# Fiery FS400 Pro and Fiery FS400

What's new product guide

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# What's inside:


**What's new product guide** ..... 1

**Introduction** ..... 5

New features by areas of innovation ..... 5

New features by foundational areas ..... 6

**Colour & Imaging** ..... 7

Adobe PDF Print Engine 5 ..... 7

Adobe PDF Print Engine option ..... 7

Fiery Edge next-generation colour profiling technology ..... 8

New standard colour and imaging features ..... 8

Fiery ColorRight Package ..... 9

Fiery Graphic Arts Pro Package ..... 9

Fiery ImageViewer enhancements ..... 10

Fiery Spot Pro ..... 10

**Productivity** ..... 13

Fiery JobExpert ..... 13

Auto reconnect ..... 14

Job Properties performance improvements ..... 14

Fiery Hot Folders runs as a service ..... 14

Fiery Automation Package ..... 15

Fiery Impose ..... 16

**Management** ..... 17

Fiery Command WorkStation 6.4 ..... 17

Fiery FreeForm Create ..... 19

Fiery FreeForm Plus ..... 19

Document-based banner pages ..... 21

Strict ordered printing ..... 22

Fiery JobMaster ..... 22

**Connection** ..... 24

Fiery Smart Search ..... 24

Cost accounting integration ..... 24

Fiery IPDS ..... 25

**Reliable** ..... 26

Backup and Restore improvements ..... 26

Fiery Health Monitor ..... 27

Fiery auto-recovery ..... 29

License activation registration ..... 29

**Secure** ..... 31

Security updates ..... 31

Security profiles ..... 31
User data encryption ..... 31
USB security ..... 33
Microsoft Windows 10 IoT Enterprise 2019 LTSC ..... 33
Fiery unique password ..... 33
Free training resources ..... 35
Fiery certification programs ..... 35
EFI Communities ..... 36
Additional resources ..... 37

# Introduction

The Fiery® FS400/FS400 Pro system is the most innovative, scalable, and integrated digital front end (DFE) for digital print engines, ensuring customers get the highest return on their investment. New features in the latest release:

- Provide the most intuitive and integrated user experience
- Help produce superior colour results for high-value print products
- Offer more automation from prepress to finishing
- Provide easier installation, update, and maintenance

Fiery FS400 is available as an embedded server, and Fiery FS400 Pro is an external Fiery server.

### *New features by areas of innovation*

| Colour & Imaging | Productivity | Management | Connection |
|---|---|---|---|
| • Adobe PDF Print Engine 5<br>• Adobe PDF Print Engine option*<br>• Fiery Edge next-generation colour profiling technology<br>• Fiery Intensify rendering intent<br>• New standard features<br>• Fiery ColorRight Package*<br>• Fiery Graphic Arts Pro Package**<br>  ◦ Fiery ImageViewer enhancements<br>  ◦ Fiery Spot Pro | • Fiery JobExpert**<br>• Auto-reconnect<br>• Job Properties performance improvement<br>• Fiery Hot Folders runs as a service<br>• Fiery Automation Package*<br>• Fiery Impose:<br>  ◦ Slitter/cutter/creasers finisher integration<br>  ◦ PDF Print Engine acceleration for long gangup jobs** | • Fiery Command WorkStation® 6.4:<br>  ◦ Share Command WorkStation settings<br>  ◦ Completed view<br>  ◦ Check Properties of active jobs<br>  ◦ Zoom control in Raster Preview<br>  ◦ Print job log entry<br>• Fiery FreeForm™ Create<br>• Fiery FreeForm Plus<br>• Document-based banner pages<br>• Strict order printing<br>• Fiery JobMaster™:**<br>  ◦ Auto tabs and text stamping by PDF bookmark level | • Fiery Smart Search<br>• Cost accounting integration:<br>  ◦ PaperCut MF / NG<br>  ◦ Equitrac<br>  ◦ YSoft<br>• IPDS support*** |

* Only available on Fiery embedded servers
** Only available on Fiery external servers
*** Only available as an option on a project basis

Note: Features vary by print engine model. Please refer to the individual product datasheet or feature matrix to find out exactly which features are available.

### *New features by foundational areas*

Fiery FS400 Pro server incorporates new features that make the Fiery foundational areas even more robust, to deliverer a much stronger DFE solution to face the evolving and stringent demands of high-production environments. The features listed in the User centered, Scalable, and Compatible areas are common to the features listed in the innovation areas table above. This product guide is structured to present new features by innovation area and covers the features listed in the Reliable and Secure as well.

| User centered | Reliable | Secure | Scalable | Compatible |
|---|---|---|---|---|
| • Fiery Command WorkStation 6.4<br>• Fiery FreeForm Create<br>  • Fiery FreeForm Plus<br>• Fiery JobExpert** | • Backup and restore improvements<br>• Fiery deployable image<br>• Fiery Health Monitor<br>• Fiery auto-recovery<br>• License activation registration | • Security updates<br>• Security profiles<br>• User data encryption<br>• USB security<br>• Microsoft Windows 10 IoT Enterprise 2019 LTSC**<br>• Fiery unique password | • EFI ColorGuard<br>• Options for embedded*<br>  • Adobe PDF Print Engine option<br>  • Fiery ColorRight Package<br>  • Fiery Automation Package | • APPE 5**<br>• PDF 2.0 compatible**<br>• Windows 10 IoT Enterprise 2019 LTSC**<br>• macOS 10.15 |

* Only available on Fiery embedded servers
** Only available on Fiery external servers

Note: Features vary by print engine model. Please refer to the individual product datasheet or feature matrix to find out exactly which features are available.

# Colour & Imaging

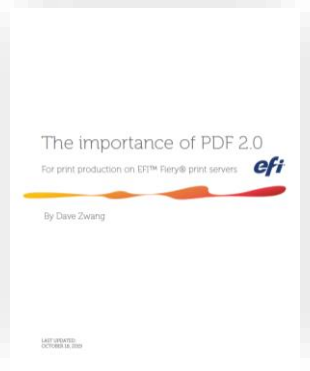
## *Adobe PDF Print Engine 5*

Fiery FS400 *Pro servers include* version 5.3 of the Adobe PDF Print Engine (APPE) interpreter. Version 5.3 adds support for the following features:

- Performance improvements with up to 5% faster processing
- Anti-aliasing for sharper edges
- Improved n-colour support
- PDF 2.0 ready

For additional information on APPE 5, visit this web page.

The new PDF 2.0 specification (ISO 32000-2:2017) is the successor of the PDF 1.7 specification (ISO 32000-1:2008). Relevant features for the print industry are:




- The ability to process a PDF file with a different output intent per page, such as a single PDF file with a cover on a coated/glossy media, and inside cover pages on an uncoated media.
- Object-based black point compensation (BPC) now lets users store a BPC for each object in the PDF file to provide better image quality control.
- Supports the CxF/X-4, colour data specification, which includes how to store spectral data.
- Better and more consistent support for transparency, and resolution of some unclear definitions in the previous specification.

PDF 2.0 is a specification that supports a wide range of applications of PDF, and is not specific to print production. The new PDF/X-6 standard, based on PDF 2.0, will specify how to use PDF 2.0 in print production.

More information on the relevance of PDF 2.0 in print is available in this white paper.

## *Adobe PDF Print Engine option*

This new option makes Adobe PDF Print Engine available to embedded Fiery servers based on the Fiery E$^{400}$ or later hardware platforms. This support offers users a native end-to-end PDF workflow and enables them to improve the consistency of printed output.

The Adobe PDF Print Engine option kit includes 4 MB of additional RAM.

### *Fiery Edge next-generation colour profiling technology*

Fiery Edge™ is the latest and most advanced EFI colour profiling technology. Most Fiery FS400 Pro servers come with Fiery Edge ICC profiles pre-installed to deliver superior out-of-the-box results. Fiery Edge technology also provides more user controls when creating custom ICC profiles with Fiery Color Profiler Suite 5.2 and above, so users get the very best from a printer's capabilities.

- Superior out-of-the-box results include:
    - Smoother colour transitions and blends
    - Enhanced shadow detail in neutral and chromatic areas
    - Better blacks for more dynamic range
    - More image definition, depth, and clarity
    - Better rendering of RGB images containing blues and reds

- More controls with Fiery Color Profiler Suite:
    - Maximise shadow details
    - Create smooth colour-to-black transitions
    - Produce the best possible dynamic range

For more information, watch the Fiery Edge video, or enroll for Fiery Edge eLearning.

### *New standard colour and imaging features*

The following features, previously available in the optional Fiery Graphic Arts Package, Premium Edition and Fiery Productivity Package, are now included as standard for all Fiery FS400/FS400 Pro servers.

- Fiery Spot-On™
    - Standard for all platforms except Fiery A series
- Halftone simulation with frequency per colour
- Configurable auto trapping
- Paper simulation with white-point editing
- Two-colour print mapping
- Hot folder filters: JPEG, TIFF, EPS, 1-bit TIFF
    - Standard for external servers only

### *Fiery ColorRight Package*

The Fiery ColorRight Package provides more convenient access to colour and image-quality functions for Fiery embedded servers. Many of these features were previously part of the Fiery Productivity Package which is no longer offered for Fiery FS400 servers.

Features in the Fiery ColorRight Package include:

- Fiery Spot Pro
- Fiery ImageViewer
- Fiery Image Enhance Visual Editor
- Fiery Control Bar/Control Bar Builder
- Postflight report

The Fiery ColorRight Package is available as a term-based license that can range from 1 to 5 years, starting on the date of license activation.

### *Fiery Graphic Arts Pro Package*

Be confident that output will print right, every time. The new Fiery Graphic Arts Pro Package replaces the Fiery Graphic Arts Package, Premium Edition to provide FS400 Pro users with the ultimate toolset that helps reduce wasted prints and minimises job rework.

Features in the Fiery Graphic Arts Pro Package include:

- Fiery ImageViewer
- Fiery Spot Pro
- Fiery Preflight
- Fiery Control Bar/Control Bar Builder
- Fiery Postflight

The Fiery Graphic Arts Pro Package is available as a term-based license that can range from 1 to 5 years, starting on the date of license activation.

Only available for external Fiery servers on Fiery FS400 Pro and before. Fiery Graphic Arts Package, Premium Edition is no longer offered for Fiery FS400 Pro servers.

## *Fiery ImageViewer enhancements*

### *Local colour replacement*

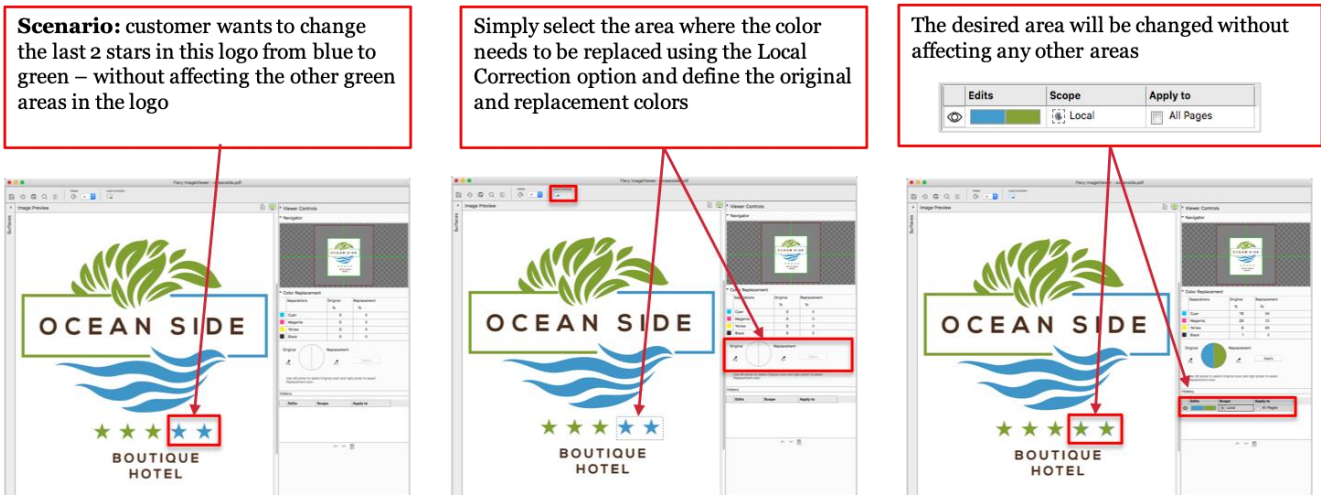
Fiery ImageViewer (part of the Fiery ColorRight Package and Fiery Graphic Arts Pro Package) includes local colour replacement. In previous versions, users could choose to replace a specific tint, and that tint would be replaced everywhere on a given page.

With local colour replacement, the replacement only applies to a user-specified area (though it can be applied to other areas of the page or throughout the document, if desired).

Key benefits include:

- Edit colour in a selected page area without going back to the design file or to prepress
- Replace colour in a selected area without affecting that colour's appearance in other areas
- Sample colour from other page areas or enter replacement colours manually
    - Use with CMYK, CMYK+, specialty colours, or grayscale

Example:

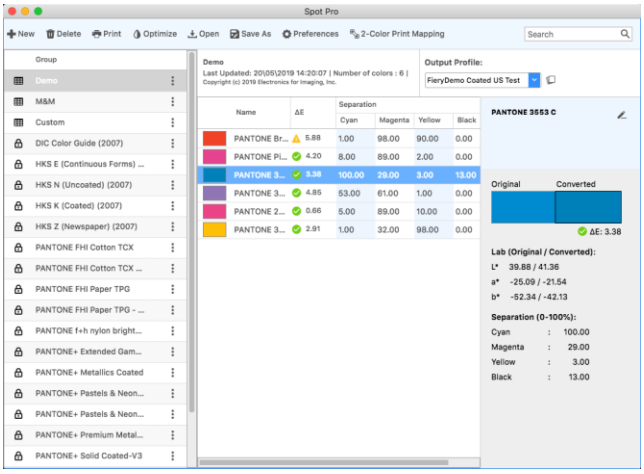



## *Fiery Spot Pro*

Companies know that protecting their brand colours is key to maintaining their corporate identity. With Fiery Spot Pro, part of Fiery Graphic Arts Pro Package and Fiery ColorRight Package, end customers can be confident that their brand colours are reproduced correctly, every time. Integrated tools allow users to easily manage and edit spot colour libraries, ensure conformity to colour standards, and seamlessly collaborate with designers.

Benefits include:

- Work seamlessly with designers to ensure brand colour consistency
    - Export/import libraries in Adobe Swatch Exchange (.ase) or Colour Exchange Format (.cxf) to enable designers to work with the actual named colours on the Fiery server
- Simplify spot colour management
    - Quickly and easily create spot colour groups
    - Edit spot colours for multiple profiles simultaneously
    - Get improved search across all spot colour libraries
    - Easily launch Spot Pro from the Command WorkStation Job Center
    - Create custom swatch books to fit a desired page size
- Use powerful tools to customise spot colours
    - Edit in device-independent colour space (L*a*b, L*c*h)
    - Optimise spot colours using a spectrophotometer (no Fiery Color Profiler Suite license required)
- Easily conform to industry standards
    - View gamut warnings across colour libraries
    - Customise Delta E tolerance and format to desired standards




*Fiery Spot Pro main interface*

To see how Fiery Spot Pro compares to Fiery Spot-On™, please view the detailed comparison.

In addition to the features above, Fiery Spot Pro includes these features exclusively for FS400/FS400 Pro servers:

### Spot colour alias

Users can create an alias that maps one named spot colour to another named spot colour. This provides enhanced functionality compared to the Substitute Colors feature, which maps CMYK or RGB values to a spot colour.

In the example to the right, a spot colour named "EFI blue" can be mapped to PANTONE 287 C.

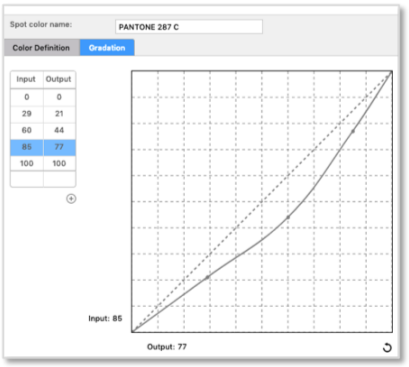
Benefits:

- Ensures spot colour consistency from design to print — designers can use simple named colours, and the print service provider can create an alias to map those named colours to the correct spot colour value

- Edits to specific spot colours are mapped to any corresponding alias colours

### Spot colour gradation editing

Users can now edit a non-solid reproduction of a spot colour.




Benefits:

- Delivers finer control over spot colour reproduction, including managing blends with spot colours, which is very important to brand owners
- Allows users to manually make the gradation darker or lighter

# Productivity

## *Fiery JobExpert*

Fiery JobExpert is a breakthrough new technology that analyzes incoming PDF files and dynamically chooses the optimal print settings to achieve the highest quality, while optimizing production time.

To accomplish this, Fiery JobExpert will:

- Analyze each PDF print job in detail
- Automatically set the optimal Fiery Job Settings
- Process each job to efficiently achieve the best possible print quality

JobExpert serves as built-in expert that delivers:

- Highest print quality — Fiery JobExpert always chooses the processing path for the highest possible output quality.
- Faster processing — Some files don't require turning on advanced imaging settings that can slow down processing. JobExpert defines the settings necessary for that specific job, ensuring it uses the fastest processing path.
- Enables less-experienced operators to run jobs correctly — It automatically enables settings the operator might not even have considered or known about.
- Reduces setup time — Fiery JobExpert detects print requirements quickly, including those that cannot be detected by an operator.
- Cuts waste — There's no need for trial and error prints on complex jobs or for interrupting production to print a proof copy. Instead, consistent analysis-based processing gets it right the first time and every time.
- Undo if needed — Operators may overrule Fiery JobExpert at any time.

Fiery JobExpert is enabled when importing a job in Command Workstation, Fiery Hot Folders or Virtual Printers. Check the how-to guide to learn the best way to use Fiery JobExpert.

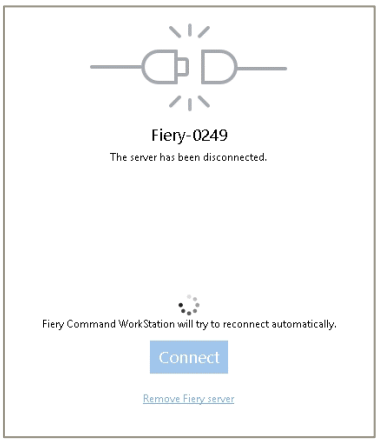
### *Auto reconnect*

Fiery Command WorkStation may disconnect from a Fiery server in cases such as a network interruption, after the Fiery server performs a scheduled backup, or after the Fiery server restarts. In the past, users had to click on the Connect button to reestablish the connection in order to resume their work.

The auto reconnect feature saves users' time by reestablishing the connection to a Fiery server automatically, using the saved login credentials.

Command WorkStation attempts to reconnect every 30 seconds, for up to 3 hours. After that time, users will need to reconnect the Fiery server manually.

Administrators can disable this feature in Preferences.




*Auto reconnect attempting to resume connection to the Fiery server automatically*

### *Job Properties performance improvements*

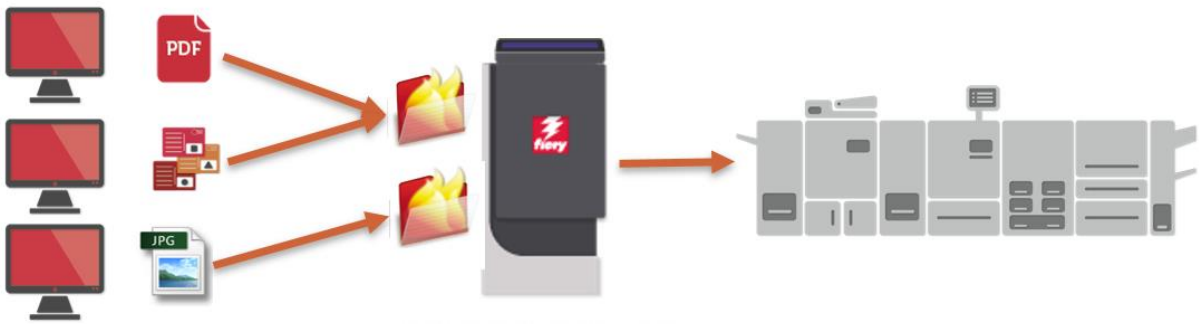
Opening Job Properties for a job is the most frequently used action in Command WorkStation. Now, Command WorkStation launches Job Properties in 2 seconds or less — at least 3 times faster than before.

Additionally, Job Properties displays the list of output profiles and Fiery ImageViewer curves in alphabetical order to make faster selections.

### *Fiery Hot Folders runs as a service*

The Fiery Command WorkStation Package includes Fiery Hot Folders version 4. This version runs the Fiery Hot Folders application as a service, either when installed on a client or on the Fiery server. This allows shared hot folders to continue to work, even when the host computer is logged out

Previously, if the host computer for Fiery Hot Folders was restarted, hot folders would not process files until a user logged on to the computer. With version 4, Fiery Hot Folders will continue to process without any manual intervention.

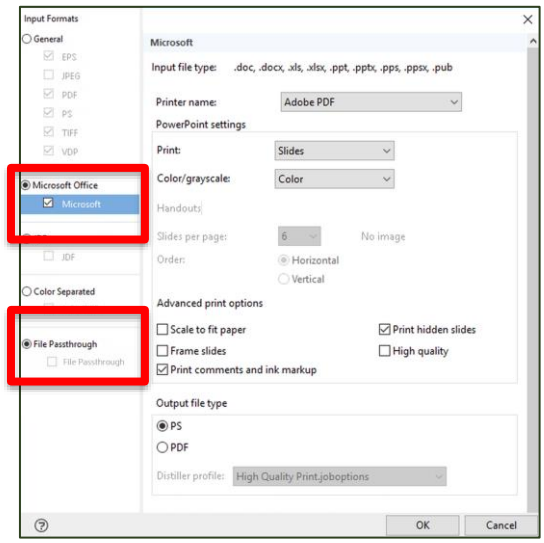



*Clients submit jobs using shared Fiery Hot Folders. Fiery server runs Fiery Hot Folders and shares them over the network.*

### Microsoft Office filters

The only exception to the hot folder operation described above is with files that require Microsoft Office filters. These files use the Microsoft Office applications on the host computer to process in the background, and so require a user to be logged in, and to launch the Fiery Hot Folders application. Microsoft Office files dropped into a hot folder will wait until the user logs in, and then will resume processing automatically.

For this reason, the Fiery Hot Folder interface for Input Formats shows Microsoft Office filters as an exclusive format. Users need to create a specific hot folder to receive Microsoft Office files.




*Microsoft Office input format and File Passthrough listed as exclusive hot folder filters*

### File Passthrough

This new input format enables the use of hot folders to submit jobs supported by the Fiery DFE, but not covered by all supported filter formats. In this scenario, job formats such as PCL or non-standard PDF files can be imported to the Fiery server instead of using the Fiery driver.

This submission method allows files to be passed through to the Fiery server without checking the file format or validating headers, and Job Properties will not be applied. In other words, the result would be the same as if the user had imported the file using the File/Import action in Command WorkStation.

## *Fiery Automation Package*

The Fiery Automation Package is a new Fiery software product for embedded Fiery servers running FS400 software and above. It provides more convenient access to automation and advanced job management functions than the Fiery Productivity Package. Fiery Productivity Package is no longer offered for Fiery FS400 servers.

The package includes the following features:

- Fiery Hot Folders and Virtual Printers
- Filters for hot folders: EPS, JPEG, TIFF, TIFF1-bit TIFF (engine specific), PDF/X compliance
- Rush Print, Schedule Printing, Print Next, Process Next
- Fiery Preflight
- Fiery JobFlow Base
- Fiery JDF

The Fiery Automation Package is available as a term-based license that can range from 1 to 5 years, starting on the date of activation.

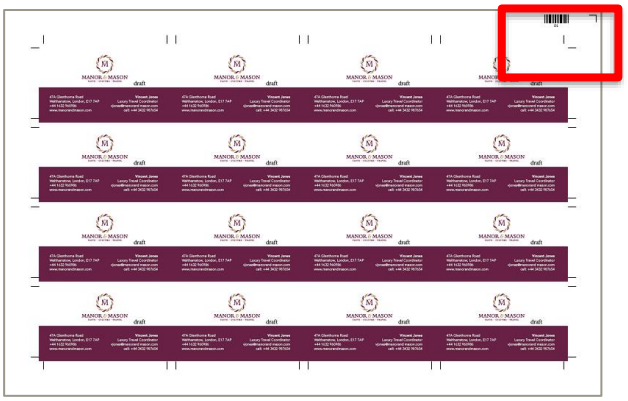
## *Fiery Impose*

### Slitter/cutter/creasers finisher integration

Fiery Impose integrates with the widest number of slitter/cutter/creaser brands to automate job submission from prepress to finishing, to save hours of time in job preparation.

In addition to Duplo, Fiery Impose incorporates support for the following brands:

- Ausjetech (previously known as Dumor)
- Graphic Whizard
- MBM Aerocut
- Morgana AutoCut Pro
- Plockmatic AutoCut Pro
- Triumph™ cutters
- Uchida



*Apply finisher-specific registration marks and barcode to automate from prepress to finishing*

Users can automate Fiery Impose templates that incorporate registration marks and barcodes for the brands above using Fiery Hot Folders, Virtual Printers, job presets, or Fiery JobFlow Base.

Fiery how-to guides (including premade templates) show users how easy it is to set up and use templates for automation. Download the how-to guides from the Fiery Impose web page or visit the finishing equipment integration web pages for additional information.

### PDF Print Engine acceleration for long gangup jobs

This feature enables faster processing for gangup jobs when using the APPE processing path.

The performance improvement applies to jobs with more than 1,000 pages.

Processing speed is about 10% faster for 1,000-page jobs, and it gets faster as jobs get longer. A 10,000-page job can process 2.5 times faster on average (for example, going from 12 to 3.5 minutes to process a job).

This feature is available for external Fiery servers only.

# Management

## *Fiery Command WorkStation 6.4*

Fiery Command WorkStation version 6.4 introduces a range of great features that make workflows as efficient as possible, with automated procedures that guarantee the highest uptime and print results. It provides faster response with frequently used functions, improvements in job management that go from VDP creation to makeready automation, and faster access to knowledge resources that present users with the latest educational resources.

Download version 6.4 of Command WorkStation at www.efi.com/CWS.

### Share Command WorkStation settings

Fiery Command WorkStation offers a way to export settings to other Command WorkStation clients connected to the same Fiery servers, so that setting up multi-client environments is much faster and ensures a consistent presentation of tools and settings across the print site.

The shared settings are specific to each connected Fiery server and include:

- Fiery server list
- Job Center: Columns, toolbar, filters, and views
- Job Properties: Quick access settings, local presets
- Fiery Impose templates
- Fiery Image Enhance Visual Editor presets

*Access to share settings in Preferences*

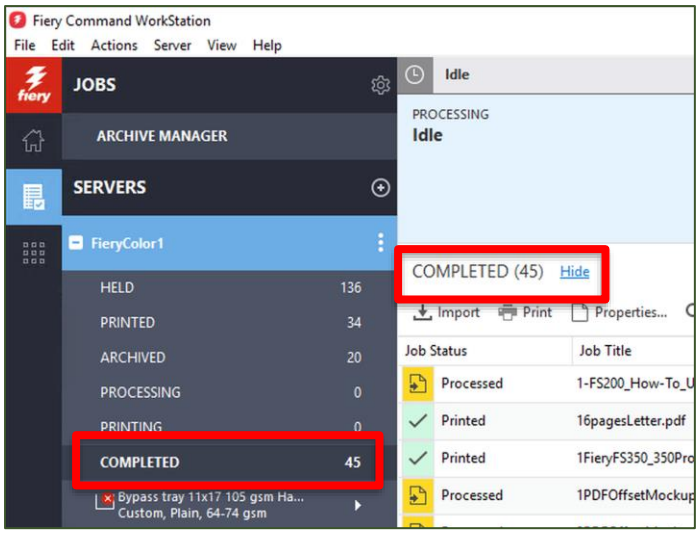
Shared settings are saved per server and tied to that server name. Settings can't be shared to other Fiery servers.

## Completed view

A new default view shows all jobs that have been printed, regardless of the location of the job (Held, Printed, Archived).

The COMPLETED view gives users a single list of all jobs printed from the Fiery server, so users can better track jobs that printed without causing redundancy or duplicate job listings in the PRINTED queue.

Users can hide the COMPLETED view by clicking "Hide" in the top toolbar.



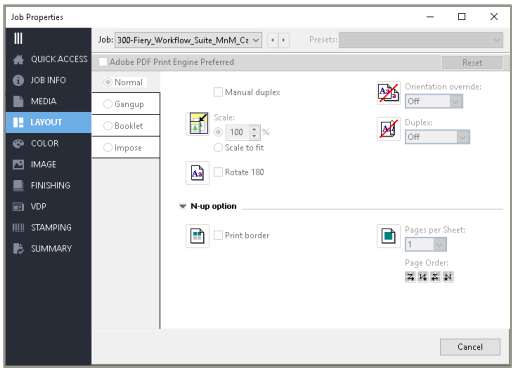

*Completed view*

## Check properties of active jobs

Fiery users can verify job property settings while a job is waiting to process, processing, printing, or waiting to print. This offers them a chance to check on settings without having to cancel the job first. It is especially useful for jobs imported directly to print in Command WorkStation.

When using the Job Properties for active jobs, settings are read-only and display as grayed-out links.

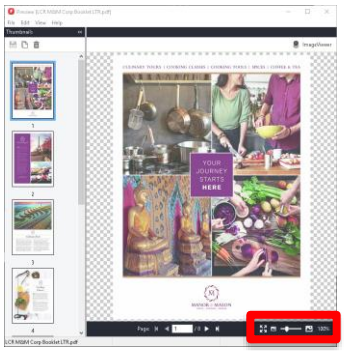
*This feature is not available for Fiery XF users.*




*Read-only version of Job Properties with all grayed-out settings*

## Zoom control in raster Preview

When previewing a processed job, the Fiery Preview window presents new controls to zoom the page view in and out from 6% to 400%. There's also a Fit Page button to preview the entire page image in the Preview window.



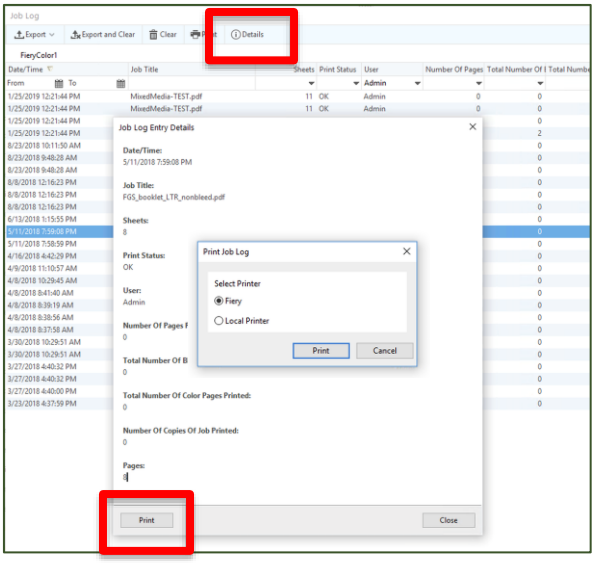
*Zoom controls in raster Preview window*

### Print job log entry

Fiery users can select a job log entry and display its details in a separate window. This new window offers the option to view and print the first 10 columns of a job log entry. Users can print the information to a local printer, or to the Fiery server; or use CTRL+C to copy the data to other applications.

This feature enables users to see the details of an individual job, especially lengthy details that can't be viewed easily within the job log table format. They can also print these details for use with printed job tickets.

*Print job log entry is available for cutsheet and high-speed inkjet printers.*




*Job log details and print option*

## *Fiery FreeForm Create*

Fiery FreeForm™ Create is a brand new, free, standalone variable data application. It's based on Fiery FreeForm VDP technology, a standard feature on all Fiery servers for more than 20 years. FreeForm technology quickly became popular with print service providers (PSPs) who needed a simple and convenient way to offer VDP services.

Now, FreeForm Create delivers a fully visual interface with greatly enhanced capabilities. In addition to the ability to merge master and variable content in an easy, drag-and-drop interface, FreeForm Create allows users to add variable content to existing files – something not previously possible with FreeForm. Users can drag variable fields – which can be text, images, or even barcodes – wherever they want on their master document. They can then see a visual preview of their finished document, including the variable content.

FreeForm Create doesn't require access to a Fiery server to use the application. This allows graphic designers, creative professionals, and even in-plant customers to download the free application to create their personalised files. They save their files in the FreeForm Create file format, which packages all the static and variable content together, and then provide this file to their PSP or in-plant print center. In turn, the PSP or in-plant center opens the file in their FreeForm Create client, and submits it to their Fiery Driven™ printer for production. FreeForm Create seamlessly integrates with Fiery Command WorkStation and Fiery makeready applications such as Fiery Impose, Fiery Compose, or Fiery JobMaster.

Visit the webpage to learn more about FreeForm Create and to download the application.

## *Fiery FreeForm Plus*

Fiery FreeForm Plus is a brand new, proprietary VDP format that's available exclusively for FS400/FS400 Pro users within the Fiery FreeForm Create application.

FreeForm Plus delivers greatly improved usability and enhanced VDP capabilities.

Features include:

### New file import options

Users can submit .ffp files (proprietary FreeForm Create file packages) to the Fiery server through the FreeForm Create application, Fiery Hot Folders, or directly into Fiery Command WorkStation. This enables the following benefits:

- Choose the file submission method that works best for specific workflows
- Save time by using Hot Folders to apply job properties
- Get an alternative job submission method that does not require Fiery server login from FreeForm Create

### Single file package

FreeForm Plus combines all resources needed for a job (including both master and variable content) into a single file package, which is then submitted to the Fiery server. By completely merging all the content, users enjoy the following benefits:

- A single file package provides many of the benefits of open source VDP formats such as PDF/VT or PPML, all of which require a paid application to create. This capability is available for free on Fiery servers, since the file package can be re-opened and edited in FreeForm Create.
- With a single file package, correlation between master and variable page sizes is removed, which may make it easier to configure some applications, such as envelopes, on the engine and Fiery server.
- There's no need for the Fiery server to RIP the master and variable content separately, which improves RIP performance and streamlines job submission.

### Transparency/overprint support

With FreeForm Plus, FreeForm Create now supports transparencies and overprints on variable objects. This provides more options for designers to create and place variable content for personalised files.

### APPE support

FreeForm Plus files submitted to the Fiery server can be processed using Adobe PDF Print Engine (APPE). Previously, FreeForm Create files could only be processed using the PostScript interpreter. This expanded support provides the following benefits:

- Conforms to a wider variety of end-to-end PDF workflows
- Gives users enhanced handling of transparencies and other technical elements in FreeForm Plus files

This table summarises the capabilities of FreeForm Plus in different Fiery system software versions.

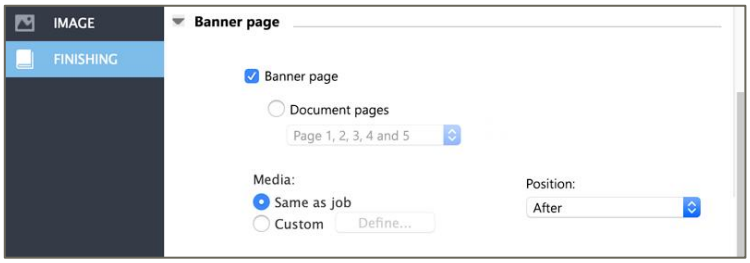
| | FS400 Pro and FS400 and later | FS350 Pro and FS350 and before |
|---|---|---|
| **FreeForm Create output file format (as seen in Command WorkStation)** | .ffp (FreeForm Plus) | .ffc (traditional FreeForm file with separate master and variable content) |
| **Single file package submitted from FreeForm Create to the Fiery server**<br>Including master and variable content such as data source, images, etc. | Yes | Yes, FreeForm Create creates a FreeForm master and FreeForm overlay with correct job properties to link both jobs. |
| **FreeForm Create proprietary format support (saved file packages, .ffp)** | Yes | Yes |
| **Submit file to Fiery server from FreeForm Create** | Yes | Yes |
| **Submit FreeForm Create file to Fiery Hot Folder or direct import into Command WorkStation** | Yes | No |
| **Requires separate RIPping of master and variable content** | No | Yes |
| **Matching page sizes for master and variable content** | More flexible | Master and variable content must have the same page size |
| **Transparency support** | Yes | No |
| **APPE support** | Yes | No – only PostScript supported |

### *Document-based banner pages*

Banner pages are a helpful resource that can help streamline the management of printed output and its distribution. These pages are printed right after a copy is done printing and facing up.

Document-based banner pages allows pages within a document to print as banner pages. This lets Fiery users customise the content of banner pages to fit their specific needs in output handling and distribution.

As the example illustrates on the right, the banner page can consist of more than one page, and have custom content such as barcode and a company logo. The first banner page can be sent to the Finance department for cost accounting purposes, while the other is used by the Shipping department for distribution instructions. The banner pages can print on a different media than the job and output on a different tray.



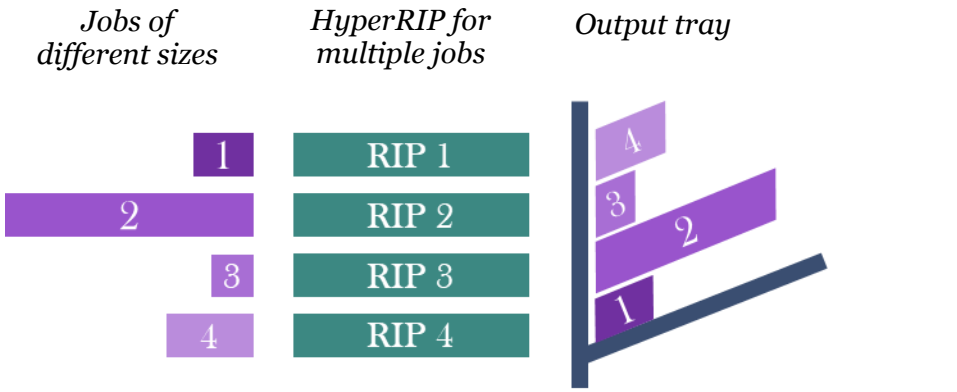

*Banner page print settings*

This feature is not supported for VDP or imposed jobs.

### *Strict ordered printing*

This feature ensures jobs print in the order they are listed when selected to print from Command WorkStation. It offers a predictable order of the printed output to guarantee a streamlined finishing and distribution processes.

Advanced job management features such as Rush Print and Print Next can be used to override the strict order rule.




### *Fiery JobMaster*

#### Auto tabs and text stamping by PDF bookmark level

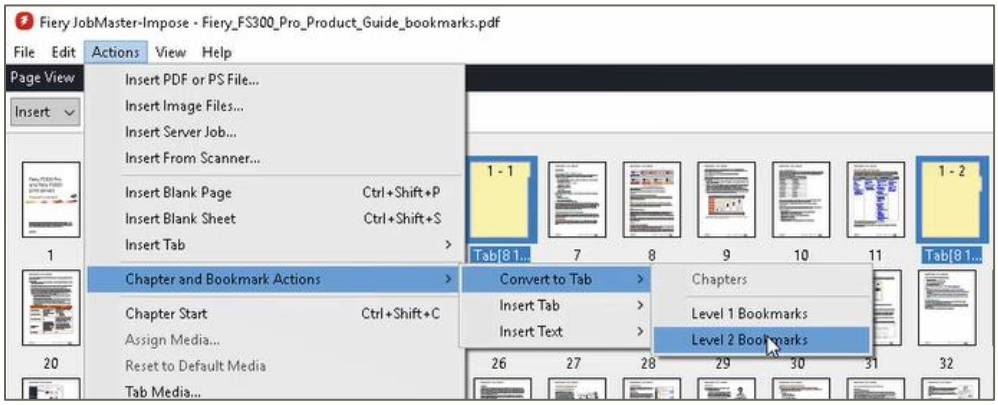
Fiery JobMaster takes advantage of PDF bookmarks of up to 6 levels to automatically create tab pages in the job.

With PDF bookmarks, users can:

- Insert a tab page before the bookmarked page
- Convert the bookmarked page into a tab
- Populate the tab ear text

- Insert the bookmark text into the page (for example, add chapter name in headers)

This feature dramatically reduces job setup time: a long job can take 5 minutes to prepare, while it usually takes 20 minutes or more without this feature.



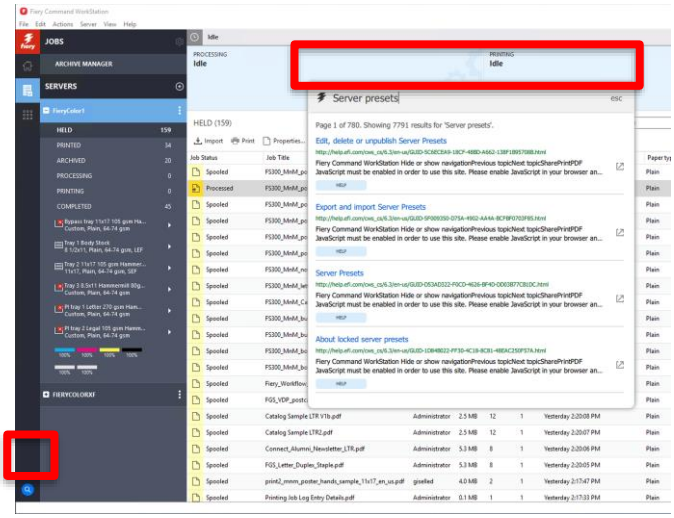

*Bookmark actions available in Fiery JobMaster*

# Connection

## *Fiery Smart Search*

Fiery Command WorkStation offers a way to search for Fiery related information and training content that users may need quickly.

Users access this feature in Job Center by clicking on the Fiery Smart Search icon (magnifying glass) on the bottom-left of the Fiery sidebar. This presents a search field where users can type the search term and press "Enter" to display the search results. The search window displays 10 results at a time. After clicking on one of the search results, the page opens in a separate web browser.




The search results come from:

- Help documentation
- EFI Communities postings
- Fiery How-to guides
- Fiery product guides

Fiery Smart Search offers faster access to the vast Fiery knowledge base,

Additional free online training is available at Learning@EFI.

## *Cost accounting integration*

Fiery servers now integrate with major cost accounting applications, including Kofax Equitrac Office/Express, PaperCut MF/NG, and YSoft SafeQ. For users in an office or enterprise environment, this integration helps administrators track and allocate costs, manage users, route jobs, and ensure secure printing processes are followed.

Please note that specific configuration steps are required to enable these integrations. For more information and to determine if a specific Fiery server is compatible with a given application, please refer to the product-specific documentation or visit this web page.

Benefits:

- Manage related printing costs
- Print securely
- Track profitability over an entire printing fleet

## *Fiery IPDS*

Fiery IPDS provides a high-performance, IS/3 compliant IPDS solution that leverages industry-leading Fiery technology for rendering, variable data, colour management, and imaging. This solution enables print service providers to manage all data streams (IPDS, PDF, PostScript, and VDP formats such as PDF/VT, PPML and VIPP [Xerox servers only]) from one single interface.

IPDS jobs are sent from the host to a streaming queue on the Fiery server. Jobs are immediately processed with no spooling to disk, but fully supporting IPDS job buffering. The job then processes and prints. Once the job is completed and all notifications have been provided to the host, pertinent data is noted in the Job Log, but no other information about the job remains on the Fiery server. The Fiery server provides bi-directional communication and ACK-NACK notifications to the host.

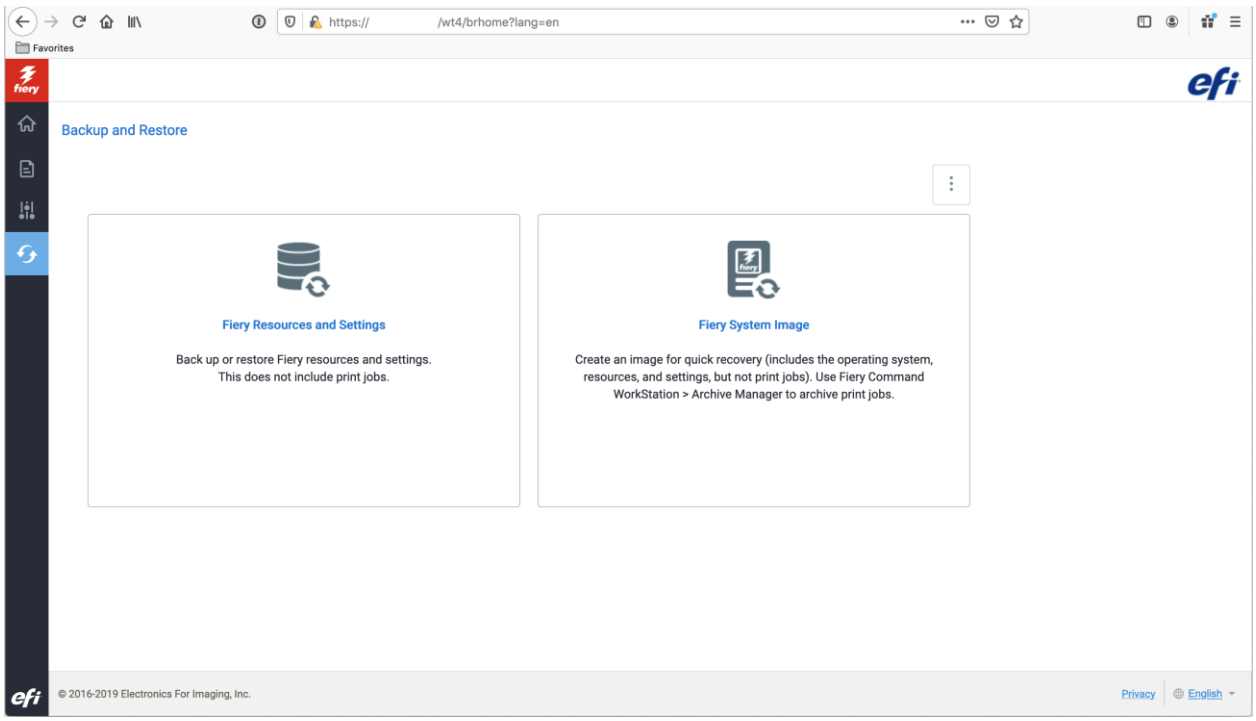
Fiery IPDS is available as an option on a product-specific basis. To determine if Fiery IPDS is available for a specific Fiery server, please refer to the product-specific documentation.

# Reliable

## *Backup and Restore improvements*

The Backup and Restore feature is now a collection of tools that help Fiery administrators and technical support personnel find all related features in one place. It includes: Fiery resources and settings, Fiery System Image, and Fiery Deployable Image.

Users can access this feature in Fiery WebTools and in the new sidebar section in Fiery Command WorkStation.




### Fiery Resources and Settings

This section provides access to backup and restore functions for the Fiery server, resources, and workflow settings, including:

- Fiery System Settings
- Scan settings
- Paper Catalog
- Server Presets
- Job logs
- Colour settings
- FreeForm/VDP resources
- Virtual Printers
- Fonts

Items listed above vary depending on what is supported by the connected Fiery server.

### Fiery System Image

This feature used to be called Fiery System Restore. Fiery System Image can be used by the Administrator to backup the Fiery server for a quick recovery later without any system software DVDs (media-less).

The image includes the operating system, Fiery system software and patches, EFI Cloud connector, resources and settings. It doesn't include print jobs. To recover print jobs, administrators should use the Archive Manager.

The Fiery server can be restored either from images stored on the local hard disk, or from a bootable USB drive. Fiery System Image supports automatic scheduling and can be run from WebTools and Fiery QuickTouch.

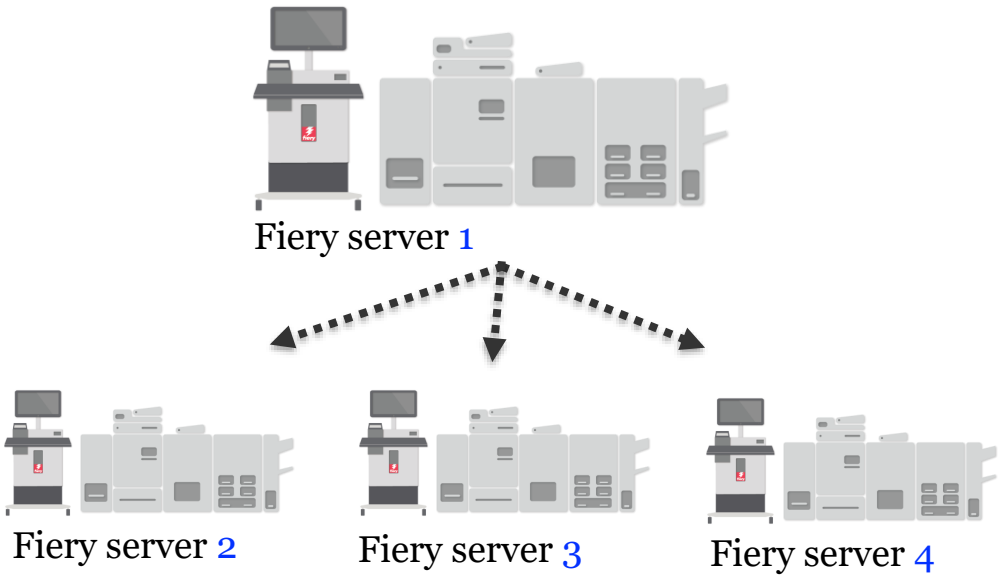
### Fiery deployable image

This is a great time-saving feature for service technicians when installing multiple Windows-based Fiery servers in a single organisation.

It captures a distributable image of a fully configured Fiery server. The image includes all installed Fiery patches, Windows security updates, and user configurations. It excludes specific system configuration such as IP address, host names, etc.

The image can be deployed to other Fiery servers of the exact same model.

This feature is only available to external Fiery servers based on the Windows operating system. It provides similar functionality to the Fiery Clone Tool for Linux-based embedded servers.

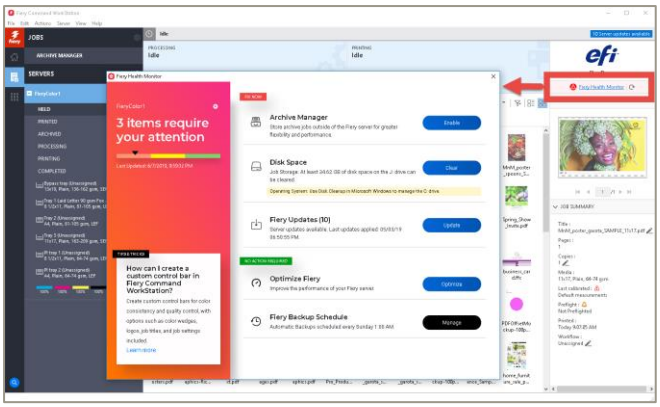



### *Fiery Health Monitor*

The Fiery Health Monitor is a new application in Fiery Command WorkStation that helps keep a Fiery server running in its most efficient condition to face the demands of a production print environment.

Fiery Command WorkStation presents a health indicator icon at the top-right corner of the Job Center view that reports the status of the overall system health in three colours: green, yellow, and red.

- Green: Healthy. All server maintenance and preventive actions are up to date
- Yellow: Poor health. The Fiery server's health requires attention and some preventive actions are required
- Red: Unhealthy. The Fiery server is at risk of operational problems or loss of data if server maintenance procedures are not performed




*Fiery Health Monitor icon and application*

Fiery Health Monitor presents a list of maintenance and preventive actions to bring the Fiery server back to a healthy green state. Administrators can click to perform recommended actions and are taken to the location where they can proceed to perform the maintenance processes listed. The application also offers best-practice recommendations.

Fiery Health Monitor checks on the following issues that help keep Fiery servers in good shape:

- Fiery software updates up to date (Fiery FS150 Pro and later)
- Archive Manager enabled for job archival
- Scheduled or manual backups performed (Fiery FS200 Pro and later)
- Fiery hard disk drive capacity levels
- Fiery server optimisation performed within the past week

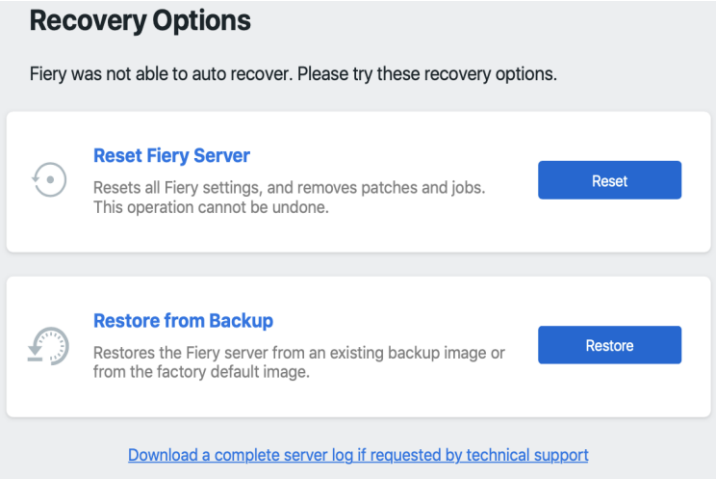
This table represents the way Fiery Health Monitor determines the health status colour:

| Server maintenance issues | Red | Yellow | Green |
|---|---|---|---|
| **Fiery Updates** | Updates are pending, and and/or no updates done for over 6 months | Some updates are pending, and it's under 6 months since last updates | All available Fiery service packs and Fiery API updates are installed |
| **Scheduled backups** | No backup has ever been made | Have manually backed up the Fiery image settings within the last 6 months | Automatic backup is on |
| **Archive Manager** | Archive Manager is not enabled on the client | N/A | Archive Manager is enabled |
| **Hard drive space**<br>*(on E: drive or embedded disk)* | <20% of space is available | 20-40% of space is available | >40% of space is available |
| **Optimise Fiery server**<br>*Has the Fiery server being restarted within the last month?* | Fiery server has not been optimised for >1 month | Fiery server has not been optimised <1 month | Fiery server has been optimised within the last week |

*This feature is available for Fiery servers running cutsheet printers and supported on Fiery System 10 and above.*

### *Fiery auto-recovery*

Fiery auto-recovery introduces automatic procedures to bring the Fiery server back to normal operation.




Fiery auto-recovery automatically restarts the Fiery software when the monitoring agent detects an error condition. If the error condition persists, Fiery auto-recovery automatically performs a full system reboot to bring the Fiery server back to an idle state.

If the error condition persists after reboot, and the Fiery server wasn't able to recover by itself, the Fiery server goes into recovery mode for further actions. It prompts the user with two recovery options:

1. Reset Fiery server: This action checks to see if a Fiery patch was installed just before the Fiery server went into the error condition, it also resets all Fiery settings to a default state. If this is detected, it rolls the system back to the last Fiery patch and performs a server reboot. If the error condition persists after the reboot, it will clear all job data queues, and perform a new server reboot to take the server back to an idle state
2. Restore from backup: This action will take users to a window where they can restore the server from an existing backup image or from the factory default image.

Fiery auto-recovery helps customers increase server uptime, have fewer field service and support calls, and prevents the need to re-install the system if the underlying OS is still running.

### *License activation registration*

When activating Fiery software licenses, the Manage Fiery Options screen offers the option to register Fiery software online. The online registration helps users restore lost licenses faster.

In the event of a lost license, customers need to contact their usual tech support organisation to escalate the license retrieval to EFI Tech Support.

*License activation registration form*

# Secure

For a complete overview of all security features in Fiery FS400 Pro servers, download the Fiery Security White Paper.

## *Security updates*

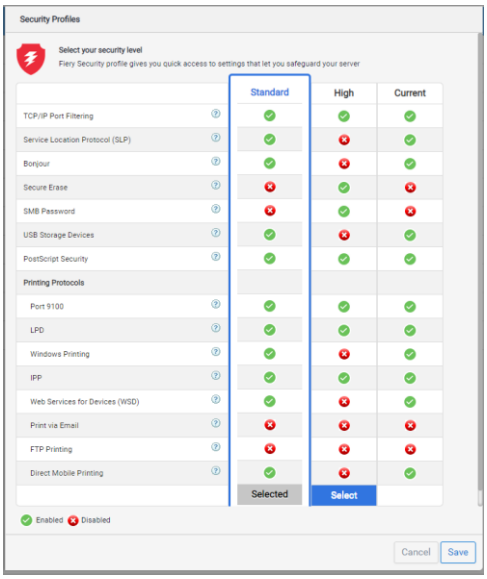
Fiery FS400 Pro servers include all the necessary security patches to stay up to date to current security standards, improved security and performance over HTTPS connections and support for advanced authentication and encryption methods.

## *Security profiles*

Offers pre-defined security recommendations based on different risks and threat levels,

- Standard (default): suitable for most environments
- High: recommended for high-security environments

Administrators can modify individual security settings using Fiery WebTools or Fiery Setup Wizard to meet print-site- specific requirements




## *User data encryption*

This provides an extra level of protection against data theft while complying with corporate security policies. It uses 256-bit advanced encryption standard (AES) which provides the strongest and most robust encryption standard commercially available today. Even if the disk is removed from the Fiery server, the user information stored on the disk cannot be read.

Administrators can enable or disable this feature on Windows-based Fiery servers. For Linux-based Fiery servers, the feature is always enabled.

### User data that is encrypted

When user data encryption is enabled, these groups of items are encrypted:

- User configuration
- User jobs
- Scan jobs
- Logs
- Local backup image

### User data that is not encrypted

Any data that comes out of the Fiery server is not changed:

- Backup image on a USB hard drive
- Backup settings
- Job archiving

## *USB security*

This security feature prevents connection of USB storage devices to Fiery servers.

It also disables Fiery features that require USB mass storage functionality, such as Backup and Restore.

It doesn't affect the USB port for a mouse, keyboard. or spectrophotometer.

The feature is enabled by default and can be disabled from the Configure menu.

## *Microsoft Windows 10 IoT Enterprise 2019 LTSC*

Brings all the new features since 2016 in a single OS update. It includes the cumulative enhancements provided in Windows 10 versions 1703, 1709, 1803, and 1809.

Maintains compatibility with features offered in original LTSB release date.

Microsoft Windows 10 IoT Enterprise 2019 LTSC includes many security improvements for threat, information, and identity protection.

## *Fiery unique password*

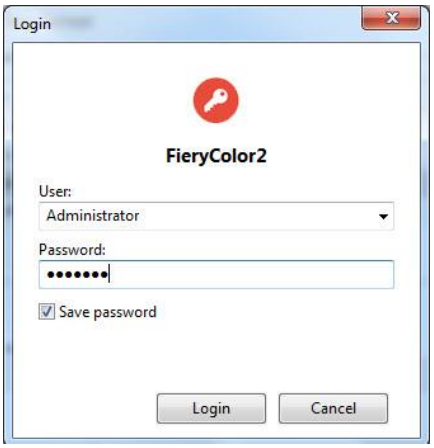
Fiery FS400 Pro servers ship with a unique password for initial setup. This change is necessary to comply with a new California State law, CA Senate Bill No. 327, which requires all products to ship with a unique password as a new means of authentication for first-time use.

These are the user names that require a password:

- Administrator
- Operator
- Windows OS login (for external servers only)

Administrators can find the password in the ID field under the BIOS Setup section in the Fiery Configuration sheet.

Visit this web page to find out how to obtain the unique Fiery password.



# Free training resources

Choose the EFI training resources that best fit your needs from a variety of free, self-paced, web-based courses; videos; or hands-on practical guides that make it easy to fit training into busy schedules.

- eLearning courses: interactive online learning sessions
- Simulation learning: learning solution that offers the opportunity to practice techniques and procedures in a realistic, immersive environment
- Express videos: short videos on key topics delivered by EFI subject-matter experts
- Webinars: access to recordings of World of Fiery Webinars, an on-going program of educational, and free webinars that feature valuable information for colour professionals and owners and managers of print businesses and in-plant/CRD operations
- Podcasts: engaging audio shows on a variety of topics
- How-to guides: step-by-step instructions with sample files

## *Fiery certification programs*

In today's fast-changing world, print professionals need a convenient and affordable way to gain new skills and credentials quickly – so you can do more, be more, and take your career to the next level. Be a step ahead of the others. Our certification programs will help you stand out in your workplace or your business.

- Fiery Professional Certification

  The Fiery Professional Certification teaches print professionals the necessary skills to optimise the performance of EFI technology solutions. Developed by EFI subject-matter experts, it provides the latest information on Fiery technology to develop employee skills, enhance professional development, and transform print businesses.

- Fiery Expert Certification

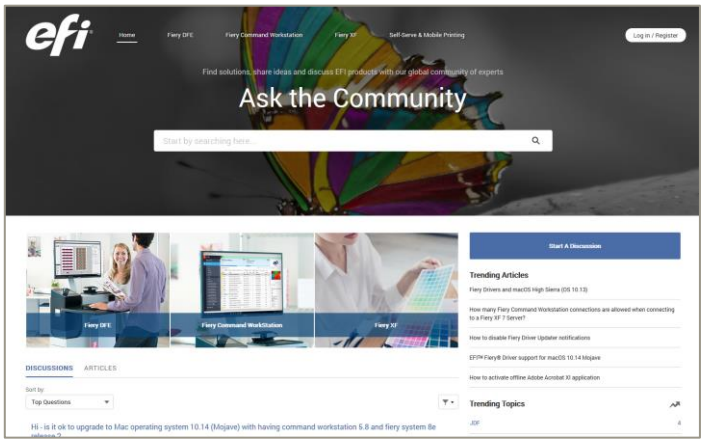
  The Fiery Expert Certification builds on the Fiery Professional Certification to develop more in-depth expertise. The expert courses help students master the advanced Fiery toolsets and learn to use the full range of features.

For more information on the Fiery certification programs and to enroll, visit this web page on Learning@EFI.

# EFI Communities

EFI launched a new customer engagement platform, EFI Communities at communities.efi.com. Here, Fiery users have a place to find solutions, share ideas, and discuss EFI products with our global community of experts.

Everything users could do in Fiery Forums, they can now do in EFI Communities. EFI Communities also offers additional great features:




*EFI Communities landing page*

- A searchable knowledge base of technical articles created by the Fiery Technical Support team, for solutions to common or known issues
- The ability to "follow" topics that interest you, or on specific areas of focus
- A personalised "feed" which is created dynamically based on your previous activities on the site
- The ability to select the "best" answer from multiple solutions
- New web design that's compatible with mobile devices

EFI Communities will eventually replace Fiery Forums, and we look forward to your interest and contribution. Fiery Forum usernames and passwords are not compatible with EFI Communities.

The table below explains the three levels of participation users can have at EFI Communities.

| Type of support | Requires registration | Requires product registration with EFI |
|---|---|---|
| Look for answers on Communities using "Ask the Community" search or reading forum posts | No | No |
| Ask the Community a new question | Yes | No |
| Submit an email support case to EFI Technical Support through Communities platform | Yes<br>*(for term-licensed products or products with EFI SMSA)* | Yes |

# Additional resources

Use this list of sales, training, and technical resources to help you broaden your knowledge of Fiery print servers, plus related products and applications.

| | |
|---|---|
| Fiery servers main page | fiery.efi.com |
| Fiery online resources | resources.efi.com |
| Explore the Fiery digital front ends sold by Fiery partners | efi.com/fierydfe |
| Fiery production solutions | fiery.efi.com/production-solutions |
| Fiery Workflow Suite | fiery.efi.com/fws |
| Fiery integration to 3rd party software | www.efi.com/fieryintegration |
| Fiery driver downloads | efi.com/fierydrivers |
| Fiery Command WorkStation main webpage | efi.com/cws |
| Fiery Command WorkStation download | fiery.efi.com/cws |
| Fiery software free trial request | fiery.efi.com/free-trials |
| Training resources at Learning@EFI | learning.efi.com |
| EFI Communities | communities.efi.com |