



Fiery JobFlow

Fiery JobFlow provides a browser-based prepress workflow that allows operators to define and automate repetitive tasks such as PDF conversion, preflight, correction of PDF files, image enhancement, document imposition, job ticketing, and approval.

Import files to Fiery JobFlow from a SmartFolder, your Dropbox account, SMB, FTP, email, or sFTP locations. Set up the workflow for the imported file and have it output to a Fiery server, Fiery XE, Fiery Central printer group, a Dropbox account, SMB, FTP, or sFTP locations. As your job is processed through the different modules, email notifications can be sent giving you status updates.

For information about Fiery JobFlow SmartFolder, see [Installing Fiery JobFlow](#) on page 1.

The Fiery JobFlow application is installed on a Windows client computer and functions as a Fiery JobFlow server.

Fiery JobFlow Base is a version of Fiery JobFlow that is available for free with Fiery Extended Applications (FEA) 4.3 and higher. Fiery JobFlow Base supports PDF conversion, collection of jobs, Fiery Preflight, image enhancement, document imposition, and flexible options for job submission, archiving, and output. You can also export and import workflows for use with another Fiery JobFlow server.

For information about installing Fiery JobFlow, see [Installing Fiery JobFlow](#) on page 1. For system requirements, see <https://resources.fiery.com/FieryJobFlow/specifications>.

The licensed version of Fiery JobFlow adds rules-based workflows, advanced Preflight and PDF editing through Enfocore PitStop Technology, a cloud-based approval process, and the ability to apply actions to a PDF using third-party applications.

For important information about this release of Fiery JobFlow, see the release notes at https://help.fiery.com/jobflow/jobflow_releasenotes292.pdf.

Version 2.9.2

Installing Fiery JobFlow

Fiery JobFlow is installed with Fiery Software Manager, that is part of the Fiery Workflow Applications.

For information about installing Fiery JobFlow, see [Fiery JobFlow overview](#).

Note: By default, the input location for a job is a Fiery JobFlow SmartFolder. During installation of Fiery JobFlow, the installer automatically detects the drive which has more free space and creates a folder called SmartFolders. Within this folder, Fiery JobFlow will create folders for each workflow created in Fiery JobFlow. SmartFolders are published on the network for all users to submit jobs.

Note: Fiery JobFlow version 2.9.2 is 64-bit compatible.

Fiery JobFlow and embedded Fiery servers

You cannot install Fiery JobFlow on an embedded Fiery server. However, an administrator can add an embedded Fiery server as an output location to the Output module.

The following optional packages are required for Fiery JobFlow Base on embedded Fiery servers:

- For Fiery servers that are FS350 or earlier: Activate the Fiery Productivity Package.
- For Fiery servers that are FS400 or later: Activate the Fiery Automation Package.

For more information on the Output module, see [Module settings](#) on page 9.

Activate the Fiery JobFlow license

The full version of Fiery JobFlow requires a license and a valid email address.

Fiery JobFlow Base is free for standalone Fiery servers. On embedded Fiery servers, Fiery Productivity Package or Fiery Automation Package must be activated to use Fiery JobFlow Base. To start the process of upgrading from Fiery JobFlow Base to Fiery JobFlow, follow the steps below:

- 1 Install the free Fiery JobFlow Base.
- 2 Purchase a license key for Fiery JobFlow.
- 3 Log in to Fiery JobFlow Base and click Upgrade now.
- 4 Follow the steps in the License Activation window. For more information, click "?" (Help) in the upper-right corner.

The EFI licensing server manages licensing. You connect to the EFI licensing server to activate, deactivate, reactivate, and restore Fiery options. When you manage a license, the procedure depends on whether your computer has an Internet connection.

- If the computer is connected to the Internet, information is transferred between your computer and the EFI licensing server automatically.
- If the computer is not connected to the Internet, you must transfer information between your computer and the EFI licensing server manually.

Using Fiery JobFlow

Fiery JobFlow functions as a server after installation and can be accessed from a shortcut on the computer desktop placed automatically during installation.

When Fiery JobFlow is started for the first time after installation, the administrator will create an Admin password, and provide the IP address of a Fiery server, Fiery XF, or Fiery Central server. You can skip adding the IP address by clicking the Skip for now option and continue to access the Fiery JobFlow.

Note: You can create or import a workflow or view the Preflight module only after adding an output location. You can add the output location anytime by clicking Admin > Account Settings > Locations. For more information, see [Locations](#) on page 6.

To access the Fiery JobFlow server from a different client computer, you must have the IP address or domain name of the computer where Fiery JobFlow is installed. Connect through your browser. If you do not know the IP address of the server, ask the Fiery JobFlow administrator.

Note: During the installation process the Fiery JobFlow installer automatically checks if the preferred network port (80) is available. If the preferred network port is available, you can connect to the Fiery JobFlow server from another computer using the following URL: **http://<ip address>/jobflow/login**. If the alternate port has been selected, you can connect via the following URL: **http://<ipaddress>:44467/jobflow/login**.

Four levels of access are available for Fiery JobFlow: Administrator, Operator, Guest, and External Reviewers. The administrator password is set up during installation.

The Fiery JobFlow workspace

The Fiery JobFlow window displays in a browser.

Fiery JobFlow includes the following components:

- **Workflows tab:** Allows you to create new workflows, edit, or delete them. Create a workflow by selecting from the available modules.
- **Jobs tab:** Allows you to monitor the progress of your jobs. Two job states are displayed on each pane. For more information about the different job states, see [Monitoring jobs](#) on page 33.

The Jobs tab also provides a quick view of other job-related information such as workflow name of each job, links to view the job content and job reports.

- **Admin menu:** Provides access to administrator tasks: Account settings, Module settings, and Resources.

For information about Fiery JobFlow, click the **About** link in the lower-left corner of the Fiery JobFlow window. The About Fiery JobFlow window displays the following:

- Fiery JobFlow version
- Enfocus PitStop Library version

Workflows tab

You can sort and search for workflows in the **Workflows** area.

You can mark workflows as favorites. You can also save workflow queries to manage and access often used workflows and jobs. Favorites and saved searches are saved on a per user basis.

Workflows has the following tabs:

- **All Workflows:** Displays all the workflows you have created.
- **Favorite Workflows:** Displays the workflows you have marked as favorites.
 - To select a workflow as a favorite, click the star beside the workflow name.
 - To remove a workflow from the favorites list, clear the star beside the workflow name.
- **Generic Workflows**
- **Printer-Specific Workflows**

In all the tabs, workflows are listed by **Workflow Name**, **Modules** (within the workflow), and **Date Created**. You can sort by **Workflow Name** alphabetically, either ascending or descending, and by **Date Created**, either ascending or descending. You can also search for a workflow or workflows and save the search.

Note: If a Fiery server is unavailable, a warning icon appears in the **Modules** column. If a workflow includes a substitute Fiery server that is available, the warning icon does not appear.

Using the check boxes beside each workflow name, you can select one or several workflows for the **Export Workflows** function. For each workflow, you can duplicate, delete, or export.

Note: Workflows can be deleted even if there are associated jobs present in the workflow.

Printer-specific workflows

Printer-specific workflows are supported for Fiery server that use the FS600 and later.

When you install the Fiery JobFlow 2.9, six sample workflows are pre-installed with it. You can edit, duplicate, import, and export sample workflows; however, you cannot delete sample workflows.

The Input Sources and Output location is always the Fiery server.

You can edit, duplicate, delete, import, and export user-created printer specific workflows.

Note:

If a Collect module or Pages module are a part of a printer-specific workflow, then the Output module is editable where you can select a job action and preset.

User privileges

User privileges on Fiery JobFlow provide different levels of access to the server.

- **Administrator:** Has full access to all Fiery JobFlow features, such as specifying all Admin settings, uploading and managing resources, creating workflows, and editing or deleting all users' jobs. In addition, the Administrator can approve jobs within Fiery JobFlow.

The password for an Administrator is set up during the installation and activation process.

- **Operator:** Submits jobs, creates workflows, and can edit or delete any workflow that they have created. Operators can delete jobs and view resources and other settings in the Admin menu but cannot make changes.
- **Guest:** Submits jobs and views the progress of jobs on the Fiery JobFlow server. Guests does not see the Admin menu.
- **External reviewer:** Approves or declines jobs from anywhere. External reviewers have no direct access to the Fiery JobFlow server but receive email requests from the Fiery JobFlow administrator to review the jobs. External reviewers can approve or reject the job by looking at the job content and any linked preflight report.

Note: Any users with direct access to the Fiery JobFlow server can be named as internal reviewers.

Configuring Fiery JobFlow

The Fiery JobFlow administrator configures the Fiery JobFlow server from the Admin menu.

The Admin menu provides access to the following tabs:

- **Account settings:** Provides access to Profile, Notifications, User Management, Services, Locations, and Backup & Restore settings.
- **Module settings:** Provides access to settings for each of the modules.
- **Resources:** Allows the administrator to import Fiery Impose templates and Image Enhance presets, custom preflight profiles, action lists, connect packages, and variable sets from Enfocus PitStop Pro.

Note:

- Enfocus resources require the licensed version of Fiery JobFlow.
- To import and use Fiery Impose templates, a Fiery Impose license must be activated on the client computer. For Fiery JobFlow v2.7 with Command WorkStation v6.6, custom Fiery Impose templates are displayed only if Fiery Impose has been activated with a License Activation Code (LAC). Fiery Impose dongle-based licenses can be used only with Fiery JobFlow v2.6.1 or earlier and Command WorkStation v6.5 or earlier.
- **Sign Out:** Returns to the Log In window.

Set Account settings

The administrator can set up Fiery JobFlow account settings.

- 1 Log on to the Fiery JobFlow server as administrator.
- 2 Click the arrow next to Admin at the top right of the Fiery JobFlow window.
- 3 Select Account settings.
- 4 Specify Profile, Notifications, User Management, Services, Locations, and Backup & Restore as required by clicking on the tab for each.

Profile

Profile settings include the user privileges for the administrator and the language of the browser.

- **Account Information:** The administrator can view and edit the account information which the administrator entered during the initial setup process for Fiery JobFlow. All categories can be changed after initial setup: the email, name, and phone number. This account information is for the administrator of the Fiery JobFlow server.

Note: Any user who has logged in as an admin can change the account information. Multiple admin users are allowed.

- **Password:** The administrator password can be changed.
- **Language:** The administrator can choose to keep the default language of the browser or select another language.
- **Time Format:** The administrator can choose 12-hour or 24-hour time format.

Notifications

You can specify when (at which workflow step) to send email notifications. These notifications are used for every job submitted to Fiery JobFlow.

The administrator must provide an email address for notifications. The administrator is asked to provide an email address the first time they access the Notification Settings window. An activation code is sent to the email provided, and the administrator enters it into the Enter Activation Code field.

After the administrator has successfully enabled email notifications, the following options are available:

- **Send:** You can list up to four email addresses.
- **Jobs Activity:** You can specify at which workflow steps Fiery JobFlow sends emails to the email addresses you listed in the Send area, and specify whether to receive notifications when jobs are redirected to a substitute Fiery server.

You also have the option to restore default settings by clicking the Restore default settings button in the top right corner.

User management

Manage which users have access to Fiery JobFlow.

To add users, click the Add New User button, and then specify:

- **User Name:** Enter a name for the user.
- **Select Role:** Select Admin, Operator, Guest, or External reviewer.
- **Email ID:** Enter the email address of the user.

Email notifications will be sent to the user for confirmation.

To edit a user's role, click the Edit button. You cannot edit the user's name and email ID.

To delete a user, click the Delete button.

Services

Manage SMTP settings, and set up a schedule for automatic deletion of jobs.

- **Verify Viesus Cloud API key to access AI Image Scale module:** Type or paste a valid API license key from Viesus Cloud and click Verify to activate the AI Image Scale workflow in Fiery JobFlow.

Note: Viesus Cloud, a third-party solution, provides high-resolution enlargement service for images. For more information, see the [Viesus Cloud](#) website.

- **Units:** The default units of measurement for values used in Enfocus Pitstop Reports in Fiery JobFlow.
- **SMTP:** Set up the outgoing SMTP server for email notifications. If a user wants to send notifications through their own email server, then the server is set up here. Otherwise notifications are sent through the EFI Notification Service.
- **Proxy settings:** Set up and enable a proxy server to communicate transparently across a firewall.
- **Delete jobs:** If required, set up a schedule for automatic deletion of jobs every 1, 3, 5, 15, 30, or 60 days.
- **JobFlow Notifications:** If selected, you can receive in-app notifications including updates on upcoming releases and new sample workflows.

Locations

Add Fiery JobFlow locations to create additional methods to submit, archive, and/or output jobs.

SmartFolders

SmartFolders is the default location for submission of jobs. A root folder called SmartFolders is automatically set up during installation of Fiery JobFlow on the Fiery JobFlow server drive that has more free space. When the user creates a workflow, Fiery JobFlow automatically creates a subfolder for the workflow under the root folder. To submit jobs or an archive (a .zip file) with several jobs, you can use a drag-and-drop operation from the desktop of your computer to the browser.

On Fiery servers that are FS400 or later, when Fiery JobFlow version 2.9.2 or later is installed for the first time, SmartFolders are created in the J: drive. If you have Fiery JobFlow version 2.6.1 or earlier and you upgrade to Fiery JobFlow version 2.9.2, SmartFolders will continue to be created in the E: drive.

Note: On Fiery servers that are FS350 or earlier, SmartFolders are created in the E: drive.

Additional Fiery JobFlow locations

You can also use SMB, FTP, sFTP, Email, Dropbox, and Fiery locations as other Fiery JobFlow locations.

Note: When you add SMB, FTP, sFTP, or Fiery locations, select the Test Connection button to check that you have a successful connection. Make sure to get the location details from the administrator of each service and the required user name and password.

- SMB: Add SMB locations.
- FTP: Add FTP locations. Fiery JobFlow assigns a default port.
- sFTP: Add secure FTP locations. Fiery JobFlow assigns a default port.
- Dropbox: Fiery JobFlow can be connected to one or more Dropbox accounts at a time. The administrator of the Fiery JobFlow server sets up the primary Dropbox account, which is used for external reviewer approval or for an internal reviewer to approve or decline a job at any time anywhere.
- Fiery: Add a Fiery server, Fiery XF, or Fiery Central server as output locations. When added, Fiery XF displays as a separate category in the list of Fiery output options.

Note: When Fiery XF is added as an output location, you will need to select a printer from the Printers list. The Workflow and Media presets are specific to Fiery XF and can be created from Fiery Command WorkStation, an XF client computer, or any other application that supports the creation of these presets. After the presets are created, they will appear as options in the Output module when Fiery XF is selected as an output location.

- Email: Add email input and output location.

Backup & Restore

You can back up and restore settings, resources, and workflows, but not jobs.

You can specify backup locations and execute both backup and restore from the tab in Account settings. The process of restoring a backup will delete all current jobs in Fiery JobFlow.

Backup

- Choose location: Choose from the already added (SMB, FTP, sFTP or Dropbox) locations in Fiery JobFlow. The maximum number of backups allowed in each location is 30. When the thirty-first backup is initiated for a location, the oldest backup will be deleted. Backups are made automatically once a day when a location has been selected. Make sure the location has a minimum of 50 MB available.
- Backup now button: Click to back up the account settings, module settings, resources, and workflows manually.

Restore

The Restore options function offers the following choices:

- From a specific location: Select the backup file to restore from a specific location.
- From a recent backup: Choose from a list of backups present in the selected location that are sorted by date. Additional columns in the table show name of the backup file and the details of the settings in the respective file.
- Restore button: Having selected the location of the backup, click to start the restoration.

Automatic Backup & Restore

Fiery JobFlow automatically backs up workflows, Fiery JobFlow resources, and settings every day to the following location in your local system:

E:/efi/server/persist/fieryjobflow/backup.

- Fiery Backup: Fiery Backup operation copies all the data from E:/efi/server/persist/fieryjobflow/backup.
- Fiery Restore: Fiery Restore operation copies the file to E:/efi/server/persist/fieryjobflow/backup
- Fiery Restore operation creates a touch file to E:/efi/server/persist/fieryjobflow/restore_data
- After you reboot the Fiery server, Fiery JobFlow restores its resources from E:/efi/server/persist/fieryjobflow/backup and deletes E:/efi/server/persist/fieryjobflow/restore_data file.

Fiery JobFlow backup files are created in the location J://.FieryJobFlowBackup. The backup is initiated once per day and occurs at midnight. A maximum of 14 backup files are stored in the backup folder, and older files are automatically deleted and sent to the Recycle Bin folder.

J://.FieryJobFlowBackup folder must be deleted during Fiery JobFlow uninstallation.

This applies to Fiery JobFlow installed on Fiery. When Fiery JobFlow is installed on a standalone system, if a backup location has been set, it will also do an automatic backup.

License

You can find the License information from Account Settings > License tab.

If you have the free Fiery JobFlow Base, the browser includes an Upgrade now button. Click this button if you want to upgrade to the licensed version of Fiery JobFlow.

Note:

- To activate License Activation Code (LAC) from License Activation window, ensure that you have a valid SMSA.
- To upgrade JobFlow to the next version from Fiery Software Manager, ensure that you have a LAC, and a valid SMSA activated.

The License page shows:

- License Activation Code
- Deactivate tab
- Software Maintenance and Support Agreement (SMSA)

SMSA status notifications are displayed during the last 30 days of the SMSA validity period on the JobFlow screen and Fiery Software Manager. These notifications are also sent as an email to the user. Click Renew now on the notification to renew the SMSA.

Note: After the SMSA has expired, you can continue to use the current version of Fiery JobFlow but you cannot upgrade to the next version.

If you deactivate the Fiery JobFlow license, Fiery JobFlow reverts to the free Fiery JobFlow Base version. When you click Deactivate, you are redirected to the license manager. To reactivate the full version of Fiery JobFlow, enter the Fiery JobFlow license in the license manager and reload this page.

Updates to Fiery JobFlow are managed through Fiery Software Manager, which is accessible from an icon on the Windows task bar. The Check for updates icon is located in the upper-right corner in the Fiery Software Manager window.

Module settings

The administrator can change settings from the default for Fiery JobFlow modules. For more information about the Fiery JobFlow modules, see [About modules](#) on page 13.

The Collect, Fiery Preflight, Image Enhance, Impose, Output, and Pages modules are available with both the free Fiery JobFlow Base and the licensed Fiery JobFlow. Fiery JobFlow Base is not free for embedded Fiery servers because it requires a valid license for Fiery Productivity Package or Fiery Automation Package on the embedded Fiery server.

- **Collect:** Select from the Job Count, Page Count, or Time of day criteria to release jobs after reaching a specified number of jobs, a specified number of pages, or at a specified time of day. Additionally, you can specify other Release jobs options to detail how and in what order you would like to release the collected jobs. You can specify a Maximum Wait Time to release jobs which will override any other Collect Settings.
- **Fiery Preflight:** Select a Fiery Preflight preset. The presets displayed are the ones set up on the Fiery server that Fiery JobFlow is connected to. On Fiery servers, the Fiery Preflight module is not functional unless one of the following optional packages is activated:
 - For Fiery servers that are FS350 or earlier: Activate the Fiery Graphic Arts Package, Premium Edition.
 - For Fiery servers that are FS400 or later: Activate the Fiery Graphic Arts Pro Package.

Note: Fiery Preflight is available for embedded Fiery servers (FS400 or later) with a licensed version of Fiery Automation Package.

- **Image Enhance:** Select from the list of presets imported from Fiery Image Enhance Visual Editor.
- **Impose:** Select from the list of templates imported from Fiery Impose. The Impose module requires an activated Fiery Impose license on the computer where Fiery JobFlow is installed.
- **Output:** Select from a Fiery server, Fiery XF, Fiery Central printer group, a Dropbox account, SMB, FTP, Email, or sFTP locations. If you selected a Fiery server, select a job preset. Administrators can add up to two substitute Fiery servers if the output Fiery server is unavailable.

Note: The Substitute Fiery feature is available with the licensed version of Fiery JobFlow.

- **Pages:** Choose Split Job or Extract Pages to specify pages or page ranges to divide a job or extract from a job. You can specify pages and page ranges by clicking Change variables.

The Approve, Correct, Connect, Preflight, and AI Image Scale modules are only available with the licensed version of Fiery JobFlow.

- **Approve:** Set a schedule for sending automatic reminders to the reviewers. Select from every day, every two days, every three days, or never. If reviewers do not reply after five reminders, the job is canceled.
- **Correct:** Select from the list of actions for the Correct module.
- **Connect:** Edit or apply an action to a PDF using a third-party application.
- **Preflight:** Select the desired preflight template from the Profiles menu to apply to the job.
- **AI Image Scale:** Upscale images without losing quality.

Note: The administrator can also import custom Enfocus PitStop Pro Smart Profiles, action lists, and variable sets for use with the Preflight and Correct modules.

The Correct, Connect, Preflight, and Output modules support Master Variables. You can use Master Variables to override and update the default settings of the module. For more information, see [Master Variables](#) on page 29.

Resources

The administrator can import and export resources for use in Fiery JobFlow.

You can import and export resources from Admin > Resources > Resources tab.

After resources are imported, they can be exported and saved to a location of your choice.

Exporting resources

Resources that are imported to Fiery JobFlow can be exported and saved for future use.

You can export a resource from Admin > Resources > Resources tab. The resources available for export are listed in the lower section of the Resources tab.

Export resources

You can export either a single resource or multiple resources.

- 1 To export a single resource, select the check box for a resource and click the Export icon on the section header.

The resource downloads as a zipped folder to your Downloads folder. You can then open the folder or view the location where it downloaded.

- 2 To export multiple resources, select the check boxes for the resources and click the Export icon on the section header.

The resources download as one zipped folder to your Downloads folder. You can then open the folder to view the list of resources that have been exported.

Note: A Connect Package (.zip) cannot be exported.

Importing resources

The administrator can import Fiery Impose templates and Image Enhance Visual Editor presets, Connect Packages, custom Smart Preflight Profiles, Action Lists, and Variable Sets from Enfocus PitStop Pro in a drag-and-drop operation or by navigating to the location where the files are stored.

To import Smart Preflight Profiles, Action Lists, Connect Packages, and Variable Sets from Enfocus PitStop Pro, you must use the licensed version of Fiery JobFlow. Fiery Impose templates and Image Enhance Visual Editor presets are available with both Fiery JobFlow Base and Fiery JobFlow.

Note: To use Fiery Impose templates, even the default ones, you must have a Fiery Impose license activated on your computer.

Fiery Impose templates and Image Enhance Visual Editor presets are stored in the following locations on the computer where Command WorkStation is installed:

- Windows computer:
 - Image Enhance Visual Editor presets: **C:\ProgramData\Image Enhance Visual Editor\Preset**
 - Fiery Impose templates: **C:\Users\logged-in-user\Documents\Impose\template**

Note that this is the default location, which the user can change in Command WorkStation Preferences.

- Mac OS computers:
 - Image Enhance Visual Editor presets: **Applications/Fiery/Image Enhance Visual Editor/Image Enhance Visual Editor.app**
Right-click the location above and select Show package contents > Contents/SharedSupport/Preset.
- Fiery Impose templates: **\Users\logged-in-user\Documents\Impose\template**
Note that this is the default location, which the user can change in Command WorkStation Preferences.

Import resources

The Preflight Profiles, Action Lists, and Variable Sets must be created in PitStop Pro and exported before they can be imported into Fiery JobFlow. PitStop Pro's standard Preflight Profiles and Action Lists are listed by default in the Preflight and Correct modules.

- 1 Log in to Fiery JobFlow as administrator.
- 2 Click the arrow next to Admin at the top right of Fiery JobFlow window.
- 3 Select Resources.
- 4 Do one of the following:
 - Click Drop files to upload (Or click here), and navigate to the location of the resources and click Open.
 - Locate the files you want to import and drag them onto the Drop files to upload (Or click here) area.

The file types that are supported are:

- Impose Template (.dbt)
- Image Enhance Preset (.xml)
- Preflight Profile (.ppp)
- Action List (.eal)
- Variable Set (.evs)
- Connect Package (.zip)

You can import a mix of these file types in one upload.

Note: If the files are the wrong file format, a message is displayed that the file type is not supported.

XML Ticket mapper

Ticket mapper enables you to map XML ticket properties to a Fiery JobFlow master variable. Only XML format is supported.

You can create a mapping, save the mapping, and use the mapping in Fiery JobFlow.

- You can import an XML ticket and show all XML property paths.
- You can select a module setting or Fiery Job Property (PPD key) for an XML property path.
- The selected mapping between the XML and Fiery Job Properties must be saved in a format that can be used in a Fiery JobFlow workflow.

- You can associate an XML Ticket with a workflow.
- After creating a workflow, you can also drop the XML ticket to that workflow.
- The job gets fetched from the path specified in the XML and the job starts processing with the values assigned to it.
- The Jobs in progress and Jobs completed are seen in the Jobs page.
- You can verify the mapping of the XML ticket values to the Job Properties in Command WorkStation.
- You can also verify the mapping of the XML ticket from Jobs > Overview.
- Ticket Mapper generates a consolidated job with a merged PDF when multiple files are specified as a ticket, containing an array of files.

The default impose template is assigned to the job in the following instances:

- When you deactivate the Fiery Impose license and drop an XML job to a workflow that has a Ticket mapper with custom impose template assigned
- When you drop an XML job into a workflow with a custom impose template name in XML that does not exist

Import XML ticket mapper

- 1 Log in to Fiery JobFlow as an administrator.
- 2 Click the arrow next to Admin at the top right of Fiery JobFlow window.
- 3 Select Resources > Ticket Mapper.
- 4 Do one of the following:
 - Click Drop ticket to upload (Or click here), and navigate to the location of the resources and click Open.
 - Locate the tickets you want to import and drag them onto the Drop ticket to upload (Or click here) area.
- 5 Select the XML Ticket and click Open.
The Import Ticket window appears displaying the Ticket Mapping Name in a table format with Ticket Property, Value, and Master Variable columns.
- 6 Select all the appropriate Ticket Properties and the corresponding master variables from the Master Variable drop-down menu.

Note: Select the master variables that you wish to map to Job Properties in Command WorkStation.

For example:

- Location > JobPath: To define where to fetch the file from.
- Fiery > Copies
- Fiery > Preset

Note:

- You cannot choose the same master variable twice.
- You cannot import two XML Tickets that have the same name.

7 Name the XML Ticket mapping appropriately and click Save.

The imported XML Ticket mapping is displayed under the Ticket Mapper tab.

About modules

Each workflow you create in Fiery JobFlow consists of a series of modules that execute specific actions on job files. You can create multiple workflows for different types of jobs, each containing a different group of modules.

The following modules are available in Fiery JobFlow:

- [Input Sources](#) on page 13
- [Connect](#) on page 14
- [AI Image Scale](#) on page 16
- [Convert](#) on page 17
- [Collect](#) on page 17
- [Fiery Preflight](#) on page 18
- [Image Enhance](#) on page 19
- [Impose](#) on page 19
- [Pages](#) on page 20
- [Approve](#) on page 21
- [Correct](#) on page 21
- [Preflight](#) on page 22
- [Output](#) on page 23

The administrator can specify/configure module settings. See [Module settings](#) on page 9.

Input Sources

The Input Sources module is automatically added when you create a workflow.

Fiery JobFlow offers a number of input sources to a workflow. You can import files from a number of locations such as SMB, FTP, sFTP, a Dropbox account, email account, or a SmartFolder that has been set up on the Fiery JobFlow server. You can also use a drag-and-drop operation to submit a single job, multiple files, or an archive (a .zip file) from your computer desktop onto the workflow name in the browser window. The input source is shown in the workflow as a SmartFolder.

Note: If you submit an archive or a folder containing a number of jobs, the jobs are merged in Fiery JobFlow. Jobs will be merged in the alphabetical order of the file/job names.

Jobs can be submitted in an archived file to all input sources. Jobs can be submitted in a folder to all input sources except Dropbox.

SMB, FTP, sFTP, or Dropbox locations must be set up by the Fiery JobFlow administrator, and multiple instances for each type of location can be set up in Admin > Account settings > Locations.

SmartFolder is a folder which acts as an input queue for job submission to a specific workflow. There is one-to-one mapping between the workflow and the SmartFolder. Each SmartFolder will be created under a root folder called SmartFolders, which is automatically set up during installation of Fiery JobFlow. For more information, see [Submitting jobs](#) on page 31.

You can do the following:

- You can configure an email input location with a username, IMAP server location, login credentials, Input email address, and email subject.
- You can select only one email input configuration for each of the Fiery JobFlow workflow.
- Fiery JobFlow automatically extracts and processes PDF attachments from incoming emails.
- Fiery JobFlow processes incoming emails if the sender and subject match an email input configuration in Fiery JobFlow Locations.
- If the email is unread and the sender and subject match the selected email input configuration, Fiery JobFlow downloads the attached files.
- When Fiery JobFlow processes an email, the email status is changed to *read*.
- After the email is processed, a copy of the email body, including email sender details, is saved in the Fiery JobFlow Vault.
- You can configure the timeout for checking emails via `email_settings.config`.

Connect

The Connect module allows you to connect to third-party applications via connect packages, scripting, or hot folders.

Note: The Connect module is only available with the licensed version of Fiery JobFlow.

Use the Connect module to do either of the following:

- Convert native jobs to a format that Fiery JobFlow supports. To do this, add the Connect module to a workflow immediately after Input but before Convert. You can add multiple instances of the Connect module with different settings and parameters depending on the requirements of the job.
- Modify PDF jobs as a normal step in a workflow. To do this, add the Connect module anywhere in a workflow.

Note: The hot folders that the Connect module uses are not Fiery Hot Folders.

You can specify the location of a third-party application script or hot folder that applies an action to a PDF in a Fiery JobFlow workflow. For example, you may want to use a third-party application to enhance an image, or to convert a document created in another application, such as CorelDraw to PDF.

The Connect module offers users the option of selecting a pre-defined script, specifying a custom script, or using the Hot Folder settings. You can use the Maximum Wait Time option to specify a maximum time in seconds for jobs to remain in the output location after running a script.

Note: Scripting assumes that the user has a certain skill and knowledge level. The Connect module is intended for those users who are familiar with the basics of scripting and understand concepts such as arguments. We do not assume any responsibility for any errors that might result from a poorly written script. Fiery JobFlow does provide logs in the case of any errors so the skilled user can troubleshoot the issue.

Fiery JobFlow provides a sample of a simple script, and provides arguments, but does not provide information on how to write scripts. To view the sample, see <https://resources.fiery.com/jobflow/library> for location of samples. Also see <https://resources.fiery.com/JobFlow/ConnectCookbook>.

Note: You can choose either a pre-defined script, or a user-defined script, or hot folder locations in a workflow. You cannot specify all three in the same workflow. You can specify default settings for Connect in Admin > Module settings, but these can be edited for any workflow.

You can add a Connect module after an Output module. This feature is available with the licensed version of Fiery JobFlow. You can add all output locations. All connect features, such as connect packages, scripts, and hot folders, are available with this module. You can add only one Connect module after the Output module. The job is sent to the assigned Output location even before the job reaches the Connect module.

This option is available only for generic workflows and not printer specific workflows.

For more information about Output module, see [Output](#) on page 23.

Connect Packages settings

Connect Packages are archived zipped folders that have the required components to run a script. Connect Packages simplify the use of third-party application scripts.

You can import a Connect Package as a resource to Fiery JobFlow. Each Connect Package that is imported is displayed as an option in the Connect Packages list.

Note: A Connect Package (.zip) cannot be exported.

Select the Connect Packages radio button and choose a script from the list. All components required to run this script are pre-defined. Click the Change variables link to update additional parameters. Internal parameters such as runtime, relative runtime, option, and so on are not displayed in the Fiery JobFlow interface.

Connect Packages support Master Variables. You can use Master Variables to override and update the module's default settings and rename the jobs in the workflow. For information, see [Master Variables](#) on page 29.

With Fiery JobFlow 2.8 and later, in the Connect module, you can rename jobs using Master Variables. This helps to easily identify the job on the Fiery server.

Note: The updated job name is displayed only in the Fiery server, but in Fiery JobFlow, the original job name is retained.

Script settings

Select the Script radio button, and enter the location of the script you want to use.

To support user-defined scripts, Fiery JobFlow provides all the necessary information required to process a job using a script. Fiery JobFlow provides the following arguments:

- 1 Input Location: A temporary location where Fiery JobFlow will make the file available for processing.
- 2 Output Location: A temporary location where Fiery JobFlow waits for the processed file to be copied.
- 3 Job Name: The job name as shown in Fiery JobFlow.
- 4 Workflow Name: The name of the workflow where the script was initiated.
- 5 Preflight Name: Location of the last preflight report generated in that workflow.
- 6 Vault: A temporary location that exists while a job is being processed in a workflow.
- 7 Next Module ID: The internal ID for the next module in the workflow. The Next Module ID is required for Master Variables.

Arguments do not have names and you must tell the script in what order to interpret the arguments.

If there is an error executing a script on a job, Fiery JobFlow provides a link to an error log in the Error Jobs pane of the Jobs tab. Fiery JobFlow does not provide information on how to correct the script. The skilled user should be able to use the information provided in the log to correct the script.

Hot Folder settings

The first use of the Connect module is through hot folders. Select the Hot Folder radio button, and specify the location of the input hot folder (where to move the job) and the output hot folder (where the result is placed). You can also specify a limit for the processing time, to prevent Fiery JobFlow from waiting endlessly for a job to show up. The input and output locations are relative to the Fiery JobFlow server. Fiery JobFlow copies the job to the specified input folder. After the action is applied, the job is placed in the specified output folder with the same job name.

In the following example, the input and output locations are hot folders on the Fiery JobFlow server:

c:\hotfolders\input

c:\hotfolders\output

Network locations are supported by using the standard Windows notation for network locations:

\\server\hotfolders\input

\\server\hotfolders\output

Note: The Hot Folder in the Connect module is not a Fiery Hot Folder.

AI Image Scale

The AI Image Scale module allows you to enlarge images while retaining image detail, using a third-party solution. After specifying the upscale width, remove artifacts, images are processed remotely using a third-party solution. You must have a valid API license key to be able to use the AI Image Scale module.

Note: The AI Image Scale module is only available with the licensed version of Fiery JobFlow.

You can use the AI Image Scale module to upscale images in .jpg, .tiff, .heic, .png, and .webp formats to a higher resolution without losing quality.

The AI Image Scale module has the following settings:

- **Enhance Resolution:** Select the desired method for upscaling to increase image resolution without quality loss.
- **Upscale Output Resolution (DPI):** Specify the output resolution for the image after upscaling.
- **Upscale width:** Type the desired value in numerals and select the corresponding measure in Millimeters, Centimeters, Inches, Feet, or Meters from the drop-down list.
- **Remove Artifacts:** Select from the available options of Scan and Auto Detect, Off, or On.
- **Image Enhance:** Select the check box to enhance the image.
- **Enhance Face Details:** Select the check box to enhance the face details.

Note:

The minimum file size supported is 5 KB.

Convert

The Convert module is automatically added when you create a workflow. The Convert module allows you to process and convert different file types into Adobe PDF files.

The following file types are supported:

- BMP
- DCM
- DNG
- FAX
- GIF
- HEIC
- JPG
- JPEG
- Microsoft Excel
- Microsoft PowerPoint
- Microsoft Publisher
- Microsoft Word
- MJM
- PCX
- PNG
- PSD
- SVG
- TIF
- TIFF

Note:

- If a job requires a non-PDF dependent workflow, you have the option to delete the Convert module and have the job output in a non-PDF file format.
- The MJM (JDF Mime) file type is supported on Fiery servers, Fiery Central servers, and Fiery XF servers with the Fiery JDF option enabled. Fiery JobFlow provides logs in case of errors so the skilled user can troubleshoot the issue.

Collect

The Collect module allows you to specify criteria to collect jobs before the jobs are released. Depending on the criteria specified, the jobs in the workflow will wait until the criteria have been met. After the criteria have been met, the jobs are released to the remaining modules of the workflow.

The Collect module can be added only after the Convert module in a workflow.

Jobs with Collect settings specified are listed in [Jobs > Overview > Jobs collected](#) or [Jobs > All jobs > Jobs collected](#).

The Collect module has the following settings:

- **Job Count:** Specify a number of jobs that have to be collected before the jobs can be released to the next module in the workflow. For example, you can specify the Job Count as 50. The jobs in the workflow will wait until the job count reaches 50 before being released.
- **Page Count:** Specify a number of pages that have to be collected before the jobs can be released to the next module in the workflow. For example, you can specify the Page Count as 100. The jobs in the workflow will wait until the total number of pages in the jobs that are being collected reaches 100.
 - **Exact Match:** The Page Count quantity will specify the exact number of pages to be collected before being released to the next module in the workflow. For example, you can specify the Page Count as 10 and select Exact Match. Job flow will wait until there are exactly 10 pages before releasing the collection to the next module. Another collection will be started to collect overflow jobs.
- **Time of day:** Specify a time in hours and minutes to release jobs to the next module in the workflow.

Note: Admin users can set the time format to either 12-hour or 24-hour format in [Admin > Account settings > Profile > Time Format](#).

Additionally, you can specify the following settings:

- **Release jobs:** Select how the collected jobs are to be released. The options in the list are:
 - **Individual:** Each collect job is released individually.
 - **Merged:** Individual jobs are merged and processed as a single job.
 - **Collated:** When individual jobs are merged, all page numbers that are marked the same are merged. For example, if you have five jobs, page one of all five jobs are merged. You can use this option if you want to impose multiple booklets or if you want to create stacks of multiple jobs.
- **Note:** Collated jobs will be merged. You cannot collate without merging.
- **Order in which the jobs are to be released.** The options in the list are:
 - **By submission time:** Jobs follow the First In First Out (FIFO) rule when they are released.
 - **By name:** Jobs are released in alphabetical order.
- **Maximum Wait Time:** Specify a maximum time in minutes for jobs to wait after arrival before releasing jobs to the next module.

Note: This setting takes priority over the other collect settings if the Maximum Wait Time passes before other release criteria are met.

Note: You can click the Release Now link in the Jobs collected category in the Overview and All jobs tabs, if you choose to override the Collect settings.

The Collect module is especially useful in the following scenarios:

- When users pre-load printers with a particular type of media and want the jobs to print using only the pre-loaded media. Use the Collect settings to specify the number of jobs or pages to be collected in order to completely utilize the pre-loaded media.
- When users require to use specialty ink or toner. Use the Collect settings to wait to collect a certain number of jobs or pages that require the use of the specialty ink or toner. For example, if only one specialty toner is supported, you can use the Collect settings to wait until you have the required number of jobs or pages and then release the jobs to print using the specialty toner. Users can avoid having to switch toners between jobs.
- When users require to use the auto layout of business cards based on stack size and quantity. Users can create a workflow where the Page Count criteria is specified based on the quantity of business cards required. When the page count criteria is met, the job is automatically released.
- When users want to collect jobs so that they match an exact number of pages to optimally fill an imposed sheet.

Fiery Preflight

Use the Fiery Preflight module to check a job for errors before printing. This reduces costly printing errors. Fiery Preflight checks the most common areas of error to ensure that a job will print successfully and to the expected quality on the selected printer.

Fiery Preflight uses a Fiery Preflight preset to check a job for errors before printing. Fiery JobFlow detects and displays all preflight presets available on the Fiery server designated as the output device. If no presets have been configured, the default preset will be displayed.

Fiery Preflight generates a report of errors as well as information about the job, including security settings, page size, and color spaces.

Fiery Preflight settings can be saved as a preset. Configure Fiery Preflight presets in Command WorkStation to specify which categories of errors to check and how errors are reported. All presets configured on the Fiery server you are connected to are displayed in Fiery JobFlow.

The following file formats are supported for Fiery Preflight: PostScript, PDF, EPS.

TIFF and PCL file formats are not supported for Fiery Preflight.

Fiery Preflight can check for the following categories of errors:

- Fonts - Missing fonts and Courier font substitution.
- Spot Colors - Missing spot colors. You can add missing spot colors in Command WorkStation Spot Colors.
- Image Resolution - Image resolution less than a specified value.
- Hairlines - Line thickness less than a specified value.
- Overprint - Overprint.
- PostScript - PostScript errors.

Note: If a job errors because of a Fiery Preflight error, you can choose to override the error if the job is a rush job or the error is not important enough to stop output. The job will be displayed in the Error Jobs pane of the Jobs tab in the Fiery JobFlow window. Click **Override** to override the error and complete the job. The **Override** option is not displayed if a Move or Copy rule was defined for the module. The **Override** option is also available for the Correct and Preflight modules with the same limitation.

Image Enhance

The Image Enhance module provides automated image correction of images in PDF documents. Choose from the presets in Image Enhance Visual Editor in Command WorkStation installed on Fiery JobFlow server.

Impose

The Impose module allows you to apply different imposition templates to a job.

Note:

- The Impose module requires a Fiery Impose license to be activated on the same computer where Fiery JobFlow is installed. If a Fiery Impose license is activated, you can use both the default and custom templates. If Fiery Impose has not been activated, you can select from the list of default templates, but if you print jobs using those templates, a watermark is displayed on the printed output.
- Command WorkStation v5.5 or later must be installed on the same computer as Fiery JobFlow to use Fiery Impose templates.
- For Fiery JobFlow v2.7 with Command WorkStation v6.6, custom Fiery Impose templates are displayed only if Fiery Impose has been activated with a License Activation Code (LAC). Fiery Impose dongle-based licenses can be used only with Fiery JobFlow v2.6.1 or earlier and Command WorkStation v6.5 or earlier.

Fiery Impose templates

You can add a default or custom imposition template from Fiery Impose.

The latest version of Command WorkStation that is available from <https://resources.fiery.com/commandworkstation> must be installed on the same computer as the Fiery JobFlow server, and the Fiery Impose license must be activated to access the templates.

Note: The demo version of Fiery Impose is installed with Command WorkStation software.

The following list shows all the default templates available from Fiery Impose:

Normal

- 1-up full bleed

Booklet

- 2-up perfect
- 2-up saddle
- 4-up head-to-head

Gangup

- 3-up trifold brochure
- 4-up gate fold
- 4-up Z-fold

When Fiery Impose Plus license is activated, seven factory default templates are displayed in templates drop-down list of the Fiery Impose module. Using Fiery Impose plus you can utilize all Fiery JobFlow features for workflow automation for large sheet sizes.

Pages

Use the Pages module to split a job into multiple jobs or extract pages from a job in a Fiery JobFlow workflow. After the pages from the job are specified, the job is released into the remaining modules in the workflow. The split job or extracted pages will continue in the same workflow. Master Variables are supported for all settings in the Pages module.

The Pages module has the following settings:

- **Split Job:** Specify where to split a job to create multiple jobs in a workflow. Fiery JobFlow will automatically name split jobs with the filename and the page range.
 - **After every 'n' page:** Specify the number of pages to split a job. For example, you can split a job with 100 pages into 10 separate jobs. When you click **Change variables**, you can specify the number where a job should split.
 - **At bookmark level:** Specify to split the job at the PDF bookmark level. You can specify the bookmark level by clicking **Change variables**.
 - **After page number:** Specify pages where the job should be split. You can split a job by specific pages and page ranges by clicking **Change variables**.
- **Extract Pages:** Specify pages to keep in a job or remove from a job.
 - **Keep pages:** Specify pages or page ranges in a job to continue in the workflow. Pages not specified will not be retained in the job. You can specify the page number and page ranges to keep by clicking **Change variables**.
 - **Remove pages:** Specify pages to delete from a job. Pages not specified will continue in the workflow. You can specify the page number and page ranges to remove by clicking **Change variables**.

Approve

The Approve module enables users to assign external and internal reviewers to approve a job. All reviewers get an email notification with a link to review the job and inspect the preflight report. Once they do that, they can approve or reject the job. The approval process for internal and external reviewers is similar, the only difference being that internal Fiery JobFlow reviewers get a direct link to the job on the Fiery JobFlow server, while external reviewers get a link to a Dropbox location. Users with administrator status are the only ones who can approve the job from within Fiery JobFlow. To do that, they navigate to the Jobs waiting for approval section in the Jobs tab, and click the Approve icon.

Note: The Approve module is only available with the licensed version of Fiery JobFlow.

Specify a reviewer

You can specify reviewers for the workflow. Fiery JobFlow users can be internal reviewers who can approve the job in Fiery JobFlow or if they have selected the Approve Anywhere option, view the job in Dropbox.

External reviewers have no direct access to Fiery JobFlow but are contacted by email. When they accept an invitation to approve or decline jobs, and are then sent a job to approve, they can view the job content and any Preflight or Correct reports. When the Fiery JobFlow administrator is selected to approve jobs, the administrator approves it within Fiery JobFlow.

- 1 Select either Internal reviewers or External reviewers.
- 2 If you select Internal reviewers, you can choose to have the reviewers review jobs from any location.
- 3 In the Select reviewers field, add reviewers by selecting them from the list.

Up to two reviewers can be added to either the Internal or External reviewers. To do so, provide a user name, role, and email address. Emails will be sent to the reviewers inviting them to be a reviewer. If you select Admin, the administrator clicks the Approve job icon in the Jobs waiting for approval area to approve within Fiery JobFlow.

Correct

Use the Correct module to apply Enfocus PitStop Actions to an incoming job. Actions added to a workflow are used to automatically apply modifications to the file, such as adding page numbers, converting colors, or adjusting resolution of images. You can select from the standard Action Lists, or you can apply Variable Sets created in Enfocus PitStop Pro to Smart Action Lists.

Variables in PitStop Pro can be either constant or rule-based. A constant variable might be a text string, a number, a measurement, or a yes/no or on/off value. A rule-based variable allows you to use a constant variable to determine the value change in another preflight check. For instance, if your variable definition is output type, and you have different possible values, such as digital or offset, the image resolution will change according to the value.

Note:

- If a job fails at the Correct module, you can choose to override the error. The job will be displayed in the Error Jobs pane of the Jobs tab in the Fiery JobFlow window. Click Override to override the error and complete the job. The Override option is not displayed if a Move or Copy rule was defined for the module.
- The Correct module is only available with the licensed version of Fiery JobFlow.

Apply Smart Action List settings

To use a Smart Action List, you need to create a variable set to use with your Action List.

A Variable Set is a set of different variables saved within an editable file format that can be uploaded to Fiery JobFlow. You can define as many variable sets as you need and each variable set can contain as many variables as required; however, you can only activate one variable set at a time.

- 1 In the Workflows tab, select your workflow and click the Edit icon.
- 2 Click the plus sign below the module name where you want to add the new module.
- 3 Select Correct in the Add Module area.
- 4 Select a Smart Action List from the Actions list.

All the Smart Action Lists are listed below the heading, Custom Smart Action Lists. Fiery JobFlow provides a sample action list.

- 5 To change the variables in the variable set displayed, click Change variables.

Variable sets may consist of Boolean choices, a simple number or text values, or a list of variables. Change variables by selecting from the list, if one is available. You can also enter content in the text field. To see a description of the variable, hover the cursor over the text field. Variables that cannot be changed are constant.

- 6 Change any variables you want and click Save.
- 7 Click Add.

Note: The Smart Action Lists listed below the heading Custom Smart Action Lists support Master Variables. You can use Master Variables to override and update the default settings of the module. For more information, see [Master Variables](#) on page 29.

Preflight

Use the Preflight module to inspect an incoming job by applying Enfocus PitStop PDF profiles. Preflighting checks a PDF file to see if it conforms to a set of standards defined in the PitStop PDF Profile that is used.

A description of each Preflight Profile can be viewed by selecting the profile name from the Profiles menu. You can select from the standard Preflight Profiles, or can apply Variable Sets created in Enfocus PitStop Pro to Smart Preflight Profiles.

Variables in PitStop Pro can be either constant or rule-based. A constant variable might be a text string, a number, a measurement, or a yes/no or on/off value. A rule-based variable allows you to use a constant variable to determine the value change in another preflight check. For instance, if your variable definition is output type, and you have different possible values, such as digital or offset, the image resolution will change according to the value.

Note:

- If a job fails at the Preflight module, you can choose to override the error. The job will be displayed in the Error Jobs pane of the Jobs tab in the Fiery JobFlow window. Click Override to override the error and complete the job. The Override option is not displayed if a Move or Copy rule was defined for the module.
- The Preflight module is only available with the licensed version of Fiery JobFlow.

Apply Smart Preflight settings

You can also use a Smart Preflight Profile.

To use Smart Preflight, you need to create a variable set to use with your Preflight Profiles.

A variable set is a set of different variables saved within an editable file format that can be uploaded to Fiery JobFlow. You can define as many variable sets as you need and each variable set can contain as many variables as required; however, you can only activate one variable set at a time.

- 1 In the Workflows tab, select your workflow and click the Edit icon.
- 2 Click the plus sign below the module name where you want to add a new module.
- 3 Select Preflight in the Add Module area.
- 4 Select a Smart Preflight Profile from the Profiles list.

All the Smart Preflight Profiles are listed below the heading, Custom Smart PDF Profiles. Fiery JobFlow provides a sample profile, Smart Preflight - PitStop Pro v1.1.

- 5 To change the variables in the variable set displayed, click Change variables.

Variable sets may consist of Boolean choices, a simple number or text values, or a list of variables. Change variables by selecting from the list if one is available, or enter content in the text field. To see a description of the variable, hover the cursor over the text field.

- 6 Change any variables you want and click Save.
- 7 Click Add.

Note: The Smart Preflight Profiles listed below the heading Custom Smart PDF Profiles support Master Variables. You can use Master Variables to override and update the default settings of the module. For more information, see [Master Variables](#) on page 29.

Output

The Output module is automatically added when you create a workflow. Use the Output module to add output devices and select job actions and job presets.

The Output module allows you to choose from either the Fiery server, Fiery XF, Fiery Central printer group selected during setup, a Dropbox account, SMB, FTP, email, or sFTP location. For the selected Fiery server or Fiery Central printer group, you can select from the list of presets shown. The presets are the server presets on the selected Fiery server or Fiery Central printer group.

The Output module has the following settings:

- **Output:** Select from a Fiery server, Fiery XF, Fiery Central printer group, a Dropbox account, SMB, FTP, email account, or sFTP locations. If you selected a Fiery server, select a job action and a job preset, then click Save.

Note: You must set up locations for them to be displayed in the Output module.

You can define email as an output location. You can configure email with the name, Output Email Address, Subject, and From Address. If a workflow includes Email Input, you have the option to choose the original sender's email address as the recipient for the email sent through the Email Input module. Other alternatives include specifying a custom email address or using the default email address.

- **Fiery JobExpert:** For Fiery servers FS400 Pro or later, you can use JobExpert to apply suggested job properties to jobs. JobExpert analyzes the job and optimizes job properties to provide high-quality output.

To enable JobExpert, select the Apply JobExpert check box and choose an option from the list of predefined rules.

- For Fiery servers you have the option to add up to two substitute Fiery servers. If the output Fiery server is unavailable, jobs will be redirected to the first substitute Fiery server. In the event that the first substitute Fiery server is down, jobs will be redirected to the second substitute Fiery server.

If a redirection email is selected in the Notification Settings, then an email notification is sent with details of the Fiery server name to which the job is redirected.

Note: Fiery JobFlow sends a job to a substitute Fiery when Fiery is in an error state, there is a paper jam or the paper supply runs out.

- To add a substitute Fiery server, click the plus sign. Choose a Fiery server from the Output list and select a job action and a job preset, then click Save.

Note: Substitute Fiery servers are only available for Fiery servers. Substitute Fiery servers are not available for Fiery XF or Fiery Central servers.

- The following are a part of the Output master variables:
 - Preset option for Fiery server and Ticket (.csv) jobs.
 - Workflow and media options for Fiery XF.

About workflows

You can create a workflow by adding modules. Input Sources, Convert, and Output modules are automatically added to the workflow.

In addition to the default modules that are added when you create a workflow, you can also add the Connect, AI Image Scale, Collect, Fiery Preflight, Image Enhance, Impose, Pages, Approve, Correct, and Preflight modules. For information, see [About modules](#) on page 13.

You can find the workflow sequence by determining the Module ID, when you hover over the modules.

Workflow types

You can create the following types of workflows:

- **Printer specific workflow:** Access workflow and apply to jobs available in Fiery Command WorkStation.
- **Generic workflow:** Access workflow from the Fiery JobFlow application, apply to any job and send to any printer/location.

Fiery JobFlow 2.8 is not supported on Fiery server that are FS600 and later.

Create workflows

1 Click the plus sign next to the Workflows header in the Workflows tab.
The Create New Workflow window opens.

2 Select one of the following options:

- Printer Specific
- Generic

Note: Printer-specific workflows are available only on a Fiery server that is FS600 or later.

3 Type a name for your workflow.

4 Click Create.

5 Click the Edit button for Input Sources and select from the list of locations.

The locations where your workflow is saved are displayed.

The following are applicable:

- You can add up to a maximum of five input sources.
- After the Input Sources module, you can add either the Connect module, the AI Image Scale module, the Convert module, or all three, depending on the requirements of the job.
- After the Input Sources module, you can add multiple instances of the Connect module with different settings and parameters, depending on the requirements of the job.

Note: You can select the Ticket Mapping check box and select any imported XML ticket mapping from the available drop-down list.

6 Add the Connect module to convert native jobs to a format that Fiery JobFlow supports using a third-party solution. Specify script or hot folder parameters.

7 Add the AI Image Scale module to enlarge images using a third-party solution. Specify scaling method, resolution, and output size parameters.

8 Add the Convert module if the job needs to be converted to a PDF. If the Convert module is added, you can add any of the other modules as all the other modules are PDF-dependent.

If the job is non-PDF dependent, you have the option to delete the Convert module, bypass other modules that are PDF-dependent, and directly output the job to a specified output location.

- 9 Click the plus sign below the Convert module to add the Collect, Fiery Preflight, Image Enhance, Impose, Pages, Approve, Correct, Connect, or Preflight modules.

For information about individual modules and settings, see [About modules](#) on page 13 and [Module settings](#) on page 9.

- 10 Specify the settings for each module and click Add to add the module to the workflow.

- 11 In the Output pane, select from a Fiery server, Fiery XF, Fiery Central printer group, Dropbox account, SMB, FTP, Email, or sFTP location.

If you selected a Fiery server, select a preset and then click Save. You can also add additional substitute Fiery servers by clicking Add a substitute Fiery server.

- 12 When creating or updating workflows, you have the option to:

- Add rules to each module to trigger a certain action based on the job status (passed or failed). The available rules are Archive job, Send email, Move job, Copy job, and Run script and Ignore and continue.

Note: To set a rule, click Manage rules > Add, define If (trigger) and (Then) action, and click Save.

- Search for a particular function, module, or setting. You can type the search criteria or keyword in the Search box. To save the search, click Save.

The search results display all modules with settings that match the search criteria. For example, if you type **bleed** in the Search box, the search results display all modules with settings related to the keyword **bleed**.

Note: Users can view only their own saved search criteria.

- Use the drag-and-drop operation to submit a single job, multiple files, or an archive (a .zip file) from your computer desktop onto the workflow.
- Delete a workflow, even if there are associated jobs present in the workflow. Deleting a workflow removes all associated workflows and the completed jobs automatically.

Associated workflows are workflows which are connected via rules.

Edit workflows

Depending on the requirements of different jobs, you can edit and save workflows under different names to be used for different jobs.

Edit workflows by:

- Adding or deleting modules
 - Changing the settings of modules
 - Changing the order of modules in the workflow
 - Renaming the workflow
 - Adding a description of the workflow
- 1 To edit a workflow, click the workflow name in the Workflows tab.
In the editing window that opens, you can edit the workflow according to the requirements of the job.
 - 2 To add a module, click the plus sign below each module.
The modules that can be added are displayed.

- 3 To delete a module from the workflow, click in the pane of the module that you want to delete. Then click the Delete icon.
- 4 To change the settings of a module, click in the pane of the module that you want to edit. Then click the Edit icon, select a setting, and click Save to save the changes.
- 5 To change the order of modules in the workflow, select a module in the right pane of the editing window, and drag it to the new location you want.
- 6 To rename the workflow, in the right pane of the editing window, click the Edit Workflow icon. In the Edit Workflow dialog that opens, enter a name and a description of the workflow. Click Update to save the changes.

Duplicate modules

You can duplicate a module in a workflow, which can save time when you know you are going to use the same settings.

- 1 Click the Workflows tab.
- 2 Open a workflow.
- 3 Click in the pane of the module that you want to duplicate.
- 4 Click the Duplicate icon.

Note: Not all modules can be duplicated. The Duplicate icon is not displayed if the module cannot be duplicated.

Duplicate workflows

You can duplicate any workflow and modify it to create a new workflow. This functionality is useful for an environment where there is a standard default workflow with minor variations for different jobs.

- 1 Click the Workflows tab.
- 2 Hover the cursor on the name of the workflow and click the Duplicate Workflow icon on the right side.
- 3 Type a name for your workflow and click Create.

You can now edit your workflow.

Export and import workflows

You can export and import Fiery JobFlow workflows for use with another Fiery JobFlow server.

A workflow is exported and imported as a compressed (zipped) folder, which contains all the resources required for printing the job. You can export or import a single workflow or multiple workflows in one operation.

- 1 To export a single workflow, in the Workflows tab, select the check box for a workflow or put the cursor in the workflow row and click the Export Workflow icon.
The workflow downloads as a zipped folder. The zipped folder, retaining the same name as the workflow, is saved to your Downloads folder. You can then open the folder or view the location where it downloaded.

- 2 To export multiple workflows, select the check boxes for the workflows and click the Export Workflows icon in the header row.

The workflows are downloaded as zipped folders.

Note: In a workflow, if the Connect Packages setting is selected in the Connect module, then the Connect Package will not be exported.

- 3 To import a workflow or workflows, click the Import Workflows icon in the header row.

- 4 Browse to the location where the zipped workflow folder is located, select the file, and click Open.

If the workflow you are importing contains a resource named the same way as an existing one, you will be asked whether you want to replace the resource on the Fiery JobFlow server, cancel the import, or continue.

If you select Continue, the workflow is imported, but the resources are not replaced.

If the workflow you are importing has the same name as an existing workflow, the imported workflow will be renamed as "Copy of <workflow name>."

Import custom workflows

You can import workflows specific to your Fiery server in Fiery JobFlow.

Before you begin, you can change the default output Fiery server in Admin > Module settings > Output. When you import a custom workflow, the workflow is automatically configured with the default output Fiery server.

- 1 In the Notification Center pane, click the custom workflow name in the Workflows section.
The Workflows tab opens.
- 2 Click Import workflows in the dialog box that appears.
- 3 Click Continue.

Note: Some licensed modules may be included in a custom workflow. An error may occur for each unlicensed module. You can click Continue and then click Import to continue importing modules that do not require a license. You can also click Cancel Import to stop importing modules and navigate to the License Activation window to activate a license.

- 4 Click OK.

Adding rules to workflows

Rules can be added to modules in a workflow.

You can set up an action depending on whether the module fails or passes.

The possible rules are:

- Send email: Select users.
- Archive job: Choose a location.
- Run script: Provide script location and optional arguments.
- Copy job: Choose a workflow you would like to copy the jobs to: Conversion, Impose, Image Enhance, or Fiery Preflight.
- Move job: Choose a workflow you would like to move the jobs to: Conversion, Impose, Image Enhance, or Fiery Preflight.

Only Send email and Archive job rules are applicable for the Output and Connect module (if Connect is the last module).

The Move job action is available for jobs that fail or pass all modules using an Enfocus PitStop Preflight profile or Actions list. To advance a job through a workflow regardless of failed checks, you can set an Ignore and continue action for failed Preflight and Correct results. Ignore and continue action is applicable for Fiery Preflight.

Rules scripting

Run script has been added as a rule for modules.

Fiery JobFlow Rules scripting can be used to:

- Archive a Fiery JobFlow job to a location that is not supported by Fiery JobFlow Locations.
- Send notifications using a third-party solution for those customers who do not want to use email notifications.

Rules scripting follows the same conventions as the scripting in the Connect module with one exception: Fiery JobFlow does not expect a script to generate output that needs to be processed further in a workflow.

Fiery JobFlow provides the following arguments for Rules scripting:

- 1 Input Location: a temporary location where Fiery JobFlow will make the file available for processing.
- 2 Job Name: the job name as shown in Fiery JobFlow.
- 3 Workflow: the name of the workflow where the script was initiated.
- 4 Preflight Report: location of the last preflight report generated in that workflow.
- 5 Vault: a temporary location that exists while a job is being processed in a workflow.

For sample scripts, see <https://resources.fiery.com/jobflow/library>.

Master Variables

Master Variables are configuration files that provide users the flexibility to override and update the default settings of a module, depending on the requirements of the job.

When creating workflows, you can select modules and specify settings in each module. Jobs that are submitted to the workflow are processed using these default settings. Using Master Variables, you can override and update the default settings of a module, thus making the module job-specific instead of workflow-specific.

Master Variables can be defined in the Correct, Connect, Collect, Preflight, and Output modules. If a job uses any of these modules, you can use the Master Variables present in these modules to update the default settings.

Master Variables are available in the following module settings:

- Correct: Smart Action Lists
- Connect: Connect Packages
- Preflight: Custom Smart PDF Profiles
- Collect: Job count and Page count
- Output: Job Properties for Fiery JobFlow and Workflow and media setting for Fiery XF.

To override the default settings using Master Variables, you must add the Connect module above the Correct, Connect, Collect, Preflight, or Output modules. When added, the Connect module creates an editable JSON

(JavaScript Object Notation) file that is used by the subsequent module in the workflow. For the JSON file to be able to use the Master Variables effectively, the following are applicable:

- The JSON file should be valid. An invalid JSON file will cause the job to fail.
- The JSON file should be named as 'params_NextModuleID.json'. The correct ID is provided by Fiery JobFlow as a script argument.
- The JSON file should contain the Master Variables whose values you want to override.

For information about creating Master Variables, see <https://resources.fiery.com/JobFlow/ConnectCookbook>.

Use Master Variables

- 1 In the Workflows tab of the Fiery JobFlow workspace, click the name of the workflow whose module settings you need to override.
The workflow opens listing the modules.
- 2 If the workflow has either the Correct, Preflight, Connect, or Output modules, click the plus sign of the module above and add the Connect module.
The Connect module creates a JSON file and saves it in a predefined location (Vault folder).
- 3 Access the JSON file and update the settings according to the requirements of the job.
Note: If you enter values that are not within the supported range of the setting, the job will fail when it is processed.
- 4 Submit the job to the workflow.
The job is processed using the updated settings. The updated values and the Master Variables icon are displayed next to the setting that has been updated.

Note: Fiery XF does not support Master Variables.

About jobs

All users can submit jobs and monitor the progress of their jobs in the Fiery JobFlow interface.

When a job is submitted, it is immediately processed through the selected workflow. You can use the drag-and-drop operation to submit a single job, multiple files, or an archive (a .zip file) from your computer desktop onto the workflow name in the Fiery JobFlow interface.

Jobs can be submitted in a number of different file formats to workflows that are PDF or non-PDF dependent.

- PDF-dependent: The Convert module converts jobs to Adobe PDF. In a PDF-dependent workflow, after using the Convert module, you have the option to select from any of the remaining modules as all other modules are PDF-dependent.
- Non-PDF dependent: You have the option to delete the Convert module, bypass other modules that are PDF-dependent, and directly output the job to a specified output location.

Note: You can find the status of a particular job by identifying the Fiery JobId in the Vault folder of the job, instead of manually checking in Command WorkStation.

Submitting jobs

You can submit jobs from a number of locations:

- Dropbox
- SMB
- FTP
- sFTP
- Email
- Drag-and-drop operation from the computer desktop onto the browser where Fiery JobFlow is open.

The locations are set up by the administrator from Admin > Account settings and multiple instances of each type of location can be added. You can choose to have both completed and errored jobs archived in any location.

Jobs can be submitted as a single file or a folder or an archive (a .zip file). When a number of files are submitted inside a folder or an archive, Fiery JobFlow combines them into one job. The files will be merged in the alphabetical order of the file/job names. You can submit a folder to all input sources, except Dropbox. All input sources accept an archive or a single file.

SmartFolders

You can also submit jobs using the default location of SmartFolders.

SmartFolders are automatically created during installation of Fiery JobFlow as a root folder on the computer drive that has most space available. When a workflow is created in Fiery JobFlow, a corresponding folder with the name of the workflow is created inside the SmartFolders folder. SmartFolders are shared across the network, and accessed by SMB from any Windows or Mac computer on the network. Ask the administrator for the IP address or domain name. You can either copy and paste or use a drag-and-drop operation to submit jobs to a specific SmartFolder.

Job tickets

Fiery JobFlow Ticket is a feature in Fiery JobFlow Base that allows users to submit jobs via a simple, text-based ticket with which they can define the order of jobs, the number of copies per jobs, and if the jobs should be merged or not.

A Fiery JobFlow Ticket is a text file with comma-separated values. Currently, Fiery JobFlow supports two columns: job location and number of copies. You do not need to add a header or name the columns. Fiery JobFlow always assumes job location is in column one and number of copies is in column two.

You can add comments in the ticket by beginning a line with //. Fiery JobFlow will ignore anything in a comment line. You can tell Fiery JobFlow to merge jobs in a ticket by adding an action. The # character prepends the action. Currently, Fiery JobFlow only supports the **#merge** command. You can also use wildcards to retrieve jobs.

The resources used below can be found at: <https://resources.fiery.com/jobflow/library>.

Examples of a ticket to retrieve jobs from a local folder or network location and sets copies per job:

- // **Filename, NumCopies**
- **c:\folder\Bedding Flowers.pdf,10**
- **c:\folder\Direct Sow Flowers.pdf,10**
- **c:\folder\Flowering Bulbs.pdf,5**
- **\\networkdrive\Roses.pdf,20**

Note: Job preset can also be added in Ticket (.csv) jobs after copies setting.

Examples of a ticket to retrieve jobs from a local folder or network location and sets copies per job using wildcards:

- // **Filename, Copies, preset**
- **c:\folder*.*,10, 2up_landscape**
- **c:\folder*.pdf,10, 2up_landscape**
- **c:\folder\8page*.*,10, 2up_landscape**

Examples of a ticket that merges jobs in a ticket and sets copies for a merged job:

- // **Filename, NumCopies**
- **#merge,10**
- **c:\folder\Bedding Flowers.pdf**
- **c:\folder\Direct Sow Flowers.pdf**
- **c:\folder\Flowering Bulbs.pdf**
- **\\networkdrive\Roses.pdf**

An example of a ticket which merges jobs in ticket and sets copies for merged job using a wildcard:

- // **Filename, copies, preset**
- **#merge,10, 2up_landscape**
- **C:\folder*.***

If jobs are merged, Fiery JobFlow automatically adds bookmarks for the first page of every job that is merged. The bookmark title is taken from the job name minus the file extension. These bookmarks can be used in Fiery JobMaster to automatically add tabs.

Example of a ticket which merges jobs in the ticket and sets copies for merged job. Jobs and ticket are submitted as a folder or archive:

- // **Filename, NumCopies**
- **#merge,1**
- **Bedding Flowers.pdf**
- **Bedding Flowers.pdf**
- **Flowering Bulbs.pdf**
- **Roses.pdf**

Note: If a folder or an archive is submitted, all jobs will be merged automatically. If you add the **#merge** command you can define the number of copies for the merged jobs.

Using Fiery JobFlow with the Connect module

There are some constraints when using Fiery JobFlow Ticket with the Connect module.

- If you want a script to edit a Fiery JobFlow Ticket before it is processed further by Fiery JobFlow, you must change the file extension of the ticket from .csv to something else (for instance, .ticket). Any .csv ticket is processed by the Input Sources module. The only way to prevent this is to change the extension.
- After the script has processed the ticket, it must have the correct extension and be moved to another workflow. The Convert module is not able to process a Fiery JobFlow Ticket.

Monitoring jobs

In the Jobs tab, select either Overview or All jobs to monitor jobs.

Both the Overview and All jobs tabs display the different states a job can have.

The different job states are:

- Jobs queued
- Jobs in progress
- Jobs collected
- Error jobs
- Jobs held for upscaling/approval
- Jobs completed

Note: You can click a pane header to toggle the view of the job states.

The Overview tab provides real-time status of jobs. The different job states are displayed in panes. Two job states are displayed on each pane. You can click a pane header to toggle the view of the job states. You can delete jobs which have errored or are completed by clicking the Delete icon. If you wish to delete a job that is in progress, queued, collected, or waiting for approval, cancel the job and then delete it.

The All jobs tab displays the different job states in separate tabs. The All jobs tab provides additional detail about jobs such as the input source and the date of submission or completion. You can save your job search queries to manage and access often-used jobs. Search criteria is saved on a per user basis.

Both the Overview tab and the All jobs tab provide links to view:

- **Job:** You can click the name of the job to view the progress of the job through the different modules of the selected workflow. For information, see [Viewing jobs](#) on page 34.
- **Report:** When a job has used Fiery Preflight, Preflight, or Correct modules in the workflow, a report is generated. You can view the report by clicking the Report link. For information, see [Generate reports on jobs](#) on page 34.
- **Override:** Override action is available for jobs with errors. You can choose to override the error and complete the job. To do so, select Jobs > Overview > Error jobs > Override or Jobs > All jobs > Jobs with errors > Override.
- **Send again:** You can resend a processed (completed) job to an output location. With this feature, you can avoid having to resubmit a job. To do so, select Jobs > Overview > Send again or Jobs > All jobs > Completed jobs > Send again.
- **Retry:** Retry action is available for failed jobs. When you want to resend a job through a failed module, select Jobs > Overview > Retry or Jobs > All jobs > Jobs with errors > Retry. Fiery JobFlow executes the failed module and moves the job to the next module if the job passes. With this feature, you can avoid having to resubmit a job.

Viewing jobs

You can view the contents of each job and also the status of jobs as they progress through the different modules in a workflow.

To view jobs, do the following:

In the Overview tab:

- Click the job name to view the status of the job as it progresses through the different modules.
- Click the Job link to view the contents of the job.

In the All jobs tab:

- Click the job name to view the status of the job as it progresses through the different modules.
- Click the Job icon located at the right end of the row to view the contents of the job.

Note: The Job icon is displayed when you hover over the row of each job.

Generate reports on jobs

You can view reports for errored jobs or successfully processed jobs.

If a job fails to process because of an error, it will be displayed in the Error Jobs list in the Jobs tab. If the job fails at the Fiery Preflight, Preflight, or Correct modules, you can view the report generated by the Fiery server or Enfocus PitStop respectively. With Fiery JobFlow 2.8 and later, the appearance of the report is changed to align with the Fiery Jobflow theme. To view the workflow that was used for a job, click the name of the job in the Jobs tab.

- 1 Select the Jobs tab.
- 2 Select the Overview tab.
- 3 Select your failed job in the Error Jobs list, or your successfully processed job in the Jobs completed list.
- 4 Click the Report link.

You can also view the report from the All jobs tab.