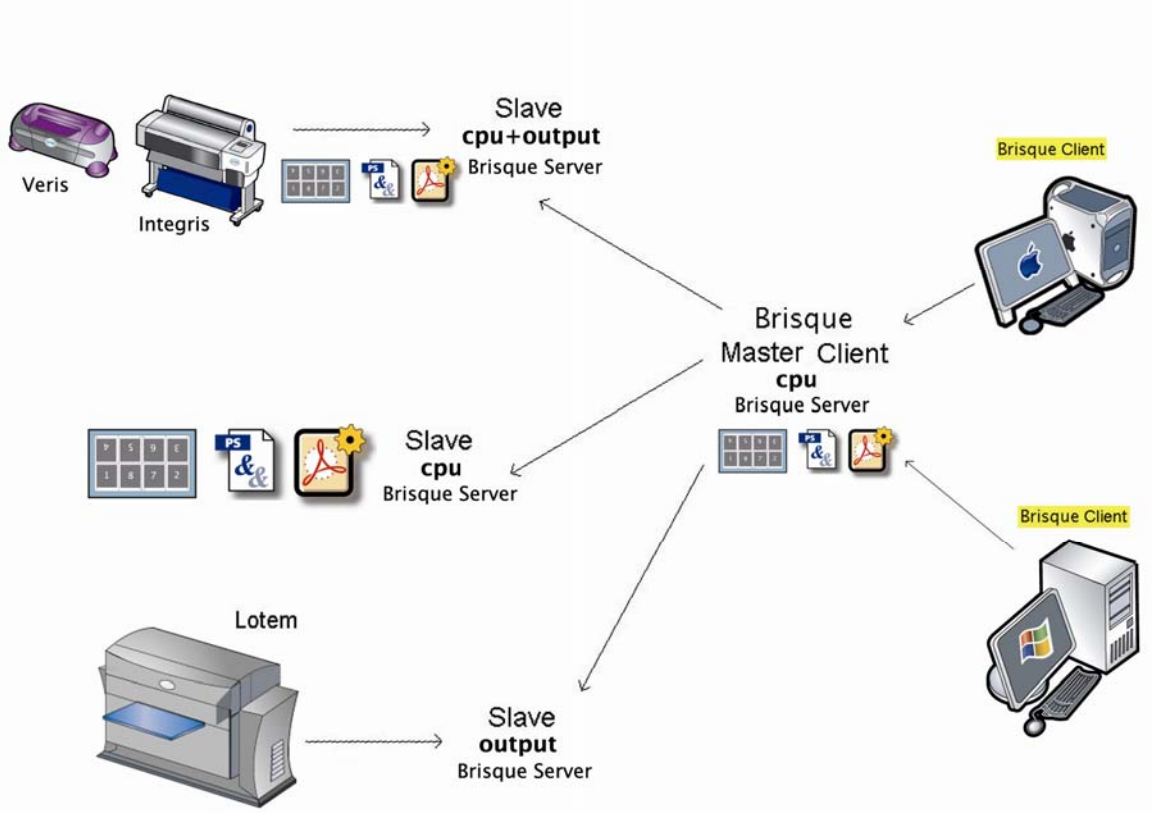
The Brisque 5.1 Master Client Environment

This document describes the *Brisque* 5.1 software Master Client environment and provides guidelines for working in it. The **Brisque 5.1.32 Output update** (**build–003–output** or later) and the **Master Client** license are required in order to configure the Master Client environment—see *Prerequisites and Restrictions* on page 2.

The Brisque Master Client Concept

A Master Client environment includes multiple *Brisque* servers that operate in the same network (intranet), and conform to a hierarchical master-slave structure. One *Brisque* server, designated as the *master*, controls the *Brisque* operations of all servers in the Master Client environment. The other servers in the environment are designated as *slaves* and operate according to the master server's instructions. The master server optimizes resource utilization within the Master Client environment by load-balancing *Brisque* operations among all the servers within the environment.

The following diagram illustrates a site with a *Brisque* Master Client environment.



Prerequisites and Restrictions:

- *Brisque* 5.1.32 is a prerequisite for installing the **Brisque 5.1.32 Output update** (**build–003–output** or later). You need to install the **Brisque 5.1.32 Output update** on *all* servers that are part of the Master Client environment.
- After installing the output update, you need to install the **Master Client license** on the workstation that is designated as the *master* server. The process for purchasing and installing the Master Client license is similar to the process for other *Brisque* licenses.
- A *Brisque* client cannot access a slave server.
- All slaves included in the Master Client environment operate in **Black Box** mode (that is, the *AIX* client is not running).

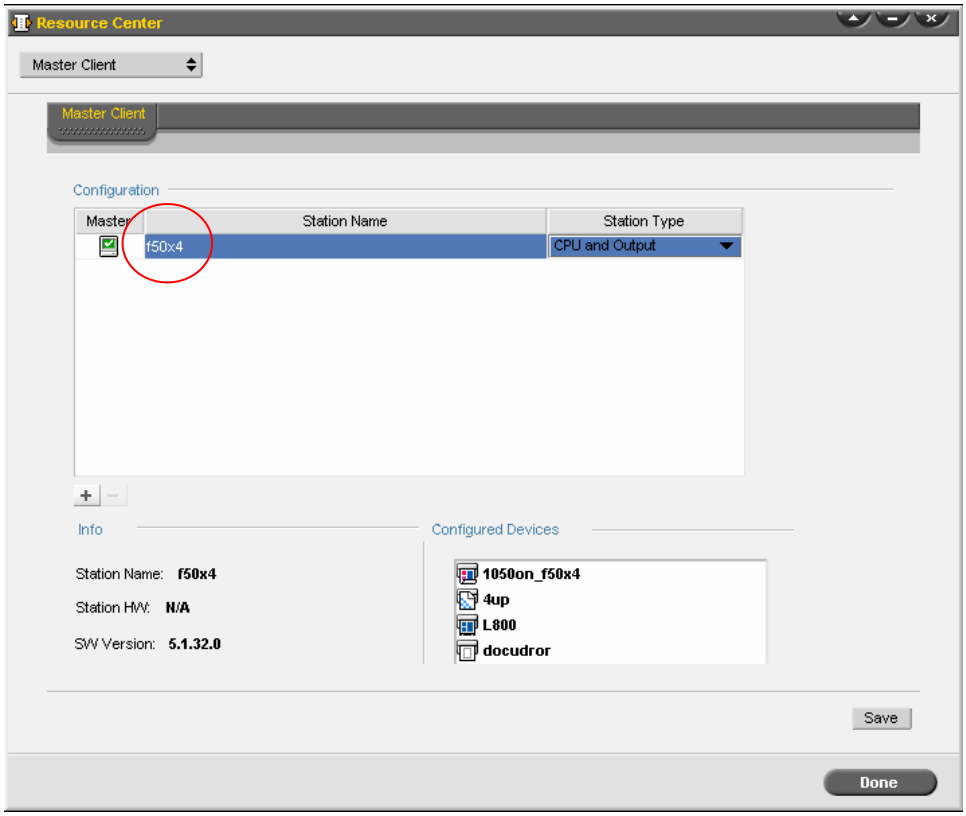
Defining a Brisque Master Client Environment

Before performing the following procedure, make sure that the Master Client license is installed on the *Brisque* server that is designated as the master server. Installing this license is similar to installing other *Brisque* licenses.

The Master Client environment is defined in the **Resource Center** window of the *Brisque* server that is designated as the master server.

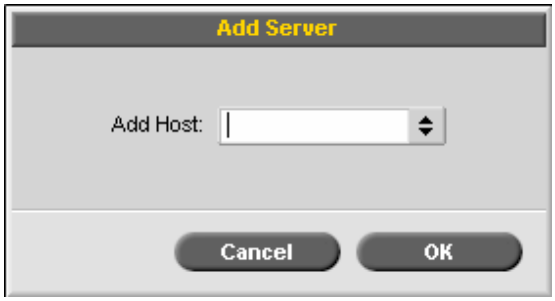
To add a slave server to the Master Client environment:

1. From the **Tools** menu of the *Brisque* client of the master server, select **Resource Center**.
2. In the Resource Center window, click **Select Category**, and from the list select **Master Client**.
3. Click  to add a slave server to the Master Client environment.



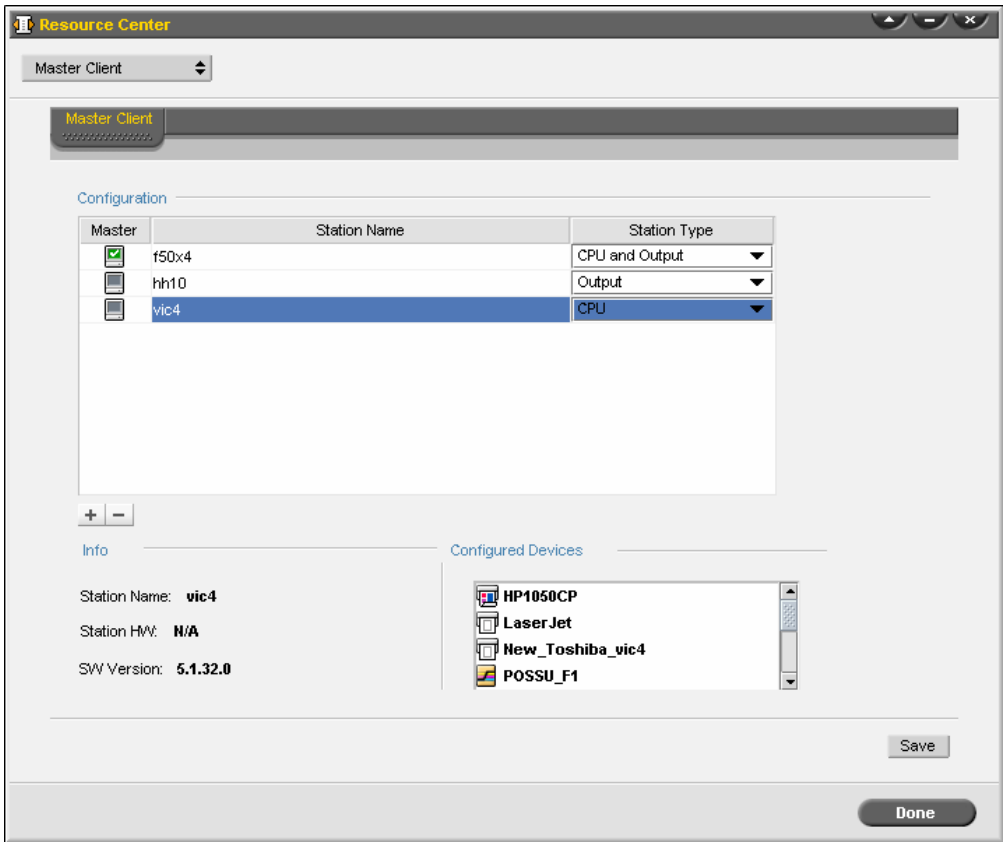
The window shows that the master server— **f50x4**, is a **CPU and Output** station type. The devices that are configured on **f50x4** are listed under **Configured Devices**.

4. In the Add Server dialog box, enter the name of the slave workstation. The name should be the exact hostname of the *Brisque* slave (case-sensitive).



5. You can continue adding slaves by repeating steps 3 and 4, as needed.

The name of the master server (the server on which the Master Client license was installed) is marked in green in the Resource Center window of the master server. In the following figure, the master server is **f50x4**, and the slave servers, **hh10** and **vic4**, are listed below it.



6. Define the **Station Type** of each server. From the **Station Type** column, select one of the options:
   - **CPU**—defines the slave server as a station that handles CPU processes only.
   - **Output**—defines the slave server as a station that handles output processes only.
   - **CPU and Output**—defines the slave server as a station that handles CPU and output processes.

   Note: A slave server can be defined as an **Output** or **CPU and Output** station only if it has output devices configured on it. If a slave server has output devices configured on it, the configured devices are listed in the **Configured Devices** list.
7. Click **Save**.

Important Note: If you change the station type of any server within the Master Client environment, you need to log out from all the stations that are included in this environment, and then log in again.

To view server properties and configured output devices:

1. From the **Resources** menu, select **Master Client**.
2. In the **Configuration** table, select the server whose properties you want to view.

The properties of the selected server and its configured devices are displayed at the bottom of the dialog box.

To remove a slave server from the Master Client environment:

1. From the **Resources** menu, select **Master Client**.
2. In the **Configuration** table, select the server that you want to remove.
3. Click .
4. Click **Save**.

Shared and non-shared Libraries, Resources and Preferences

This section details the resources that are shared within the Master Client environment.
The slave servers within a Master Client environment adopt the **Preferences** settings of the Master server. For example, **spot database**.

Some of the libraries and resources on the master server can be accessed and shared by slave servers, and some cannot be accessed and shared. The two types are detailed below.

Shared libraries and resources

Slave servers in a Master Client environment can access *some* of the libraries and resources on the master server, and as a result these do not need to be created on the slaver server. The following master server libraries and resources *can be* accessed from the slave server:

- High-resolution paths
- PreFlight profiles
- ICC profiles
- Color sets
- Spot color databases
- Marks, mark and label sets
- Iris color database

Non-shared libraries and resources

Slave servers in a Master Client environment *cannot* access the following libraries and resources on the master server:

- Fonts
- Device settings
- Tone reproduction curves
- ExCurve curves
- Screen sets

You must load or create the libraries and resources that are listed above on each slave server.

Templates

In the Master Client environment, you *use only* templates created and located on the master server. Therefore, you cannot use templates defined on the slave servers.

Login and Logout in the Master Client Environment

You should *always* log in to the master server before logging in to the slave servers.

After defining a server as a slave, each time you log in, the following message appears on the *AIX* terminal: `If you want to start up this Brisque as a stand-alone Brisque, type "yes" or "no" and press Enter`.

- Type `no` if you *want* the station to be part of the Master Client environment.
- Type `yes` if you *do not want* the station to be part of the Master Client environment. In this case, your answer overwrites the current definition of the station, as defined in the **Resource Center** window of the master server. The slave station will then function as a standard stand-alone Brisque client.

Working in a Master Client Environment

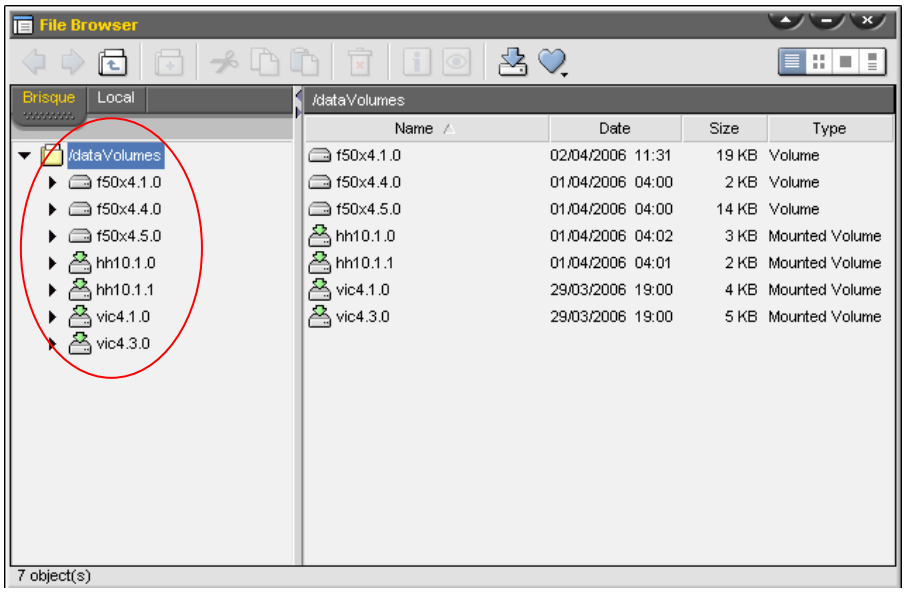
After you set up the structure of your Master Client environment (such as adding slave servers), and you log into the master server, the master server is displayed as a regular dataVolumes directory in the File Browser. The slave servers are displayed as mounted stations with a green arrow .

The  **Devices** tab of the Monitor palette lists all of the output devices within the Master Client environment. The name of the slave server that the output device is configured to is displayed in parentheses next to the output device name.

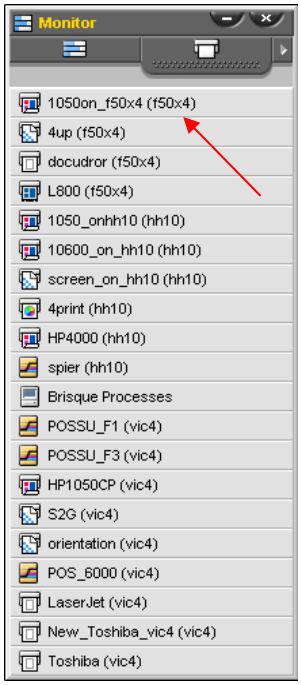
You monitor the Master Client environment via the Queue Manager. The **Processes & Devices** pane shows all the output devices configured in the Master Client environment.

The **Master Client** column in the **Running** list displays the running operations. The slave server on which the operation is running is displayed in parentheses next to the operation name. If an operation is running on the master server, the operation name is displayed without a server name in parentheses next to it.

In the following figure, the master server—**f50x4**—appears as a standard dataVolume. The mounted slave servers—**hh10** and **vic4**—appear with a green arrow.



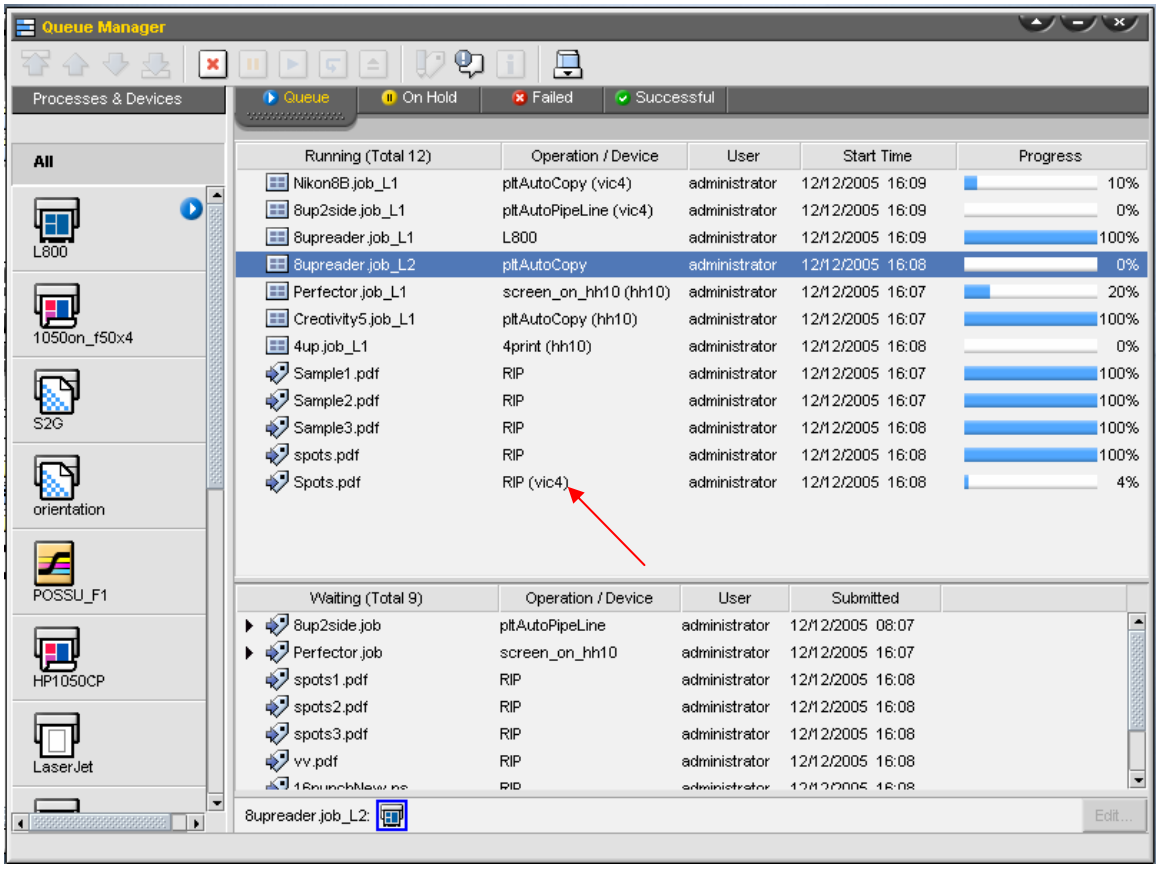
The configured output devices are listed in the Monitor palette.



Note: In the figure, the name of the server that the output device is configured to is displayed in parentheses next to the output device name.

The Queue Manager in the Master Client Environment

Monitoring the Master Client environment is done from the Queue Manager window. The configured output devices are also listed under the **Processes & Devices** pane of this window. The **Waiting** section lists the jobs that are waiting to be processed in the Master Client environment.



The **Operation/Device** column lists the operation names. When a name in brackets appears near the operation name, this indicates that the operation is performed on a slave server, where the slave name is the name in brackets. When no name appears near the operation name, this indicates that the operation is performed on the master server.

Optimizing the Operation Load in the Master Client Environment

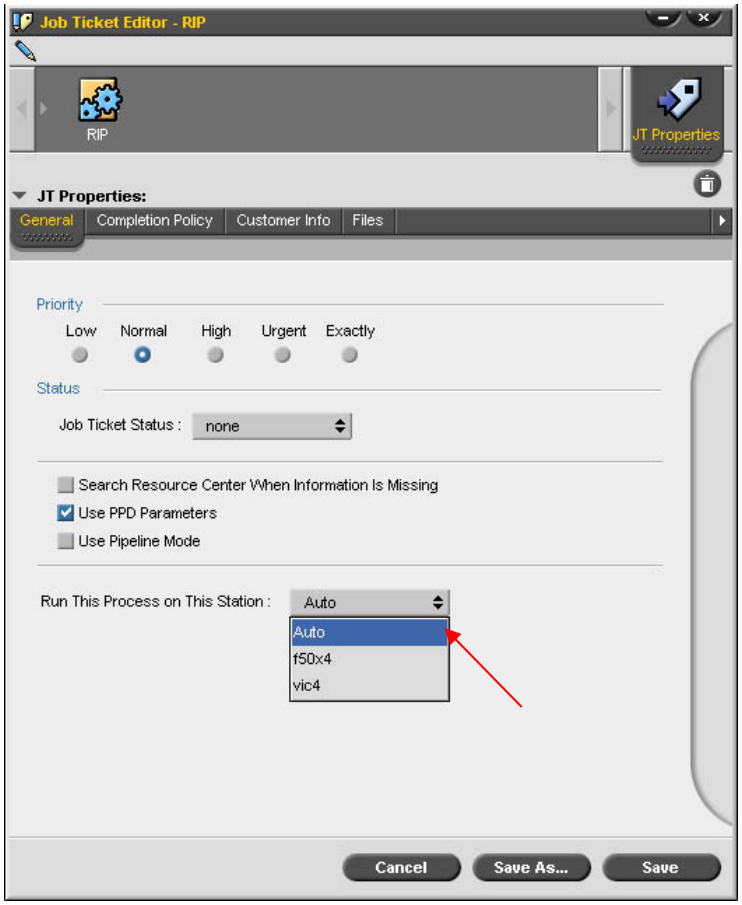
The master server automatically balances the load of all the servers within the Master Client environment in order to optimize the resource utilization. Load-balancing is performed differently for input and output operations.

Input Operations

When the number of files that is dropped on an input operation is larger than the number of CPUs in the Master Client environment, the processes will divided between the master and slave servers that are defined as CPU servers (see *Station Type in Defining the Master Client Environment*). Files in the **Waiting** queue are submitted to the first free server that is defined as a CPU server.

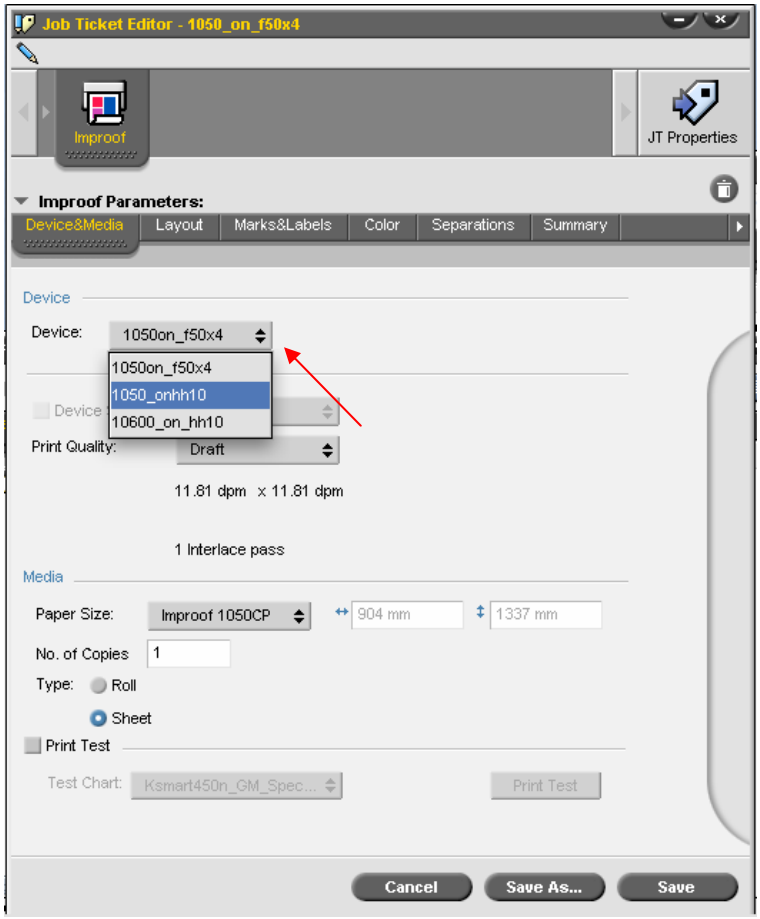
Although load-balancing is done automatically, you can force a CPU process to run on a specific server:

1. In the Job Ticket Editor window, click **JT Properties**.
2. In the JT Properties window, **Auto** is selected by default for the **Run This Process on This Station** parameter (indicating that the master server automatically balances the load among the slave servers). Click **Auto** to open the list of servers, and select another server on which the operation will be processed.



Output Operations

Output operations are assigned to servers according to the specific output device that is configured to the server. The following figure shows the devices that are configured for the **Improof** operation. You *cannot* force an output operation to run on a server that is not listed.



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