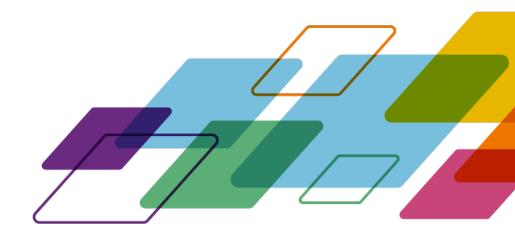


Fiery FS600 Pro & FS600

Product guide for cutsheet Fiery servers

This document represents the feature set typically included in Fiery® print servers. Actual feature set included may vary by specific Fiery models, as some features may not be supported due to specific project implementation characteristics or regional requirements. For information on a specific Fiery model's feature set, refer to that model's datasheet or ask your Fiery vendor. Nothing herein should be construed as a warranty in addition to the express warranty statements provided with Fiery products and services.





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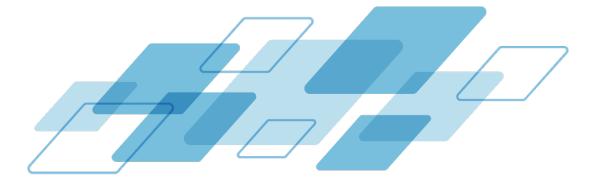
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Introduction

The changing market for digital front ends

In a U.S. survey, *Digital Front Ends: Understanding Market Dynamics and Customer Requirements*, InfoTrends identified the key features that respondents look for in a digital front end (DFE) for print engines:

- Raster image processing (RIP)
- Converting content specified in a page description language into raster images that a printer can read and process
- Job management / file handling
- Receive, manage, and prepare jobs for print production
- Select media and finishing options
- Release files into print production
- Prepress and makeready capabilities
- Color management
- Imposition, preflighting, and trapping
- Automation support (job ticketing)

The report further found that the reputation of the vendor is an important consideration for end customers, as are the following:

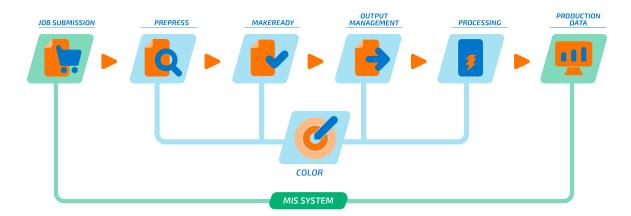
- Ease of use
- Consistent and reliable output
- High performance based on RIP speed
- Familiarity of interface and operational consistency

Finally, the survey showed that most print service providers use digital front ends to perform a wide variety of prepress, makeready, and job management tasks, as well as to release jobs to print. InfoTrends also projects from the survey information that digital front ends will quickly become a key part of end-to-end, automated workflows and will integrate into cloud workflows. The survey report also notes, "As DFEs are becoming more tightly integrated, there is a need for wider job ticketing support, better integration with workflow or accounting solutions, and higher compatibility with traditional/offset workflows."

Fiery Workflow Suite

Fiery servers are a fundamental component of the Fiery Workflow Suite, a comprehensive set of integrated products that helps print facilities produce more from existing print engines with streamlined and automated workflows; quickly adapt to changing customer demands; and grow with new higher-profit, value-added services.





Fiery Workflow Suite is a comprehensive set of integrated products to accelerate business growth and profitability

For more information on Fiery Workflow Suite and to watch the overview video, visit fiery.com/fieryworkflowsuite.

Fiery Foundation

Every digital front end that Fiery designs, builds, and sells is based on a core set of foundational values. These values define our products and are the promises we make to our customers each and every day. Our values drive us to provide Fiery products that are user-centered, reliable, scalable, compatible and secure.





User-centered

In case you think user-centered sounds like another technology buzzword, it's actually something we deliver. Building DFEs is what we do. But we build them by thinking about the actual people who use our DFEs. Our commitment is really to them. That's why we provide an integrated set of



experiences at every stage. The interface is intuitive, quick, and responsive – which makes our products easy to learn and use. And we make our servers quick to set up, back up, and maintain. This ease of use minimizes mistakes and reduces steps to get a job done – so our customers can spend more time on what they're paid to do.

We also built <u>Communities</u> to connect nearly tens of thousands of Fiery users to each other and to our experts, so our users can find the best ways to get things done. It's an incredible way to share knowledge and expertise worldwide.

Reliable

Fiery users expect our equipment to run all the time, and to keep up with their printers. From factories that print millions of dollars of corrugated material to graphic artists who have to get a design in front of a customer in minutes, people depend on us. And we deliver. Made for the needs of 24-by-7 production, Fiery products work all the time, every time, even for the most demanding applications. Fiery servers are also resilient and easy to update with the latest fixes to keep systems running their best.

Scalable

What does scalable actually mean? It means Fiery servers can grow with businesses. If a customer is a startup with a 50-page-per-minute printer, we have an embedded server that will add a lot to what they can do. If they want to add another printer, we have a DFE that will work for that expanded environment. We have workflow and color management software for more advanced work, and for automation. We have Fiery servers that let customers expand to wide format. And they all have the same job management interface. So, operators don't have to learn a new interface for every print engine, and shops don't have to redesign their whole workflow to add Fiery products. As part of our brand promise, all this flexibility comes with the best price/performance in the industry. Our customers can add functionality as their business grows or needs change, just by adding software packages or subscriptions. They can even upgrade their print workflow with the latest innovations and features to improve productivity with Fiery Command WorkStation® updates. Taken together, we're talking about a lot more than a wide range of servers. We're talking about adding innovation over the life of the print system.

Compatible

In the old days, buyers might get stuck with new equipment that didn't work with what they already had and kept them from modernizing.

So, we build Fiery servers to operate in an open, multi-brand environment to avoid workflow islands, and to give customers the highest level of operational flexibility. Our DFEs support Fiery partner workflows, plus leading third-party prepress and cost-accounting products. On day 1, we have new drivers available for MacOS or Windows updates so our customers can just keep printing. We're relentless about keeping Fiery technology up to date with the latest industry standards, including VDP languages, color, and file formats – so users can accept and process all types of jobs.



Finally, Fiery API and JDF allow users to connect to MIS and web-to-print systems, or to integrate with existing shop systems – all of which makes Fiery servers the most versatile and flexible in the industry.

Secure

Today, security needs change at a dizzying speed. We keep users up to date with the latest security requirements and standards. But we also stay on top of bug fixes and security patches, so our customers always know they can protect sensitive data and documents in any operating environment. Plus, we offer functions that meet the specific needs of high-security environments.

Fiery areas of leadership

We view our foundational values like the foundation that builders use to construct a solid, well-built house. These foundations have been in every Fiery server we've made for more than 30 years. On them, we constantly innovate with features and functions in the areas our customers care most about – producing high-quality, accurate output, quickly and efficiently. We call these areas: color and imaging, productivity, management, and connection.



Color & Imaging

Fiery systems deliver the best imaging technology, with accurate and consistent color.

Fiery servers provide state-of-the-art imaging technology, combined with expert color management tools, to deliver high-quality images with the accurate, consistent color customers want. Print providers can print the color the designer intended, looking just the way they wanted. And provide accurate and consistent color every time, all the time; and outstanding, high-quality images that satisfy the most demanding print buyers.

Productivity

Fiery systems provide performance and automated workflows that maximize printer throughput.

To succeed in today's competitive environment, print providers need to offer customers more services, while increasing operational efficiency for higher profitability. To achieve both requires the processing power and capability of the Fiery digital front end. To provide this, we also include features that directly improve turnaround times by automating workflows to keep print engines running at rated speeds, even for the short-run jobs that print providers must increasingly handle.



Management

Fiery systems enable profitable production of high-value products through leading job preparation and management tools.

Unfortunately, increased functionality can lead to complexity. To make sure that doesn't impact productivity and costs, Fiery innovations in the "management" area give users tools that speed job preparation and provide better device management – to not only produce high-quality printed materials quickly but generate more bottom-line profit too.

Connection

Fiery systems offer the versatility to fit in any environment with reliable system operation.

Connection means the ability to fit in. Fiery DFEs have to work with everything from workflow software to an MIS system. And they do. Advanced connectivity technology provides easy, scalable Fiery integration to, and compatibility with, business and other production systems to increase efficiency; and provide secure, reliable operation in a variety of different environments.

Range of Fiery DFEs

In addition, a wide range of Fiery server families gives print service providers all the choices they need to meet their business demands with features for production processes, from web submission to management, prep to production:



Fiery NX Premium – an exceptionally high-performance system for high-level production and mission-critical users with high-speed engines



Fiery NX Pro – a high-performance system for users who require quality and advanced makeready capabilities

Fiery NX One –seamless workflow management and superior image quality for both color and black-and-white production printing environments with tight deadlines and high customer expectations

Fiery E-Series— the ultimate document-publishing system that takes the pain out of producing complex color documents, providing efficiency and ease of use for small/medium businesses and enterprise office/workplace users alike

Fiery server families suit any digital print need and environment. Check the Fiery server datasheet or contact your Fiery dealer for the standard and optional features for a specific Fiery server model.

Fiery industrial design

Fiery NX design

Fiery external servers feature the innovative <u>Fiery NX</u> industrial design that was precisely crafted with the Fiery user in mind.

Fiery QuickTouch

The Fiery NX server design includes the Fiery QuickTouch software on the touchscreen display, which gives faster views of job status information and access to server management. With just a tap, the touchscreen display gives users easy access to intuitive system installation, backup and restore functions, plus system diagnostics. The display rotates 90 degrees to provide operational flexibility and visibility. Three USB ports are conveniently located on the side of the display.



Benefits:

- Faster views of job status and device management
- Rotating touchscreen panel for better visibility
- Convenient access and Added security
- Easier troubleshooting
- Simplified routine maintenance workflows
- Localized Fiery QuickTouch troubleshooting
- Independent operation
- Intuitive updates and alerts



Fiery NX Station

The Fiery NX Stations provide a centralized workstation for high user productivity. A Fiery NX server can be placed inside the Fiery NX Station to provide a compact, centralized work station that adapts to different print production environments. A compact design reduces the footprint by over 20%, while a large work table offers an expansive work area to perform activities such as calibration and profiling. A top tray stores commonly used items within easy reach, such as the ES-3000 spectrophotometer, and a rear compartment keeps the ES-3000 measurement ruler and backing board or key documents nearby. The wireless mouse and keyboard save space and make the work area more flexible. The NX Server's USB ports on the QuickTouch panel and back of the server are easily accessible. For the NX Station LS/GL, the NX Premium/Pro server glides out on a sliding shelf for easy installation and service access. When the display is not in use, Fiery Ticker shows at-a-glance printing status and alerts to users at a distance.



The Fiery NX Station comes in three versions:

- NX Station GL The basic configuration with a 22" display and 31.5 x 18" table
- **NX Station LS** Adds an adjustable-height workspace, a larger 27" monitor, a proximity sensor that wakes up the Fiery server as soon as it identifies someone approaching, and tidy power cable storage
- **NX One Station** A compact design accommodating the NX One Server. It includes a wireless mouse, keyboard, 22" display, and 31.5 x 23.6" table

For more information visit the Fiery NX Station web page.

Benefits:

- Efficient and ergonomic operation with NX Station
- Compact design reduces footprint by over 20%
- Quick and easy to install and maintain



Introduction to Fiery FS600 Pro/FS600

Fiery servers are constantly evolving to offer the best choice for every print engine and Fiery server combination on the market in terms of productivity, ease of use, color quality, and integration. Fiery system software platforms have version names to show their evolution over time. The following list of Fiery system software versions is ordered from oldest to newest since 2006:

| For external (Windows) Fiery servers | For embedded (Linux) Fiery servers |
|--------------------------------------|------------------------------------|
| Fiery System 8 | Fiery System 8e |
| Fiery System 9 | Fiery System 9e |
| Fiery System 9 R2 | Fiery System 9e R2 |
| Fiery System 10 | Fiery System 10e |
| Fiery FS100 Pro | Fiery FS100 |
| Fiery FS150 Pro | Fiery FS150 |
| Fiery FS200 Pro | Fiery FS200 |
| Fiery FS300 Pro | Fiery FS300 |
| Fiery FS350 Pro | Fiery FS350 |
| Fiery FS400 Pro | Fiery FS400 |
| Fiery FS500 Pro | Fiery FS500 |
| Fiery FS600 Pro | Fiery FS600 |

The Fiery FS600 Pro/FS600 system is the most innovative, scalable, and integrated server solution for print engines, ensuring that customers obtain the highest return on their investment.

Fiery FS600 is available for embedded Linux-based servers, and Fiery FS600 Pro for external Windows-based servers. The term Fiery FS600 Pro is also used as a general reference to the software at a system level.

Target markets

Production environments include commercial printers, digital printers, quick printers, print-for-pay shops, in-plant/printing services departments, and marketing service providers.

Target print applications

- Marketing materials: brochures, catalogs, stationery, direct mail, cards, tickets, and coupons
- Photo publishing: photo books, postcards, and calendars
- Corporate: newsletters, presentations, proposals, business cards, and forms
- Book publishing: books and manuals
- Packaging: boxes, envelopes, and proofs
- Variable data printing (VDP): direct mail, catalogs, and transactional promotional material



FS600 Pro and FS600 new features table

This product guide defines Fiery servers that include new features in Fiery FS600 Pro and FS600 system software with Fiery Command WorkStation Package 6.8. These new features provide substantial gains in productivity, deliver accurate and amazing color, include impressive improvements in ease of use, and enhanced integration – helping print providers reduce costs and improve service.

Color & imaging Management Adobe PDF Print Engine Intelligent HyperRIP** Fiery Print Scheduler Microsoft® Windows 10 Submit jobs to Fiery Job Groups IoT Enterprise LTSC Color management JobFlow® via Fiery 2021** Media Catalog automation Command Debian 11 Linux* Visual image shift WorkStation*** Fiery TrueBrand for all Global Paper/Media Support for IPP 2.0 Fiery JobExpert cutsheet servers Catalog entry edits Compliance with improvements Mopria® Print Service Fiery Edge spot color Fiery Preflight for black processing Selective settings Native support for and white external Universal Print by Fiery Spot Pro presets servers** enhancements Fiery Command Microsoft Fiery ImageViewer WorkStation Fiery IQ® cloud services enhancements enhancements integration Cutback trapping PrintWide 2020 source profile support Enhanced support for inline measurement instruments Specialty color enhancements

- FIPS 140-2 compliant data encryption**
- Secure Erase (NIST 800-88 compliant) **
- Login with Single Sign-on (SSO**
- Fiery High Security Kit v1.0**
- * Only available on Fiery embedded Linux-based servers
- ** Only available on Fiery external Windows-based servers
- *** Available as a standard feature on Fiery external Windows-based servers and as an option as part of the Fiery Automation Package on Fiery embedded Linux-based servers.

Secure

Blue: client feature available as part of Fiery Command WorkStation 6.8

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



For more information on all new features in the Fiery FS600 Pro platform, refer to the What's New Guide.



Productivity

The following table lists the productivity features available on Fiery servers and represents the standard configuration for each respective Fiery server platform and system version combination. For information on the feature set of a specific Fiery model, refer to the datasheet for that model, or ask your Fiery server vendor about support for a specific feature.

✓ Standard O Option - Not Available SFM = See product-specific feature matrix

| Feature name | NX Premium | NX Pro | NX One | E-Series |
|--------------------------------------|------------|--------|----------------|----------|
| Performance technology | | | | |
| Intelligent HyperRIP | ✓ | SFM | - | - |
| Spool-Rip-Print simultaneously | ✓ | ✓ | ✓ | ✓ |
| Fiery SmartRIP | ✓ | ✓ | ✓ | ✓ |
| Optimized Adobe® PDF and PostScript® | ✓ | ✓ | ✓ | ✓ |
| Auto-Detect Composite Overprint | ✓ | ✓ | ✓ (color only) | ✓ |
| Integration with PDF workflows | | | | |
| Adobe PDF Print Engine 6.0 | ✓ | ✓ | ✓ | • |
| CPSI 3020 | ✓ | ✓ | ✓ | ✓ |
| Advanced job management | | | | |
| Fiery JobExpert | ✓ | ✓ | ✓ | • |
| Force Print | SFM | SFM | SFM | SFM |
| Fast reprint | ✓ | ✓ | ✓ | ✓ |
| Suspend on Mismatch | ✓ | ✓ | ✓ | ✓ |
| Rush print | ✓ | ✓ | ✓ | • |
| Rush process | ✓ | SFM | - | - |
| Print/Process Next | ✓ | ✓ | ✓ | • |
| Job Groups | ✓ | ✓ | ✓ | ✓ |
| Sample Print | SFM | SFM | SFM | SFM |
| Fiery Print Scheduler | ✓ | ✓ | ✓ | ✓ |
| Fiery Automation Package | - | - | - | • |
| Job submission automation | | | | |
| Fiery Hot Folders | ✓ | ✓ | ✓ | • |
| Fiery Virtual Printers | ✓ | ✓ | ✓ | • |
| Job Presets | ✓ | ✓ | ✓ | ✓ |
| Server Job Presets | ✓ | ✓ | ✓ | ✓ |
| Fiery JobFlow™ Base | ✓ | ✓ | ✓ | • |
| Fiery JobFlow | • | • | • | • |



| Fiery JobExpert and PDF Processing Kit | - | - | - | ⊙ |
|---|---|---|---|---|
| Fiery JobExpert | - | - | - | ⊙ |
| Adobe PDF Print Engine 6.0 | - | - | - | ⊙ |
| Support for PDF/VT-1 | - | - | - | • |
| Variable data printing | | | | |
| VDP Raster Preview | ✓ | ✓ | ✓ | ✓ |
| VDP Resource Manager | ✓ | ✓ | ✓ | ✓ |
| PPML v 3.0 | ✓ | ✓ | ✓ | - |
| Fiery FreeForm™ | ✓ | ✓ | ✓ | ✓ |
| Fiery FreeForm Plus | ✓ | ✓ | ✓ | ✓ |
| PDF/VT-2 support | ✓ | ✓ | ✓ | - |
| Define Record Length | ✓ | ✓ | ✓ | ✓ |
| Record and Set Level Finishing | ✓ | ✓ | ✓ | ✓ |
| VDP Record Range printing | ✓ | ✓ | ✓ | ✓ |
| VDP Multi-Up Booklet | ✓ | • | • | • |
| Transactional printing | | | | |
| Strict ordered printing | ✓ | ✓ | ✓ | ✓ |
| Set Page Device Visual Mapping | ✓ | ✓ | ✓ | - |
| Fiery IPDS | • | • | • | - |

✓ Standard

O Option

- Not Available

SFM = See product-specific feature matrix

Performance technology

Fiery servers are the fastest RIPs in the industry. Fiery DFEs are powered by proprietary application-specific integrated circuits (ASICs) with RIPChip™ technology that enables them to take full advantage of custom-designed microprocessors, proprietary file-compression algorithms, and efficient memory management to produce industry-leading performance.

As a result of unparalleled processing speeds, shops can get more data to print engines faster so that the engines are less likely to move into cycle-down and warm-up modes – losing valuable press time. A fast DFE also helps meet tight turnaround times and reduce bottlenecks. The following features define the Fiery performance technology that allows users to grow their businesses with more-profitable, timely, top-quality work – including higher-value, fully personalized jobs.

To learn more about Fiery performance, please read our white paper.



Fiery NX hardware

Fiery NX servers have a cutting-edge and innovative industrial design, customized for Fiery users and for the needs of a highly efficient print environment.

There are three types of Fiery NX servers:

Fiery NX Premium

High-volume, powerful servers for commercial printers, in-plant shops, and digital printers

Fiery NX Pro

Mid -volume servers for digital printers, print for pay, and in-plant shops

Fiery NX One



Mid -volume servers for black and white or lower-speed color digital printers targeted to print for pay, and in-plant shops

Intelligent HyperRIP

The proprietary Fiery HyperRIP[™] technology makes market-leading Fiery servers even faster by processing multiple segments of a job or several jobs simultaneously across multiple processor cores.



Previously, choosing the HyperRIP mode was only available as a system setting. Single job mode was the default. Once users selected a HyperRIP mode, it would apply to all jobs unless they manually changed it by updating the setting in Configure, followed by a server reboot.

Now with Fiery FS600 Pro, Intelligent HyperRIP automatically switches the Fiery server between single-job and multiple-job modes. This can improve throughput and overall productivity in print environments that produce a wide variety of jobs by intelligently choosing the optimal HyperRIP mode for each job.



★ In some cases, Intelligent HyperRIP on a Fiery FS600 Pro NX Premium server can process a run of mixed length jobs up to 2 times faster than a Fiery FS500 Pro NX Premium server with traditional HyperRIP.

In addition to faster processing, Intelligent HyperRIP improves overall production efficiency, as the



HyperRIP mode options in Fiery Configure



operator has no need to stop production and reboot the Fiery server to change the HyperRIP mode.

Intelligent HyperRIP (Auto mode) is the server default. However, the user still has the option to select either multiple jobs mode or single job mode as the default. This could be useful in cases where most jobs are similar in length (either short jobs, such as book covers, or longer jobs, such as book blocks. Intelligent HyperRIP is available when using both Adobe PDF Print Engine or PostScript (CPSI) processing paths. Existing features, such as Rush RIP, still work with jobs processed by Intelligent HyperRIP in single job mode.

Note that not all job and workflow types support some of the specific HyperRIP modes. Please review the sections for more details.

For more information on Intelligent HyperRIP, watch the video

Single job mode

Simultaneously RIPs a single job across multiple processors. Most useful for longer jobs of 20+ pages.



File formats supported by HyperRIP in single job mode

This table lists the file formats supported, and the limitations with some workflows and print settings. If the Fiery server determines a file is not eligible for HyperRIP, it will automatically route the job through the single RIP path.

| File type | Plain | Duplex | XObjects Form caching | Mixed media | Control bar | Print range/ page/ record | Imposition | Postflight | Direct queue |
|---------------------------------------|----------------------------|--------|-----------------------------|----------------|----------------|------------------------------------|------------|------------|-----------------|
| PostScript (CPSI) work | PostScript (CPSI) workflow | | | | | | | | |
| PDF | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PostScript (PS) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PDF/VT | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes |
| PPML | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes |
| VPS | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes |
| VIPP (Xerox servers only) | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes |
| Fiery FreeForm [™] Master | No | No | No | No | No | No | No | No | No |
| FreeForm Variable | Yes | Yes | Yes | Yes | Yes | Yes | - | - | Yes |
| FreeForm Create (.ffc) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| FreeForm Plus (.ffp) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TIFF | No | No | No | No | No | No | No | No | No |
| EPS | No | No | No | No | No | No | No | No | No |



| Adobe PDF Print Engine workflow | | | | | | | | | |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|----|-----|
| PDF | Yes | No | Yes |
| PDF/VT | Yes | No | Yes |
| FreeForm Plus | Yes | No | Yes |
| PDF group | Yes | No | Yes |
| PCL workflow | | | | | | | | | |
| PCL | No | No | No |

HyperRIP support for record range

This feature expands the uses of HyperRIP by enabling its use in single-job mode when printing a range of records in a VDP job. This provides faster processing to both CPSI and Adobe PDF Print Engine processing paths.

Multiple jobs

The multiple-jobs mode simultaneously RIPs several jobs multiple processors and is ideal when dealing with numerous short jobs such as book covers, brochures, or flyers – or when a long job is being processed while other shorter jobs need to start printing.

Jobs processed in this mode will print in the order they finished RIPping, meaning that smaller or shorter jobs will print before longer or bigger ones. If maintaining the print job order is important, this



mode is compatible with the Strict Ordered Print feature which requires that jobs output in the same order they were submitted to the print queue.

Some file formats are not supported by the multiple jobs mode and will be processed using a single RIP path. Those are PPML, VDP, VIPP, PCL, and FreeForm.

After a HyperRIP job has finished printing, the job log and printed queue have the following optional attribute columns:

- Number of RIPs present: indicates the total number of RIP processors available to the job during processing.
- Number of RIPs used: indicates the actual number of processors used to RIP the job. Not all jobs can use HyperRIP, and some will use a single RIP processor instead.

Benefits:

- Intelligently chooses the most efficient HyperRIP mode for each job
- Delivers performance and efficiency gains for runs of mixed-length jobs



• Keeps production running smoothly: no need to stop and reboot the Fiery server to change HyperRIP modes.

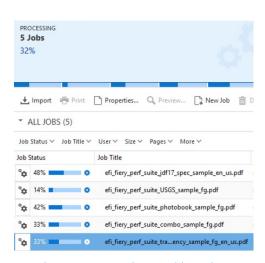
Rush RIP

Rush RIP is a unique Fiery feature that works in combination with the Fiery HyperRIP multiple-jobs mode. It is only available for Fiery NX Premium servers and certain Fiery NX Pro servers.

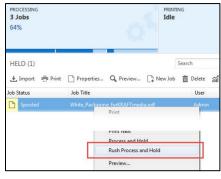
Rush RIP offers the ability to immediately RIP a single job without interrupting other currently RIPping jobs. This happens when the first four Fiery RIP processors are busy RIPping jobs. The Fiery server makes a fifth processor available immediately upon request to process the rush job at the same time other jobs are RIPping. If yet another job is sent to RIP as a Rush RIP job, and all five RIP processors are busy, the job will be processed as soon as any of the five RIP processors are available.

Users activate Rush RIP when selecting the following actions from the right-click menu on Held Jobs:

- Rush Print When selecting Rush Print, the rushed job is sent to the top of the "waiting to RIP" queue. Once a Rush Print job finishes RIPping, it will interrupt a currently printing job and start printing.
- Rush Process and Hold When selecting "Rush Process and Hold," the job goes back to the Held queue as a processed job.



The Fiery server makes an additional RIP available immediately upon request to process the rush job



Rush Process and Hold

Benefits:

Rush RIP is a great print management tool for high-end production environments and gives users even more control at the print queue by:

- Starting to process an urgent job without cancelling jobs currently being processed, or having to wait for those jobs to finish processing
- Being able to preview jobs quickly while other jobs are processing

Spool-RIP-Print Simultaneously

Over the years, Fiery servers have incorporated various innovative technology features to improve throughput. Designed to enhance the Fiery system's overall performance, these features are unified as the Spool-RIP-Print Simultaneously feature. Users can spool, RIP, and print a single multiple-page job, or multiple jobs simultaneously, for these benefits:



RIPChip technology: Proprietary application-specific integrated circuits (ASICs) enable Fiery servers to take full advantage of custom-designed microprocessors, proprietary file compression algorithms, and efficient memory management to produce industry-leading performance.

ECT Compression: Compression software provides flexible compression ratios and visually lossless image quality. Decreases the amount of memory necessary to store documents during processing and enables faster printing of documents.

RIP-While-Print: Print one page while subsequent pages are simultaneously processed.

Continuous Print: Store processed pages in memory before printing, eliminating the need for the copier or printer to cycle down between unique pages.

RIP-1-While-Print-2: Work simultaneously on two jobs for the RIPping and printing processes. Starts to RIP a new file while the previous file is printing.

RIP-While-Receive: RIP a job while it is still being spooled to the Fiery server for a much faster first and last page out. There is no need to wait for the entire job to spool before beginning to RIP the file.

Benefits:

- Increases the Fiery server throughput by delivering faster output to the print device
- Increases productivity by making the Fiery server more available to process jobs
- Reduces bottlenecks at the RIPping stage
- Helps maximize print device's capacity and shop productivity

Fiery SmartRIP

Fiery SmartRIP technology uses a combination of proprietary hardware and software that processes files faster and handles higher resolutions with ease for all Fiery configurations. SmartRIP helps accelerate color, compression, and rendering processes by recognizing file characteristics and using adaptive processing.



Users will especially notice the benefits of SmartRIP technology when:

 The combination of an Adobe Configurable PostScript Interpreter (CPSI) RIP with Fiery SmartRIP technology yields dramatically faster page processing by recognizing file characteristics and using adaptive techniques to accelerate color, compression, and rendering processes



- The improvements in overall throughput optimize the print time for merging VDP jobs
- The efficient use of memory and hard drive space improves efficiency and predictability to support VDP
- The enhanced image processing allows users to print composite overprints of CMYK and Spot colors this key feature enables Fiery servers to pass the Altona Test and Ghent suites.

Benefits:

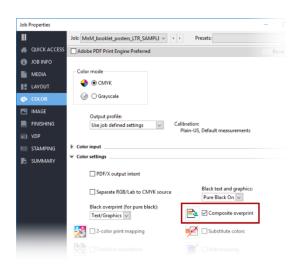
- Achieves RIP performance benchmarked at up to two times faster in a dual processor, and one-and-a-half times faster in a single processor
- Improves efficiency and predictability in color and VDP
- Produces visibly smoother edges and fine type at high resolution (1200 dpi and up). This is quite noticeable in Kanji fonts as well as in Roman faces with delicate, thin elements

Auto-detect Composite Overprint

One way to ensure that all jobs print with the correct overprinting and transparency effects, is to enable Composite Overprint in Job Properties for all jobs going to print. With this selected, all pages are processed for overprinting, and all jobs print correctly.

But jobs that do not require this extra treatment will process faster without going through the Composite Overprint step. A unique Fiery feature called Autodetect Composite Overprint bypasses this step and processes the job at the highest speed.

Auto-detect Composite Overprint automatically detects whether a job needs composite overprinting and processes only those jobs that contain overprints with the extra processing.



Composite Overprint setting in Job Properties

Documents that are RGB-only PDFs, commonly used in the photobook industry, and CMYK documents that don't contain overprints, can gain up to 15% in processing performance. This performance improvement is guaranteed in Fiery external servers, since Composite Overprint is enabled as a default setting. For Fiery embedded servers, the Composite Overprint setting is available and turned off by default.

Benefits:

 Jobs will process as fast as possible, while ensuring the overprinting and transparencies are rendered correctly every time



Optimized PDF

PDF Xobjects are a way of describing objects such as text, images, and vectors within a PDF file. They are automatically generated by the application. Xobjects store common information such as background, headers, and footers that can be drawn multiple times in a PDF document. Their content is stored only once in the PDF file to allow for greater efficiency.



When Optimized PDF is enabled on the Fiery system, Xobjects are processed just once for the entire job. RIPped versions of these elements are cached to be used any time the Xobject is needed in a page – allowing the Fiery system to reduce processing time.

PDF Xobjects on a per-job basis

Users can use Xobjects and optimize a PDF job on a job-by-job basis. Just select the feature in Command WorkStation through Job Properties as Cache PDF and PostScript objects under the VDP tab or use Fiery Hot Folders from a client system.

Benefits:

- Increases throughput by reducing the need to re-RIP the same image in the same file
- Improves the PDF workflow by successfully rendering PDF files containing Xobjects

Job submission automation

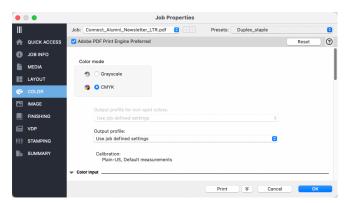
It is critical to automate complex tasks and leverage all available resources in a production environment that regularly receives jobs from external sources. In-plants and printing services departments, as well as commercial organizations, use digital workflows to eliminate mind-numbing, time-consuming manual tasks and resource waste. This helps to shorten job-preparations times, minimize errors, and speed up turnaround times.

Fiery servers provide a wide range of tools to streamline workflows from job submission to output and therefore, adapt to any type of automation needs.



Job Presets

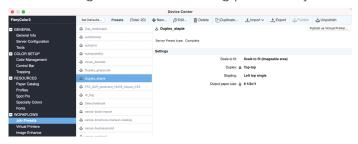
Job Presets allow the user to save predefined print settings as a retrievable template from a Fiery driver or from Job Properties. Users can create several templates to define settings based on their own common printing scenarios, and to streamline job submission with fewer clicks and errors.



Server Presets Job Presets

Local Job Presets are available only on the user's client workstation. Administrators can create Server Job Presets to share Job Presets with all Fiery users. This way, they can automate the selection of Job Properties for commonly used tasks, saving time and maximizing productivity.

Administrators can save, edit, publish, and delete Server Presets from the Command WorkStation Device Center. They can also create Server Presets from Job Properties in the Command WorkStation - select the applicable job settings and enter a name and description. Other users can access these centrally stored presets through workflows and applications such as Virtual



Save, edit, publish, and delete Server Presets from the Command
WorkStation Device Center.

Printers, Fiery Hot Folders, Job Properties, print drivers, Fiery JobFlow, and Fiery FreeForm Create.

Benefits:

- Allows all users to access commonly used settings in all workflows
- Permits administrators to save and manage the most used settings, and then easily publish them as Virtual Printers and Fiery Hot Folders

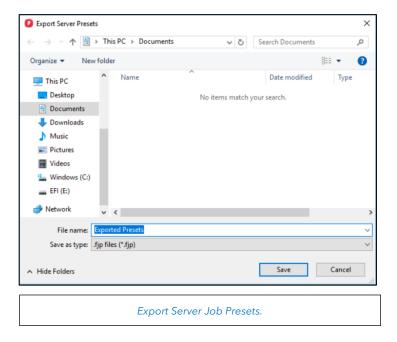
Import and export Job Presets

This feature offers the ability to import and export both server and local Job Presets. Local Job Presets can be exported and shared between users. Only administrators can manage Server Presets.





Users can export and import Server Job Presets between Fiery servers of the same model, streamlining the process of programming multiple servers to behave identically.

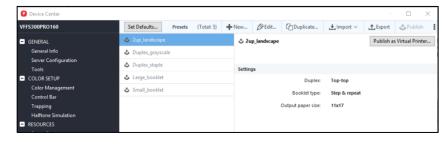


Benefits:

- Share and back up local Job Presets for safekeeping
- Easily and guickly make Server Job Presets available to multiple Fiery users
- Create automated workflows for any repetitive task, reducing the number of times a job needs to be touched during printing

Built-in server presets

Fiery servers include five
Server Presets to help users
quickly set up jobs with
some frequently used print
settings, including both
layout and finishing options.
This also promotes the use
of server presets and workflows.



The server presets include:

- 2up landscape
- Duplex grayscale
- Duplex staple



- Large booklet
- Small booklet

Fiery Virtual Printers

Fiery Virtual Printers lets production print administrators create a specific configuration for a certain print device that contains all the print driver settings they need for a given job type. They can then present the configuration to users as a printer with a specific name. For example, a user who prints training manuals on a regular basis could simply print to a printer named "Training Manual," greatly reducing interaction



between user and production while capturing pertinent data for the job.

In comparison with Fiery Hot Folders, Virtual Printers are managed and configured centrally by a Fiery administrator. All settings are controlled in Command WorkStation, where only an administrator can view and/or change the published Virtual Printers and details associated with them. Virtual Printers are also designed to be used directly from a print driver.

Virtual Printers come standard with external servers and are an optional feature for some embedded servers.

The administrator has rights to the following functions:

- Create new virtual printers
- View the available virtual printers (and published queues)
- Publish, delete, or edit virtual printers

Key functions and features of Virtual Printers include:

- Defines a combination of up to 252 Virtual Printers on a Fiery server
- Is easily accessible from any print driver ideal for driver-based workflows
- Provides Fiery system actions such as hold, process and hold, print, and print and hold
- Comes with imposition and override settings

Benefits:

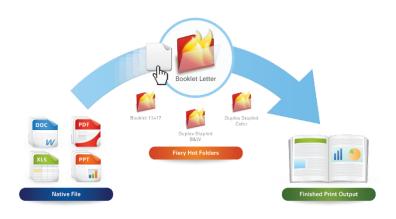
- Automates workflow for all users, increasing productivity
- Reduces repetitive workflows for faster, error-free printing



• Ensures that print processes and company standards are maintained; relevant settings can be preserved as admin-lockable

Fiery Hot Folders

Fiery Hot Folders let users do more work by automating the job-submission process with a simple drag-and-drop operation. Fiery users can publish and share Fiery Hot Folders with other users in their network for faster, error-free printing for everyone. Users can copy or simply drop documents into hot folders which will then send them to a Fiery server with the pre-set print settings. Hot folders can be set up to



specify certain job properties, to impose jobs, and to merge jobs.

Fiery Hot Folders relieve the user of the repetitive task of configuring print settings for multiple jobs and allow direct printing of files without the need to open them in their native application such as Adobe Photoshop® or Microsoft Word. Since hot folders appear as folders on a host computer and can be shared on networks, they provide a simple way to forward jobs without installing special utility software on each computer.

Fiery Hot Folders includes a set of expert-level filters. These filters allow users to submit jobs in their native file formats without opening the native application. This way, jobs can be routed to the Fiery server with predetermined settings attached – including PPD overrides, imposition attributes, and file format conversions.

Fiery Hot Folders come as a standard feature with all external and some embedded Fiery servers. For embedded servers where it is not standard, it is available as a paid option.

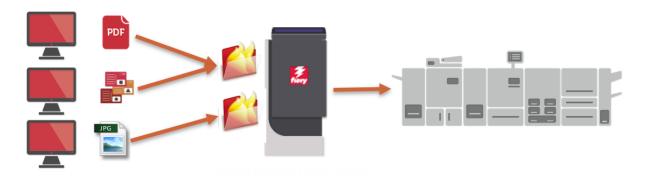
Benefits:

- Automates workflow for all users, increasing productivity
- Reduces repetitive workflows for faster, error-free printing

Fiery Hot Folders runs as a service

The Fiery Command WorkStation Package includes Fiery Hot Folders. It 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





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

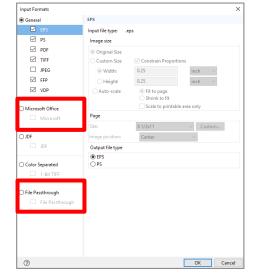
Microsoft Office filters

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.

File Passthrough

This input format enables the use of hot folders to submit jobs supported by the Fiery DFE but not covered by all



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

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 Hot Folder filters

In a high-end commercial or in-plant environment, print professionals demand compatibility and integration in their existing workflow. They also insist on proper file conversion with optimal productivity.

Fiery Hot Folders is designed to provide users with an automated method for sending print files to a Fiery server through simple drag-and-drop or print-to-file actions. Users get a set of expert-level filters that allow Fiery Hot Folders to process jobs in native file formats. In hot folder workflows, jobs may be routed to a Fiery server with predetermined settings, including PPD overrides, imposition attributes, and file format conversions.

Benefits:

- Offers seamless integration of digital production in conjunction with high-end graphic arts workflows
- Relieves users of the repetitive task of configuring multiple jobs
- Reduces errors and eliminates workflow redundancies
- Enhances productivity by allowing native files to be submitted without the need to launch a separate application, and by converting files in the Fiery Hot Folder application at the client, rather than on the Fiery server

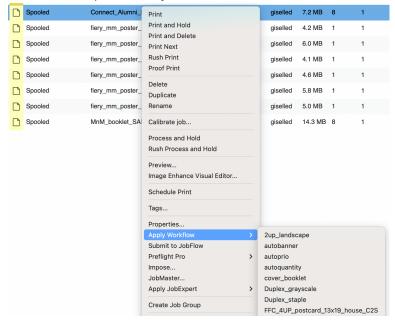
Hot Folder filters include:

| Filter | Description |
|---------------------------------|--|
| TIFF/IT TO POSTSCRIPT | TIFF/IT is a file format used in graphic-arts environments for transfer of final print job data (often prescreened) from one print platform to another. |
| | This filter converts TIFF/IT to pre-separated PostScript, one separation per page. |
| TIFF TO PDF | TIFF is a flexible, platform-independent file format used in graphic-arts environments, and for high-end graphics applications. This filter accepts all TIFF files up to TIFF 6. |
| | The filter preferences provide the user with options for scaling and positioning of the output. |
| 1-bit TIFF (engine specific) | 1-bit TIFFs are used in certain prepress environments when there is a need for fast output and predictability. They are considered the equivalent of digital film because they are locked, pre-screened files that contain all the information necessary for printing the file, including dot size and screen resolution. The ability to print 1-bit TIFFs on a Fiery Driven device allows users to simulate the conventional screening on the Fiery server. |
| EPS TO POSTSCRIPT | Encapsulated PostScript is a common legacy format for graphics and other page elements or pages. This format can also include text, graphics, and images. The filter preferences provide the user with options for scaling and positioning the output. |
| JPEG TO POSTSCRIPT | JPEG is a standardized image compression format. The filter preferences provide the user with options for scaling and positioning the output. |
| FFP | FreeForm Plus (.ffp) files are generated from the Fiery FreeForm Create application. This filter allows the user to automate submission of these files to a Fiery server. |



Fiery Command WorkStation

The Fiery Command WorkStation interface offers a way to automate job-submission workflows by quickly selecting Server Presets after right-clicking on a job. Fiery administrators can create and publish job-submission workflows as easily as they can create a new Virtual Printer and can publish the workflows to make them available to everyone using that Fiery server. The automated workflows require a Fiery server with Virtual Printers or Server Presets.



Make a Server Preset selection with a right-click on a job.

Fiery JobExpert

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



To accomplish this, Fiery JobExpert will:

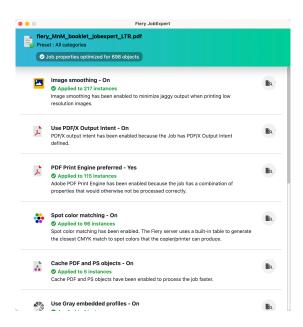
- Analyze each print job in detail
- Automatically set the optimal Fiery job settings
- Process each job to efficiently achieve the best possible print quality
- Report and highlight each suggested change

Fiery JobExpert serves as a built-in expert that delivers:

 Highest print quality – Fiery JobExpert always chooses the correct color and imaging settings for the highest possible output quality.



- Faster processing Some files don't require turning on advanced imaging settings that can slow down processing. Fiery 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 appropriate settings that 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-anderror prints on complex jobs or interrupting production to print a proof copy. Instead, consistent analysis-based processing gets it right the first time, every time.



Fiery JobExpert Report displays the job properties that are enabled for the job

- Support for PDF/VT-1* brings the benefits of a PDF workflow to variable data printing (VDP), which helps print providers extend their print offerings and increase production efficiency.
- Undo if needed Operators may overrule Fiery JobExpert at any time.
- Accessible report After defining a job's settings, Fiery JobExpert generates a report for each suggested change. It provides a highlighted view of the changes made to a job if an operator wants to take a closer look.
- Expanded file support Fiery JobExpert supports both PDF files and PostScript files (when submitted through a Virtual Printer)
- Automatic VDP file recognition When Fiery JobExpert detects reoccurring content, it converts the PDF into a PDF/VT** file so it can identify repeating records. This enables users to take advantage of variable data capabilities such as printing specific record numbers, or using certain VDP features when imposing a job.

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

For more information visit the JobExpert web page.

^{*} Requires the Fiery JobExpert and PDF Processing Kit for embedded servers

^{**}Note that the PDF/VT conversion is only to enable VDP capabilities, it will not be RIPped as a VDP file



Fiery Impose - Finisher integration to automate prepress to post press

Fiery Impose has been introducing significant improvements to the integration between Fiery Impose and the most popular offline finisher equipment manufacturers. Users can automate the job preparation process all the way from prepress to post press, to quarantee the final products are produced efficiently and with minimal waste.

Read the full description in the Fiery Impose section.

Fiery JobFlow

Fiery JobFlow offers automated prepress processes that are easy to set up and use, to minimize rework and boost overall efficiency on the print floor.

The Fiery JobFlow installer is included in the list of applications to download from the Fiery Software Manager on Windows workstations. Users can access the browser-based Fiery JobFlow application from MacOS or Windows clients.

Installing the Fiery JobFlow application gives users access to the free version, Fiery JobFlow Base. Users need a paid license upgrade to unlock the full functionality of Fiery JobFlow.

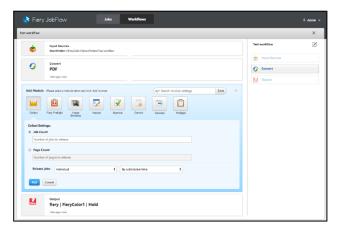
Fiery JobFlow Base is used to configure automated workflows for:

- Submission from multiple locations (Dropbox, shared folders, and FTP), or by a drag-and-drop operation directly to the workflow
- PDF conversion
- Job merging and reorganizing pages
- Batch and collecting jobs
- Fiery Preflight (requires Fiery Graphic Arts Pro Package or Fiery Automation Package license)
- Image enhancement
- Document imposition (requires Fiery Impose)
- Job ticketing
- servers)



The full version of Fiery JobFlow contains additional features:

- Rules-based workflows
- Image upscaling
- Advanced preflight (powered by Enfocus PitStop)



Custom workflow creation in Fiery JobFlow



- PDF correction (powered by Enfocus PitStop)
- Reviewers can approve jobs remotely
- Automatically send jobs to next available printer
- Cloud-based approval workflows
- Import custom script packages

For more information on Fiery JobFlow, visit the product webpage.

Benefits:

- Eliminates repetitive manual setup and produces ready-to-print files with the fewest touchpoints
- Detects and uses existing Fiery resources such as presets and templates, to avoid rework and to speed up the print process
- Ensures consistency and higher efficiency when processing similar print jobs through the same workflow
- Allows internal and external reviewers to quickly and easily approve jobs remotely without interrupting the workflow

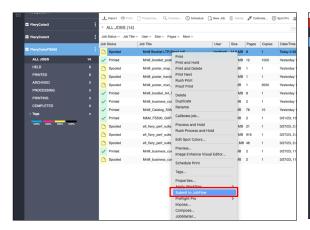
Submit jobs to Fiery JobFlow through Fiery Command WorkStation

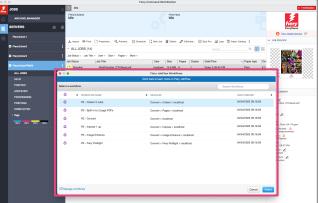
Submitting jobs into automated prepress workflows has never been easier. Users can now seamlessly submit jobs to Fiery JobFlow™ using various submission methods including Fiery Command WorkStation, Fiery Virtual Printers, and print drivers. This provides greater flexibility in the job submission process, plus reduces the potential for human error, and makes automation more accessible and easier to use.

By submitting jobs directly from Command WorkStation or Virtual Printers, users can streamline their workflow and avoid unnecessary manual steps in the prepress process. This leads to increased productivity and time savings. In addition, Fiery print drivers provide a convenient option for users to submit jobs to JobFlow from their desktop without navigating through multiple applications.

To submit a job through Command WorkStation, users can simply right-click on a job in the held queue and select "Submit to JobFlow." This will open a new window where users can select the JobFlow automation workflow they want to use for that job.





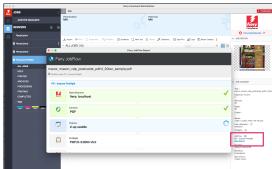


Right-click on a job and select Submit to JobFlow.

The JobFlow workflow window will open for users to choose which workflow to apply.

Once they've submitted a job, users can keep track of its progress through the JobFlow workflow by checking the Job Status column of the Held queue or by opening the JobFlow Report from the Job Summary pane in Command WorkStation.





Check the workflow progress in the Job Status column

Check the workflow progress by opening the JobFlow report

Use-case example:

Submit any file format*, including JPEGs, to Fiery Command WorkStation. Fiery JobFlow converts the files into a PDF before sending them to the Fiery server. To enable this, simply create a Virtual Printer with a JobFlow conversion workflow.

* See the full list of supported file formats <u>here.</u>

Benefits:

- Makes automation user-friendly and readily accessible
- Provides various channels to seamlessly submit jobs to automated workflows



Variable data printing

No matter what you call it – personalization, customization, versioning, transactional printing, variable information (VI), or simply variable data printing (VDP) – market research proves that personalized communications or targeted marketing can significantly improve a company's bottom line. Overall revenues and profits associated with personalized marketing programs are more than 31% greater than those from general marketing. Personalized communications also garner measurable increases in the size and value of orders. Customers are apt to respond more quickly and in greater numbers to personalized marketing messages. And personalized communications increase customer loyalty and retention by more than 47%.

Today's overall trend toward targeted marketing will only intensify in the future. For organizations with the right resources, marketing support, and business knowledge, VDP is more than just a powerful tool: it's a strategic necessity. But currently, there are no simple, off-the-shelf VDP solutions. Instead, VDP requires customized end-to-end attention to customer needs and budgetary constraints.

Fiery VDP solutions are different. They fit into existing workflows so designers can easily develop customized marketing campaigns, regardless of their complexity, and add to their systems as their needs grow.

Fiery technology delivers fast, industry-leading, adaptable VDP capabilities, and allows Fiery users to choose any authoring tool to create static and variable elements with flexible and open, end-to end VDP solutions. They use the most comprehensive array of VDP languages, such as Fiery FreeForm Plus, PPML, PDF/VT, and a host of proprietary languages. All this allows print providers to take advantage of evolving VDP technologies – regardless of the brand of database management system, generator software, page-layout program, or print device.

The Fiery Command WorkStation interface manages the inputs and outputs for even the most complex VDP jobs. This allows users to manage their Fiery servers and VDP jobs from one location. The VDP Resource Manager utility enables print production shops to store, view, and reuse RIPped objects on networked Fiery servers. Using it in conjunction with a high-speed printing device and a Fiery server, shops can eliminate production bottlenecks and print VDP jobs faster than ever before.



Using proprietary and partner technologies, Fiery delivers high-performance, open VDP solutions. Fiery also continues to work with the most respected partners in the industry to enhance its integration with the latest solutions and existing VDP workflows.

For more information, visit the Fiery VDP solutions web page.

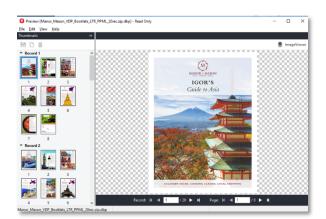


Fiery VDP Raster Preview

The Fiery VDP Raster Preview enables users to view the content of the job, organized by records or finished sets, and to navigate either by records/finished sets or by pages/surfaces. The job is displayed in actual size, and the user can use scroll bars to see the whole image. This way, users can verify whether the record boundaries for imposed and non-imposed jobs are correct before printing the job.

Benefits:

- Enables users to verify record boundaries for imposed and non-imposed jobs within the raster preview, without the need to print the job reducing potential errors and waste
- Displays records for non-imposed VDP, and finished sets for imposed VDP jobs
- Saves time and eliminates waste because users do not have to guess how the job will print







Imposed VDP job

VDP file formats supported by Fiery servers

Fiery servers are compatible with all these file formats, so you can use any of them.



PPML - PPML was designed to support efficient job resource reuse. By allowing the DFE to know early on which fonts, logos, diagrams, images, or other resources are needed at a particular point in the job; the DFE can rasterize that resource a single time and use it as many times as needed without redundant processing. Fiery DFEs are compliant with PPML 3.0 as set forth by the Print-on-Demand industry initiative.

Creo VPS - A fundamental benefit of the Creo variable print specification (VPS) is its ability to specify which elements of a variable-data print job will be used multiple times. Once specified, the application will eliminate multiple downloads of repeating data elements to the printer or digital press. This prevents redundant data handling and helps variable-data print jobs to print at or near rated engine speed. Fiery servers are compatible with the Creo VPS format, so users can RIP and print jobs in the Creo VPS format.

VI Compose (VIPP/VPC) – Available on Fiery servers driving Xerox print engines only, this open language from Xerox enables the highest-performance output in variable data PostScript documents.

PDF/VT – PDF/VT is a standard developed by the International Organization for Standardization (ISO) for VDP data exchange. Fiery servers are compliant with PDF/VT through both CPSI and Adobe PDF Print Engine.

Fiery FreeForm - a proprietary variable data output format, available within Fiery Command WorkStation or from the Fiery driver. It requires separate files containing the master and variable content, and the user maps the master to the appropriate pages in the variable document. This delivers a significant performance improvement over mail merge functions in applications like Microsoft Word or Adobe InDesign, where the final file contains the master with every variable record in a static PDF - meaning that the master must be processed over and over again

Fiery FreeForm Plus - output format generated exclusively from the Fiery FreeForm Create application, which allows users to quickly create personalized files that include variable text, images, and barcodes - all in a user-friendly interface. FreeForm Plus files can be submitted to the Fiery server for production in several ways: directly from the FreeForm Create application, via Fiery Hot Folders, or by dragging the file package directly into the Fiery Command WorkStation Held queue.

Benefits:

- Offers open VDP implementation, ensuring compatibility in all VDP workflows and complete flexibility
- Consistent Fiery workflow interface greatly reduces training curve for existing Fiery users, leading to fast adoption and higher productivity



PPML 3.0

PPML 3.0 supports in-RIP transparency flattening. Flattening transparencies as late in the process as possible provides the best results. PPML 3.0 also supports transparency within the PDF layer and between layers. It allows users to print variable layers as designed and supports the printing of drop-shadow PostScript masks and soft-edge TIFF masks. In addition, it lets users overlay a reusable JPEG image.



VDP job with variable transparent element

Benefits:

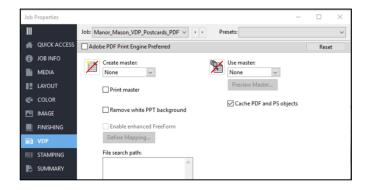
- Improves design flexibility and user productivity
- Eliminates costly file rework

Fiery FreeForm

Fiery FreeForm is a built-in, simple-to-use VDP file format that supports a wide variety of source applications, without the need for a third-party VDP composition tool. It can create static data masters with any design application.

The page length of the FreeForm master document defines each record in a FreeForm job. FreeForm maps the pages from the variable document to the record length defined by the FreeForm master until all the variable document pages are used.

FreeForm Multipage Previews – With bidirectional communication enabled, the Fiery driver provides the user with multipage previews of FreeForm masters.



Fiery FreeForm settings in Fiery driver and Job Properties

This allows visual confirmation of selected FreeForm masters with static content that spans multiple pages.



Master Pages

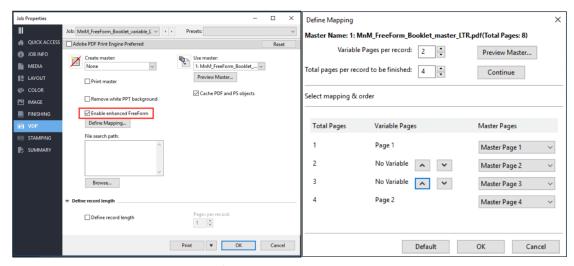


Variable Pages





FreeForm provides user control over the mapping between the variable and master documents with the Enhanced FreeForm feature. This provides several benefits. First, instead of adding blank pages to the source variable document, the user can map a blank page to a master page. Second, the user can pick and choose which master page a given variable page uses. And finally, the user can define the length of the record, instead of having to use the entire length of the master document.



Users can choose Enhanced FreeForm from the Job Properties VDP tab.

Using the Define Mapping table, users can associate the variable pages

FreeForm settings can be accessed from Command WorkStation Job Properties, Virtual Printers, Presets, Fiery Hot Folders, and in Windows and Mac drivers. Enhanced FreeForm is available from



the Job Properties VDP tab after selecting a master document from the Use Master drop-down menu.

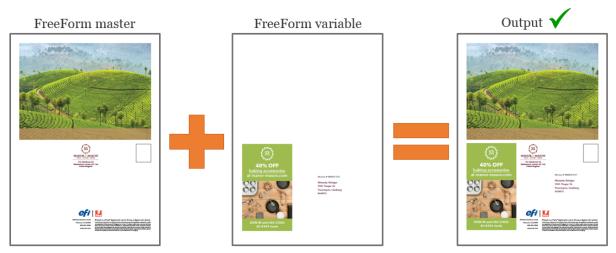
Benefits:

- Simplifies creating and using VDP documents by allowing users to map variable documents to master documents without modifying the source documents
- Offers the flexibility to pick only a subset of pages from a master document, and use the selected pages with the variable record in any order
- Allows users to create powerful personalized print jobs using standard tools, without the need for additional VDP software

Fiery FreeForm master on top

This feature provides the option of merging content from a FreeForm master on top of variable content during job processing, preventing the variable content from obscuring master content in some designs for personalized jobs.

Most common FreeForm uses expect the master content to be a background layer for the variable content. An example is the use of a FreeForm master file as a document letterhead, with the FreeForm variable file as the content of the letter. In this workflow, none of the variable elements overlap any of the master file elements, and the job prints as expected as shown below.



Personalized output looks correct regardless the order the master is processed

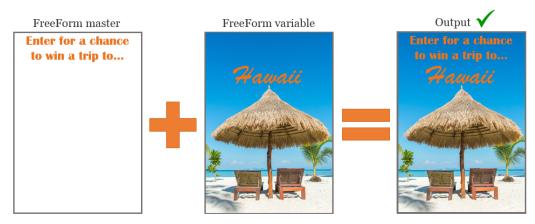
Some applications may have a FreeForm variable file with background elements such as a picture that would overlap and obscure the master data.





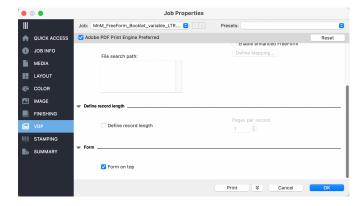
Variable content obscures the master content due to processing the master as a background layer

The FreeForm master on top feature gives users extended flexibility in the design for variable data applications. It is also useful when using specialty colors such as clear, white or neon.



Correct output using the FreeForm master on top feature

The setting is a check box that can be found inside the VDP tab in Job Properties.





Fiery FreeForm Create

Fiery FreeForm Create is a free, stand-alone variable data creation application for Fiery servers. It leverages Fiery FreeForm technology and allows the users to quickly and simply personalize existing files for free in an intuitive interface and add variable elements such as text, images, and barcodes with just a few clicks. It's ideal for applications such as business cards, diplomas, calendars, postcards, booklets, direct mail, labels, parking passes, newsletters, and so much more.



Fiery FreeForm Create is unique among available variable data authoring tools on the market, providing a powerful, easy-to-use solution for businesses looking to personalize documents efficiently without incurring extra costs or needing specialized software.

For Print Service Providers (PSPs) or in-plants

Fiery FreeForm Create provides a great opportunity to get started with personalization for free. With the ability to personalize files on the fly, you can provide more value-added services to your customers. And for PSPs or in-plants who are already familiar with VDP, FreeForm Create may provide a more efficient or cost-effective method for personalization compared to your existing processes.

For creatives/designers/marketers

Since access to a Fiery server is not required to run FreeForm Create, anyone can use it! It's a great resource for creative professionals, designers, or marketers who want to create their own print-ready, personalized files in a visual interface. The files are saved out of the application in a packaged format that can be provided to a PSP or in-plant for production.

For office workers

Fiery FreeForm Create is an easier and faster way to create personalized files compared to mail merge functionality in Microsoft Word or Adobe InDesign. Rather than create a large document where static elements are repeated over and over (increasing file size and process time), FreeForm Create outputs an optimized file that's smaller and more efficient, which, in some cases, processes up to 80% faster than a traditional mail merge.

For packaging producers

FreeForm Create is a free, more efficient alternative to creating variable content compared to using InDesign or Illustrator plug-ins. And it delivers many of the same capabilities as paid VDP applications, like variable text, images, or barcodes. Packaging producers can personalize customer packaging to help increase the impact, or for subscription-type packaging, you can use FreeForm Create to include targeted information on box contents or even include other offers that the customer could benefit from. Also, packaging producers can use the barcode capabilities



in FreeForm Create to identify each unique board to track it through the manufacturing process and help track any errors that occur through finishing. And a barcode can be used to track individual packages after they've shipped, in case issues arise later with the contents.

For more information, please visit the Fiery FreeForm Create product page.

Fiery FreeForm Plus

Fiery FreeForm Plus is a proprietary VDP format that's available exclusively within the Fiery FreeForm Create application.

It 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, like applying an imposition template, selecting a media size, configuring specialty colors, or setting other attributes in Job Properties, on the engine and Fiery server.

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
- Get an alternative job submission method that does not require Fiery server login from FreeForm Create
- Compatibility with both PDF Print Engine and PostScript interpreters

Watch the video to learn more about Fiery FreeForm Plus.

Fiery FreeForm Kit

The Fiery FreeForm Kit is a set of resources designed to help you learn how to use the Fiery FreeForm Create application to its fullest potential. See examples of variable data documents, created using FreeForm Create, that utilize variable text, images, and barcodes. These examples serve as templates and can be used as customer samples to show what is possible with variable data printing, or to provide inspiration for the types of personalized applications that you can create for your customers.



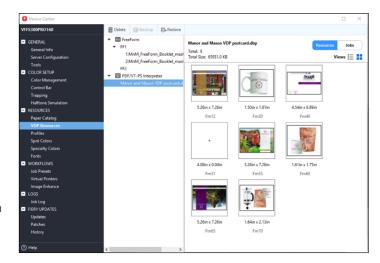


VDP Resource Manager

The Fiery VDP Resource Manager presents a list of the repeatable elements (source and cached) that are stored for future use. Users can find the VDP Resource Manager in the Device Center, in VDP Resources under the Resource section.

Key functions and features:

- Easy to navigate with an intuitive user interface
- View a list of repeatable elements, categorized by VDP file format
- See a thumbnail preview of elements, as well as their name, size, and creation date
- Archive or delete dated or redundant files
- Troubleshoot problem files and reduce production bottlenecks with a single view of all VDP resources on all of the Fiery servers in the printshop



- Choose from a list or thumbnail view (thumbnail view provides a visual illustration of resources)
- View a list of jobs in the Hold gueue that are associated with a selected resource
- Delete all the resources in a print environment
- Back up and restore resources
- Automatically refresh stored VDP resources when a new VDP file is processed

Benefits:

- Quick identification and verification of cached VDP elements
- Optimizes management of VDP resources that can be leveraged by future jobs in FreeForm, FreeForm Plus, PPML, PDF/VT-2, and VPS formats.

PDF/VT support

Efficiently driving complex VDP jobs in digital print environments requires support for multiple standards to ensure interoperability. Fiery servers are compliant with both PDF/VT-1 and 2, standards developed by the ISO for VDP data exchange, through both CPSI and PDF Print Engine. PDF/VT is Adobe's variable data language, based on PDF technology. Support for PDF/VT brings the benefits of a PDF workflow to VDP, which helps print providers increase production efficiency with capabilities such as late-stage exchange of critical variable content.



The system processes PDF/VT-1 files the same way it handles other VDP files – by detecting records defined in the PDF/VT job and caching reusable Xobjects – and displays a format icon for PDF/VT jobs on the Fiery Command WorkStation.

The format icon, as well as the quantity of records and pages per record, identifies PDF/VT jobs in Command WorkStation.



The format icon, as well as the quantity of records and pages per record, identifies PDF/VT jobs in Command WorkStation.

The Fiery server recognizes PDF/VT-2 files and shows a different icon in Command WorkStation for this format. It automatically extracts the record information and displays the number of records and pages per record, showing PDF/VT cached resources in the VDP Resource Manager. Fiery servers support PDF/VT for both CPSI and PDF Print Engine interpreters. PDF/VT-2 gives users a performance improvement because PDF/VT files can refer to resources through a file search path so that they can be processed inline, but the overall PDF/VT file size being transferred is reduced. With PDF/VT-1, all of the resources must be contained inside the file.

Benefits:

- Folds seamlessly into existing PDF-based prepress operations, enabling a single common PDF print production workflow for all job types
- Easier to use, with a visual illustration of cached, reusable elements and easy identification of VDP jobs
- Increases productivity with support for users' existing workflow
- Supports industry VDP standards so that users can confidently print any standard VDP data stream
- Adds flexibility to customer workflows

Fiery Hot Folders filters for VDP files

Fiery Hot Folders support the following VDP formats:

- PDF/VT
- FreeForm Plus
- .ppml, .zip, .vps, .ps, .vpc, .dbf

Benefits:

- Adds flexibility to customer workflows
- Automates job settings in Command WorkStation without user intervention



Processing optimization for PDF and PostScript VDP files

Some customers use PDF or PostScript formats for creating VDP jobs. PDF uses Xobjects, and PostScript uses Forms, to convey information about repeating objects in the file. Fiery servers support PostScript files with Forms. Users can gain a huge performance boost by using the information from PDF Xobjects and PostScript Forms to RIP the repeatable elements only once and then cache them.



"Cache PDF and PS objects" box in the VDP tab of Job Properties

This feature is available in both the CPSI and PDF Print Engine processing paths through the VDP tab of Job Properties.

Benefit:

 Increases speed and performance while processing PDF and PostScript format files in VDP applications

Define Record Length

In VDP workflows where VDP applications generate PostScript or PDF files as output formats, print servers don't have a way to know the number of records in the job, or how many pages the records contain. Consequently, some finishing options such as VDP imposition or subset finishing with Mixed Media will not be fully functional.

In order for the correct finishing options to be available to such jobs, and to allow for PostScript and PDF files to be processed as VDP jobs, users need to be able to define these parameters.

Define Record Length allows a user to define the fixed record length for a VDP job when it is provided in PostScript or PDF format. This Define Record Length setting can be found in the Fiery driver and Job Properties utilities. Two columns display this VDP job ticket information in Command WorkStation:

- Number of Records: Displays the number of records contained in the file
- **Pages per Record:** Displays record length information with variable record lengths displayed as a range, from smallest to largest

Benefits:

- Allows VDP jobs imported in PostScript and PDF formats to be correctly processed with the desired finishing requirements
- Reduces waste by allowing users to print a selected set of records
- Provides additional VDP job information, allowing users to prepare and troubleshoot VDP jobs more efficiently



Record level finishing support

Fiery systems support individual VDP set (record-based) finishing for VDP jobs. In such cases, finishing settings inside the Job Properties window will be applied at the record level, as opposed to the job level.

There are no special user-interface requirements for VDP set finishing. Finishing options previously applied globally to a job will now be applied to each individual record inside that job. All records inside the job will be treated identically. VDP set finishing is applied to all content between the start and end marks.

The following VDP file formats have native definition on the start and end of a VDP set, and therefore support subset finishing:

- FreeForm
- FreeForm Plus
- PDF/VT
- PPML
- VI Compose (VIPP/VPC Xerox only)
- Creo VPS

Benefit:

• Increases automation of the output process and reduces the number of manual offline steps in production

VDP Record Range Printing

Reduces waste and lost time by allowing the user to select a range of records to be printed from a VDP job as a Command WorkStation override. The Record Range Printing feature for VDP jobs is supported for both non-imposed and imposed VDP jobs in FreeForm, FreeForm Plus, PDF/VT, PPML, VI Compose (VIPP/VPC – Xerox only), and Creo VPS formats.

Benefits:

- Simplifies record reprinting: For example, if you need 4 of 100 records, you don't have to process the whole job to just print those records
- Reduces waste by allowing the user to print a selected set of records

VDP Multi-Up Booklet

VDP Multi-Up Booklet is a Fiery Impose feature that allows two records to be printed on a sheet, reducing costs by printing on a larger sheet size for a single click charge. Users can find it through



Fiery Impose and can save settings as an Impose preset they select from Virtual Printers or Fiery Hot Folders for automated job submission.

For records of different lengths, blank pages will be positioned automatically – based on pagination requirements. If covers are not enabled, the blank pages should fall at the end of the job. Otherwise, with covers enabled, the blank pages could fall somewhere in the middle after the job is folded during offline finishing.

First Edit View Help First Edit View Help Sheet I - Front Sheet I - Back Total Pages 100 (Stack 2 of 10) 12 Sheets Sheet I - Back Sheet I - Front Sheet I - Front Sheet I - Front Sheet I - Front Sheet I - Back Sheet I - Back I - P4 R1 - P 2 - P4 R2 - P Sheet I - Front Sheet I - Sheet I - Back Sheet I - Front Sheet I - Back Sheet I - Back Sheet I - Front Sheet I - Back Sh

Record 1 and Record 2 booklets print on the same sheet

Benefits:

- Allows faster throughput by producing a job using fewer sheets and fewer clicks
- Reduces costs by printing two records on a larger-sized sheet

Transactional printing

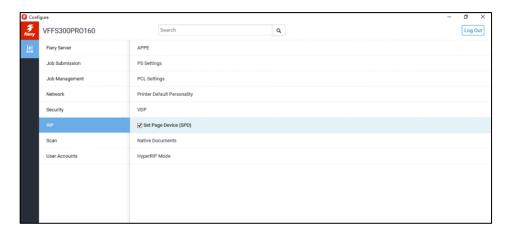
Set page device support

The term set page device, also known as setpagedevice, refers to a group of PostScript commands that describe the printing characteristics of a file. This includes things such as paper attributes, finishing options, and number of copies. These commands are primarily used for specialized applications that require dynamic mixed media; or data-driven mixed media such as transactional applications that have a variable number of pages per document, where media requirements may be different for each page.

Set page device support lets Fiery servers translate or map the paper attributes to the Fiery Paper Catalog, and finishing options to specific output bins. This eliminates the need for human intervention, saves time, increases productivity, and automates workflow.

Users enable set page device in the Device Center, and select it in Job Presets, Virtual Printers, or Fiery Hot Folders for automation. Set page device commands can only be used with PostScript base languages (PS, VPS, VIPP) and are not device dependent.





Enabling set page device in Configure

Once set page device Media Mapping is activated, users need to define the actual media and finishing mapping in Job Properties.



Defining media and finishing mapping in Job Properties

If print operators want to see and verify the embedded set page device commands in the PDL file, they can use Fiery Preflight to generate a report of the commands in the file.

Benefits:

- Increases productivity with support for the user's existing workflow
- Automatically prints set page device embedded files without user intervention, to save time and increase productivity

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 allow pages within a document to print as banner pages. This lets Fiery users customize 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



Banner page print settings

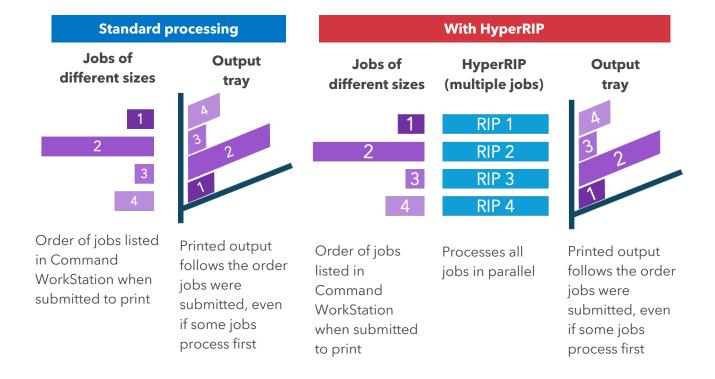
barcode and a company logo. The first banner page can be sent to the Finance department for cost accounting purposes, while the other is used by the Shipping department for distribution instructions. The banner pages can print on a different media than the job and output on a different tray.

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 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 IPDS

Tiery 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.

Fiery IPDS provides a high-performance, IS/3 compliant IPDS solution that leverages industry-leading Fiery technology for rendering, variable data, color 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.



Management

Fiery Command WorkStation in the main job and device management interface for Fiery Driven printers where local and remote users can manage Fiery servers from various print engine manufacturers, do color management, submit jobs, prepare and preview jobs before printing, and more from Mac and Windows client workstations. The visual, intuitive interface lets users get jobs done faster and with fewer clicks, saving time and money. Updates to Command WorkStation are free and can be downloaded by all Fiery server customers at fiery.com/cws.

These are the standard configurations for each Fiery server platform and system version combination. For information on a specific Fiery server model's feature set, refer to the datasheet for that model, or ask your Fiery vendor about support for a specific feature.

| √ Standard | ⊙ Option | - Not Available | SFM = See product-specific feature matrix |
|------------|----------|-----------------|---|
| | | | |

| Feature name | NX Premium | NX Pro | NX One | E-Series |
|--|------------|--------|--------|----------|
| Job and device management tools | | | | |
| Fiery Command WorkStation | ✓ | ✓ | ✓ | ✓ |
| Fiery Ticker | ✓ | ✓ | ✓ | - |
| Fiery Go | ✓ | ✓ | ✓ | ✓ |
| Fiery WebTools | ✓ | ✓ | ✓ | ✓ |
| Fiery makeready solutions | | | | |
| Fiery Impose | ✓ | • | • | • |
| Fiery Compose | ✓ | • | • | • |
| Fiery JobMaster | • | • | • | SFM |
| Auto tabs and text stamping PDF bookmark level | • | • | • | SFM |
| Job submission and settings | | | | |
| Fiery driver | ✓ | ✓ | ✓ | ✓ |
| Fiery Job Properties | √ | ✓ | ✓ | ✓ |
| Fiery VUE | - | SFM | SFM | SFM |
| USB media server | ✓ | ✓ | ✓ | ✓ |
| Paper Catalog | ✓ | ✓ | ✓ | ✓ |
| Media Catalog | SFM | SFM | SFM | SFM |
| Pad printing | ✓ | ✓ | ✓ | - |
| Document-based banner pages | ✓ | ✓ | ✓ | ✓ |
| Strict ordered printing | ✓ | ✓ | ✓ | ✓ |
| Fiery Remote Scan | SFM | SFM | SFM | SFM |
| Tools for technical support | | | | |
| Fiery setup wizard | ✓ | ✓ | ✓ | ✓ |
| Fiery System Restore | ✓ | ✓ | ✓ | - |



| Fiery Clone Tool | - | - | - | ✓ |
|----------------------------|-----|----------|---|---|
| Fiery Configure | ✓ | ✓ | ✓ | ✓ |
| Fiery NX industrial design | | | | |
| Fiery QuickTouch | ✓ | ✓ | ✓ | - |
| Fiery NX Station GL | SFM | • | - | - |
| Fiery NX Station LS | SFM | ⊙ | - | - |
| Fiery NX One Station | - | - | • | - |

/ Standard

Option

- Not Available

SFM = See product-specific feature matrix

Job and device management tools

Fiery Command WorkStation

Fiery® Command WorkStation®, the print job management interface for Fiery servers, makes printing more productive and powerful. It centralizes job management, connects to all Fiery servers on the network, and improves productivity. The intuitive interface simplifies job management, regardless of the user's level of experience.

Full cross-platform Apple® macOS® and Microsoft® Windows® support provides a consistent look and feel, plus the same



functionality across computing platforms. A fully functional remote connection to a Fiery server provides the same quality results as with a local connection for server administration.

To download the latest version of Command WorkStation, and to learn more about new features, visit the <u>webpage</u>.

Fiery Command WorkStation Package

Fiery Command WorkStation 6.8 is part of the Fiery Command WorkStation Package. The Fiery Software Manager handles the download and installation process for this package.

Fiery Command WorkStation 6.8

Version 6.8 introduces a wealth of new productivity, management, color & imaging, and connection functions that make Fiery Command WorkStation more efficient than ever before.



It centralizes job management by controlling any Fiery Driven™ cutsheet, wide, superwide, or high-speed inkjet printers on the network for improved real-time productivity.

Fiery Command WorkStation 6.8 includes the following licensed makeready software: Fiery Impose, Fiery Compose, and Fiery JobMaster™; as well as prepress software including: Fiery Graphic Arts Pro Package, Fiery ColorRight Package, and Fiery Automation Package.

Fiery Hot Folders

Automates job submission processes for repetitive tasks, saving time and reducing print errors with a simple drag-and-drop operation.

Fiery Software Uninstaller

Easily removes Fiery applications, Fiery Driven printers, and associated print drivers/files on macOS clients.

Fiery Software Manager

In addition to the Command WorkStation Package, the Fiery Software Manager also enables installation of these Fiery applications:

Fiery FreeForm Create

Create personalized jobs using Fiery FreeForm™ VDP technology. Easily add variable elements such as text, images, and barcodes to existing files.

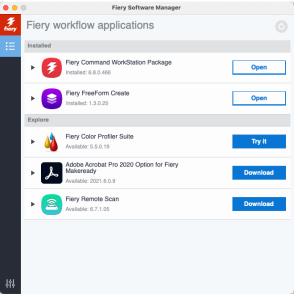
Fiery Remote Scan

This application allows users to retrieve scans from a copier and save them or import them directly into a compatible application. Now a

standalone application, users can choose to download and install it on their client workstations.

Fiery JobFlow - Windows only

Fiery JobFlow enables prepress workflow automation for streamlined job processing and printing. Start with the free Fiery JobFlow Base to manage workflows including PDF conversion, Fiery Preflight, image enhancement, document imposition (requires Fiery Impose); plus flexible options for job submission, archiving, and output. Upgrade to the paid Fiery JobFlow version to add more intelligence with rules-based workflows; advanced preflight and PDF editing powered by Enfocus Pitstop; and cloud-based JobFlow approval process for maximum efficiency.





Fiery Color Profiler Suite

The Fiery Color Profiler Suite software provides integrated color-management functions and quality control for print systems. It extends the color capabilities of Fiery Driven printers with the most advanced tools available for profile creation, inspection, editing, and color quality assurance. Modular functions ensure color accuracy and consistency across design, print production, and office applications for all types of substrates, while increasing productivity and return on investment.

Specifications for Fiery Command WorkStation Package

You can view client specifications for the Fiery Command WorkStation Package here.

Section 508 conformance

The Section 508 regulation was enacted in the United States to eliminate barriers in information technology, and to make new opportunities available for disabled people.

The Voluntary Product Accessibility Template, or VPAT®, is a report that describes Section 508 compliance for Fiery Command WorkStation. Obtain the VPAT document here.

New features in Fiery Command WorkStation 6.8

Learn more about the new features in Fiery Command WorkStation 6.8 here.

Fiery Ticker

Fiery Ticker is a visual screensaver-type application that runs locally on a Fiery external server that is GUI enabled (also known as FACI enabled) using a monitor, keyboard, and mouse.

Fiery Ticker shows processing and printing speeds, pages remaining for the current job, error messages, and tray information. It is installed as part of the Fiery Command WorkStation Package on external Fiery servers. Fiery Ticker will run automatically, providing an at-a-glance view of the activity status of Fiery systems when an operator is not directly using the Fiery server. The user can also initiate the Fiery Ticker view directly from the Command WorkStation.



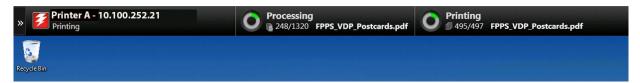
Fiery Ticker progress





Fiery Ticker shows that printing was suspended.

Fiery Ticker integrates with the traditional Fiery blue bar on the top of the screen. There, it also gives users quick access to Fiery applications such as Command WorkStation and Fiery Hot Folders, can change the color theme; or apply job and server management actions such as to cancel processing or printing, or server actions such as restarting the server.



Fiery Ticker bar showing Fiery server status at a glance



Fiery Ticker displays shortcuts to key Fiery applications and quick access to job management and server actions.

Benefits:

- Allows production monitoring from a distance, giving users greater flexibility
- Gives users a quick visual look at what the Fiery server is doing, allowing them to perform other tasks at the same time, and boosting productivity



• Increases user productivity, offering quick access to the most frequently used Fiery applications and information

Fiery Go

Fiery Go allows users to monitor and manage Fiery Driven printers from anywhere with their smart phone or tablet. Using Fiery Go, users can perform multiple job actions such as importing, printing, deleting, previewing, and defining job attributes. The app sends alerts about consumable status, errors in the print job, paper jams, and more – so that users can take immediate action.

Fiery Go provides more flexibility and allows staff to multitask for a more efficient workplace and higher productivity. The app is simple to use, takes just minutes to deploy, and is free.



To download Fiery Go and to get additional information, visit the <u>Apple iTunes store</u> or <u>Google Play store</u>.

For additional information on technical requirements and a video tour, visit the webpage.

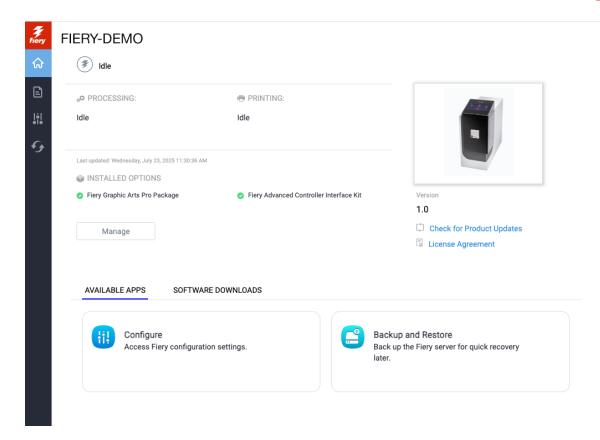
Benefits:

- Allows users to manage the jobs on Fiery servers from anywhere
- Offers the flexibility to multitask for a more efficient workplace

Fiery WebTools

Fiery WebTools™ delivers basic browser-based device monitoring and management for users who don't need the sophistication of Command WorkStation. WebTools is hosted on the Fiery server and can be access with any web browser by entering the Fiery server's IP address. It delivers pertinent information on print and printer status at any web-capable client workstation.





It also allows users to:

- Download install print drivers and applications on the client workstation
- Access documents user-authenticated access to jobs in mailboxes, ability to download print jobs to the Fiery server, and basic job management
- Configure allows the administrator to configure the Fiery server
- Fiery System Restore lets users back up a Fiery server for quick recovery later from images stored on the local hard disk, or from a bootable USB drive

Benefits:

- Gives administrators and users flexible control, from complex production runs to individual print jobs
- Gives access from any client workstation without requiring additional software installation

International support

Language support

Fiery servers come localized for the following languages: English, French, Italian, German, Spanish, Brazilian Portuguese, Dutch, Russian, Polish, Turkish, Czech, Japanese, traditional Chinese, simplified Chinese, and Korean. Check your Fiery server's datasheet or ask your Fiery vendor for a list of the supported languages.



Dynamic Language Change

The Dynamic Language Change feature allows technicians and administrators to change the Microsoft Windows language on the Fiery server, without having to reload Windows. This feature saves time during the installation and setup process. Administrators and technicians can switch the language using the Fiery Configure application, and the new language is displayed after the Fiery server reboots.

In addition, this feature improves the behavior of Fiery Configure and other related applications in a mixed-language environment. Such environments could include using English Fiery software with systems of non-English client workstations. The handling of double-byte file names is also improved by the addition of UTF-8 support. In Command WorkStation, users can specify language preferences after the installation.

Benefits:

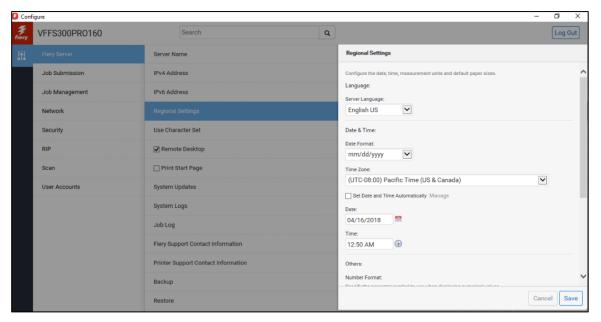
- Improves productivity at installation and in the initial setup
- Improves the application behavior in mixed-language environments and the display of double-byte characters in file names, such as those for the Chinese, Japanese, and Korean languages

Improved international support

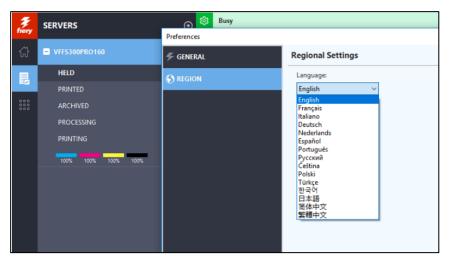
Users can change the language in Command WorkStation and Fiery Hot Folders – independent of the Fiery server. Each user can run Command WorkStation on a client workstation in their preferred language by simply changing it in Preferences.

The Command WorkStation print job interface can also display the appropriate format for date, numbers, units of measurement, default paper sizes, and color profiles for European and Asian regions.



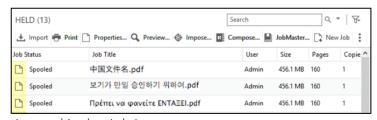


Configuring regional settings



Setting language preferences in Command WorkStation

Fiery servers recognize double-byte file names. Print providers printing files with double-byte characters, such as those used in Chinese, Korean, Japanese, Hebrew, Turkish, and Russian character sets, will find their file names



preserved correctly in Command WorkStation and in the Job Log.



Benefits:

- Displays regional paper sizes and dates for a more user-friendly experience
- Speeds up first-time language setup of server and Command WorkStation client workstation
- Provides flexibility to use Command WorkStation in the user's preferred language, regardless of the Fiery server language
- Improves usability in double-byte font environments

Global Units

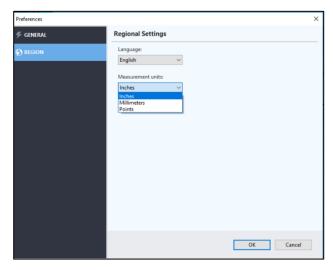
Global Units allows the user to specify preferred units of measure as millimeters, inches, or points.

This setting then influences the default units displayed for all purchased software products in the Job Properties and Command WorkStation 6 user interface. Users can still override the selection inside Job Properties if they wish to specify a value in a different measurement unit. This feature also enforces consistency across unit boxes. For example, each control presents two integers and two decimal places, such as "12.05."

Each connected Command WorkStation client could have different settings.

The areas affected by the Units preference include:

- Job Properties all items that allow a measurement unit to be specified
- Image shift
- Custom page sizes
- Margins
- Trim
- Booklet Maker
- Impose
- JobMaster
- Compose
- Paper Catalog
- Tray alignment



Global Units preference setting in Command WorkStation

Benefit:

• Allows users to set their measurement preference in one place and have it reflected across their whole user experience



Advanced job management

A successful production printing operation depends on a very structured workflow, much like a factory assembly line; each step is dependent on the successful completion of the last. The Fiery system has many tools that manage jobs faster and minimize bottlenecks. A truly integrated solution, it also uses these features to give production print operators tremendous flexibility to alter aspects of the workflow without disruption:

- Force Print
- Suspend on Mismatch
- Rush Print
- Print/Process Next
- Job Groups
- Sample Print
- Print Time Estimation
- Fiery Print Scheduler
- Proof Print
- Modify Default Queues
- Maximum number of jobs in printed queue
- Copy to / Move to

Force Print

If the paper attributes of the job do not match what is in the printer, the user can force the job to print using what's currently loaded in the printer, regardless of the job's status in the Print queue.

This feature is available through Command WorkStation if the connected server has Force Print enabled, and it allows the user to do the following:

- Force the job to print to any tray available at that time, while the job is in the Print queue.
- Print RIPped files without re-RIPping or canceling the job first. If the new tray media is a different size, the resulting output may be cropped. Also, if the new tray uses a different color profile, the job will be printed with the original tray's color profile.
- Use any tray (except bypass trays) with any paper size, media type, weight, or coating supported by the printer.

Benefits:

- Saves time by printing the job immediately when holding a hard-copy version of the job is more important than making sure the job is perfect
- Can eliminate the need to resubmit jobs to the printer when there is no need to re-RIP the file



Suspend on Mismatch

To ensure faster throughput and the highest quality, users can use Suspend on Mismatch to hold jobs when they have missing resources or a color profile mismatch. Until the user corrects the problem or applies Force Print to the job, it remains suspended and other jobs in the server will continue to print.

Benefits:

- Prevents one job from holding up all the other jobs that could be printing
- Avoids outages on the production line, and decreases bottlenecks at the RIPping stage

Rush Print

The Rush Print feature provides advanced job management that allows the user to mark the job as urgent, process and print it immediately, and interrupt the currently printing job. The utility will apply a logical interruption to the job currently printing, either at the end of a set, or after 30 pages – whichever occurs first. Then, as soon as the Rush Print job finishes, the interrupted job will resume printing where it left off.

Benefits:

- Increases the flexibility to re-prioritize and introduce last-minute changes in the processing and print stages
- Eliminates the need to stop and restart production when one job needs to be printed right away
- Prevents waste by allowing a job to be paused during printing, and then resumed and finished later, instead of requiring that the user cancel and discard the previously printed portion of the job

Print/Process Next

Print/Process Next lets users pick the next job to process or print. It gives them the ability to make a job print or process immediately, following the completion of the job currently printing or processing. Depending on the engine behavior, the Fiery server may only be able to advance a job to Print Next ahead of other jobs currently processing.

Benefit:

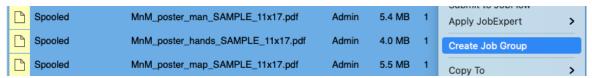
• Gives the user a way to change the printing order of jobs based on last-minute, urgent demands

Job Groups

With Job Groups, users can combine multiple jobs into a group so that they can be treated as a single job by Fiery Command WorkStation. There are two main scenarios where using a Job Group is valuable:



- 1. **Print Group** for strictly ordering the printing of a set of jobs.
- 2. **PDF Group** to combine multiple jobs for use with Fiery Impose, Fiery Compose, or Fiery JobMaster™.



Right-click to create a group from multiple selected jobs

For both types of groups, users can apply Job Properties to the whole group; plus add, remove, or reorder the jobs within a group after creating the group. However, there are differences between the group types:

Print Group

When using this type, jobs will be printed in the order in which they appear in the group. Properties can be applied to individual jobs within a group, or, applied to the group as a whole.

This type of group is useful when multiple jobs need to be printed in a specific order, such as to eliminate the need for any hand collation for the chapters of a manual, when each job is a chapter.

PDF Group

This type combines jobs in the order they appear within the group. Properties can be applied to the group as a whole.

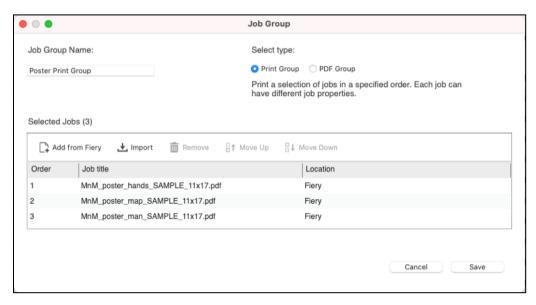
For example, if different business cards need to be imposed on a single sheet using Fiery Impose, or chapters need to be combined for a binder and Fiery JobMaster is needed for mixed finishing – it might be useful to group them this way.

① Note: a license for Fiery Impose, Compose, or JobMaster is required to use PDF Groups for makeready purposes

Summary: PDF Group and Print Group

| | PDF Group | Print Group |
|-------------------------------|---|-------------------------------|
| Primary use case | Multi-job use with Fiery makeready applications | Multi-job organization |
| Supported file types | PDF only | Any supported Fiery file type |
| Print settings | Group level | Group or job level |
| Makeready application support | Group level | Job level |





Job Groups window where jobs can be added, imported, moved in order, or removed from a Fiery server

Benefits:

- Allows the application of Job Properties to a group of jobs at the same time, increasing setup productivity and consistency.
- Provides greater control over the print queue, plus adds effective ways to import and manage jobs.
- Offers flexible editing of jobs within a group after creating the group.
- Speeds up the creation of new groups that are similar in content.

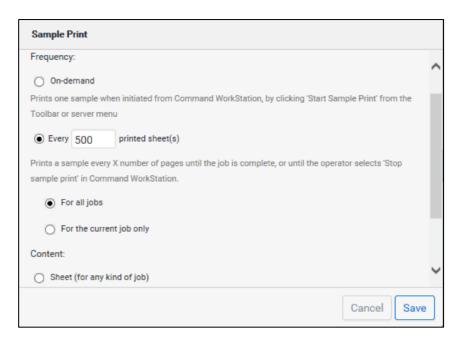
Sample Print

The Sample Print feature allows the user to monitor engine output quality while the engine is in full production and print extra pages to an easily accessible output tray during a long print job. This way, they can verify that the engine is performing as expected. If the output is unsatisfactory, the user can take corrective action. While a job is printing, the user can initiate a sample print from Command WorkStation using the Start Sample Print option under the Server menu.

This feature is most useful for engines with multiple output trays, and when one of the output trays is closed and not easy to access during printing – such as in a stacker unit.

The user can also configure the Fiery server to print sample prints at a predefined interval. This lets the user print sample pages on a regular basis, either as a regular spot check, or as part of a process to create an archive of printed sheets to document the print quality at regular intervals.





Configure Sample Print to meet workflow needs.

The user can print an extra sheet (or output set):

- On demand by selecting the Sample Print button from Command WorkStation
- Every preset number of sheets, the user can instruct the Fiery server to stop printing sample pages once the current job is done, or to continue printing sample pages for all jobs until the user manually stops the Sample Print function

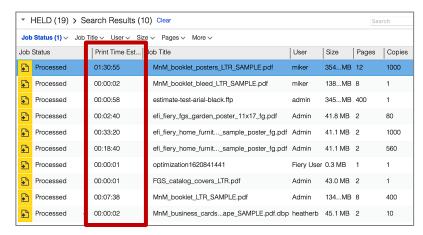
Benefits:

- Performs quality control of the output while the engine is printing, avoiding production halts, ensuring quality of the output, and increasing overall productivity
- Makes it easy for users to take corrective actions before the job finishes printing, minimizing waste and reducing clicks



Print Time Estimation

To assist with job scheduling and print shop planning, Fiery FS600 Pro servers provide a print time estimate. Print Time Estimation is available to add as a column in the Job List. Print time estimates are available for RIPped files based on previously printed jobs. Overall, the average accuracy of print time estimates is over 90%, based on a typical shift.

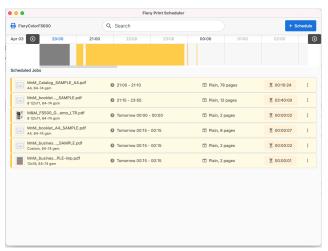


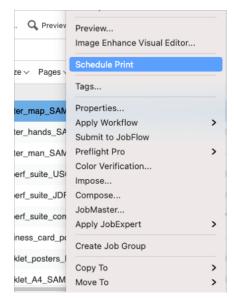
Benefit:

Enables better planning and scheduling of print jobs

Fiery Print Scheduler

Fiery Print Scheduler allows users to easily schedule job printing through a visual interface. Operators can schedule and slot jobs into a 24-hour window to best align with daily production demands, equipment availability, and customer delivery deadlines. Fiery Print Scheduler helps operators have clear visibility into the printer's use during the day, ensuring it operates at maximum capacity.





Right-click on a job to schedule

Fiery Print Scheduler window

Multiple users can access the tool from the Toolbar, or with a right-click on the job. Fiery Print Scheduler leverages the Print Time Estimation feature to let users plot a job in the most



appropriate print window or slot a job into the schedule easily at the next available time. Users can add single or multiple jobs to the schedule with just a few clicks.



Fiery Print Scheduler accessed from the Command WorkStation Toolbar

The tool is also dynamic. For example, if the number of copies required for an already scheduled job changes, the schedule will automatically adjust to accurately reflect the new start and finish times.

To learn more about Fiery Print Scheduler, watch the video.

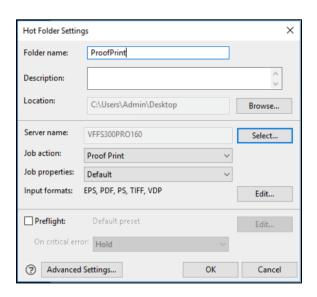
Benefits:

- Ensures the timely production of customer jobs.
- Helps maximize the production capacity of printers.
- Facilitates more accurate communication with customers on job delivery times.
- Simplifies job re-scheduling when things change.
- Provides print workload transparency to all operators.

Proof Print

Proof Print allows users to produce a copy of any job in the Hold or Print queues with a single mouse click. This eliminates the need to open the job in Job Properties, modify the job ticket, or change the copy count to print a copy for proofing.

Targeted to Command WorkStation users, the Proof Print feature is particularly powerful in the Fiery Hot Folders workflow because Proof Print can be selected as a Job Action when setting up Hot Folders. After the system produces the Proof Print, the job moves into the Hold queue until it is released to print the full copy count.



Request Proof Print from Fiery Hot Folders

Copy to / Move to

Users can move jobs from one server to another using the Move To function. Jobs can be copied to another Fiery server with the Copy To function.



During the copy or move, a status bar at the bottom left in Job Center shows the progress of the task. With both functions, jobs arrive at the destination server with a Spooled status.



Moving a job or jobs to another Fiery server

Benefit:

• Delivers a more efficient way to manage jobs across multiple Fiery servers

Fiery Finishing Designer

The Fiery Finishing Designer is a free, visual programming interface that simplifies creating and editing finishing definitions for inline finishers. Use the interactive WYSIWYG interface accessible from Fiery Command WorkStation, to define the location for cut, crease, and perforation marks for a job before sending it to print on a Fiery DrivenTM press.

It provides a live preview of the job content while programming the finishing marks. Operators can use this soft proof



Fiery Finishing Designer showing the finishing lines on the iob content

to verify that the job will be correctly finished without wasting time and media experimenting with the finishing mark locations. The finisher's parameters and cutting mode limitations are incorporated into the interface to ensure compatible finishing definitions.

Create a Fiery server preset with the finisher lines and media settings to save time running similar jobs in the future. Further automate the process through Fiery Hot Folders, Virtual Printers, Job Properties, Server Presets, Fiery JobFlow Base, or Fiery JobFlow.

Benefits

- Visually add finishing definitions on the live preview of the print product
- Soft proof an imposed job with finishing lines to prevent waste
- Produce ready-to-ship finished products



Fiery Workflow Suite: Prepress solutions

Fiery Workflow Suite includes all the prepress tools necessary to prepare a job for printing in a production environment. Fiery servers offer makeready components with Fiery Impose, Fiery JobMaster, and Fiery Compose. Those software applications are covered in the Fiery makeready section in this product guide. Fiery servers offer advanced prepress tools to address color control, troubleshooting, and automation of labor-intensive prepress processes. Those advanced tools are included in the Fiery Graphic Arts Pro Package, Fiery ColorRight Package, Fiery Automation Package, and Fiery JobFlow.

Fiery prepress tools offer printer providers a flexible solution that can be available to either the local press operators or the remote prepress specialist without the need to invest in a dedicated desktop client. The unified working space for all prepress tasks simplifies labor-intensive, job-preparation activities and shortens job setup times of even the most complex jobs.

Fiery Graphic Arts Pro Package

Be confident that output will print right, every time. Fiery Graphic Arts Pro Package, available for external Fiery servers, provides the ultimate toolset that helps reduce wasted prints and minimizes job rework.



Features in Fiery Graphic Arts Pro Package include:

- **Fiery Preflight Pro** get the ultimate set of PDF quality control checks to ensure files will print as expected. These PDF quality control checks provide more precise methods for troubleshooting the source of print problems that can result in wasted prints and clicks, which impact bottom line profits.
- **Fiery Spot Pro** Provides powerful spot color management tools to ensure consistent, accurate brand color reproduction.
- **Fiery ImageViewer** Allows the user to visually inspect the raster output before printing, and to apply color adjustments for the overall job if needed. Because Fiery ImageViewer supports soft proofing, users can achieve color-accurate visual corrections on a properly calibrated and profiled display.
- **Fiery Postflight** Lets users troubleshoot problem jobs by identifying types of content, reporting missing spot colors, and printing test pages to confirm whether an imaging problem is in the file or with the printer hardware.
- **Fiery Control Bar** Adds dynamic job information and user-selected color bars to each printed page, including the Ugra/Fogra Media Wedge or Idealliance color bars

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



Fiery ColorRight Package

The Fiery ColorRight Package provides more convenient access to color and image-quality functions for Fiery embedded servers.





- **Fiery Spot Pro** Provides powerful spot color management tools to ensure consistent, accurate brand color reproduction.
- **Fiery ImageViewer** Allows the user to visually inspect the raster output before printing, and to apply color adjustments for the overall job if needed. Because Fiery ImageViewer supports soft proofing, users can achieve color-accurate visual corrections on a properly calibrated and profiled display.
- **Fiery Image Enhance Visual Editor:** Interactive toolset for optimizing image appearance. Adjusts brightness, contrast, highlights, shadows, color balance, and sharpness; and makes red-eye corrections on any image.
- **Fiery Postflight** Lets users troubleshoot problem jobs by identifying types of content, reporting missing spot colors, and printing test pages to confirm whether an imaging problem is in the file or with the printer hardware.
- **Fiery Control Bar** Adds dynamic job information and user-selected color bars to each printed page, including the Ugra/Fogra Media Wedge or Idealliance color bars

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

Fiery Automation Package

The Fiery Automation Package is a Fiery software product for embedded Fiery servers. It provides more convenient access to automation and advanced job management functions.



The package includes the following features:

- **Fiery Hot Folders:** Automates the job submission process, reducing errors, and speeding repetitive tasks with a simple drag-and-drop operation. Input formats are: PS, PDF, EPS, DOC, DOCX, XLS, XLSX, PPT, PPTX, PPS, PPSX, and PUB. Hot Folder filters: EPS, JPEG, TIFF, 1-bit TIFF (engine specific)
- **Virtual Printers:** Streamlines job setup times and eliminates print errors on repetitive print jobs by using predefined job settings in the print driver.
- **Rush Print:** Marks a print job as urgent so it can be processed and printed immediately, even interrupting a job that is printing.
- **Print/Process Next:** Queues a job to print immediately after the currently running print job completes.
- **Schedule Printing:** Balances workload, prioritizes print production, and eliminates bottlenecks



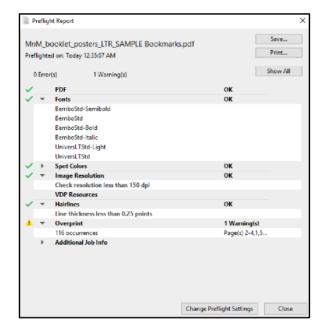
- **Fiery Preflight:** Checks jobs for problems before they are printed. This feature can be automated through a Fiery Hot Folder workflow or with Fiery JobFlow. Preflight catches problems before they result in bad prints that must be reprinted to satisfy the print buyer.
- **Fiery JobFlow Base:** Automates job preparation steps in prepress workflows to produce ready-to-print files.
- **Fiery JDF:** Provides built-in JDF-based integration support to automate processes from job submission to output by integrating print workflows and business management systems so that job information can flow through the systems with fewer touchpoints and errors.

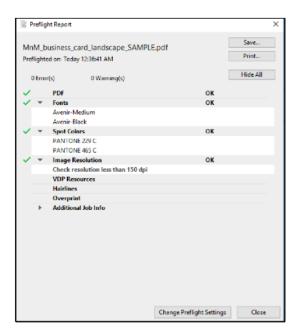
The Fiery Automation Package is available as a subscription-based license that can range from 1 to 5 years, starting on the date of activation.

Fiery Preflight

Eliminating errors before they happen and making sure all settings and systems perform correctly is an integral part of managing a successful production printing operation. Interrupting a job to make corrections wastes valuable time and resources, and it takes much more time to correct a problem once production has started. For these reasons, prepress specialists and operators prefer to "preflight," a job before submitting it straight to production.

In print production, preflighting involves checking a file for its "print worthiness." Several tests are performed, and settings are verified on the file to determine whether it will print successfully.





Examples of Preflight report results

Fiery Preflight is a powerful preflight tool designed to check the most common areas of error to ensure that files will print successfully on a Fiery Driven printing device.



Preflight is a fast process that does not affect the performance of the Fiery server because it is performed outside of the actual job printing. The Preflight report is displayed in a matter of seconds. In reviewing the report, the user knows at a glance whether there are errors or missing elements in the job and can easily verify the status of every checked area. Users can access Preflight from Command WorkStation.

Preflight is a standard feature on all FS600 Pro external servers, including black & white servers. It's an optional feature for embedded servers.

Preflight reports on a number of elements, including:

- Fonts
- Spot colors
- Low-resolution files
- VDP resources
- Hairlines below threshold
- Overprint
- PostScript errors (PostScript error has been removed from the UI settings but is always enabled as a critical warning. If an error occurs, it will be available in the Preflight Report)

In addition to checking for common areas of error, Preflight will also check for and record a few additional attributes from the file:

- PDF file type
- Document security settings
- Page size and page box information
- Color space information from graphics
- Transparencies
- Flatness values from graphics
- PDL Embedded SetPageDevice commands information
- Image compressions information

Elements reported by Preflight

| Preflight component | What it checks | Default error level |
|---|--|---------------------|
| Fonts | Reports if font not found on server | Critical |
| | Reports if Courier font is present. | Information |
| | The presence of Courier font usually means that a font not found has been automatically replaced by a system default font. | |
| Spot colors | Reports if spot colors are not found in Spot-On libraries | Critical |
| Low-res images Reports if image resolution is less than a specified DPI | | Warning |



| VDP resources | Reports if VDP resources are not found | Critical |
|--|---|----------|
| | Preflights individual VDP | Off |
| | resources (using same checks applied to entire job) | Oil |
| Hairlines | Reports if line width is less than a specified point value | Warning |
| Overprint | Reports when overprint is detected | Warning |
| PostScript errors | Reports if job results in a PostScript error (Preflight immediately aborts in this situation.) | Critical |
| Halt Preflight when first error found | Any error found (This is a checkbox option; it is either ON or OFF.) | Off |

Supported file formats for Fiery Preflight include:

- PS
- PDF
- EPS
- PPML
- PDF/VT (For servers only, not embedded products)
- VPS

Note: If an external server is licensed for Fiery Graphic Arts Pro Package, PDF and PDF/VT files will be preflighted using Fiery Preflight Pro.

Benefits:

- Eliminates the need for users to purchase third-party applications to perform preflight testing. Preflights VDP jobs to ensure proper availability of VDP resources
- Increases productivity in job-submission and print processes by eliminating printing errors at the printing stage, reducing waste due to missing resources.
- Improves communications with designers by using the preflight report to improve the quality of the jobs submitted to the Fiery server, reducing turnaround time.

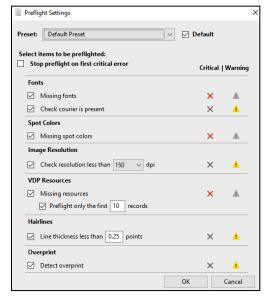
Fiery Preflight for Hot Folders, Virtual Printers and Fiery JobFlow

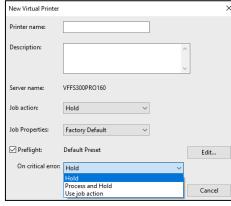
Fiery users can apply Preflight to any jobs that use Hot Folders and Virtual Printers to automatically check files before processing. Automatically preflighting jobs saves time, resources and money, and it increases productivity by rerouting incorrect files before printing.

Users can configure Fiery Preflight when setting up Hot Folders and Virtual Printers by checking the Preflight box and specifying a Preflight preset. The administrator can define what constitutes a



warning or error and what to do with jobs that have these errors. For example, jobs can be moved to the Hold queue – preventing them from printing and wasting materials.





Enable Auto Preflight when setting up Hot Folders and Virtual Printers.

Customize the warning error tolerances in Preflight settings.

Benefits:

- Automatically preflighting jobs saves time and increases productivity
- Rerouting incorrect files before printing saves resources and money

Fiery Preflight Pro

With the Fiery Preflight Pro application, users get the ultimate set of PDF quality control checks to ensure files will print as expected. Fiery Preflight Pro replaces Fiery Preflight as part of the Fiery Graphic Arts Pro Package for Fiery FS600 Pro servers.





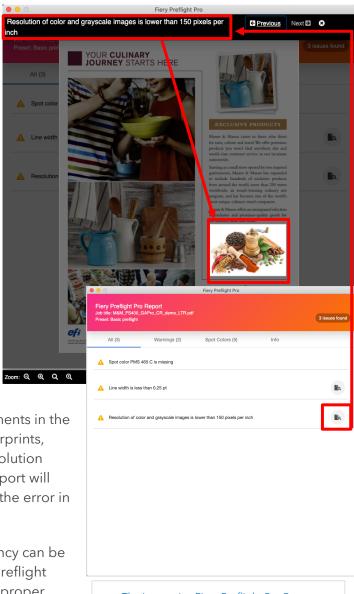
These PDF quality control checks provide more precise methods for troubleshooting the source

of print problems that can result in wasted prints and clicks, which impact bottom line profits.

In addition to running basic preflight checks (such as overprints, missing spot colors, low-resolution images, or hairlines), Fiery Preflight Pro can verify file compliance against industry standards such as ISO (PDF/X, PDF/A, PDF/VT, PDF 2.0, and PDF/E), as well as against specifications from industry associations such as Ghent Workgroup (GWG) and PDF/X-Ready. Compliance with these industry standards ensures that all data in a print-ready PDF is present and valid, and that the file will print correctly.

Any errors and warnings are captured in the Fiery Preflight Pro Report, an application that provides an overview of problematic elements in a PDF. For elements in the PDF that are object-based – such as overprints, missing spot colors, hairlines, or low-resolution images – the interactive Preflight Pro Report will allow users to view the exact location of the error in the PDF.

For example, a file containing transparency can be checked against the PDF/X-4 profile in Preflight Pro. This industry standard specifies the proper structure of transparencies within the CMYK, RGB, or L*a*b color spaces. The Preflight Pro Report will highlight any problem transparencies, which can then be fixed in the design file.



The interactive Fiery Preflight Pro Report provides a visual overview of compliance errors in a PDF file. Users can see exactly where object-based errors or warnings, such as the example above, occur in the file.



Comparison: Fiery Preflight Pro vs Fiery Preflight

| Feature/check | Fiery Preflight Pro | Fiery Preflight |
|---|---|--|
| Compatible file types | PDF, PDF/VT | PDF, PDF/VT, Postscript, PPML, VIPP, VPS |
| Conformance to industry standards, like PDF/X, PDF 2.0, or GWG | Yes | No |
| Visual illustration of object-based errors | Yes | No |
| Low-resolution images | Yes | Yes |
| Overprint | Yes | Yes |
| Missing spot colors | Yes | Yes |
| Missing fonts | Yes | Yes |
| Availability | External color servers: requires Fiery Graphic Arts Pro Package Embedded servers: not available | External color servers: standard Embedded servers: requires Fiery Automation Package |

Benefits:

- Reduces wasted materials and clicks by ensuring files will print successfully before production begins
- Ensures conformance to industry standards
- With Fiery JobExpert, delivers a complete solution for ensuring files are print-ready and with automatic selection of optimal print settings

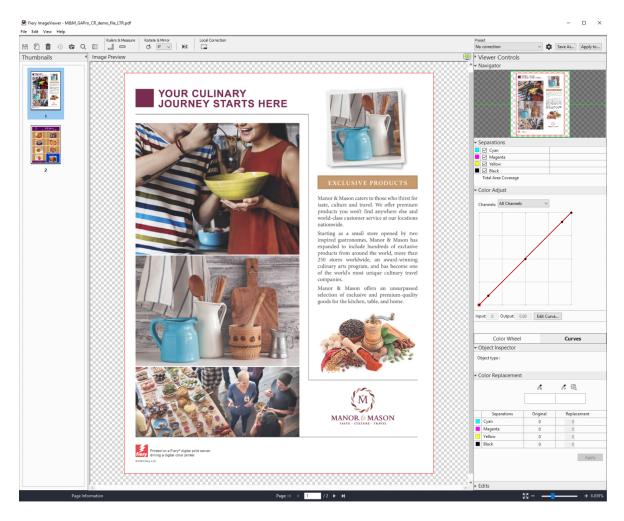
Fiery ImageViewer

When considering the overall cost associated with producing printed materials, many print providers focus on the final "cost per page" for ink or toner on paper, according to the CAP Ventures study – The Cost of Business Communication: A Look at the Business Document Lifecycle. Actually, the real cost of producing printed materials includes the time and resources allocated to print production. These expenses include authoring, design, proofing, revision control, ordering, warehousing, distribution, and obsolescence.

The CAPV study finds that internal preparation and review of print jobs accounts for at least 15% of the real costs of production. Obsolescence or waste adds another 14% to the overall cost. It's now easy to understand why accurate proofing and review of documents remains critical to reducing costs and increasing profits for print providers.

Fiery ImageViewer features the most powerful collection of preparation and review tools ever integrated into a color DFE.





It provides:

- Local and remote soft proofing
- Online and offline soft proofing
- Intuitive color-editing capabilities for viewing and correction of a job after RIPping but before it is sent to the print engine.
- Resources to view the effects of trapping, troubleshoot imaging artifacts, and make latestage color adjustments

Key functions and features include:

- Adjusts color on a per-page basis or in a selected area of the page
- Applies color modifications (curves or color replacements) to that particular job and prints it without the need to re-RIP the job
- View individual separation of a job
- Generates soft proof PDF and exports a low-resolution raster file in PDF format for offline proofing
- Provides powerful and instantaneous zoom all the way to the pixel level



• Previews jobs without wasted clicks

Benefits:

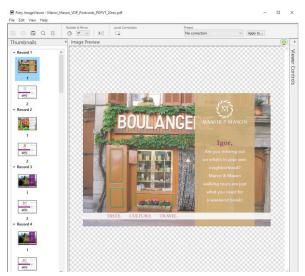
- Saves time and money by allowing visual review of all elements in a file before sending it to the output device
- Offers late-stage color editing before printing
- Reduces waste, increases productivity, and adds flexibility to the workflow
- Avoids unnecessary proof prints
- Permits rework without re-RIPping the job, saving valuable production time

Page-level controls in ImageViewer

In ImageViewer, users have a single interface for both adjusting color and performing simple page-level edits in RIPped files. This greatly improves efficiency and usability.

ImageViewer page-level functions include:

- Reorder pages in thumbnail view
- Display thumbnails as sheet surfaces
- Delete pages
- Duplicate pages
- Select all pages
- Move pages between documents (cut/copy/paste, drag and drop)

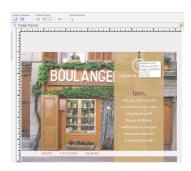


Users can preview VDP jobs as record sets, though reorder/delete/duplicate page functions are not available.

Measure tool and ruler

ImageViewer provides an option to show a ruler on the X and Y axis of the Image Preview pane. Users can configure the ruler to show different units.

The measure tool allows users to measure the distance between two specific points on the page.

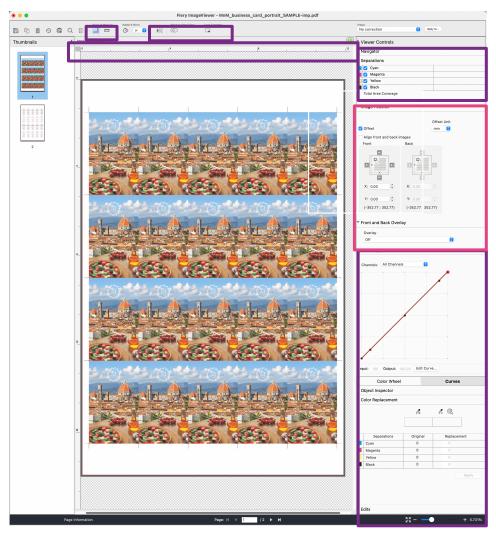




Visual image shift

Visual image shift in Fiery ImageViewer provides a visual way to perform shifts of image content on the front and back sides of a sheet. Users can see the shifted RIPped content in real time as they make precise adjustments. They can choose to align the front and back images together or adjust each page independently. If the "Non-imageable area" option is on, a gray border appears in the non-imageable area of the page. This helps ensure that any shifted content remains in the printable area of the page.

The Ruler and Measure tools, along with a much more powerful magnification function, provide a more precise preview of shifted content. Users also get the all-in-one convenience of other color editing functions in Fiery ImageViewer, such as adjusting color curves or making color replacements.



Visual Image Shift in Fiery ImageViewer highlighted in red. Additional ImageViewer functionality not available in Fiery Preview is highlighted in purple.

To learn more about visual image shift, watch the video.

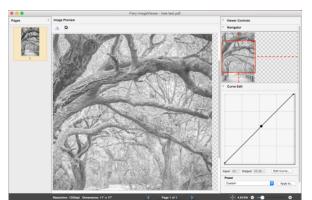


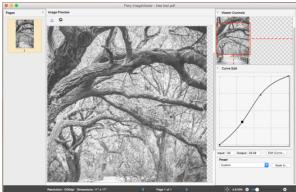
Fiery ImageViewer for Black and White

This is an optional plug-in to the Fiery Command WorkStation application for Fiery servers driving black-and-white engines. It allows users to preview full-resolution print data so they can see exactly how a black-and-white job will look before they print it – saving time, plus reducing waste and mistakes.

It also provides controls to adjust the black tone curve, and lets users copy the same tone curve to other jobs or similarly equipped print engines. This way, print providers can split long runs between multiple engines with consistent output.

Also, print providers can match the output to a customer's satisfaction, and they can store and edit, or reloaded black tone curves over time to guarantee consistent delivery of print results and accommodate changing print requirements.





Before After

Benefits:

- Full-resolution previews allow users to review the content and check for missing fonts or images, PostScript errors, and layout issues without the need to print the job saving clicks and minimizing waste.
- Black tone curve adjustments can be saved and applied to other jobs or other Fiery Driven black-and-white engines to ensure output consistency at all times.

Fiery Postflight

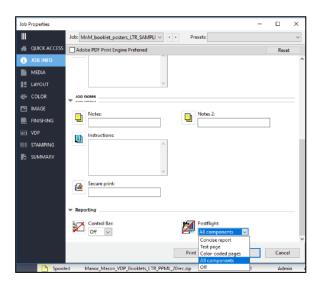
Fiery Postflight is the process of analyzing processed files for quality control in a digital prepress workflow. The Fiery Postflight report lets users produce a color-coded version of the job to indicate the source color space of each element for color print troubleshooting. The color coding is explained in an appended report that describes which color spaces are used in the job and what job options affect those spaces. The report also provides information about the print



environment, such as calibration date and time, as well as calibration method. Users may also print a color test page to verify the condition of the print engine.

Users can easily choose to produce Postflight reports from Job Properties in the Fiery driver or Command WorkStation.





Select Postflight from the Job Info tab in Job Properties and Fiery driver

Benefits:

- Decreases the amount of time a user has to spend troubleshooting jobs, increasing efficiency, reducing turnaround time, and maximizing profitability
- Reduces the learning curve by teaching users the effects of job-setting parameters, making it useful as a training tool



APPE Postflight report

APPE Postflight reports the source color spaces in a PDF that are sent to APPE for processing. APPE postflight also improves the reporting of missing spot colors by color-coding spot colors found in Fiery Spot-On or Fiery Spot Pro differently than the missing spots.

Fiery Spot Pro

Companies know that protecting their brand colors 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 colors are reproduced correctly, every time. Integrated tools allow users to easily manage and edit spot color libraries, ensure conformity to color standards, and seamlessly collaborate with designers.



Learn more about Spot Pro in the spot color management section of this product guide

Control bar

A color control bar is commonly used on conventional press work and contract proofs. Without a color bar, it is difficult to determine the color precision of the print.



Control bar displayed at side of page

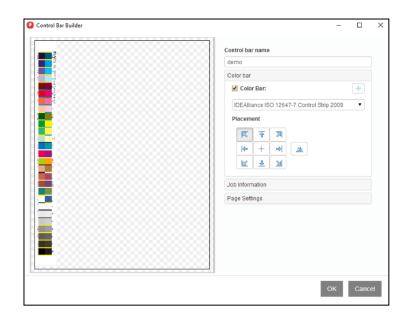
The control bar also adds dynamic job information. Users select color bars for each printed page, and can customize the printed information by entering settings/preferences into the fields provided in the user interface. They can also save these settings for future use.



Fiery Control Bar Builder

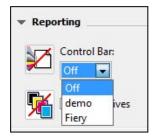
Fiery Control Bar Builder has a visual interface to design custom control bars. This allows for different color bars or job information, depending on the print application. Each custom control bar can be used across all media sizes, reducing setup time and simplifying the ability to use custom control bars.

Users can upload a custom color control bar, or use an industry-standard color bar such as the Ugra Fogra or Idealliance control wedge included with Control Bar Builder.



Control Bar Builder user interface

They can customize font, text size, color, and the order of information in the job ticket portion. And place the control bar vertically or horizontally on the sheet, and in different locations. The Fiery driver and Job Properties provide a selection of default and custom control bars created with the Control Bar Builder.



Benefits:

- Flexibility of control bar placement and content that works across media sizes
- Users can design custom control bars for color consistency and quality control of specific jobs



Fiery Workflow Suite: Makeready solutions

Producing manuals, calendars, personalized cards, business cards, newsletters, tickets and coupons, forms, and catalogs can help printers build their business and offer value-added services. These higher-profit jobs help printers differentiate services from competitors, and go beyond what customers can do on their own.

In order to ensure a profitable and efficient operation, printers need a solution that's easy to use, adapts to their environment, and protects their profit margin by reducing errors and waste.

To help do that, Fiery Workflow Suite simplifies document preparation with is integrated Fiery makeready solutions. It



brings together powerful tools for document imposition and composition into a single user-friendly interface. These tools are conveniently accessible within the familiar Fiery Command WorkStation interface that prepress users already use. These plug-in makeready applications include Fiery Impose, Fiery JobMaster, and Fiery Compose.

Fiery makeready tools offer printers a flexible solution that can be available to either the local press operators, or the remote prepress specialists – without the need to invest in a dedicated desktop client. The unified workspace for all document-layout tasks simplifies labor-intensive document preparation activities and shortens job setup times for even the most complex jobs.

Fiery makeready solutions feature comparison

| Fiery makeready feature | Fiery Impose | Fiery Compose | Fiery JobMaster |
|---|--------------|---------------|-----------------|
| Fiery Command WorkStation plug-in (Mac/Windows) | ✓ | ✓ | ✓ |
| Centralized job preview | ✓ | ✓ | ✓ |
| Adobe Acrobat integration | ✓ | ✓ | ✓ |
| Paper Catalog integration | ✓ | ✓ | ✓ |
| Export as PDF for content proof and printing | ✓ | ✓ | ✓ |
| PDF-based in-RIP makeready with reversible edit functions | ✓ | ✓ | ✓ |
| Gangup and booklet imposition | ✓ | | |
| Best fit gangup repeat | ✓ | | |
| Variable data printing support | ✓ | | |



| Imposition automation with Hot Folders, Virtual Printers, Presets and Fiery JobFlow | ✓ | | |
|---|---|---|---|
| Offline slitter/cutter/creaser integration | ✓ | | |
| Inline finishing definition | | ✓ | ✓ |
| Mixed finishing sets programming | | ✓ | ✓ |
| Chapter creation | | ✓ | ✓ |
| Tab insertion | | ✓ | ✓ |
| Convert to grayscale | | ✓ | ✓ |
| Quick page selection | | | ✓ |
| Scan image import and cleanup | | | ✓ |
| Image stamping | | | ✓ |
| Advanced page numbering (includes custom header, footer, and date stamping) | | | ✓ |
| Page editing (masking, rotation, size) | | | ✓ |
| Job duplication | | | ✓ |
| NCR form creation | | | ✓ |
| Bleed-edge tab creation | | | ✓ |
| Auto tabs | | | ✓ |
| Tab sets creation with images | | | ✓ |
| Tab conversion and insertion in one job | | | ✓ |
| Fiery Command WorkStation plug-in (Mac/Windows) | ✓ | ✓ | ✓ |
| Centralized job preview | ✓ | ✓ | ✓ |

Fiery Impose

Imposition errors in complex jobs are costly and drain time from tight production schedules. Fiery Impose streamlines and automates the imposition process, making production more efficient. The Impose software launches in Command WorkStation, so it can run on the user's computer desktop or locally at the Fiery server.

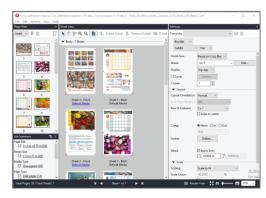




Fiery Impose offers multiple workflows to optimize and automate the layout of multi-up jobs, considering the properties of the source file, media size, and other considerations. Fiery Impose is an intuitive and fully visual solution, designed for production environments. It provides a flexible layout imposition solution that can be available to either the local press specialists or the remote prepress operator, without the need to invest in a dedicated desktop client. The robust toolset delivers a fast, automated approach to tedious, time-consuming tasks that leave users open to errors. It extends the driver-based imposition capabilities offered by Booklet Maker, and includes content-editing capabilities without modifying native files or adding/deleting pages.

With Impose, variable data jobs with multiple records of varying length can be imposed in specific sequences to produce a variety of products such as booklets, books, coupons, and business cards.

Productivity features streamline workflow and leverage automation. Users can create unlimited user-definable imposition templates and can apply them from Job Properties, Fiery Hot Folders, Virtual Printers, and Fiery JobFlow.



Fiery Impose fully visual and interactive interface

Fiery Impose has a quick and easy way to view thumbnails, or full-screen previews of actual page content in the imposition panel. It also offers page and sheet views of the imposed job. In addition, users can manage the production of imposed jobs with mixed-media requirements.

Features of Fiery Impose:

Impose works within the Fiery Command WorkStation interface, and lets users perform a wide array of imposition tasks at the Fiery server or remotely on Windows or Macintosh client workstations.

- **Unlimited imposition templates:** Creates and saves custom templates for reuse, eliminating redundant tasks and reducing errors
- **User Defined Finish Size:** Honors the designer's intent by automatically detecting the trim and bleed boxes defined in the source document
- **Document assembly and edit:** Displays thumbnails and full-screen previews, adds and deletes pages, offers last-minute text and image editing
- **VDP workflows:** Includes raster preview, sample proof printing, and a control strip for quick identification of spoiled sheets
- **Unique cut and stack:** Allows users to start cutting, sorting, and packing before jobs finish printing
- PDF archive: Archives imposed jobs as PDF files for easier reprinting
- Gangup styles: Has traditional unique and repeat, and other gangup styles available for VDP and non-VDP jobs



- **Gangup automation by media size:** Calculates the best layout (n-up and orientation) on the fly using the Based on Trim Box finish size, considering a given media size.
- **Nonprintable area indicator:** Detects overlap of image and nonprintable area to adjust layout before RIPping
- **Define scaling factor:** Provides increased control over scaling options
- **Delivery options:** Changes the output sequence to optimize the finishing process
- **Cover setup:** Dynamically adjusts pagination by inserting the required blank pages for front and back cover inside pages
- **Mixed Media:** Specifies media assignment from interface with visual reference to final content, reducing errors
- **Mixed Media for VDP booklet covers**: Allows users to set media for the covers of VDP booklets that is different than the body pages
- Paper Catalog definition: Defines custom media and adds them to the Paper Catalog to make media specification faster and easier
- **Booklet Maker support:** Supports driver-based imposition through Booklet Maker, allowing jobs to move between Impose and Booklet Maker
- **Measurement tool:** Determines the distance between two reference points on a sheet
- **Creep adjustment:** Adjusts for creep to deliver straight, aligned text throughout a multipage document
- **Customizable trim and fold marks:** Defines the color, length, width, and type of trim and fold marks independently; and creates presets for faster setup in future jobs
- Add, delete, and duplicate sheets: Inserts custom text for blank pages and adds, deletes, or duplicates imposed images without going back to the source document
- **Multi-up support:** Offers imposition styles of up to 25 rows and 25 columns to optimize paper use for small items. Saves on click charges with page double-up feature
- **Auto page rotation:** Automatically detects and rotates pages in a job to ensure that all pages have the same orientation
- Late-stage editing: Allows users to apply last-minute edits with Adobe® Acrobat® Pro
- **Slitter/cutter/creasers finisher integration:** Reduce prepress and manual setup time by integrating Fiery Driven print engines with offline finishing equipment.

For additional information on Fiery Impose, visit the webpage.

Benefits:

Provides a flexible makeready solution that can be available to either local press operators or remote prepress specialists, without the need to invest in a dedicated desktop client

- Reduces print errors and saves significant time with job previews of printed output
- Minimizes the complexity of imposing VDP documents
- Includes booklet imposition and mixed-media settings preview for a more accurate soft proof, ensuring imposed jobs are printed correctly the first time
- Handles last-minute text and image editing with powerful PDF editing capabilities
- Simplifies page merging with drag-and-drop ease, and improves accuracy with specified placement in long documents



User Defined Finish Size

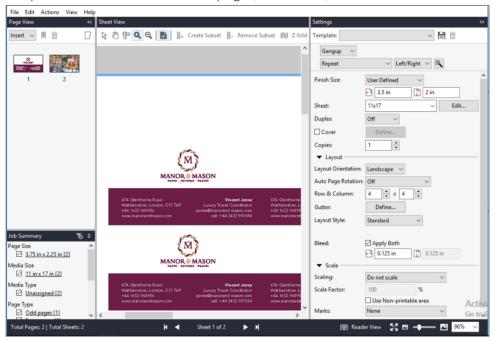
Designers typically design documents to be printed based on their final finished, or trimmed, size. This finish size is often smaller than the sheet size on which they are printed. The PDF definition of the final finish size is the "trim box." In addition, designers may define content to bleed beyond the final finished size. This bleed-box value gives the user and finishing equipment some latitude in finishing the document to prevent unexpected white space between the specified finish size and actual trimmed size. The imposition of the job, including placement of trim marks, is based on the finish size of the job.

Previously, users had to set up files for imposition by using Fiery Impose bleed values to set the finish size. Additionally, users or designers sometimes needed to modify original files and define a custom page size to define a bleed, which affected the positioning of content on the page.

With Command WorkStation, Fiery Impose takes advantage of the designer-defined trim box and bleed-box information incorporated in the file. The user can select User Defined as the Finish Size setting. This maps the trim-box value in the file to the Impose Finish Size setting. The system also reads and applies the bleed value defined in the document.

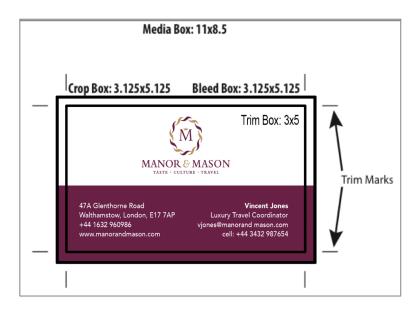
Support for designer-defined trim and bleed definitions means the print operator does not have to spend time determining the finish size and bleed size in Impose, or make modifications to the original file to impose and print the file. With the User Defined Finish Size feature, Impose automatically imposes the job based on the designers' finish size definition.

In addition, Impose can accurately impose and print jobs composed of several PDF files with unique trim and bleed sizes, and page (media box) sizes.



User Defined Finish Size controls





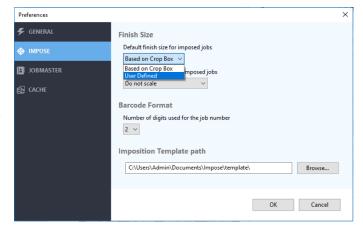
PDF definitions for bleed and trim marks

Benefits:

- Improves usability, as the designer defines the desired trim and bleed sizes in the document, and allows imposition to be done with files containing different trim and bleed sizes
- Eliminates the need to modify original documents for faster imposition job setup and a tighter focus on production
- Saves time and money by reducing miscommunication and print errors

User Defined Finish Size preference

With the User Defined Finish Size preference in Fiery Impose, operators who always want to impose jobs based on the user-defined finish size (trim box), rather than on the default crop box, have a way to specify either crop box or user-defined finish size for all jobs when they are opened in Impose. The preference allows operators to choose the default imposition method.



Choose the defaults for Fiery Impose.



Benefits:

- Provides additional flexibility
- Allows the user to select a setting in Preferences and maintain that setting, never having to change it in Impose again

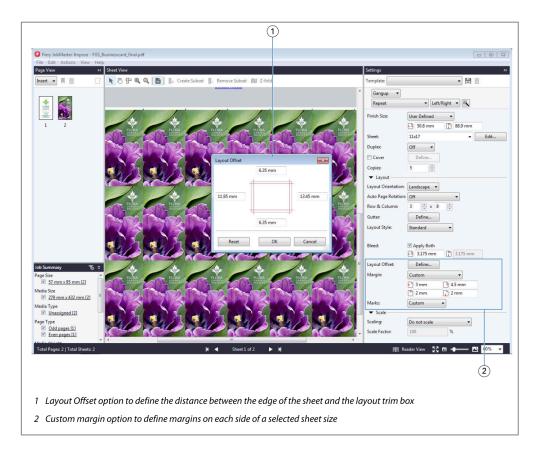
Layout Offset

Layout Offset moves the entire layout on the sheet surface to accommodate additional space required by finishers for gripping or trimming a sheet. Using the Layout Offset option, users can define the distance between the edge of the sheet and the layout trim box, in all four sides, so that the layout is off-centered. Save the Layout Offset settings in Fiery Impose templates, so that you can use these settings for future jobs with workflow automation.

Custom Sheet Margins

This feature allows users to define margins on each side of a selected sheet size. Layout margin is the distance between the sheet edge and the layout edge. By default, the sheet margin is the non-printable area.

Users can adjust these margins to maximize the layout area and meet the margin requirements of an offline finisher.





Imposition workflow automation support

This section clarifies licensing requirements by Fiery system software and automation workflow type.

A Fiery Impose license is always required wherever users create an imposition template. Licensing requirements differ when using imposition templates, depending on the type of finish size chosen for the template.

Requirements for User Defined and Based on Trim Box finish size

- Fiery Hot Folders and Fiery JobFlow require a Fiery Impose license on the client workstation
- Virtual Printers, Server Presets, and Job Properties require a Fiery Impose license on the Fiery server

| Fiery system version | To use Impose templates for User Defined and Based on Trim Box finish sizes | | | | |
|---|--|---------|--|-------------------|---------------------|
| | Requires Impose license installed <u>on the client</u> <u>computer</u> | | Requires Impose license installed <u>on the Fiery server</u> | | |
| | Hot Folders | JobFlow | Job Properties | Server Presets | Virtual Printers |
| Fiery External servers running FS200 Pro and above | ✓ | ✓ | ✓ | ✓ | ✓ |
| Fiery Embedded servers running System 10e and above + FS100 Pro and FS150 Pro | ✓ | ✓ | Not supported | Not supported | Not supported |

Starting with Fiery FS200 Pro system software, users no longer need to upgrade their Fiery server to benefit from new imposition capabilities; especially imposition automation with User Defined and Based on Trim Box finish size templates through Job Properties, Server Preset, and Virtual Printers. Fiery users can get new capabilities built for these finish sizes, simply by:

- Installing the latest Fiery Command WorkStation version on the Fiery server
- Activating a Fiery Impose license on the Fiery server for server-based workflows

Integration with slitter/cutter/creaser offline finishing equipment

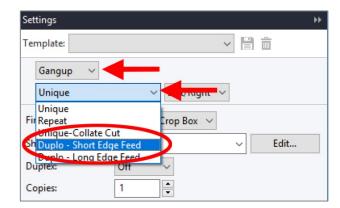
Fiery Impose integrates with all major offline slitter/cutter/creaser devices to help eliminate time-consuming and duplicated manual setups. Users can automate the job preparation process all the way from prepress to post press, to guarantee the final products are produced efficiently and with minimal waste. With Fiery Driven workflows, jobs can be prepped in just one click to save up to 80% in setup time, with fewer errors and less waste. Find the supported finisher model and a how-to guide which includes premade Fiery Impose templates for each partner brand:



- Ausjetech
- Duplo
- Graphic Whizard
- Horizon
- MBM
- Morgana
- Plockmatic
- Uchida

Duplo imposition layout options

The Duplo imposition layouts are intended for post-processing with a Duplo offline finisher. Those layouts handle the PDF formats most commonly finished with these Duplo offline finishers.



The selections are Duplo long-edge and Duplo short-edge impositions for non-VDP PDF and PostScript files.

Benefit:

 Extends Duplo offline finisher support to streamline print production from job prep to finishing

Duplo finisher layout import

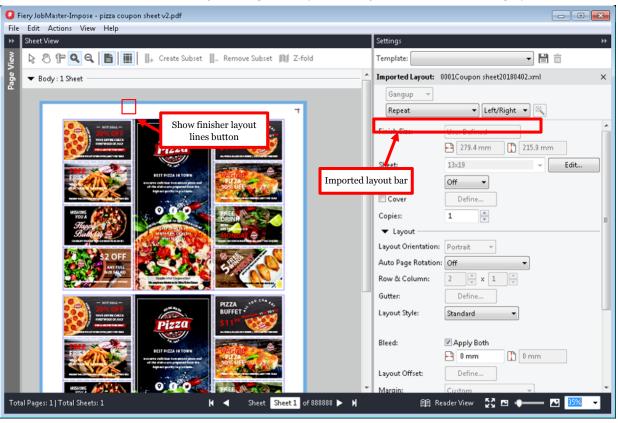
Fiery Impose has been introducing significant improvements to the integration between Fiery Impose and Duplo finishers including increased automation of offline finishing for custom layouts. With this feature, users can import the layout file for the Duplo finisher into Fiery Impose to set up imposition in seconds and automate future jobs to eliminate manual setup on the Duplo finisher.

When users create the layout file on the Duplo finisher, they can import this file into Fiery Impose. This will automatically set up the imposition layout as defined by the Duplo layout file, which ensures a perfect match with the finisher's settings and minimizes user errors and rework.

While working on the layout in Impose, users have the option to apply additional Impose settings, such as duplex, that will affect only the settings that aren't grayed out. Settings that are grayed



out, or not enabled, are ones controlled by the layout file and necessary to guarantee precise finishing by the Duplo finisher. For additional flexibility, Fiery Impose offers users the option to unlock those disabled features by closing the Imported Layout bar in the Settings panel.



When applying the Duplo layout file to a job with Fiery Impose, users can preview the alignment of the page content with finishing lines set up on the Duplo finisher, such as fold and perforation lines. Just click on the new "Show finisher layout lines" button on the toolbar.

Users can create a template to automate future jobs. These templates save all the layout settings and let users preview the finishing lines. Templates can then be used in all automation workflows including Fiery Hot Folders, Virtual Printers, server presets, and Fiery JobFlow.

Before the first use, turn on the import feature for the Duplo finisher layout in the Fiery Impose Preferences section.

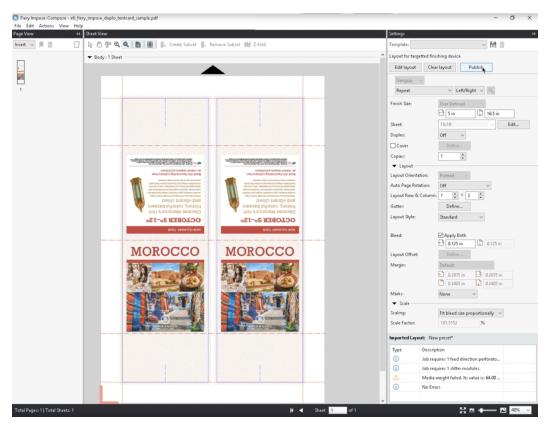
Supported Duplo finishers include the Duplo DC-615, DC-616, DC-618, DC-645, DC-646, DC-648, DC-745, and DC-746 offline finishers.

Learn more about this feature by watching this <u>Express Video</u>, following the easy set up procedures in this <u>how-to guide</u>, or visiting the <u>webpage</u>.



Custom imposition for the Duplo DC-618

For custom layout jobs using the Duplo DC-618, users can easily set up an imposition layout entirely within Fiery Impose including cut, crease, and perforation finishing marks for even more time savings. With this advanced finishing integration, there is no longer a need to set up a finishing layout on the Duplo controller and import it into Impose. Fiery Impose has built-in knowledge of the DC-618 configuration options and constraints. This workflow accelerates production turnaround time while eliminating operator touchpoints and errors from incompatible layouts.



Create a custom imposition layout with finishing marks all within Fiery Impose

Print marks on front surface only

The checkbox Print marks on front surface only at the bottom of the Marks window of Fiery Impose, prevents the printing of trim and fold marks, job labels, and blank page text on the back of a page when shops are using duplex printing. Because trim marks are only necessary on one side of a page, this prevents unwanted marks on the second side of a duplex page.

Benefit:

• Prevents unwanted marks that might not be trimmed off if the marks don't line up exactly on both sides of a duplex page



25x25 gangup

The Fiery Impose gangup row and column repeat limit has been extended to 25x25. An added wireframe preview provides fast previews for gangups over 10x10. Printers often request this feature – especially for printing stamps, tickets, and thumbnails on one page.

Benefit:

• Saves paper and click count with higher gangup repeats on one larger sheet of paper

Gangup finish-edge selection

Print applications such as wall calendars and some financial statements, that are imposed for top-bound finishing, require all back pages to rotate 180 degrees in order to show the correct page orientation for the finished spread.

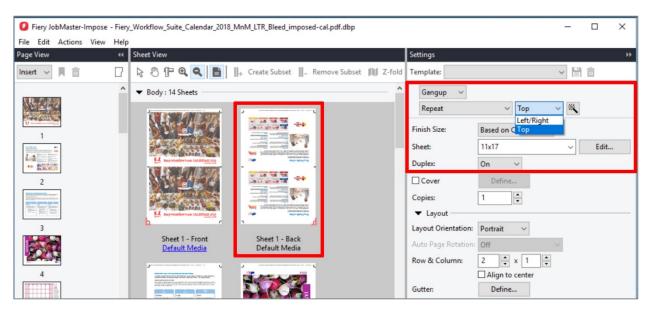
Before, designers could manually rotate the back page for individual sheets when producing the file to print. This feature makes the rotation automatic for all back pages in a gangup imposition. Just choose the new Top binding edge selection when imposing a job with duplex gangup-repeat, unique-collate cut, or Duplo styles.





Calendars using gangup-repeat imposition style and top binding edge





Gangup finish-edge selection is enabled when choosing Gangup, Repeat, and Duplex: On settings. See how the pages on the back of sheet 1 were rotated 180 degrees.

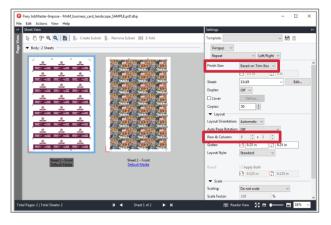
Benefits:

- Improves user productivity and throughput when using preset-based workflows such as Fiery Hot Folders, Virtual Printers, and JobFlow
- The settings can be saved as a Fiery Impose template so that users can automate page rotations for upcoming regular or VDP jobs that require duplex with top-finished edge

Gangup automation by media size

Gangup imposition templates can use the "Based on Trim Box" finish size that uses the trim box defined in the document. Fiery Impose calculates the best layout (n-up and orientation) on the fly, considering the desired media size.

Based on Trim Box finish size reads the trim box of the first page of the document, and disables the row and column fields. When the user selects the sheet size, Impose automatically calculates the row and column values to maximize the sheet surface.



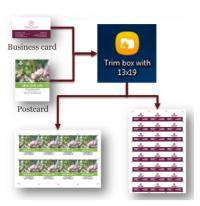
Based on Trim Box finished size

The best-fit for gangup feature can be saved as a template to automate layout. However, gangup unique and repeat is a different layout type. Each type requires a separate template per media size. Even with that, users will have fewer gangup templates to manage, with only one imposition template per gangup type and sheet size.



Imposition templates created with the Based on Trim Box finish size setting can be used in Fiery Hot Folders and Fiery JobFlow* workflows.

For example, users can set up a single hot folder for 13x19-inch media to process business cards and postcards. Fiery Impose will produce the best-fit layout for each product size, while maximizing the paper usage. This type of workflow will greatly reduce the time and effort required to set up gangup automation.



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.

Auto page rotation

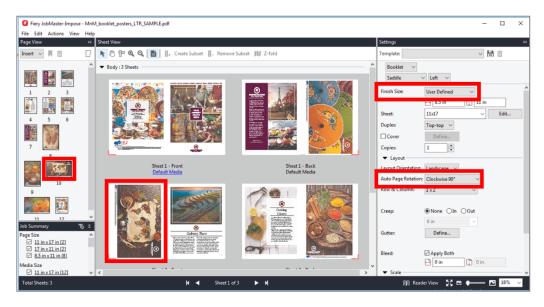
When jobs come in, they sometimes contain pages created with a different page orientation than the rest of the document. This requires users to pick out those pages and rotate them to print with the right orientation and paper size.

With Auto Page Rotation, Fiery Impose can automatically detect and rotate pages in a job to ensure that all pages have the same orientation. Users can also include the rotation requirements in a Fiery Impose template, and apply it to automation workflows using User Defined or Based on Trim Box finish sizes.

This capability is especially important for transactional printing, where a job contains hundreds or thousands of pages, and some pages need to be rotated before the job can be imposed.

Auto Page Rotation can be automated with Imposition templates using Fiery Hot Folders and Fiery JobFlow workflows.

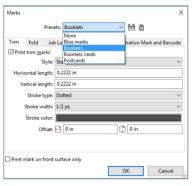




Auto page rotation

Presets for marks

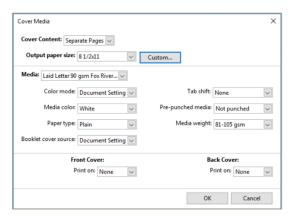
Users tend to use the same printer marks repeatedly. Now they can save their preferred mark settings as presets on a client computer and reuse them for future jobs. The ability to reuse mark settings with one click will help users speed up their imposition setup.



Presets for marks

Mixed Media for VDP booklet covers

Users like the capability to define a booklet layout for VDP jobs with Fiery Impose. This feature allows them to set media for the covers of VDP booklets that is different than the body pages.



Cover Media definition for VDP jobs





Modify PS to PDF conversion option

The PS to PDF conversion occurs every time a PostScript (PS) file requires the use of imposition functions in the print driver, Job Properties, or a server preset.

These imposition functions are found at the Layout tab in Job Properties and include booklet, gangup, and Impose settings.

The conversion of PS to PDF is defined by a jobOptions file created with Acrobat Distiller. A variety of settings control how the conversion occurs. The factory jobOptions file is "Fieryoptimized2" and users can see all settings using Acrobat Distiller.



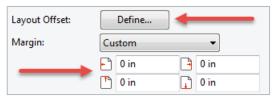
Select a different jobOptions file in Fiery
Configure

In some specific scenarios, users may need to change some of the settings in Fieryoptimized2 to adapt the PDF conversion to their workflow needs. For example, a user could use a jobOptions file that ensures all pages print with black toner only, preventing a color click charges, or use a jobOptions file that reduces the file size, therefore speeding up the RIP time. Any setting that Distiller offers could potentially be set in a jobOptions file to help solve a specific workflow problem.

This feature provides users with the flexibility to customize the Adobe Distiller jobOptions file by uploading the new file to the Job Management section in Fiery Configure.

Automation for layout offset and margin settings

This feature enables users to save the layout offset and sheet margin settings in Fiery Impose to a template. With this template, they can then automate the offset using Fiery workflows through Fiery Hot Folders, virtual printers, server presets, and Fiery JobFlow.



Layout offset and margin settings in Fiery Impose

Fiery Compose

Fiery Compose provides centralized document assembly, page-level ticketing, content preview, and powerful editing features including a tab creation interface. Compose is designed to be the core toolset that operators use to prepare documents for printing. Because Compose launches from Command WorkStation, it can run on the user's desktop computer in prepress or locally at the Fiery server.

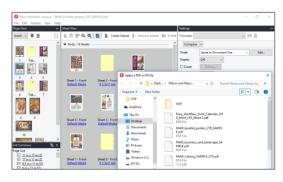




Compose provides Fiery servers with an advanced preview and editing environment. Its wide range of sophisticated document composition tools and advanced visual user interface improve document verification, speed up composition, and enable less experienced users to perform complex document functions. In addition, sophisticated tools with familiar Fiery user interfaces reduce training requirements and increase the user's resource base.

From a single integrated window, users manage tabs and specify mixed media, taking advantage of the fully automated digital printing process to produce finished documents with minimal user intervention. Integration with the Paper Catalog's centralized paper warehouse database also makes it intuitive for users to apply media specifications on a per-page or per-chapter basis, and improves paper management across the entire production environment.

For flexible document assembly, users can drag and drop files from the desktop and select pages from jobs anywhere on the network, or from the Fiery job list. Operators can use a unique workspace for all document layout tasks by adding Fiery Impose software. With it, users can incorporate visual and intuitive document imposition. Impose and Compose work together to simplify labor-intensive document preparation



activities and shorten job setup times of even the most complex jobs.

Compose provides centralized document assembly, page content preview, and editing. Functions include:

- **Page view:** Simplifies document setup and navigation in large jobs. Enables users to view the entire document including inserts, tabs, and chapter starts and visually confirm media color information.
- **Page-level ticketing:** Processes complex documents with a visual content display, decreasing potential for error.
- **Chapter definition:** Offers quick and easy setup of page ranges within documents, and application of media attributes for page ranges.
- **Tab printing:** Provides intuitive tab printing functions; allowing users to insert, add, or remove tabs. Offers visual tab text editing. Manages up to 100 tabs, and tab banks of up to 15 cuts.
- **Direct PDF insertion:** Provides simple merging of PDF pages within documents or between documents.
- Late-stage PDF editing: Integrates Adobe Acrobat for quick and easy last-minute PDF changes.
- **Convert to Grayscale:** Easily specify any page or sheet surface to print in black and white during the makeready stage to save on click charges.



• **Mixed finishing sets:** Streamlines the assembly process to produce a fully finished job. With inline finishers attached to the print engine such as stapler, hole punch, or z-fold; users can select multiple options and apply them to subsets in a job.

Fiery Compose supports the following job formats:

- PDF
- PostScript
- VDP

For additional information on Fiery Compose, visit the webpage.

Benefits:

- Provides a flexible makeready solution that can be available to either local press operators or remote prepress specialists, without the need to invest in a dedicated desktop client
- Processes complex documents with a visual job display, decreasing the potential for error
- Reduces training requirements with sophisticated tools using a familiar Fiery user interface
- Enables quick and easy setup of page ranges and chapter definitions
- Simplifies page merging with drag-and-drop ease
- Allows users to create tabs and specify mixed media from a single integrated window, and also produces finished documents with minimal operator intervention

Free 30-day trials

Users have a chance to experience the benefits of Fiery Compose for free for 30 days. Users can request a 30-day trial license on the <u>product page</u>.



Fiery Compose and JobMaster trial licenses will not give users access to Acrobat Pro. This additional tool is available as a separate option.

Convert to Grayscale

Users can easily specify for any page or sheet surface to print in black and white during the makeready stage.

The Convert to Grayscale feature saves on click charges and easily fulfills the designer's intent for a printed piece. Applying grayscale conversion at the sheet level ensures click savings for imposed documents such as booklets or gangups.





Convert to Grayscale takes place either in the Page View or Sheet View panels. Once the selected pages or sheet surfaces are converted, changes are reflected in the Sheet View panel.

The conversion is non-destructive. This means that once the job has been saved back to the Held queue, operators can apply further edits to reverse the conversion if necessary.

This feature is useful in scenarios like:

- A long manual that is heavy on text has blue hyperlinks throughout the document. If the customer doesn't care if hyperlinks print in blue, the user can turn all body sheets into grayscale in Sheet View to save on click charges, after laying out the booklet.
- A customer wants the back of her business card printed in black and white. The user selects the back page in the Page View panel and converts it to grayscale.

Fiery JobMaster

Fiery JobMaster provides advanced PDF-based makeready functions. In addition to all features included in Fiery Compose, Fiery JobMaster offers fully visual tab insertion and design, advanced page numbering, scanning, stamping, and powerful late-stage editing features.



Users launch Fiery JobMaster by selecting a job from the Fiery Command WorkStation user interface. It can run on a PC or Mac client workstation in a prepress department, or locally at the Fiery server. Users can add Fiery Impose to integrate all makeready tasks in a single application.

Built with the familiar Fiery user interface, users can be up and running quickly, producing high-value jobs. Fiery JobMaster allows users to easily prepare complex jobs inside a single application and integrates with Adobe Acrobat Pro (available as a separate purchase).



Fiery JobMaster includes the features found in Fiery Compose in addition to the following features:

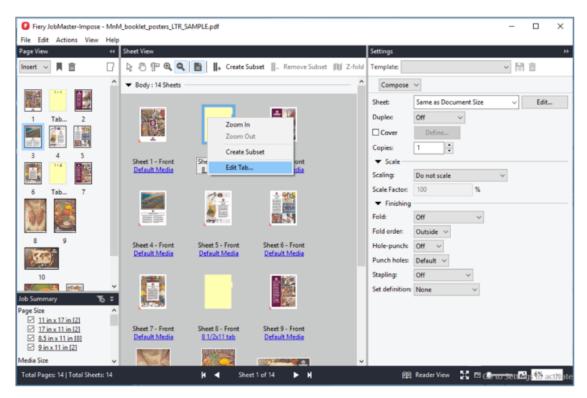
- **Quick page selection:** Allows users to accelerate job preparation by navigating long documents and locating pages quickly by filtering page properties.
- Advanced tab creation with visual content preview: The preview changes dynamically as
 users specify tab ear settings and content that can include images, color backgrounds,
 logos, and formatted text.
- **Import scanned images:** In addition to scanning documents directly into JobMaster using Fiery Remote Scan or supported 3rd party scanners, users can insert previously scanned documents into the job assembly process with advanced cleanup tools.
- Cleanup tools for scanned documents: Users can de-skew and de-speckle scanned documents; edit images for brightness, contrast, and sharpness; make pages fit to the desired media size for a uniform appearance on every page; mask out staples, hole-punch marks, or page content.
- **Page editing:** Users can redefine crop and trim box sizes and mask unwanted content such as preexisting page numbers. Edits are non-destructive and can be removed or modified at any time before production.
- **Image editing:** Users can touch up scanned pages without leaving Fiery JobMaster. With it, users can open any third-party image editor installed on a client computer. This might include Microsoft Paint, GIMP, Adobe® Photoshop®, and Preview for macOS.
- **Page numbering and stamping:** JobMaster adds page numbers anywhere on the page, can skip page numbers for inserts and tabs, and includes page-number templates for predefined numbering styles.
- **Image stamping:** Easily adds company logos, watermarks, and graphic illustrations to documents in the makeready process. This allows users to customize a job quickly, without requiring a designer to go back to the native application.
- **Job duplication:** Replicates a page or a set of pages to produce forms, coupons, and ticketing jobs with ease.
- **NCR form creation:** Allows users to quickly create multi-part forms and fulfill complex numbering and stamping requirements.

Benefits:

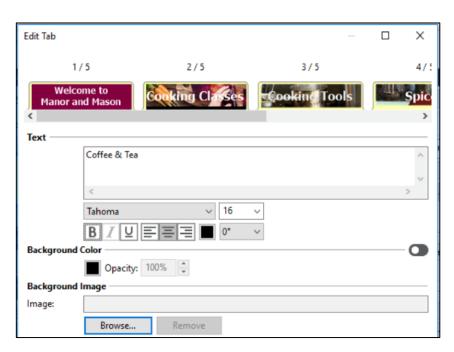
- Provides a makeready solution that is fully integrated with Fiery Impose
- Provides a flexible makeready solution that can be available to either local press operators or remote prepress operators, without the need to invest in a dedicated desktop client
- Offers the ability to edit a job by adding scanned pages and visual tabs, and by removing and adding page numbers
- Allows users to cost-effectively produce complex jobs efficiently and inline
- Supports both black-and-white and color workflows

For more information on Fiery JobMaster, please visit the webpage.





Fiery JobMaster visual interface

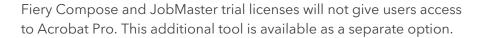


Fiery JobMaster tab editor interface



Free 30-day trials

Users have a chance to experience the benefits of Fiery JobMaster for free for 30 days. Users can request a 30-day trial license at the webpage.





Bleed Edge Tabs

The Bleed Edge Tabs feature in Fiery JobMaster allows users to produce fully finished long documents with well-defined sections, without the need to use special tab media.

This feature automatically applies bleed-edge tab settings to all pages in the chapter, incrementing the tab position for each successive chapter. In order for the tab ears to show the color at the edge of the page, the finished job needs to be trimmed at the edge of the book.



Benefits:

- Helps produce fully finished jobs with well-defined sections, without the use of special tab
- Offers printers a new and different type of value-added application to provide their customers

Auto Tabs

The Auto Tabs feature creates tab sheets, places them in the right location, and populates the tab ear content automatically by using text from the bookmark links of PDF documents.

This streamlines makeready and reduces errors that can happen during manual assembly of tab jobs.



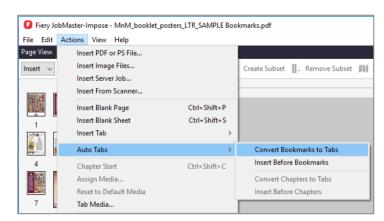
 \star With Auto Tabs, users can also reduce the time to prepare a tab job from 20 to 50 minutes, to less than 5 minutes.

Auto Tabs is especially valuable for long documents that require well-defined chapters or sections, such as training manuals, reports, or course packs.



This feature is useful in these scenarios and more:

The print buyer provides a PDF file for each section of a training manual. The user combines those files into one document using Adobe Acrobat, which merges each section into a single PDF file and automatically creates bookmarks at the beginning of each section. Bookmarks retain the names of their PDF files.



Auto Tabs uses text from bookmark links in the PDF, or places tabs automatically at the chapter start page

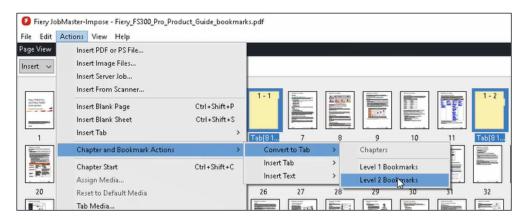
The print buyer includes all tab information in the PDF print file, rather than creating tab instructions and tab ear content in a separate document.

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



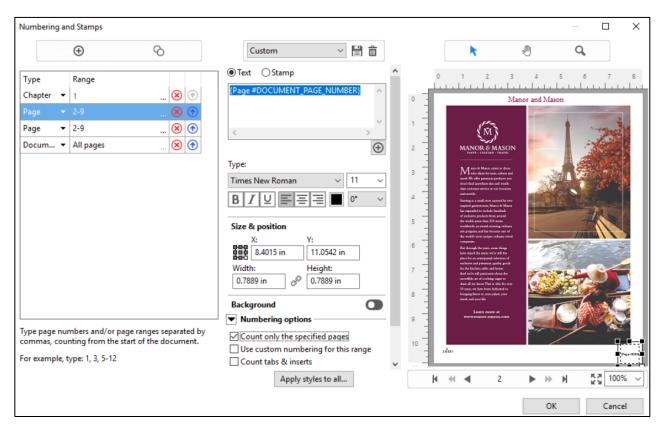
Advanced Page Numbering

Makeready of long, complex jobs requires the ability to apply different page number sequences or formats to the multiple sections within a document.

Advanced Page Numbering offers ease of use and flexibility to meet various document numbering requirements in long documents. It allows users to create unique numbering sequences for one or multiple sections, using a combination of custom text, formats, and macros.

Useful scenarios for this feature include:

- A technical manual contains an appendix and a main section, each requiring a different format. An appendix might call for Roman numerals (i, ii, iii), while the main section uses Arabic numerals (1, 2, 3). With Advanced Page Numbering users can define all page numbering formats at once.
- A job requires restarting page numbers because of inserts and dividers that should not be numbered. Advanced Page Numbering can automatically detect chapter starts to skip and restart numbering.
- Another job needs all pages to display the chapter name on top as a header, and the page number on the bottom of the page. Advanced Page Numbering can add both macros to the same page without returning to the native files to add chapter names.



More than one page-numbering sequence can be applied to a single page.



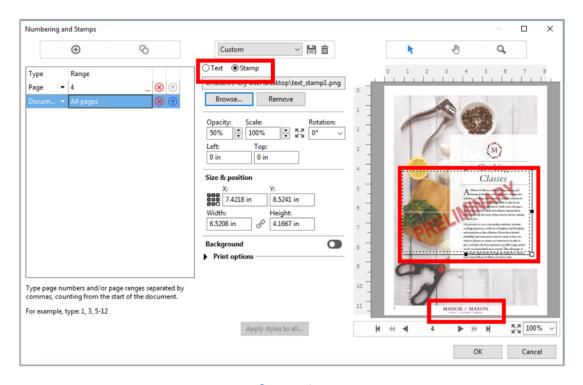
Image Stamping

Users now have an easy way to add company logos, watermarks, and graphic illustrations to documents in the makeready process. This allows users to customize a job quickly without requiring a designer to go back to the native application.

They can add images to a page or a range of pages with just a couple of clicks. There is no limit to the quantity of images users can add, and pages can have more than one image on them.

The Image Stamping feature offers a wide variety of adjustments that provide finer control of stamp placement, and give users more confidence that they can comply with a customer's job requirements and deliver a more polished job.

Users can preview all image adjustments with instant visual feedback. Some of the adjustments include image location, opacity, size, rotation, offset, and background color.



Stamp options

Import scanned images

In addition to scanning documents directly into JobMaster using Fiery Remote Scan or other supported 3rd party scanners, users can insert previously scanned documents into the job assembly process with enhanced cleanup tools.

Users can insert scanned documents in PDF or in all commonly used image file formats (bmp, gif, jpg, jpeg, pdf, tif, png, and tiff).



Ctrl+Shift+P

Ctrl+Shift+S

8

When users insert files, JobMaster automatically detects scanned pages in the document and will display only the scanned pages in the Preview & Edit window for cleanup.

Poorly scanned documents may need additional manual de-skewing. Fine rotation controls in the Preview & Edit interface let users apply up to 15 degrees of rotation to the selected pages.

With this feature, there are now three ways users can insert scanned documents:

• Inserting PDF files – JobMaster can automatically detect if there are scanned pages in the document, and will display only the scanned pages in the Preview & Edit window for cleanup before inserting the file.

Page View

Insert v

Insert Blank Page

Insert Image Files..

Insert Server Job...

Insert Blank Sheet

Insert Tab

Insert From Scanner...

6

7

Insert PDF or PS File..

- **Inserting an image file** Users select one or multiple image files, and JobMaster will display the scanned pages in the Preview & Edit window for cleanup before inserting the files
- **Inserting from scanner** JobMaster performs the scanning process and presents the Preview & Edit window before importing the file.

Image Editing

The image editing feature enables users to touch up scanned pages without leaving Fiery JobMaster. With it, users can open any third-party image editor installed on a client computer. This might include Microsoft Paint, GIMP, Adobe® Photoshop®, and Preview for macOS.

Then users can apply image-editing functions offered by user-preferred third party image editor. Commonly used image editing functions include adding content, deleting content, pasting or moving content on the page or between pages, and more.

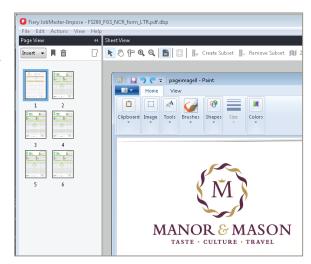


Image editing in Fiery JobMaster

Once the user saves the edits and closes the image-editing application, the edits are instantly available to preview in Fiery JobMaster to make editing a seamless and error-free task.



Page Offset

Now users can easily move page content to accommodate various finishing requirements in the Page Edit interface. They can move the page placement up and down vertically, and left and right horizontally to make room for finishing such as hole punch, bleed-edge tabs, staples, or coil binding. They can also mirror the new page placement in duplex jobs.

This type of fast page-content adjustment helps users deliver professional-looking print products quickly.



Quick Zoom

The Quick zoom feature helps users quickly and efficiently identify pages that need to be edited. Press the Alt key and right-click a page in the Page View of Impose, Compose, or JobMaster to show the selected page enlarged to the maximum size of the display screen. Release the right-click to close the enlarged page image.



Enlarged view after pressing the Alt key and right-click on a page



Job submission and settings

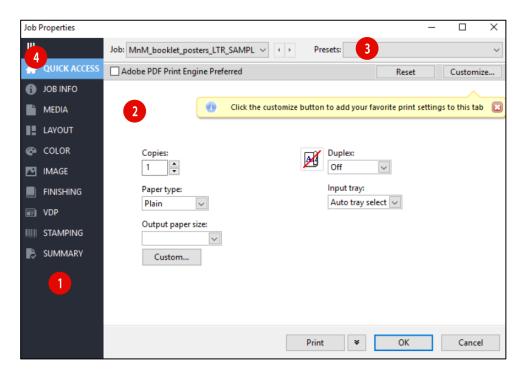
Fiery PostScript Driver

The ability to easily and accurately submit jobs to the Fiery server is one of the most important features for users. The Fiery PostScript Driver provides a printing interface that offers a simplified user experience, highlighting the basic printing options most commonly required in an office environment. With the Fiery driver, features and functions are consistent across different Windows and Mac operating systems, as well as in the Job Properties user interface.

User interface

The simple-to-use user interface (UI) presents the quick access tab with the basic printing options most commonly used in a distributed print environment. For more advanced users, printing options are categorized into tabs based on a user-centric model.

Clicking on any of the icon tabs (1) displays the options for that PPD category in the main active area (2). Up to eight options can be displayed at any time. When a category has more than eight options, users see a scroll bar to show all the available print options.



Presets (3) allow the user to save predefined print settings as a retrievable template. The templates let users define settings based their own common printing scenarios. Administrators can also create Server Presets, and share those settings with Fiery users.

A customizable, quick-access tab (4) allows users to quickly and easily access the PPD settings use most often in their particular workflows.



Available for Windows and Mac platforms, Fiery drivers provide consistency across all supported client platforms.

Fiery Essential Driver

The Fiery Essential Driver, available for specific Fiery servers, makes it easy to get files printed quickly and simply, so users spend less time trying to print and more time getting work done.

Key features:

- Available for Windows and Mac operating systems
- Simplified, visual interface
- Built-in presets for common print needs. Or quickly and easily create custom presets with your own settings.
- Supports user authentication workflows for enhanced security, print tracking, and job accounting
- IT admins can perform remote deployments
- Access to full Fiery job properties
- Easy access to free Fiery tools that help you be more productive at work

To learn more, please visit the webpage.

Mixed Media settings

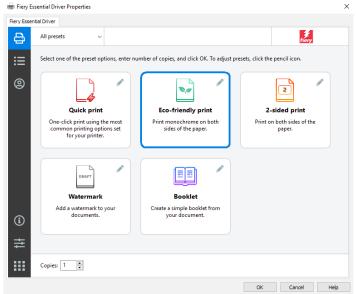
Users select the Fiery Mixed Media settings directly from the Fiery driver and Job Properties, and specify various finishing options and media types for certain sections or chapters. The feature also integrates with other features such as VDP and Fiery Impose.

Benefits:

- Tools are easy to use and integrated with the entire Fiery workflow, reducing bottlenecks and user errors
- Fully automated process digitally prints finished documents with minimal user intervention using Mixed Media, subset finishing, and tabs
- Consistent workflow for traditional and VDP jobs

Mixed Media viewer for perfect binding

Mixed Media viewer for perfect binding gives users visual feedback for page-level operations such as duplex, media, insert, and spine settings for a perfect-bound job. With this, users will understand the pagination implications of specifying these settings.





Users can specify multiple types of media for perfect-bound books. Plus, it automatically handles pagination so that perfect-bound jobs with different media print as expected. It shows users how a spine is included as the last page of the document.

The viewer adds a mixed-media interface directly into the perfect-binder user interface, and a wireframe mode to the perfect-binder mixed-media interface – giving users quick and easy visual feedback.

Mixed Media viewer for perfect binding is available as long as the engine has a perfect-binder finishing option installed.

Benefits:

- Gives the user precise controls over pagination
- Provides quick and easy visual feedback for the following settings:
 - Which page in the document is used for the spine
 - The reading order of the rest of the pages of the document (when page-level duplex settings are used)
 - The pages that are affected by a media definition

Tab Printing

Tab Shift

Most software applications allow only a single page size within a document (Word, Acrobat, and InDesign are exceptions). The Fiery system provides the ability to shift certain pages one-half inch horizontally. This makes it possible to print the predefined tab text on the tab ear when tab pages are already included in the source document.

The user must precisely orient the text on the page, predict the ear position, and specify the page number that should be shifted. The Tab Shift option is in the Mixed Media settings in Fiery Compose.

Benefit:

Makes it possible to print the predefined tab text on the tab ear

Insert Tabs

In digital production environments, each user tends to perform specific tasks in a digital document "assembly line." Typically, in this type of setting, the same user makes media and tab placement decisions at the same point in the workflow.

The Mixed Media windows and Insert Tabs functions are tightly integrated into one workflow for ease of use and maximum user productivity.



Insert Tabs allows the user to create and insert tabs directly into documents on the Fiery server. The user inputs the text for each tab and specifies the location of the tab within the document.

This feature is standard for all Fiery external servers and for some embedded servers. Check specific Fiery server materials to determine support.

The user can define:

- Number of tab ears in a bank. A single document can use multiple banks; a bank is typically composed of all the tabs necessary to run the length of the edge of the media.
- The tab media. Users select the media type, paper size, paper source, and paper catalog.
- Tab sequence (forward/reverse). This specifies whether the first ear of the tab bank is the first ear printed on (first to last), or the last ear of the tab bank is the first ear to be printed on (last to first).
- First tab indent. Here, the user specifies the distance (up to 4.000 inches or 101.6 millimeters) between the edge of the media and the edge(s) of the first (and last) tab ear in the tab bank.
- The output destination for unused tab ears in the tab bank. All unused tab ears in a bank are ejected to this output destination.
- Multiple sizes of text in a tab ear.

Print facilities that require additional features to provide visual feedback and advanced tab insert functions can upgrade to Fiery Compose or Fiery JobMaster. For more information visit the Fiery JobMaster <u>webpage</u>.

Benefits:

- Enables users of digital print engines to take advantage of fully automated digital printing processes, producing finished documents with minimal operator intervention, and reducing the need for additional resources while increasing capabilities and overall productivity
- Allows users the flexibility to add tabs (and text in tabs) at the last possible stage in the print submission process
- Increases productivity by outputting documents ready to continue the finishing process.
 Shops don't need to manually discard unused tabs in each document set. (Device-dependent feature)

Define covers

Selecting the define cover button on the Mixed Media tab in Job Properties gives users the ability to quickly define the front and/or back cover of the document, without needing to know the total page count of the document. Users can specify whether to apply the same settings to both the front and back cover, or to use separate settings for each. The settings for covers are available in the page/page range media dialog box, and (engine-dependent) the Cover Page Mode option.

The Cover Page Mode offers three options:



- Print on outside: A document page prints on the outer surface of the cover, while the backside of the cover (the inner surface facing the body page) is left blank.
- Print on inside: A document page prints on the inner surface of the cover, while the outer surface of the cover is left blank.
- Print on both sides: The cover is treated as a normal duplex sheet.

Benefits:

- Provides a quick way to make additional customization at the last possible production stage
- Increases productivity by shortening the job setup and applying automation to complex job definitions
- Decreases waste by automating complex finishing settings

Media Defined Profiles

Fiery servers offer various ways to select the output profile from the Fiery driver or Job Properties in Command WorkStation. If the Output Profile option is set to Use Job Defined Settings, the Fiery system's Media Defined Profile feature automatically applies the color profiles defined for that particular media. For mixed-media jobs, it determines which profile to use for each media from the media settings in Job Properties.

When the user selects media in Fiery Paper Catalog, the feature automatically applies the correct profiles for the media. It also supports media with different profiles for each sheet surface, specifying the correct profiles for front and back independently.

Benefits:

- Provides the most accurate color output for mixed-media jobs with media-driven color profiling
- Offers easy-to-match color profiles for each media through the simplified interface, for best quality color output

Booklet Maker

The Fiery Booklet Maker is an imposition tool in Job Properties that comes standards with all Fiery servers that allows users to print multiple pages of a print job, from any software application, in a booklet style – without the need for more advanced imposition programs.

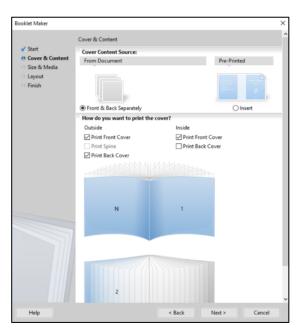
The interface in Booklet Maker is interactive and intuitive to help users achieve the expected printed output every time.



Booklet Maker provides a visual and interactive way to specify the page number of the source document for cover pagination, so it can correlate the correct page numbers with the correct cover pages.

Benefits:

- Produces finished results with a simple operation
- Intuitive UI minimizes training requirements, and a graphical and intuitive wizard-based interface guides the user in setting up professional-looking booklets more quickly and with fewer errors
- Meets basic imposition requirements, with an upgrade path to Fiery Impose for expert users



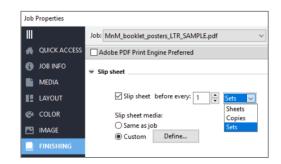
Support for offline finishing

Fiery servers provide settings in Job Properties that define online finishing options on a per-job basis.

Slip sheet

The slip sheet setting allows users to inject blank or preprinted sheets between sets, or within sets as separator sheets. The slip sheet is typically pulled from a tray loaded with different media to make it easier for users to see the breaks in the job. This feature also handles interleaving of various media, including transparencies.

Users can choose from these slip-sheet boundary options:



Slip Sheet setting in the Finishing tab of Job Properties.

- Sheets inserts a sheet before a set number of sheets
- Copies inserts a sheet before a set number of copies
- Sets inserts a sheet before a set number of variable data printing (VDP) records, subsets, chapters, or uncollated copies (for example, 10 copies of page 1) of a job

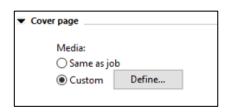
Job cover page

The job cover page prints a cover page containing job information after the last sheet of the job. This gives users another way to better identify the beginning and the end of a job and additional job details.



This feature is also available in Fiery Configure, in case administrators require all jobs to print with a cover page.

The job information in the cover page is predefined, and cannot be modified by the administrator.



Cover page setting in the Finishing tab of Job Properties



The job cover page includes useful job information for better identification of the final output.

Offset by sheets, copies, or sets

The Offset feature shifts the placement of the output during printing, so that the job can be separated into multiple parts more easily after printing.

The output can be offset for copies, sheets, or sets:

- Sheets offsets after a specified number of sheets
- Copies offsets after a specified number of copies
- Sets offsets after a specified number of VDP records, subsets, chapters, or uncollated copies (for example, 10 copies of page 1) of a job



Offset setting in the Job Properties' Finishing tab.

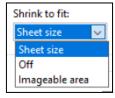
This feature is also available in Fiery Configure, in case administrators require all jobs to be offset between jobs.

This feature is only available for print engines that have an offset option at the inline finisher.

Shrink to fit enhancement

The Shrink to fit setting in the Layout tab of the Fiery driver and Job Properties, ensures that the entire image on a page fits on the printed sheet. This enhancement offers users a choice when selecting the setting:

Shrink to fit setting options found in the Fiery driver and Job Properties under the Layout tab for gangup and booklet styles



- Sheet size: scales the image to the sheet size of the selected media
- Imageable area: scales the image to the printable area of the sheet



Benefits:

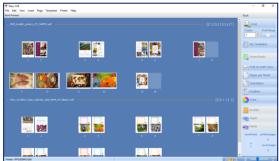
- Helps users better define shrink-to-fit parameters
- Avoids missing image data from printed output

Fiery VUE

Fiery VUE is a free, visual print application that produces professional-looking, finished print materials quickly, easily, and cost-effectively from desktop PCs. The interactive application comes with a user-friendly 3D interface that visually guides the user through document creation with intuitive layout and finishing tools. The environmentally friendly solution also reduces the eco-footprint by minimizing waste and using Fiery VUE Green Statistics to monitor the ways a job can be produced to be more "green."







Fiery VUE runs on Windows clients and submits print data to the Fiery server. Documents developed in the Fiery VUE application can only be printed on a Fiery Driven print engine that is Fiery VUE compatible.

If the Fiery Driven printers are managed in the corporate reprographics department (CRD) or inplant printing facility, Fiery VUE can submit print jobs with instructions to the facility to meet even more complex production requirements.

The Fiery VUE settings are targeted at a specific Fiery Driven engine selected by the user, and only the printing and finishing options available on that engine will be presented for use.

For more information, visit the webpage.

- Offers the most intuitive and innovative way to create professional-looking documents, right out of the box, with a visual user interface for power office users
- Simplifies document assembly with drag-and-drop operations to combine or re-order Microsoft Office files and pages
- Saves time and money with desktop document controls that produce customized materials in a short time



 Reduces eco-footprints with the interactive 3D preview mode, Green Books auto-templates for booklets, and the Green Printing Statistics which allows users to track paper savings by weeks and months

USB Media Server

USB Media Server provides an easy way to connect USB storage devices to the Fiery server and print files stored on those devices. New folders can be created on the storage device for automated printing.

Key features:

Connect USB storage devices, including:

- USB thumb drives
- USB adapters for removable media (such as compact flash, smart media, and memory stick)
- USB hard drives

Fiery QuickTouch browsing capabilities on NX external servers such as:

- Selecting file Any supported file on a USB storage device can be selected.
- Submitting file Menu options below are available for submitting files after the user is in the Selected File mode.
- Send to Hold queue
- Send to Print queue
- Send to Direct queue
- Send to <virtual printer queue name>

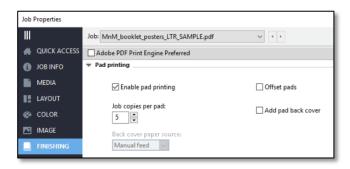
- Increases overall flexibility and enables walk-up users to easily print jobs directly at Fiery servers
- Allows guest printing without network connectivity
- Provides several easy and flexible ways to print files from USB devices



Pad printing

Pad printing gives users the ability to print multiple copies of a job without having to perform unnecessary mental calculations or multiple steps. Previously, the user had to multiply the number of pages in the pad by the number of pads, manually separating the pads after printing.

Job Property controls in the Finishing tab now let the user specify pad-printing



Users can select the number of copies per pad.

parameters. The user can define the contents of each pad, including the number of times the job repeats within a pad. It duplicates a single-page job as many times as defined in the Pad Printing settings to create one finished/merged pad. Users can even add a back cover/slip sheet between each pad. Pad printing also allows users to simply assemble printed pads with a back cover, similar to sticky notes. Operators can use the Number of Copies control to specify the number of pads in the job. Pad copy packs are offset in the output tray for easy separation for offline binding.

Benefits:

- Simplifies and streamlines pad printing
- Enables the user to create a pad easily from a single-page job
- Minimizes manual collation of the printed output

Copy Numbering

This feature provides the option of adding a simple copy number watermark that repeats over the pages of a job. It is useful for legal and government documents to provide identification, copy protection, and automatic consecutive numbering of pages.

The copy numbering feature is an entry-level version of the advanced numbering capabilities offered in Fiery JobMaster.

Users can access the feature in Job Properties and save settings for future automated workflows using Fiery Hot Folders, job presets, and Fiery JobFlow. Users can configure the angle, transparency, font size, and starting number of the watermark.





Three copies of a page with copy numbering: Start number: 101, font: 100 pt., transparency: 35%, angle: 135°

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 allow pages within a document to print as banner pages. This lets Fiery users customize the content of banner pages to fit their specific needs in output handling and distribution.



Banner page print settings

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.



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.



Scale to fit sheet size

The Fiery driver and Job Properties include a setting to scale the page layout to fit the sheet size, in addition to the imageable area.

This setting allows printing full bleed when supported by the printer or maximizes the printed surface when the design has white background.

Fiery Remote Scan

Nearly all new documents today exist in digital form. Most corporate and print-production workflows are designed to handle digital documents efficiently. However, there are still substantial volumes of hardcopy documents that users sometimes need to include in their digital document workflows. Scanning technology is readily available in most commercial print shops or corporate inplant and reprographics departments, but is not typically available to corporate workgroups where most of the content providers work.

The Fiery Scan utility brings document scanning capability to workgroups through any compatible output device with copier capability that is connected to a Fiery server. Windows and Mac users can create high-quality scans and specify destinations for the scanned files across a network.



Fiery Remote Scan auto discovery

The Fiery Remote Scan plug-in allows users to control the Fiery scanner/document feeder configuration remotely from a client workstation. The application runs on both Windows and Macintosh operating systems, and allows the user to initiate new scans.

All scans are initiated at the Fiery server and stored on the Fiery hard drive, so they are available for use and accessible from Fiery mailboxes. The Fiery server can also be configured as an input device for document-management systems.

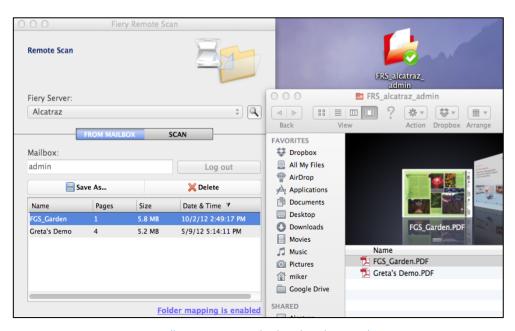
Fiery Remote Scan incorporates auto discovery, making it easy to add networked Fiery servers to the list of available servers.

- Turns any Fiery Driven device into a high-quality scanner
- Reduces the need to store and track hardcopy documents, decreasing overhead costs and improving efficiency
- Provides flexible scan initiation options, including the copier scanner



Folder Mapping

Folder Mapping allows users who scan from the Fiery server to synchronize the Fiery mailbox contents with a local folder. Folder Mapping is available on both Windows and Mac workstation clients. With this feature, the scan jobs going to a mailbox automatically appear in a folder on the user's computer.



Fiery mailbox contents are displayed on the Mac client.

- Faster retrieval of scanned jobs
- Windows and Mac support without the need to install additional applications



Image shift options

Users have several ways to shift image placement on a sheet.

Image shift

Found in the Finishing tab in Job Properties, image shift allows a user to specify how much the image on each page should be shifted relative to the X and Y axis. A common use case is to allow ample space for various finishing properties such as 3-hole punching, stapling, stitching etc. without any data/content from the job getting clipped, or to compensate for engine defects. There is no visual preview in this feature.

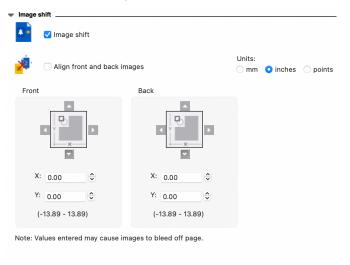


Image shift in Job Properties

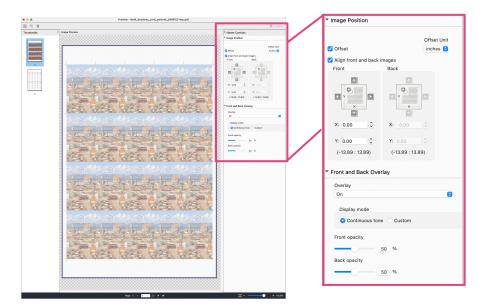
Visual image shift

With visual image shift, users now have a visual way to shift the page content of an image on a sheet. This is helpful to correct engine misregistration, to fix a problem in a job that has fundamental offset issues, or to manually shift content to adapt to finisher behavior (such as hole punch or other binding functions).

Visual image shift is available in both Preview and Fiery ImageViewer (for servers with licenses for Fiery ColorRight Package or Fiery Graphic Arts Pro Package). It provides a visual way to perform shifts of image content on the front and back sides of a sheet. Previously, users could do this in Job Properties (changes were applied when the job was RIPped), but there was no live preview of the changes.

Now, users can see the shifted RIPped content in real time as they make precise adjustments. They can choose to align the front and back images together or adjust each page independently. If the "Non-imageable area" option is on, a gray border appears in the non-imageable area of the page. This helps ensure that any shifted content remains in the printable area of the page.

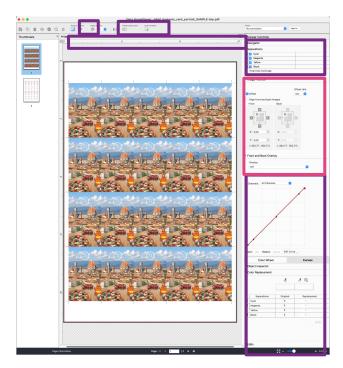




Visual image shift in Fiery Preview. Note the Image Position section in the right-hand sidebar. The non-imageable area is highlighted with a gray border.

Not only do users see a visual preview but, since the changes are made on the RIPped file, they don't need to re-RIP the file before printing.

Fiery ImageViewer provides additional benefits. The Ruler and Measure tools, along with a much more powerful magnification function, provide a more precise preview of shifted content. Users also get the all-in-one convenience of other color editing functions in Fiery ImageViewer, such as adjusting color curves or making color replacements.



Visual Image Shift in Fiery ImageViewer highlighted in red. Additional ImageViewer functionality not available in Fiery Preview is highlighted in purple.



Benefit:

 Provides a visual interface to adjust content placement on the sheet, with few or no proof prints required

To learn more about Visual image shift, watch the video.

Media management

Paper Catalog

Digital document production tools demand a robust approach to paper management across the entire production environment. The ability to have an all-encompassing view of paper stock is essential in a successful document-production facility.

The Fiery Paper Catalog is a centralized paper database that stores attributes of the media stock at the production site. Users can access the feature from applications such as Command WorkStation, but the database resides on the Fiery server, where it is protected against server reboot or clear server actions.

Instead of defining media for each job (with attributes such as size, media type, tray, media weight, color, etc.), Paper Catalog lets users define each media in the shop just once, and then select that definition for each job.

Paper Catalog uses the industry-standard job definition format (JDF) media attributes to define media, rather than printer/copier-specific media attributes. This makes automatic mapping of media definitions from modern job-submission workflows much more accurate. In addition, many of the attributes are the same displayed on the media packaging, making it very easy to define new media on the system. This reduces the number of times users need to configure the same media for the same job in different workflow steps. It also allows management information systems (MIS) to automatically collect production data from the Fiery server, tracking precisely how many sheets of which paper(s) were used to produce a job.

The media stock entries are stored in a database that:

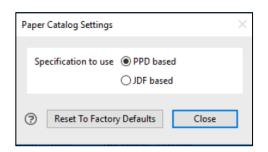
- Defines a name for each media attribute combination
- Facilitates media selection at job submission by:
 - Associating trays with loaded media stock
 - Automatically using predefined color profiles for each media (Media Defined Profiles)
 - Facilitating a centrally maintained paper catalog
 - Allowing PPD-based jobs and Paper Catalog-based jobs to coexist in the server

Paper Catalog settings use PPD specifications.



Key features include the ability to:

- Use printer (PPD)-based specifications mode
- Publish/unpublish selected entries
- Highlight what's loaded in the tray, plus display tray number and paper levels (Windows only)
- Integrate printer/copier catalog into Paper Catalog
- Export or delete selected entries
- Associate color profile for printer/copier catalog entries
- Improve alerts and notifications



Benefits:

- Simplifies media selection at job submission, reducing both manual steps and material waste resulting from incorrect media usage
- Provides interactive feedback to reduce mistakes when associating paper stock to paper loaded in the trays, increasing overall production
- Offers easy-to-relate color profiles for each media through a simplified interface, for the best quality color output
- Translates the paper selection to the shop's classification system for paper stock, helping keep inventories up to date and reducing obsolescence
- Provides an engine-agnostic approach to paper catalog management
- Integrates use of Fiery JDF to reduce the number of times a user needs to configure the same media for the same job in different workflow steps

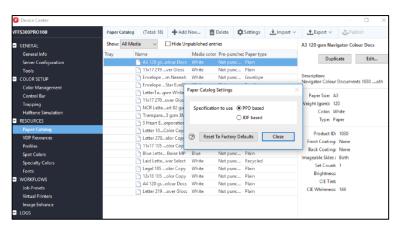
Paper Catalog based on PPD specifications

Paper Catalog on the Fiery server is a saved collection of attributes associated with specific media. Most frequently used attributes are paper type, paper weight, paper size, and color profile.

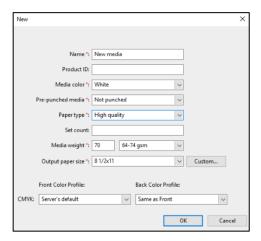
JDF media specifications can have over 35 different attributes per media entry in the Paper Catalog. However, customers can now also use Paper Catalog with non-JDF workflows.

In this case, Fiery servers provide users with the choice to create a Paper Catalog based on the engine's media attributes or PPD definitions. This means users see only a few choices that are specific to their printer when adding and viewing Paper Catalog entries. This simple mode is designed to make Paper Catalog faster and easier to use.





Users have the option to choose a simplified mode to input new entries in Paper Catalog.

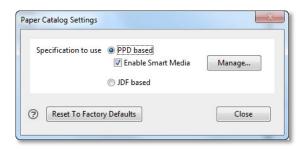


- Engine-driven media offers faster, easier setup
- Setup is easier for non-JDF workflows
- Paper Catalog for embedded servers enhances productivity
- Administrators can now define some options when adding entries in Paper Catalog to enhance ease of use
- Job Properties and bidirectional drivers can show which Paper Catalog entries are loaded in the printer trays



Paper Catalog Smart Media

Smart Media is a feature designed to automatically assign a Paper Catalog entry, based on the characteristics of the media loaded in the tray. This feature is most beneficial for customers with a specific workflow that usually uses the same paper in the trays. Often, users stick the paper labels onto the trays to remind the users which paper to load. Smart Media allows the Fiery server to remember these favorite papers and perform



Smart Media is available when Paper Catalog is using PPD-based specifications.

an automatic tray association when any media with the same attributes is loaded in the tray. Smart Media Add from Tray pre-populates all properties for a new Paper Catalog media, using the tray attributes set by the end user. With this enhancement, the user just has to load media into the tray and to name that media in the Paper Catalog. It's that simple. For the majority of users with a limited paper stock, automatically assigning media when loaded in a tray reduces the number of errors and improves media-based workflows. For office environments, for instance, users can now set up Paper Catalog so that tray 1 always assigns the correct Paper Catalog entry when a plain letter-sized media is loaded.



Add Smart Media to a tray so it will be automatically assigned next time media with the same attributes is loaded.

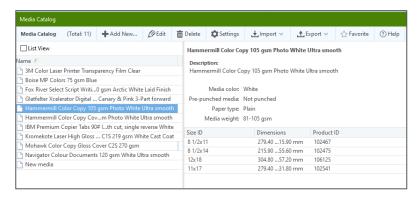
- Streamlines and simplifies the process of adding new media to Paper Catalog and saves valuable time
- Requires no additional steps to add a paper when a favorite (smart) media is loaded in a tray
- Increases reliability for media-driven workflows: minimizes errors when setting up media and user intervention



Media Catalog

① Engine-specific features: check Fiery server materials to confirm support

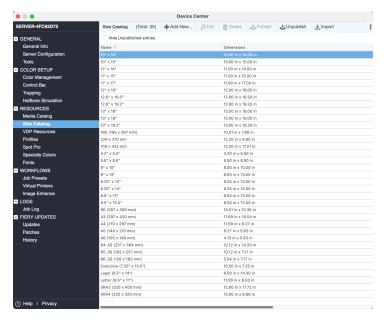
Media Catalog replaces Paper Catalog for some Fiery FS600 Pro servers. It greatly simplifies the process of managing multiple media types of different sizes. It enables a single catalog entry for a media type, including multiple sizes (where all other attributes are the same). Calibrations and color profiles are assigned a catalog entry, which then applies them automatically to all sizes of a given media.



A Media Catalog entry selected with multiple sizes associated with it

Size Catalog

Size Catalog is a component of Media Catalog that creates a central library for all media sizes used by the printer. Size Catalog makes it easy to quickly associate additional media sizes with an entry in Media Catalog, as users simply need to choose the right size of media from the dropdown menu.

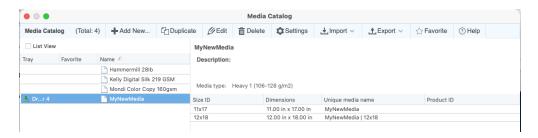


Size Catalog in Device Center.

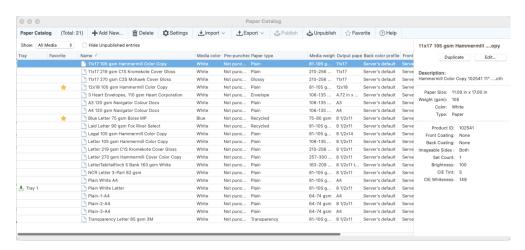
Comparison: Media Catalog versus Paper Catalog



Media Catalog



Paper Catalog



| Feature | Paper Catalog | Media Catalog |
|---|---------------|---------------|
| Single media name for all sizes | No | Yes |
| Favorites | Yes | Yes |
| Bi-directional communication (on supported engines) | Yes | Yes |
| Size Catalog | No | Yes |
| Unpublish media entries | No | Yes |
| Hide unpublished media entries | No | Yes |
| Create custom sizes for all media | No | Yes |
| Create custom sizes for a specific media | Yes | No |
| Apply output profiles to all sizes of a media | No | Yes |
| Apply output profiles to a single media size | Yes | No |
| Add new media based on tray/drawer configuration | Yes | Yes |
| Support for 1-step color management | Yes | Yes |
| Support for Zero-touch recalibration | Yes | Yes |
| Import/export catalog (on supported engines) | Yes | Yes |
| Back up catalog (on supported engines) | Yes | Yes |
| Set Page Device support | Yes | Yes |
| JDF support | Yes | Yes |

Benefits:

Fewer overall media entries lead to:



- Easier sorting, administration, and management.
- Faster navigation to a particular media in the list due to the reduced number of entries.
- Less chance of errors on media-detail entry due to the simplified workflow.
- Greatly simplifies the color management of media types.
- Compliments 1-step color management and Zero-touch recalibration as all media sizes are color managed in one go.



Color & imaging

Fiery servers provide state-of-the-art imaging technology, combined with expert color management tools, to deliver high-quality images with the accurate, consistent color customers want.

Every Fiery server is PANTONE® Color enabled and comes with press-manufacturer-approved color profiles for common printing stocks. These profiles are used to manage process color output, and are also used to create spot-color-matching tables for Fiery Spot-On or Fiery Spot Pro, so that spot colors such as those from PANTONE libraries, print with the best possible match to the swatch book.

Fiery Edge spot color processing, standard on all Fiery FS600 Pro servers, delivers up to 20% better spot color accuracy—helping CMYK and CMYK+ printers achieve more precise, consistent brand colors, even for out-of-gamut shades.

Fiery Calibrator simplifies the process of re-calibrating the print system in order to deliver top quality and consistency for every job – even for reprints. Fiery Calibrator includes features such as the ability to use an ES-3000 spectrophotometer, job-based calibration, and Calibration Guard. In addition, users can take advantage of the print engine's inline measurement instrument for automated calibration and profiling with Fiery color management automation, making these routine processes run much faster and more efficiently.

Users can take late-stage image editing and correction to the next level with Fiery Image Enhance Visual Editor and Fiery ImageViewer. Image Enhance Visual Editor allows print service providers to offer custom image correction services on the final PDF or PostScript print files. ImageViewer streamlines color adjustments with intuitive post-RIP editing tools that let operators fine-tune output curves and replace specific spot colors in a file. It preserves spot color accuracy during edits, ensuring brand colors remain consistent and visually correct across jobs.

The following table represents the standard configuration for each respective Fiery server platform and system version combination driving color digital printers. For information on a specific Fiery model's feature set, refer to the datasheet for that model, or ask your Fiery vendor about support for a specific feature.

| √ Standard | ⊙ Option | - Not Available | SFM = See product-specific feature matrix |
|------------|----------|------------------|---|
| v Standard | ○ Option | - Itot Available | or in - see product-specific reature matrix |

| Feature name | NX Premium | NX Pro | NX One | E-Series |
|-------------------------|------------|--------|--------|----------|
| CMYK/grayscale | | | | |
| CMYK source profile | ✓ | ✓ | - | ✓ |
| CMYK rendering intent | ✓ | ✓ | - | ✓ |
| Grayscale input profile | ✓ | ✓ | - | ✓ |
| Pure primaries | ✓ | ✓ | - | ✓ |



| RGB/Lab | | | | |
|---|----------|----------|-----|----------|
| RGB source profile | ✓ | ✓ | - | ✓ |
| RGB rendering intent | ✓ | ✓ | - | ✓ |
| Device Link Profile support | ✓ | ✓ | - | ✓ |
| Media Defined Profiles | ✓ | ✓ | - | ✓ |
| Fiery Edge profiles | ✓ | ✓ | - | ✓ |
| Fiery Intensify rendering intent | • | • | - | • |
| Embedded profile support and override | ✓ | ✓ | - | ✓ |
| PrintWide 2020 source profile | ✓ | ✓ | - | ✓ |
| Spot color processing support | ✓ | ✓ | - | ✓ |
| PANTONE Color Enabled | ✓ | ✓ | - | ✓ |
| Fiery Edge spot color processing | ✓ | ✓ | - | ✓ |
| HKS, DIC, Toyo Ink named color profiles | ✓ | ✓ | - | ✓ |
| Fiery Spot-On | ✓ | ✓ | - | ✓ |
| Fiery Spot Pro | ✓ | • | - | • |
| Substitute colors | ✓ | ✓ | - | ✓ |
| Composite Overprint for Spot Colors | √ | ✓ | - | ✓ |
| Specialty colors | SFM | SFM | - | SFM |
| Expanded gamut | SFM | SFM | - | SFM |
| Fiery TrueBrand | ✓ | ✓ | - | ✓ |
| Color processing | | | | |
| Composite overprint for CMYK | ✓ | ✓ | - | ✓ |
| Composite overprint for grayscale | ✓ | ✓ | - | √ |
| Combine separations (CMYK) | ✓ | ✓ | - | ✓ |
| Unlimited separations | ✓ | ✓ | - | - |
| Auto Trapping (fixed) | ✓ | ✓ | - | ✓ |
| Optimize RGB transparency | ✓ | ✓ | - | ✓ |
| Raster Curve Editor | ✓ | ✓ | - | ✓ |
| Use maximum printer density | SFM | SFM | SFM | SFM |
| Proofing | | | | |
| | | | | |



| PDF/X output intent | ✓ | ✓ | ✓ | ⊙ |
|--|-----|-----|-----|-----|
| Paper simulation (fixed paper white) | ✓ | ✓ | - | ✓ |
| Halftone simulation | ✓ | ✓ | - | - |
| Soft proof (Preview) | ✓ | ✓ | ✓ | ✓ |
| Soft proof (Fiery ImageViewer) | ✓ | • | • | • |
| lmage settings | | | | |
| Text/graphics quality (engine dependent) | SFM | SFM | SFM | SFM |
| Image Enhance (in-RIP) | ✓ | ✓ | - | ✓ |
| Fiery Image Enhance Visual Editor | ✓ | ✓ | - | • |
| Dynamic HD Text and Graphics | SFM | SFM | SFM | - |
| Image smoothing | ✓ | ✓ | ✓ | ✓ |
| Color Editor | ✓ | ✓ | - | ✓ |
| Profile Manager for ICC profiles | ✓ | ✓ | - | ✓ |
| Edit profiles | ✓ | ✓ | - | ✓ |
| Device Link profile support | ✓ | ✓ | - | ✓ |
| Calibration | | | | |
| Calibrator | ✓ | ✓ | ✓ | ✓ |
| ColorCal (with autogray) | ✓ | ✓ | - | ✓ |
| ES-3000 support | ✓ | ✓ | ✓ | ✓ |
| Calibration comparison page | ✓ | ✓ | - | ✓ |
| User Defined Calibration | ✓ | ✓ | - | ✓ |
| Calibration Guard | ✓ | ✓ | ✓ | ✓ |
| Job-based calibration | ✓ | ✓ | ✓ | ✓ |
| Fiery Graphic Arts Pro Package | ✓ | • | - | - |
| Fiery ImageViewer | ✓ | • | - | - |
| Fiery Spot Pro | ✓ | • | - | - |
| Fiery Preflight Pro | ✓ | • | - | - |
| Fiery Postflight | ✓ | • | - | - |
| Fiery Control Bar | ✓ | • | - | - |
| Standard color and imaging features | | | | |



| Paper Simulation (white point editing) | ✓ | ✓ | - | ✓ |
|---|-----|-----|-------------|-----|
| Halftone simulation w/ freq. per color | ✓ | ✓ | - | ✓ |
| 2-color print mapping | ✓ | ✓ | - | ✓ |
| Configurable Auto Trapping | ✓ | ✓ | - | ✓ |
| Graphic arts filters for Fiery Hot Folders | ✓ | ✓ | - | • |
| Fiery ColorRight Package | - | - | - | • |
| Fiery ImageViewer | - | - | - | • |
| Fiery Spot Pro | - | - | - | • |
| Fiery Image Enhance Visual Editor | - | - | - | • |
| Fiery Postflight | - | - | - | • |
| Fiery Control Bar | - | - | - | • |
| Fiery ImageViewer for black and white | - | - | √(b&w only) | - |
| Fiery Color Profiler Suite | • | • | - | • |
| ES-3000 spectrophotometer | • | • | • | • |
| Certifications | | | | |
| Idealliance Digital Press System | SFM | SFM | - | SFM |
| FograCert | SFM | SFM | - | SFM |

√ Standard

⊙ Option

- Not Available

SFM = See product-specific feature matrix

Integration with Adobe PDF workflows

Adobe PDF Print Engine

Adobe's PDF-based RIP, Adobe PDF Print Engine, enables direct PDF RIPping without conversion to PostScript, avoiding potential errors for PDF files that contain transparencies.



Fiery and Adobe have partnered to offer industry-leading print solutions by integrating the PDF rendering technology with the Fiery server. By combining Adobe interpreter technology with a proprietary Fiery software rendering engine, the Fiery server yields dramatically faster processing speeds for even the most complex files.



This support offers users a native end-to-end PDF workflow, and helps them improve the consistency and flexibility of the printed output from design to print.

Fiery FS600 Pro servers include version 6.0 of the Adobe PDF Print Engine interpreter, which includes support for PDF/X-6 and PDF/VT-3 files.

Adobe PDF Print Engine is available as an optional feature for Fiery FS600 servers as part of the Fiery JobExpert and PDF Processing Kit.

For additional information on Adobe PDF Print Engine, visit this web page.

Fiery servers offer extended support for PDF Print Engine that enabled them to be the first to pass the Perfect PDF standards defined by the VIGC group in 2012. This is important to professional print providers. In addition, Fiery servers provide support for sophisticated print settings such as:

- Print Gray Using Black Only to print any gray component of a job using only black toner, saving money for unnecessary color clicks.
- Applying different halftones for text, graphics, and images to optimize the image quality to those particular types of elements
- Fiery HyperRIP to achieve dramatic performance improvements by processing multiple jobs or multiple segments of the job simultaneously
- Substitute Colors and Fiery TrueBrand to match brand colors in Microsoft Office documents

The PDF Print Engine interpreter is offered in addition to the Fiery PostScript (CPSI) interpreter.

This dual interpreter configuration is standard for external Fiery servers. This feature guarantees workflow interoperability. It also gives users the option to process PDF files using either the PDF Print Engine or PostScript interpreters with a simple click of the mouse, and to meet the specific print output requirements.

Feature at a glance:

It supports PDF 1.3 and above; PDF/X-1a, 3, 4; and PDF/VT. (These formats also are supported in the PDF-to-PostScript converter with CPSI.)

Job submission methods supported include Fiery Hot Folders and File/Import from Command WorkStation.

PostScript and PDF Print Engine workflows are simultaneously enabled, and users can choose between them.

Unlike other RIPs, Fiery servers have been offering the benefits of PDF Print Engine for many years. The Fiery PostScript interpreter incorporates extensive and unique PDF capabilities to address the issues that designers and printers face today in producing creative, effective, and accurate documents. Because of this, there are few differences in the print results of PDF Print



Engine and Fiery PostScript interpreters. However, there are ideal print environments for a PDF Print Engine-enabled workflow, including the following:

- The print provider that uses a pure PDF workflow and requires PDF documents to remain device independent throughout the entire workflow
- The print provider that frequently prints designs containing transparencies, especially when the transparency interacts with black backgrounds
- The shop that wants to unify offset workflows operating with PDF Print Engine with digital print workflows to ensure that the designer's intent is accurately reproduced on both types of press
- The print provider that prefers to perform job submission using Fiery Hot Folders or File/Import to Command WorkStation.

Comparison: functionality by Adobe interpreter on the Fiery server

| | PDF Print Engine (APPE) | PostScript (CPSI) | |
|---|--|---|--|
| Supported file formats | PDF 1.3 and above; PDF/X-1a, 3, 4; PDF/VT -1, 2, 3; FreeForm Plus | Same as PDF Print Engine, plus PostScript, TIFF, EPS, VDP (PPML 3, VIPP, VPS, PDF/VT -1 and 2 compatible) | |
| Job submission methods | Fiery Hot Folders Drag and drop to Command WorkStation FTP printing | Same as PDF Print Engine, plus: Fiery driver Virtual Printers Email printing | |
| End-to-end PDF workflow | Yes | CPSI accepts PDF jobs and converts them into PostScript. Although the job format changes, Fiery CPSI provides "what you see is what you print" results. | |
| Full-fidelity desktop previewing | Yes, it reduces unwanted surprises and disruptive, last-minute prepress fixes in digital and variable print workflows. Jobs that include transparencies, mixed color spaces, and layers are accurately reproduced. | Yes. Fiery CPSI is a PDF/X-compliant interpreter, which guarantees that the printed results are delivered under the PDF/X specifications. This feature ensures consistent print previews and proofs for VDP and non-VDP jobs. | |
| JDF compatibility | Yes | Yes | |
| PDF optimization for VDP and non-VDP jobs | Yes It supports PDF/VT, the standard format for VDP file exchange (ISO 16612-2), and enables caching of repeating elements. | Yes It supports PDF/VT, the emerging standard format for VDP file exchange (ISO 16612-2), and enables caching of repeating elements. | |

PDF 2.0 specification

The 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, color 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 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.

Benefits:

- Offers a comprehensive solution for job-management and job-preparation tasks
- Guarantees consistency in preview and print by supporting native PDF workflow from creation to final output
- Saves time by eliminating the need to convert or flatten content prior to submitting the job to Fiery server
- Uses the same files for offset, digital, and VDP allowing the same PDF file to have a consistent output among print devices

Fiery JobExpert and PDF Processing Kit

The Fiery JobExpert and PDF Processing Kit is available for Fiery FS600 embedded servers. The Fiery JobExpert and PDF Processing Kit enables the following:

- 1. Native processing of PDF files with Adobe PDF Print Engine.
- 2. Fiery JobExpert, which automatically sets the optimal Fiery job properties to achieve the highest print quality with the fastest processing time.
- 3. Processing of PDF/VT-1 files. Support for PDF/VT brings the benefits of a PDF workflow to VDP, which helps print providers increase production efficiency with capabilities such as late-stage exchange of critical variable content. The system processes PDF/VT files by detecting records defined in the PDF/VT job and caching reusable XObjects, which enables the Fiery server to RIP repeated elements only once, then cache them. PDF/VT-1 files can be created using VDP authoring tools such as XMPie, FusionPro, or ePS MarketDirect VDP.

Benefit

- Ensures consistent, predictable output in an end-to-end Adobe workflow
- Compatible with PDF 2.0 industry standard
- Keeps files in native PDF format when processing to print, eliminating possible PostScript conversion issues
- Automatically sets optimal Fiery job settings, reducing setup time and waste
- Produces the highest output quality: properly prints transparencies and small text, honors embedded profiles, and much more



 Folds seamlessly into existing PDF-based prepress operations, enabling a single common PDF print production workflow for all job types

CPSI 3020

Fiery FS600 and FS600 Pro servers provide support for the latest PostScript interpreter from Adobe.

Benefit

• Fiery servers keep customers up to date with support for the latest industry standards.

Color management settings

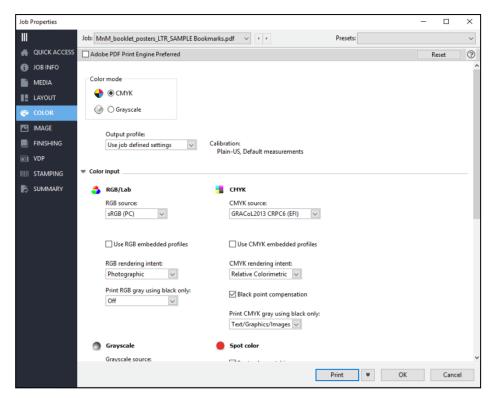
Fiery color management settings give the user maximum control over color matching and matching to industry standards. Settings can be configured to accurately simulate conventional press standards, other toner devices, inkjet production print systems, or specific conventional presses. The color management technology included in every Fiery server supports any input color space including CMYK, RGB, spot color, and device-independent. Controls allow operators to use embedded ICC source profiles, and to configure the system for perfect output of industry-standard PDF/X-4 files. Fiery servers deliver top-quality out-of-the-box color and have an intuitive and easy-to-use interface for configuring color management settings.

High-precision ICC-based color management

With Fiery servers, color processing takes place only once, in RIP at the Fiery server – not at a client computer or prepress station. The process is fully automatic, so there is no need to manually configure color management settings each time a job is sent to the print system. Fiery color management technology doesn't rely on the skills of each press operator to configure color settings. Once configured, the correct settings are applied consistently to every job. Fiery servers manage color quality quickly and intelligently and provide users the ability to automate color workflows that run smoothly and consistently.

Fiery color features allow print jobs to be submitted faster, which in turn can free up client workstation(s) for greater productivity. Fiery color management technology also allows customers to use any source software application or operating system and supports virtually any file format.





Fiery color setup in Fiery Command WorkStation

ICC-based color management for precise color matching

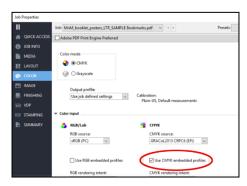
Fiery color technology offers great out-of-the-box color with features that color manage source files to deliver stunning color prints quickly, easily, and consistently. Fiery servers use ICC profiles for accurate color printing from professional design applications, or from office software applications such as Microsoft Excel, PowerPoint, and Word. Users can select standard ICC profiles on the Fiery server for source color spaces, and use top-quality factory output profiles for the type of paper the job will run on. The Color Editor allows users to edit the tone curves in Fiery output profiles to provide visual matching or correction if required.

- Achieves maximum color control
- Minimizes user errors with an easy user interface
- Provides excellent color quality for professional digital color production
- Shortens learning curves with intuitive controls and a unified interface with the Fiery print driver



Embedded profile override

Many applications offer ways to embed ICC profiles so that colors can be properly converted later in the workflow. For documents with a variety of color spaces defined by separate color profiles, Fiery servers can respect the source color profiles embedded in a document. The checkbox, Use embedded profile when present, specifies whether the server should use embedded color profiles or ignored them for RGB and CMYK sources.



"Use embedded profile when present" setting in Job Properties

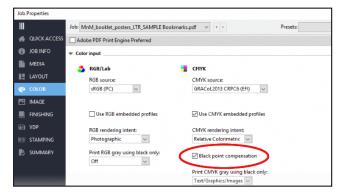
Benefits

- Gives users the flexibility to handle a variety of input color spaces based on embedded ICC source profiles
- Ensures that printed output will match the expectations of the document creator by using the embedded profiles in design documents

CMYK black point compensation

CMYK black point compensation uses Fiery color management to control shadow detail when converting CMYK colors. This is especially useful for images with standard CMYK gamut sources such as ISO Coated V.2 or GRACoL. These are printed on low-quality media that deliver a smaller CMYK gamut, such as plain, uncoated paper.

When proofing small-gamut CMYK sources such as newsprint, users can disable the feature to more accurately render colors as



Black point compensation setting in Job Properties and Fiery
Driver

they would appear with the reduced color gamut of such a press. Black-point compensation is always enabled for RGB color objects being color managed with the relative colorimetric rendering intent.

- Guarantees perfect PDF/X-4 output, or to pass the Altona and Ghent test suites
- Enables user to proof color for small-gamut processes such as printing on newsprint



Halftone simulation – with frequency per color

When final document printing is done on an offset press, operators may want to simulate the final halftone screen that will be used to generate conventional films or plates.

The Halftone Simulation feature allows users to print simulated halftone dots, and to define the custom screening parameters that will be applied to their print jobs.

Halftone Simulation includes three halftone screen parameters:



- 1. Lines per inch for each color
- 2. Screen angles for each color
- 3. Custom or application-defined dot shape

Benefits:

- Combines with the Paper Simulation feature, allowing users to simulate conventional press output for proofing
- Allows users to make adjustments before plating the job
- Provides accurate simulation of the screened appearance for newspapers and packaging

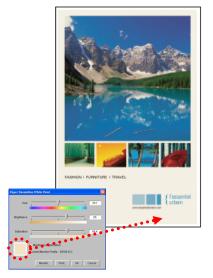
Paper simulation with White Point Editing

When printing proofs, it is sometimes desirable to simulate the color of the paper that will be used on the actual press run. Users can find the White Point Editing feature in Device Center, after selecting Edit on a given profile. It provides users with intuitive tools to enter and edit the white point of a CMYK source profile so they can simulate a different paper white than that of the source profile when proofing.

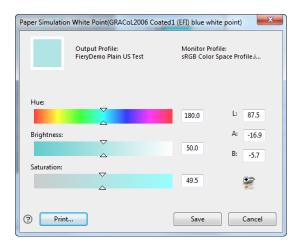
Paper simulation with ES-3000

Paper simulation editing enables more accurate simulation of special media such as newsprint and packaging. Before, users had to manually enter the L*a*b values defining the white point of the paper. Operators can use an ES-3000 spectrophotometer to read the white point value of the

paper and populate the L*a*b values directly into the Paper Simulation feature.







ES-3000 is used to measure the media white point.

In addition, the feature:

- Allows the user to fine-tune the hue, brightness, and saturation of the simulated paper
- Downloads a custom CMYK simulation profile with the white point edit

Benefit:

 Allows users to create custom paper simulations to match the paper white point of special media, then store and reuse those simulations for specific customers and/or print applications

Color management automation

Fiery color management automation is a combination of two features that work in harmony to effortlessly achieve great color for users of all experience levels. Media can be calibrated and profiled in just a single step; then fully-automated, hands-off recalibration keeps color consistent for users of inline measurement instruments – all within Fiery Command WorkStation.

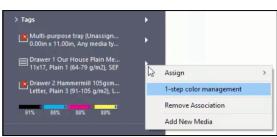
 ${f \textcircled{1}}$ Engine-specific features: check Fiery server materials to confirm support

1-step color management

This revolutionary media color management feature combines calibration and media profile creation into one single action. A right-click from the chosen media tray guides users through the short wizard-driven color management process. New media is now ready for production in just 4 clicks. The operator doesn't have to make any decisions to create a high-quality custom calibration and profile.

Once a media is "known" to Fiery Command WorkStation, the process of maintaining great results is even faster, with only a recalibration needed when initiating 1-step color management.







1-step color management initiated for the media tray

A new calibration and media profile completed in 3 clicks

This feature works with both handheld and inline measurement instruments, though inline instruments provide the highest level of automation.

Benefits:

- Automates and streamlines the process of media color management.
- Reduces the time it takes to create a calibration and profile by over 60% compared to previous methods.
- Easily delivers the best possible gamut and quality for all media.
- Requires no color management expertise to get excellent results.
- No need to step out of the Fiery Command WorkStation workspace to get media ready for production.
- Includes the option to fully automate G7 Grayscale calibration.

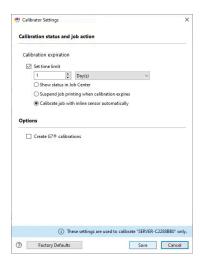
Zero-touch recalibration

Zero-touch compliments the 1-step color management feature to deliver scheduled, fully automated, unattended recalibration.

For use with inline measurement instruments, it lets users schedule recalibration at any interval that suits their print environment, per media type. Because this feature takes advantage of inline measurement instruments, operators don't need to intervene to get color back to the defined state established by 1-step color management. So, it delivers a fully "hands-off" media color calibration solution.

Benefits:

• Fully automatic and hands-free recalibration with no need for operator intervention to keep color results on track.





- Guaranteed accurate and consistent results automatically with no need for operators to remember to perform recalibration routines.
- No need to manually halt production to take care of media recalibration.

Calibration

Fiery Calibrator

Digital print engines are susceptible to gradual shifts in color caused by changes in temperature and humidity, and fluctuation in CMYK toner or developer levels. To compensate for these variations, the print system needs to be calibrated back to a standardized color appearance. Users can do this by re-calibrating for paper stocks at regular intervals, or before printing jobs with critical color requirements. When the user re-calibrates, the Fiery server corrects for the current color behavior of the print engine.

Fiery Calibrator gives more visibility into a job's calibration status and allows users to see details of the calibration set for each paper stock – including the date the set was last calibrated. From Fiery Calibrator, users can also create calibration sets for new paper types. This is especially valuable if they are not using Fiery Color Profiler Suite for the end-to-end creation of a calibration set and output profile for a new paper.



Fiery Calibrator

For best results, Fiery servers should be calibrated with a Fiery ES-3000 or ES-6000 spectrophotometer.

Benefits:

- Increases color consistency by calibrating for specific media
- Saves time by allowing users to calibrate for the media they need at the time they need it
- Helps operators achieve consistent print quality with a user interface that makes the calibration process easy

Fiery ES-3000 and ES-6000 spectrophotometers

Fiery recommends the ES-3000 spectrophotometer for calibrating Fiery Driven print systems. Using a spectral measuring device ensures the best color precision and takes just a few minutes.





The Fiery ES-3000 is supported natively by FS600 Pro/FS600 servers. The ES-3000 can be chosen within Fiery Command WorkStation for use with Fiery Calibrator, Fiery Measure, Fiery Verify, Fiery Spot Pro, Fiery Spot-On, plus the paper simulation features within Fiery Command WorkStation.

The ES-6000 is a network-connected scanning spectrophotometer that reduces the time and effort required to color manage multiple print systems.

Learn more about Fiery spectrophotometers at the webpage.

Benefits:

- Provides best print consistency over time, so that reprints match the first time a job was run
- Increases operator efficiency, since a control strip does not need to be placed on the print engine scan bed to measure calibration pages
- Enables calibration for print systems that do not have an off-the-glass scanning option

Any user can calibrate

Administrators can increase productivity by letting any user calibrate. Because calibration functions are separate from management functions, administrators do not have to be concerned that an operator may accidentally change or modify system preferences or global settings.

Benefits:

- Allows users to calibrate frequently and efficiently so that color output quality and system productivity are enhanced
- Ensures these same users do not have control over global color settings for the print system

Calibration Guard

Fiery servers have the Calibration Guard feature to ensure that the calibration in use is current.

If a calibration has expired, Calibration Guard can warn the user or prevent jobs from printing to ensure color consistency.

To configure Calibration Guard, administrators enable the feature, specify the duration for which a calibration can remain valid, and whether to warn users or stop printing until they do a recalibration.

- Saves money and resources by not printing jobs with expired calibration
- Forces users to calibrate at regular intervals, or printing is suspended until they re-calibrate



Set time limit and display status in Device Center setting in Calibrator preferences



Job-based calibration

Job-based calibration increases accuracy and efficiency because users can be sure to re-calibrate for the calibration set used by a specific job. This is especially important for jobs that use non-standard media, because most users do not routinely calibrate special media. To calibrate for a specific job, users simply select the job in the Hold queue and select Calibrate. The Fiery Calibrator Wizard opens to guide the user through the calibration process, considering calibration for multiple calibration sets in jobs that use mixed media.

Benefits:

- Improves color consistency by re-calibrating for the specific media(s) a job uses
- Increases efficiency as users calibrate the media they need at the time they need it

Grayscale calibration

Grayscale calibration is a standard software feature for black-and-white Fiery servers, and requires the use of an ES-3000 spectrophotometer.

Similar to color calibration, grayscale calibration measures tonal variance from the desired target and compensates for the print engine variance when printing a job. On a regularly serviced engine, calibration will compensate for daily variances due to temperature, humidity, and paper stock.

Calibration provides consistency over time and ensures that a file



Before calibration



After calibration

printed today will match when reprinted. Grayscale calibration optimizes the dynamic range of the print system to render detail in images from the darkest shadow to the lightest highlight. It ensures that prints do not "plug up" in shadow regions.

Grayscale calibration can improve overall tonality, even on low-quality papers, and helps to reveal details for a higher print quality.

- Maintains a precise match to the ideal tone reproduction
- Ensures reprints of a file match the original run



Preserves and enhances detail in shadow areas

Inline measurement device support for calibration

Many cutsheet print engines include built-in inline measuring devices that can automatically measure color patches, rather than manually measuring them after printing.

Fiery Command WorkStation supports these inline measurement devices for calibration and, in some cases, for profiling purposes making the routine calibration process much faster and easier.

This guide covers inline measurement for calibration. To learn more about profiling support, visit the Fiery Color Profiler Suite web page at www.efi.com/cps.

There are three types of inline measuring devices:

- 1. Inline spectrophotometers read color patches on paper, return spectral measurements, and can be used for both calibration and profiling purposes.
- 2. Inline scanners and colorimeters read color patches on paper and can be used for calibration purposes. In contrast to spectrophotometers, inline scanners can only return RGB values and therefore are not recommended for profiling or color verification.
- 3. Belt sensors read color patches on the belt, provide density measurements, and can perform automatic calibration updates that don't necessarily replace a recalibration process, but can maintain system calibration for a longer time.

Inline measurement devices can be used to:

Recalibrate

These calibration sets are also compatible with the ES-3000 spectrophotometer or other instruments supported by Fiery Color Profiler Suite.

The recalibration process doesn't require the user to measure the calibration patches manually, making the calibration process much faster and simpler.

Create new calibration sets

The calibration process with inline measurement devices offers a faster calibration process that doesn't require much operator training or skilled knowledge and reduces errors. In the case of inline spectrophotometers, it also doesn't require investment in additional measuring devices.

Automatic calibration updates

Some print engines without an inline spectrophotometer or an inline scanner can take advantage of their belt sensors to automatically update calibration sets with the current state of the engine, without any operator intervention. The update process is performed every time the engine



requires self-adjustment. These automatic updates only affect the factory calibration settings (coated and uncoated).

All print engines have belt sensors that are used by the engine during warm-up, and for periodic self-adjustment procedures to bring engines back to a stable stage. Some belt sensors can retrieve and send measurement data to the Fiery server. With this data, the server updates its own calibration.

Automatic calibration updates offer the following benefits:

- Produces consistent output for a longer time without the need to recalibrate as often
- Print environments such as offices can rely on more consistent output without calibrating as frequently
- The support of inline spectrophotometers and scanners for calibration is also available in Fiery Color Profiler Suite and doesn't require software licensing.

Consult your Fiery server user manual to learn the instrument support and capabilities for a specific Fiery server and print engine combination.

Inline measurement device support table

| Inline measurement device | Recalibration | Create new calibration sets | Profiling | Automatic calibration updates |
|---|---------------|-----------------------------|---------------------------------|--|
| Inline spectrophotometers | Yes | Yes | Yes | N/A. Only by engine |
| Inline scanners Some models require a spectrophotometer such as ES-3000 to calibrate the RGB scanner for each paper type on first use and periodically thereafter. | Yes | Yes | Yes, but with limited precision | N/A. Only by engine |
| Belt sensors | N/A | N/A | N/A | Yes. Done by engine and synchronized with Fiery calibration measurements |

Calibrator improvements

The latest Fiery calibration technology is the default calibration tool for FS600 Pro/FS600 servers

- Provides direct access to G7 Grayscale calibrations from within Fiery Command WorkStation with no need to open Fiery Color Profiler Suite for faster calibration
- Allows the switching of measurement modes per instrument for more accurate results
- Uses Fiery Measure technology which allows the dynamic adding of new instruments and workflows to keep print rooms current



Fiery Color Profiler Suite

Fiery Color Profiler Suite, a set of additional color management tools, allows users to make custom calibration sets and output profiles for the specific press and paper in use. While factory-default profiles give pleasing quality, custom calibration and profiling provides the best color precision to match spot colors and print industry standards. It extends the color capabilities of Fiery Driven printers with the most advanced color management tools



available, and makes the process easy through integrated communication with the Fiery server. Fiery Color Profiler Suite offers modular functions, to ensure color accuracy and consistency across all types of media while increasing productivity and return on investment.

For more information on the Fiery Color Profiler Suite, visit the webpage.

Integration with Fiery Color Profiler Suite

Fiery Color Profiler Suite makes world-class display and output profiles for Fiery systems. Users can also create Device Link profiles using iterative measurement and optimization technology to achieve additional precision.

Color Profiler Suite supports the Fiery ES-3000 and ES-6000 spectrophotometers, plus a variety of third-party spectrophotometers. It provides tools that allow any user to create output profiles and linked calibration sets, verify color precision, match multiple Fiery Driven engines, compare color gamuts, and edit profiles. The suite is the only set of profiling tools that is tightly integrated with the DFE to make output profiles, spot-color tables, and device link profiles directly on the Fiery server.

Benefits:

- Create custom output profiles specific to your press, paper, and preferred print settings
- Match industry standards such as ISO Coated v.2 and GRACoL more easily and precisely
- Verify color match to the reference from day to day
- Improve spot color matching by measuring samples and optimizing
- Create monitor profiles for soft proofing.

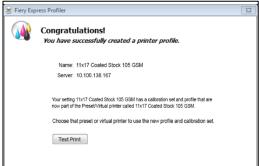
Color Profiler Suite With Fiery Edge Technology CERTIFIED System CERTIFIED System CERTIFIED System CERTIFIED System System CERTIFIED System System

Fiery Express Profiler

The Fiery Express Profiler offers a simple five-step process to make a custom calibration set and output profile on a Fiery server. At the end of the profiling workflow, it creates a server preset and Virtual Printer to ensure the user can access the new profile and calibration, along with the print settings the profile was created for.







Fiery Express Profiler minimizes operator errors when selecting the correct profile and print settings for a job

Color profile use tracking

The Fiery Job Log includes job output profile information. Output color profile information is shown in the Job Log for reporting from Fiery Command WorkStation and is also available for analytics in Fiery IQ.

The log will include all profiles used for a particular job. It will display both the front side and back side profiles where different, plus any profiles used for mixed media exception pages.

Superior out-of-the-box results include:

- Allows operators to keep a full track of profiles being used
- Makes trouble shooting of color issues easier
- Assists with color matching historically printed jobs

Fiery Edge next-generation color profiling technology

Fiery Edge™ is the latest and most advanced Fiery color profiling technology. Most Fiery FS600 Pro color 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:

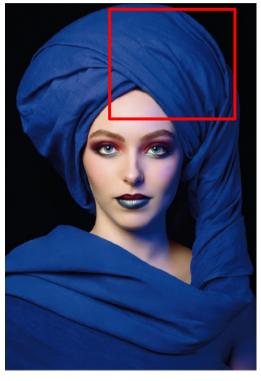
- Smoother color transitions and blends
- Enhanced shadow detail in neutral and chromatic areas
- Better blacks for more dynamic range
- More image definition, depth, and clarity
- Better rendering of RGB images containing blues and reds



More controls with Fiery Color Profiler Suite:

- Maximize shadow details
- Create smooth color-to-black transitions
- Produce the best possible dynamic range





Richer blue, more detail in head scarf

Without Fiery Edge

With Fiery Edge

For more information, watch the Fiery Edge <u>video</u>, enroll for <u>Fiery Edge eLearning</u>, or visit the <u>webpage</u>.

Fiery spot colors

PANTONE Color Enabled

Fiery and PANTONE® have a long-established partnership to provide the best spot color tools and workflows for print providers. Fiery FS600 Pro servers have the PANTONE Plus v4 libraries preinstalled, though both newer and older libraries are available at the <u>Fiery webpage</u>. Loading the latest PANTONE libraries on a Fiery server ensures that spot color output is accurate and consistent for all print jobs.





State-of-the-art spot color matching

PANTONE Color Enabled Fiery servers automate the color matching process from job submission to output. This automation eliminates guesswork and costly rework by controlling how colors will print.

The built-in color lookup tables in the Fiery system automatically convert the PANTONE color to optimized CMYK tints, based on the output profile for the paper that will be used. Operators can use Fiery Spot-On or Fiery Spot Pro to further fine-tune the output of any PANTONE color.

Fiery servers take the guesswork out of color matching with an intuitive interface that makes it fast and easy to define or modify spot colors, eliminating the time-consuming task of making test prints to experiment with spot color formulas. They reduce the potential for error by allowing users to create libraries of custom colors for use on other Fiery Driven print systems. And, with both Substitute Colors and Fiery TrueBrand, users have a way to get the most accurate brand color output from Microsoft Office applications.

Spot color libraries included in every Fiery FS600 Pro server:

- PANTONE libraries: Includes the PANTONE PLUS v4
 SERIES and PANTONE FASHION + HOME libraries
- HKS, DIC, and TOYO Ink spot color libraries: Includes the spot colors used in Europe (HKS) and Asia (DIC and TOYO)
- PANTONE color libraries and color reference charts

The Fiery system currently supports several PANTONE color libraries, including:

- PANTONE PLUS v4 Coated
- PANTONE PLUS v4 Uncoated
- PANTONE FASHION + HOME



The latest Pantone libraries are always available for download from fiery.com

PANTONE PLUS v2

Fiery FS600 Pro servers enable users to reproduce even more PANTONE colors accurately, with built-in support for the PANTONE PLUS v4 and PANTONE FASHION + HOME libraries. The PANTONE PLUS v4 library provides updated color definitions for legacy PANTONE Coated Second Edition colors, and additional colors included in all latest versions of PANTONE PLUS LIBRARIES, including the 294 colors introduced in late 2019.





- Meets the brand-color expectations of demanding customers
- Properly matches the latest PANTONE colors, including new colorimetric definitions

Users can also download the full array of PANTONE libraries, including the updated PLUS SERIES of the PANTONE MATCHING SYSTEM® with 294 new colors, from the Fiery webpage.

Fiery Edge spot color processing

Fiery Edge spot color processing is a new spot color technology available by default on all Fiery FS600 Pro servers.

- It can produce up to 20% dE 2000 improvement in spot colors near or outside of the gamut for CMYK printers.
- CMYK+ printers can achieve up to a 40% improvement in dE values for spot colors near or outside of the gamut.

Users may also see a dE improvement for in-gamut spot colors for both CMYK and CMYK+ printers, though visual changes may be small.



Benefit:

• Improved spot color accuracy, especially for out-of-gamut colors

Fiery spot color management tools

From corporate branding to high-level color matching in commercial print settings, it's essential to print consistent, predictable brand colors the first time, every time. With the growth of digital workflows, more users are able to create and influence color in documents. This level of control does have drawbacks, such the misuse of color naming and callouts. These mistakes can lead to bottlenecks in prepress and proofing.

Fiery servers offer two methods for managing spot colors: Fiery Spot-On and Fiery Spot Pro.



Fiery Spot-On

Fiery Spot-On is the baseline spot color management tool included with color Fiery FS600 Pro/FS600 servers. It provides a graphical user interface to help zero in on the CMYK tints needed to match a desired spot color on a given printer and media. It also lets users create custom spot colors with specific names. With Fiery Spot-On, users can achieve accurate color matching for spot colors used in logos and branding with spot color libraries such as PANTONE, HKS, TOYO, and DIC.

Fiery Spot-On delivers accurate color matching for corporate and other spot colors more easily and quickly than competing color editors.

Built-in spot- and substitute-color capabilities

Fiery Spot-On offers sophisticated capabilities for spot-color matching, including:

- Enables the user to edit spot color conversions to better match a customer's preference
- Allows users to create and manage new spot colors and collections of spot colors
- Captures new spot colors using an ES-3000 spectrophotometer
- Provides tools to visually select a better match to a desired spot color

Spot color management

Fiery Spot-On allows users to edit CMYK values associated with named colors, so they can achieve better color matches. It provides a graphical user interface to help the user zero in on the exact CMYK tints needed to match a desired spot color for a given print condition.

Spot color group priority

Spot color group priority enables users to easily ensure that custom spot color representation is honored, to satisfy customers' expectations.

This is very useful for print providers that frequently edit the appearance of specific spot colors to match the expectations of print buyers. These spot color edits are saved as new groups of colors using the Spot-On interface in Device Center.

The spot color group priority feature allows users to set which of the color libraries in Spot-On takes priority for a given job from the Color tab in Job Properties or Fiery driver. This means that, if the requested spot color adjustment for one customer is created in a custom spot color library, the library can be given priority when printing that customer's jobs – without forcing the spot color edit for all future print jobs. This is also beneficial when print providers have multiple customers requesting different edits to the same spot colors.



Define color library order by job with spot color group priority



This feature can save a lot of time because users don't need to constantly check the order of the color libraries or groups in Spot-On.

Substitute Color

The Substitute Color feature allows users to map RGB or CMYK values to a defined set of CMYK values in the Spot-On library. This is useful for applications, like Microsoft Office, that do not support spot colors.

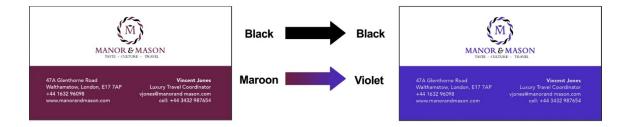
Benefits:

- Delivers corporate color matching from Office applications
- Allows late-stage spot color correction and replacement for spot colors that were converted to process in error when producing the print job
- Eliminates spot color rework with late-stage color editing, without opening the native application files

2-Color Print Mapping

When artists design two-color jobs that will run with black and one spot color, they might not always know the spot color at the design stage.

The 2-Color Print Mapping feature allows users to replace the black and magenta of a two-color job with the required spot colors, without modifying the original job.



Benefits:

- Ensures accurate spot color matching from Fiery Spot-On when printing the final spot colors
- Allows for last-minute decisions about spot colors

Fiery Spot Pro

Fiery Spot Pro is an advanced spot color management tool for production environments to ensure that brand colors reproduce correctly, every time. It is available with the optional Fiery Graphic Arts Pro Package and Fiery ColorRight Package.

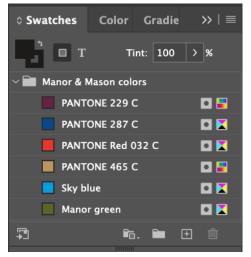
Spot Pro offers all the capabilities of Spot-On, plus extensive features designed to help production customers meet the highest client spot color expectations.

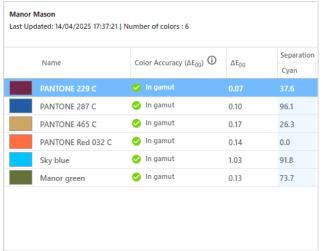


Spot Pro feature highlights include:

Share swatches with designers

Export spot color groups as Adobe Swatch Exchange (.ase) files for seamless import into Adobe Creative Suite apps. Designers can also send .ase files back to print providers, ensuring the print matches the design intent. Spot color groups can also be exported from Spot Pro as .cxf or .icc files.





Adobe InDesign

Fiery Spot Pro

Benefit:

• Ensure consistent custom and Pantone color matching across design and production

To learn more about sharing swatches with designers, watch the video.

Spot color alias

Users can create an alias that maps one named spot color to another named spot color.

In the example to the right, a spot color named "Fiery red" can be mapped to PANTONE Red 032C.

To learn more about using a spot color alias, watch the video.

- Ensures spot color consistency from design to print designers can use simple named colors, and the print service provider can create an alias to map those named colors to the correct spot color value
- Edits to specific spot colors are mapped to any corresponding alias colors

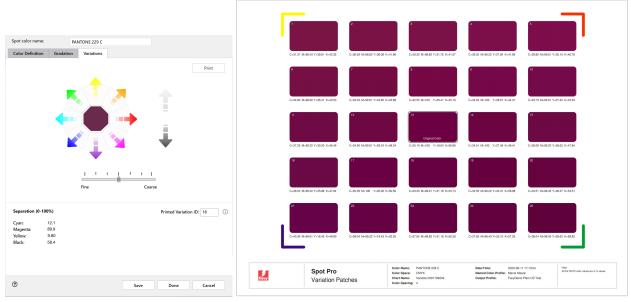




Spot Pro Variations

Spot Pro Variations* provides a way to visually choose the best match for a spot color. While Spot-On also offers a variations workflow, Spot Pro Variations offers additional features:

- Adjust brightness/darkness levels
- Print variations patches for multiple colors
- Patches include a number for easy reference to apply that value in the Spot Pro application
- Patches will display dE if the patch page has been measured with a spectrophotometer
- Supports CMYK+ and specialty colors in patches**



Spot Pro Variations interface

Spot Pro Variations patch page



Close up of a patch that has been measured and displays dE

To learn more about Spot Pro Variations, watch the video.

Benefit:

• Clients can have a specific idea of how a spot color should look, which may not always be based on technical accuracy

^{*}Requires Command WorkStation 7.0 or higher **Requires Command WorkStation 7.1 or higher



Spot color optimization

It's easy to optimize any set of spot colors for a specific profile, using a subset of swatches. For example, users can choose to optimize one or more spot color groups, or all spot colors, in just one step. This saves time and makes it easier to ensure that spot colors are optimized for a desired profile and media.

Users can optimize spot colors two different ways:

- Using a spectrophotometer like the ES-3000 or ES-6000
- Supported press inline instruments enable an automated, hands-free spot color optimization workflow from start to finish. View supported presses <u>here</u>.



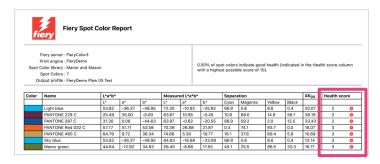
Benefit:

Ensure consistent spot color output across different media types

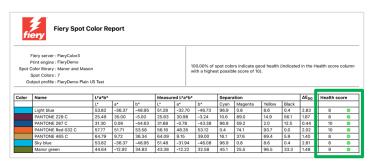
Spot color checkup

Spot color checkup provides a clear, measurable way for users to monitor and maintain accurate color reproduction. The spot color report indicates how well a press is printing each spot color.

Low scores signal when recalibration or a new profile may be needed, before issues impact production. High scores confirm that the press is properly calibrated and colors are within tolerance, providing confidence in output quality. Low scores help identify potential problems early, reducing the risk of reprints or client dissatisfaction.



Low scores indicate that the Fiery server needs to either recalibrate or make a new profile.



After calibration, the scores have improved significantly.



By using these reports proactively, users can maintain brand color consistency across all jobs and media, improve production efficiency, and ensure customer expectations are consistently met.

Benefit:

• Prevents unnoticed spot color drift and rework

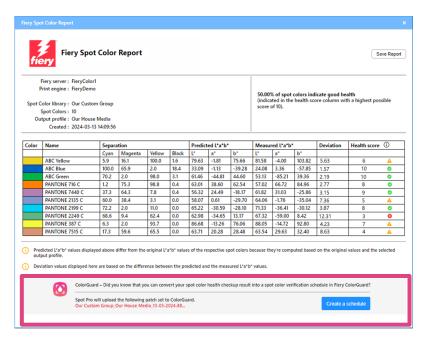
Scheduled spot color verification

Fiery Spot Pro integrates with Fiery ColorGuard to automate spot color verification to keep colors consistent over time.

Spot color checkups in Spot Pro can be turned into a spot color verification schedule in ColorGuard. This proactive approach helps stop problems before they start. Scheduled checks and recalibrations can catch potential color drift early, helping avoid costly reruns later.

This feature requires Fiery ColorGuard subscription.

To learn more, watch the video.



With a ColorGuard subscription, Spot Pro users are prompted to turn spot color checkups into scheduled spot color verifications in ColorGuard.

Benefit:

Proactively catch and fix color issues before they impact jobs

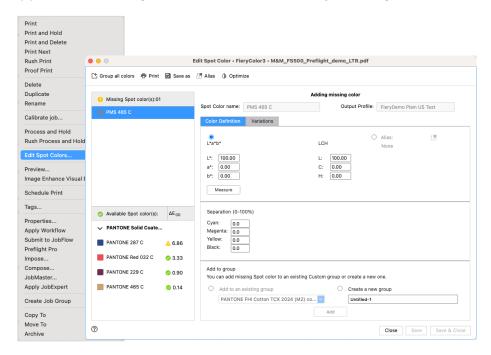


Job-based spot color editing

With Fiery Spot Pro, users have a fast, intuitive way to edit spot colors in a PDF directly from Fiery Command WorkStation—without needing to launch the full Spot Pro application.

The interface displays a list of spot colors in the file, along with their availability on the Fiery server. For available colors, users can view the Delta E (dE) value and whether each color is in gamut. If a color is out of gamut, it's easy to create an alias to a more accurate match.

Users can optimize spot colors, print swatch books, export spot colors as an .ase file, or create a new spot color group. Any optimized colors are automatically reflected in the Spot Pro application, ensuring consistent results on future jobs using the same media.



Job-based editing interface in Command WorkStation

To learn more, watch the video.



Configurable Fiery Edge spot color processing

Users with Fiery Spot Pro can take advantage of configurable options in Fiery Edge spot color processing to:

- Achieve a cleaner color appearance
- Reduce the amount of ink/toner used in spot color recipes
- Disable Fiery Edge spot color processing technology

Cleaner color appearance

In Fiery Spot Pro, operators can configure available

Fiery Edge spot color processing options to produce a cleaner color appearance. They can do this by either removing a color from a spot color recipe that contains a very low value (Remove contaminations), which is most noticeable in light colors. Or they can use 100% of a color in a spot color recipe when it is already 95% or higher (Fill tone values above 95%), which avoids white stippling in dark or saturated colors.

5.00 🖨

M1 - D50 UV included

✓ Fiery Edge spot color processing

Examples (note the changed C, M, Y, K values below in bold):



Reduce the number of inks/toners used in spot color recipes

Fiery Edge spot color processing can reduce the number of inks/toners used. By limiting spot color recipes to 3 colors plus black, it can deliver potential cost savings. And, for CMYK+ printers, it can produce more stable spot colors by preventing any inconsistency in how a press lays down 6 or more colors in a single area, which can also help prevent metamerism effects.

In Fiery Spot Pro, operators can choose Override maximum black settings from the output profile to control how much non-black ink/toner will be used in gray spot color recipes. This is similar to the existing Print CMYK gray using black only, available in Job Properties. However, this feature



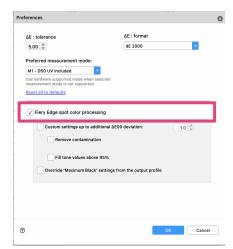
applies only to spot colors and allows additional control in the composition of the gray value beyond what is defined in the output profile.

Option to disable Fiery Edge spot color processing

Some operators may need to use the traditional Fiery spot color processing instead of Fiery Edge spot color processing. In this case, they can disable Fiery Edge spot color processing technology by unchecking the box in Fiery Spot Pro.

However, this will remove any existing spot color edits on the Fiery server and will be used for all subsequent jobs.

We **strongly** recommend backing up spot color groups in the .icc file format before disabling Fiery Edge spot color processing.



Unchecking this box in Spot Pro preferences disables Fiery Edge spot color processing.

Operators can choose to switch back to Fiery Edge spot color processing technology at any time.

Benefits:

- Reduce the number of inks/toners used in CMYK+ spot color recipes, which can potentially result in ink/toner savings
- Achieve a cleaner color appearance

Spot color gradation editing

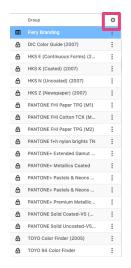
Users can edit a non-solid reproduction of a spot color.

This delivers finer control over spot color reproduction, including managing blends with spot colors, which is very important to brand owners.

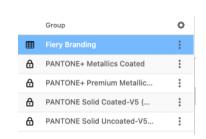


Enable/disable spot color groups

Fiery Spot Pro lets users enable or disable spot color groups, showing only the ones they use regularly. This streamlines spot color searches by hiding unused groups—speeding up workflows across Fiery Spot Pro, ImageViewer, TrueBrand, and Job Properties. Users can re-enable groups anytime, and the feature works with default, imported, and custom spot color groups.







Example of spot color groups panel as -is. Note the gear icon in the upper right. Click on this to open the enable/disable window

In the configuration window, uncheck any groups you don't want to show.

Or check the groups that you do want to show

Example of spot color groups panel after choosing which groups should be visible.

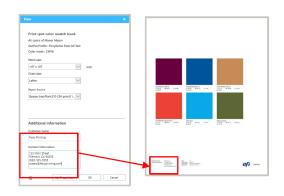
To learn more, watch the video.

Benefits:

- Streamlines the spot color experience by only showing a user's desired spot color groups
- Disabling unneeded spot color groups results in a more efficient spot color search

Customizable swatch page

Spot Pro swatch pages can be customized to include contact information. This helps create a more seamless client relationship. Print service providers can choose to include their contact information, or the contact information for their client.



Add contact information to Spot Pro swatch pages



Learn more about Spot Pro

View the <u>comparison datasheet</u> to see a complete list of differences between Spot-On and Spot Pro, and visit the <u>webpage</u> for additional resources.



Fiery TrueBrand

A common pain point in non-professional print environments is to print accurate brand colors from RGB-only applications such as Microsoft Word or PowerPoint.

RGB values

With the Fiery TrueBrand™ application, it's easy for anyone to map RGB values to named spot colors. Easily accessible from the Fiery driver, the Fiery TrueBrand

application walks users through the steps to first select the desired named color, and then the corresponding RGB values. And, once these values are set on the Fiery server, the RGB combination used in RGB-only applications will automatically map to the desired named color for future prints. Users are just a few clicks away from producing presentations, brochures, and other office documents with accurate brand colors.

Fiery TrueBrand is perfect for companies like agencies or professional services firms (such as engineering, architects, or construction) that print for clients and need to ensure brand colors are printed correctly.

Fiery TrueBrand is available for all Fiery FS600 Pro/FS600 cutsheet servers.



Mapping brand colors to RGB values in the Fiery TrueBrand application

Benefits

- Easy way to produce documents with accurate brand colors
- No specialized color knowledge required

Fiery ImageViewer

Fiery ImageViewer, part of Fiery Graphic Arts Pro Package and Fiery ColorRight Package offers several features that help users ensure accurate spot color reproduction in files.



Color replacements

Make fast color replacements across a page, a job, or in a specific area of a file. Match brand colors by selecting from one of the Fiery server's spot color libraries (either default or custom).

See it in action.

| | ₽ ® | ∅ 🗞 | | |
|-------------|------------|---------------|--|--|
| | | | | |
| | | PANTONE 229 C | | |
| Separations | Original | Replacement | | |
| Cyan | 100 | 25 | | |
| Magenta | 68 | 100 | | |
| Yellow | 0 | 18 | | |
| Black | 13 | 56 | | |

Preserve spot colors when editing curves

If a user needs to adjust the color curves of the page or a specific area, but needs to ensure that the change doesn't affect spot colors in that area, ImageViewer allows them to adjust color curves as needed, but preserve any spot colors.

For example, if a page contains an image and a company logo, the user can adjust the color curves for the image while preserving the brand colors of the company logo.



When users toggle the Preserve spot colors switch to on in Fiery ImageViewer, curve edits will not affect spot color values.

To learn more, watch the video.

Benefit:

• Flexibility to edit color curves as needed, while still preserving brand color integrity

Spot color overprint

Users may have situations where a design blends two spot colors together or blends a spot color with process colors. These scenarios are common in packaging applications. New spot color overprint options give users a choice about how to define the appearance of blended spot colors to best match the designer's intent, and without having to modify the source document.





Here are some examples of the different spot color overprint settings.



Standard

Blends colors in a CMYK space. This is the only available spot color overprint setting on non-FS600 Pro/FS600 servers.



Vivid

New for Fiery FS600 Pro/FS600 servers. Blends colors in an L*a*b space. This setting may deliver more image and shadow detail.



Natural

New for Fiery FS600 Pro/FS600 servers. Blends colors in an RGB space. This setting is most comparable to how Adobe Photoshop shows RGB rendering.

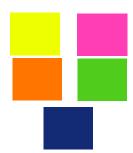
Benefits:

- Provides options to modify the appearance of blended colors to best satisfy design expectations
- Overprint settings can be changed at the DFE: no need to modify the source file and interrupt production

Expanded gamut (CMYK+) support

① Engine-specific feature: check Fiery server materials to confirm support

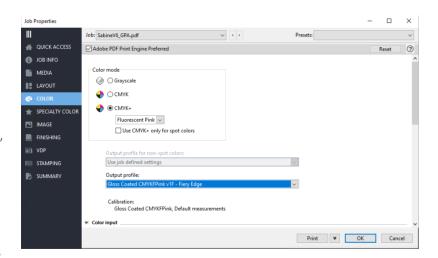
Expanded gamut (CMYK+) colors extend the color range of a press by adding extra toners or inks, such as orange, blue, green, or neon hues, beyond standard CMYK. These profiled colors are treated like CMYK channels, meaning they integrate seamlessly into color management workflows and help reproduce more vivid, saturated, and accurate colors, especially for out-of-gamut brand tones.





How they're used on a Fiery server

Fiery servers simplify expanded gamut printing by automatically handling color conversions and profiling. Fiery intelligently maps design colors to the press's expanded color set, ensuring smooth gradients, vibrant images, and precise brand matching. This technology improves photo reproduction, skin tones, and any design requiring richer or more accurate colors, without the need for manual file adjustments. Users can also choose to use CMYK+ across an entire file or restrict to just spot colors.



CMYK+ options in the Color tab in Job Properties

Benefits:

- Achieve a wider color range and richer, more vibrant tones
- Reproduce out-of-gamut brand and spot colors with higher accuracy
- Deliver smoother gradients and lifelike images (better skin tones and photos).
- Provide consistent, automated color management across full pages

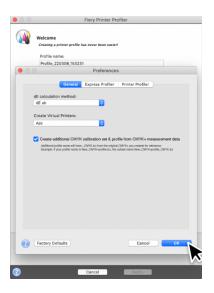
Subset profiling

Subset profiling automatically creates a CMYK profile and calibration when an operator creates a CMYK+X profile and calibration using Fiery Color Profiler Suite.

This means users only need to print and measure one set of charts to create two high-quality results – one for printing in CMYK, and one for printing in CMYK plus gamut-extending colors.

Benefits:

• Greatly decreases the profiling effort when running the printer in both CMYK only, plus CMYK+ mode.





Specialty color support

① Engine-specific feature: check Fiery server materials to confirm support

Specialty colors add decorative effects and textures as visual effects in beyond CMYK printing, such as metallic finishes, clear gloss, and fluorescent highlights. On a Fiery server, these colors are managed as spot colors.

How they're used on a Fiery server

Fiery servers provide powerful tools to manage specialty colors seamlessly. Operators can include specialty colors directly in the design file by creating dedicated spot color or spot color layers. Fiery



also allows applying these effects at the DFE, such as creating textures with multi-pass printing, adding white ink as an underlay or overlay for printing on dark or transparent substrates, or adding a spot gloss effect across all content on a page. Tools like Fiery Spot Pro, Fiery ImageViewer, and Fiery Image Enhance Visual Editor make fine-tuning these effects fast and accurate.

Benefits:

- Create premium, eye-catching effects (metallics, gloss, texture)
- Add value to printed materials with unique finishes
- Enable printing on dark or transparent substrates using white underlays
- Highlight specific design elements for visual impact
- Enhance security with invisible or fluorescent colors

Specialty colors vs expanded gamut colors

| Feature | Specialty colors | Expanded gamut colors |
|-------------------------|--|--|
| Purpose | Add embellishments or special effects (e.g., metallics, gloss, textures). | Extend the color range beyond CMYK for more vivid and accurate colors. |
| Treatment | Always treated as spot colors (non-profiled). | Profiled colors treated like CMYK channels. |
| Usage on a Fiery server | Added via design layers or Fiery tools (e.g., multi-pass clear, white overlays). | Automatically applied across the entire job through color management. |
| Examples | White, Clear, Gold, Silver, Low Gloss Clear/Textured Paper, Invisible Red, | Orange, Green, Blue, Neon Yellow, Pink |



Image/color quality optimization

Fiery Image Enhance Visual Editor

Fiery Image Enhance Visual Editor is a Command WorkStation plug-in for adjusting individual images in a job, without the need to open the file in the originating application. This feature is standard on external Fiery servers, and part of the Fiery ColorRight Package for embedded Fiery servers. It enables real-time image editing and eliminates the need for additional image-editing software. Image Enhance Visual Editor works with both PostScript and PDF files.

Image Enhance Visual Editor presets allow novice users to apply expert image enhancements and save custom enhancement configurations. These presets can be assigned to a specific range of pages in the current file, or to other files in the future. The default preset, called Automatic, will analyze and automatically enhance the image quality for a variety of imaging problems. More advanced users can manually adjust tone, color, and image sharpness. Users can see image adjustments before they save changes.

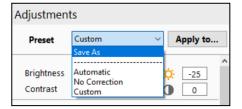


Before Image Enhance Visual Editor



After Image Enhance Visual Editor

Image Enhance Visual Editor also corrects for red-eye. When users set red-eye correction for an image, they'll see a preview highlighting instances of red-eye in that image that will be corrected. Users can specify additional red-eye regions, or areas that don't need correction. These adjustments all appear in the onscreen preview so that the user can make the correction without wasting time and money by printing a sample.



Users can save custom imagecorrection settings





Users can select additional red-eye regions to correct or deselect areas that don't need correction.

Once a user saves image-correction settings from Image Enhance Visual Editor in PDF files, the settings are stored in the PDF so that the user can fine-tune corrections later. This way, users can also reverse PDF file adjustments.

Image Enhance Visual Editor works with file sizes under 2 GB, documents less than 100 pages, and pages that contain fewer than 50 images. Additionally, the feature is designed to detect and enhance only natural images, so it won't affect bitmap versions of graphics such as charts and graphs. Image Enhance Visual Editor does not preview spot colors and inter-object print settings such as overprint or transparency. These remain in the original file so that they will be honored when printing.

Fiery Image Enhance Visual Editor addresses the widest range of images and jobs by supporting RGB and CMYK color sources, and the most used file formats. This makes it the most complete toolset of its type in today's market. It can be used to improve the image quality of many types of print jobs such as office documents, photo books, and professional publishing layouts.

① For specific engines that support specialty toners, users can add specialty colors such as gold, silver, clear, or pink to an image. For more information, check your Fiery server user documentation.

- Reduces turnaround time because users do not need to return to the originating software application to correct images
- Saves money, because print providers don't need expensive image retouching software at every workstation

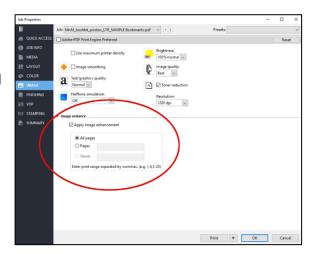


- Corrects saturated colors without harming flesh tones
- Allows users to fix images late in the production process after the job is already on the Fiery server
- Makes it easy for any user to enhance images with automated tools
- Easy access from Command WorkStation (highlight job, right-click).

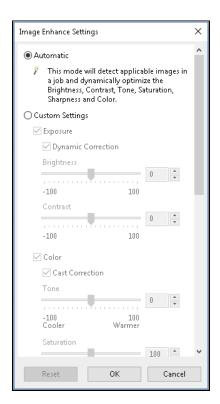
Fiery Image Enhance

Fiery Image Enhance improves the output quality of digital photos, and saves prepress time by eliminating manual image editing tasks. Image Enhance addresses the widest range of images and jobs, making it the most flexible feature of its type in today's market.

Image Enhance automates optimization so users don't need to preview or tweak images before printing. Simply turn it on in Fiery Job Properties. It also works with Fiery Hot Folders, Job Presets, and Virtual Printers.



In the Image Enhance settings window in Device Center, you can adjust the preferences to either use the Automatic mode or to customize the settings.

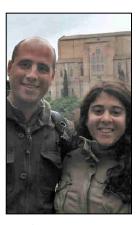




This feature is standard on Fiery color servers.







After Image Enhance

- Automatically enhances images in submitted TIFF, PostScript, or PDF files
- Corrects images based on settings configured in Command WorkStation
- Features automatic correction modes that do not correct or affect images that do not require enhancement
- Once configured and enabled, requires no user intervention to enhance images in every job produced
- Reduces waste from jobs printed with less-than-optimal quality



Fiery ImageViewer

Fiery ImageViewer is a professional soft-proofing and editing tool that allows operators to inspect and optimize RIPped jobs at full resolution before printing. By providing precise color previews and powerful editing features, it ensures that prints match expectations without costly rework. Operators can correct color issues, enhance images, or even replace specific colors—directly at the Fiery server—without going back to prepress.

Color optimization

- Accurate soft proofing: View jobs with true-to-print color previews, including spot colors and overprints
- On-the-fly color adjustments: Fine-tune color curves to achieve consistent results
- Spot color matching: Adjust and refine spot colors to meet strict brand requirements with Fiery Spot Pro integration
- Color replacement: Replace any color within a page or an entire document, using the eyedropper tool or Fiery's built-in spot color libraries (e.g., PANTONE)
- Repeatable results: Save custom settings and apply them across multiple jobs for consistent output

Image quality optimization

- Pixel-level editing: Inspect fine image details or artifacts directly in the RIPped file.
- Split-view comparison: See real-time before-and-after views when making adjustments.
- Consistent edits: Use built-in or custom presets to quickly apply consistent edits across similar jobs.
- Adjust curves: adjust curves to quickly boost elements like midtones, highlights, or shadows, or adjust color curves individually

Factory Presets Lighter highlights Midtone boost Apply to. Reduce M cast Reduce Y cast Custom Presets my-curve Separations Cyan Magenta ■ ✓ Black Total Area Coverage Image Position Channels: All Channels Edit Curve.. Color Wheel Curves Object Inspector Color Replacement *f* Original Replaceme Cyan Magen

Color correction options in Fiery ImageViewer

- Replace or adjust problematic colors without altering original design files
- Save time and costs by editing directly at the Fiery DFE
- Deliver premium-quality output that meets customer demands

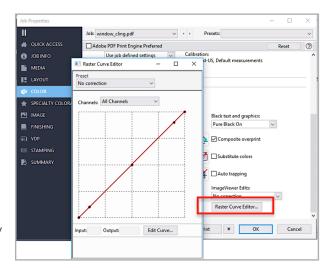


Raster curve editor

Operators can perform late-stage color edits on jobs with Raster Curve Editor directly from Job Properties. No additional license is required for this capability.

Users can adjust individual color channels, as well as all channels at once. Make curve edits simply by dragging control points, or by editing curve table data numerically in increments as small as 1%.

Changes can be previewed in Preview or in Fiery ImageViewer (if the user has a license for Fiery ColorRight Package or Fiery Graphic Arts Pro Package).



Raster Curve Editor available in Job Properties

Custom curves can be saved as presets and applied to future jobs and are synchronized with Fiery ImageViewer presets.

Benefit:

Quick way to perform simple, late-stage curve edits right in Job Properties

Fiery imaging features

Perfect PDF

External Fiery print servers offer APPE, the native Adobe PDF Print engine, as a standard feature, with embedded Fiery servers offering it as an option with the Fiery JobExpert and PDF Processing Kit. Fiery servers were the first to receive the designation of printing the perfect PDF by the VIGC group in 2012. Fiery servers with APPE perfectly print the Altona Technical Suite version 2, the Ghent workgroup PDF/X-4 test files, and the additional tests developed by VIGC – every time.

- Ensures that prints match the designer's expectation, even if complex transparency effects have been used in the design applications
- Optimizes shop productivity by moving to a 100% PDF/X-4 workflow so that print buyers submit files in the standard PDF/X-4 format and Fiery Driven print systems image them perfectly



• Eliminates errors and delays in production that can occur when PDF files need to be manually flattened or printed from the print driver to get proper transparency blending without color or imaging artifacts

Composite Overprint for spot colors and CMYK

When an object of one color is placed on top of an object of another color in a page layout or drawing, the object on top can be imaged directly on top if it has been configured to overprint.

Historically, users had to send pre-separated PostScript files to DFEs in order for overprints to render correctly on the printed output. This was not an optimal workflow for processing color. It also led to many mistakes on the part of designers and print providers, and often to unsatisfactory quality.



Correct overprint simulation

Missing overprint simulation

Fiery server users can automatically enable the Fiery Auto-detect Composite Overprint feature for objects specified to overprint. This means that objects will be represented with the correct overprint simulation. It also eliminates the long processing times common on other DFEs when composite overprint is enabled. Use this feature for best results with all jobs except pure RGB files such as digital photobooks.

- Further speeds up file processing times compared to competitors
- Produces overprints specified in design applications for perfect printed results that match the designer's expectation every time

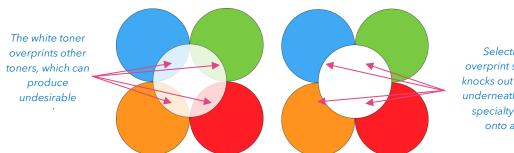


Overprint control of specialty colors

① Engine-specific features: check Fiery server materials to confirm support

With Fiery servers that support specialty colors, the user can override a file's overprinting instructions, causing objects with specialty colors to knock out the background. This allows the specialty toner to print directly on the substrate.

This eliminates the possibility of other colors showing through beneath the specialty colors.



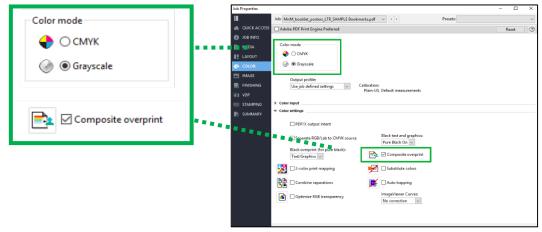
Selecting "Do not overprint specialty color" knocks out any other toner underneath it, printing the specialty color directly onto a substrate.

Benefits:

• Gives the user more control of how specialty colors overprint

Grayscale Composite Overprint

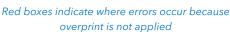
The Grayscale Composite Overprint feature allows overprints, drop shadows, and transparencies in color print jobs to render accurately when printing in grayscale mode on full-color print devices. This unique Fiery feature works when printing in grayscale color mode with the Composite Overprint setting enabled, and works for both CPSI and APPE interpreters.



Grayscale and Composite Overprint settings need to be selected in Job Properties to guarantee correct representation of overprints in black-and-white output









Composite Overprint applied

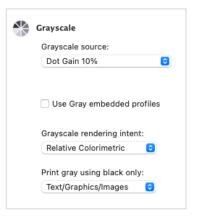
Benefits:

- Guarantees black-and-white output that matches the design, even if the designer has used techniques such as overprinting
- Saves click charges, while producing black-and-white output that preserves the appearance of complex design elements

Grayscale input profile

The grayscale input profile provides specific control over the color management of grayscale page objects by adding grayscale settings to the Color tab in Job Properties and the Fiery driver.

When grayscale page objects are created in a design application, such as Adobe Photoshop, a grayscale ICC profile is used to define their intended appearance. Now operators can set the same profile to be used on the Fiery server so that the expected appearance can be maintained when printing grayscale images, vector, or graphic objects.



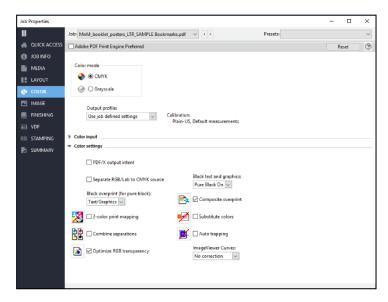
Grayscale settings in Color tab in Job Properties and Fiery driver



Optimize RGB Transparency

It's easy to create transparent page objects in modern design applications. Unfortunately, it's also easy for designers to accidentally cause problems when they use drop shadows or other effects that rely on transparency blending from these design applications. The definition of these transparent regions resides in the PDF document, and they are flattened at the DFE to improve productivity. Design applications specify the color space used when blending transparent regions in the PDF.

On the Fiery server, users can enable



Optimize RGB transparency box in the color tab of Job Properties

the Optimize RGB Transparency setting at the Fiery driver or in Job Properties. This forces the interpreter to use the blending color space specified in the PDF file, so that the output has no artifacts and matches customer expectations. This enhances the print quality of PDF files that include overlapping RGB elements defined with transparency, rendering and accurately printing the resulting colors.

Benefit:

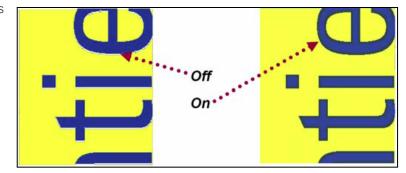
Increases color accuracy when printing PDF files

Trapping

Fixed Auto Trapping

Professional-quality color documents are created by managing all aspects of color on the page, including how colors interact with one another. Traditionally, this interaction of color on a page

was managed by skilled operators using complex tools and techniques to accomplish the highest-quality results. By using the Fiery Fixed Auto Trapping feature, operators can achieve professional-level results without extensive knowledge of trapping



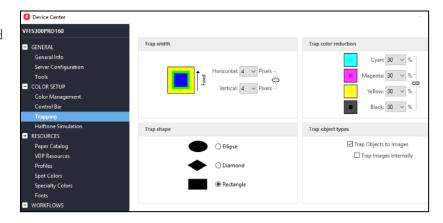


rules. The feature accomplishes this by automatically adding a few pixels of the lighter color into the darker colors so that the paper white does not show through registration errors.

The Fiery Auto Trapping feature applies trapping to jobs coming from any software application; it does not require the document designer to insert any information and does not require special commands other than Auto Trapping: On/Off.

Configurable Auto Trapping

Configurable Auto Trapping provides users with advanced trapping settings, and offers greater flexibility and full control over trapping. Auto Trapping is optimized for Fiery Driven printers and is fast enough that it can even be applied to variable data jobs and still run the print engine at rated speed.



The configurable parameters include:

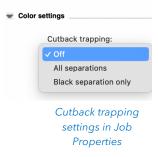
- Width
- Color reduction
- Shape
- Image trapping option

Benefits:

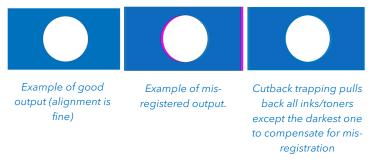
- Trap edges without performance impact, allowing users to trap complex jobs without slowing down production
- Gain full control over trapping values to adapt to different printing environments and job characteristics

Cutback trapping

If operators see an individual ink/toner from a composed color on a white background because of engine mis-registration, cutback trapping lets them manually define specific separations (usually darker separations) that will cut back from the edges of an object. This is also useful in CMYK+ printing.





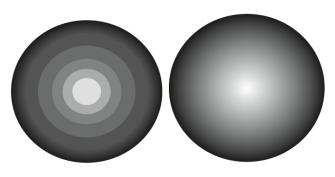


Benefit:

• Helps operators compensate for mis-registration issues to ensure high-quality output.

Enhanced gradient smoothing

The Image Smoothing setting in the Fiery driver and in Job Properties, uses proprietary Fiery processing for enhanced gradient smoothing. This ensures the highest quality print appearance for color transitions found in design elements such as vignettes or vector gradients by removing objectionable stepping in the print output.



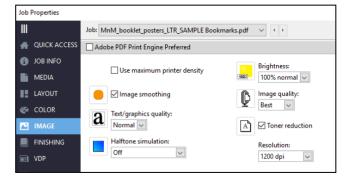
Without Image Smoothing

With Image Smoothing

Vignettes and vector gradients are common design elements that typically transition from a dark to a light color.

The color transition in these elements may look smooth on the screen, but it can present visible bands when printed.

Users can apply enhanced gradient smoothing by enabling the Image smoothing setting in the Image tab in the Fiery driver and in Job Properties.





Text and graphics quality

① Engine-specific feature: check Fiery server materials to confirm support

The Text/Graphics Quality feature applies processing enhancement to text and graphics, sharpening the edges of text and graphic images. Text/Graphics Quality is applied only when 100% color is used in the image. Because pure cyan, yellow, or magenta elements are not a part of typical output – and because it's difficult to get 100% of toner in the output colors – the feature is mostly used in black elements for a sharper and smoother text and line art with minimized "jaggies" at a resolution of 2400 dpi.

Refer to the Fiery user manual for print engines that support the Text/Graphics Quality capability for more information.



Benefit:

 Increases output quality, achieving better definition of black text and optimized full-color images

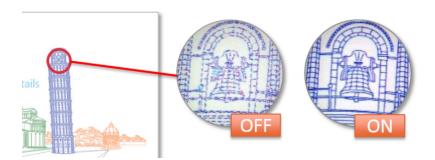
Dynamic HD Text and Graphics

① Engine-specific feature: check Fiery server materials to confirm support

Dynamic HD Text and Graphics is an exclusive Fiery feature that accurately reproduces ultra-thin lines, small text, and fine details in printed output. It also delivers lead/trail edge correction – a unique function that evens outs the color of the leading edge and the trailing edge of a character by compensating for the typically darker appearance of one edge and the lighter appearance of the other edge. It allows the Fiery server to process files at 1200 dpi, preserving high detail content and reducing jaggedness associated with half-toned, non-saturated objects.

Depending on the print engine, Dynamic HD Text & Graphics can have 3 levels (low, medium, high) or is available as off or on.





Refer to the Fiery user manual for print engines that support the Dynamic HD Text and Graphics capability for more information.

Dynamic HD Text and Graphics setting is in the Image tab in the Fiery driver and in Job Properties.

Benefits:

- Delivers maximum detail on even the finest unsaturated lines with true 1200 dpi print quality
- Reduces jaggedness in both saturated and unsaturated text and line art
- No impact on performance

Fiery Smart Estimator

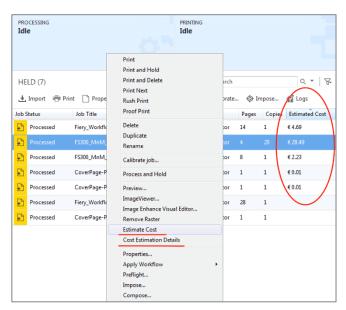
① Engine-specific feature: check Fiery server materials to confirm support

Accessible from Command WorkStation, the Fiery Smart Estimator provides a cost estimate for toner or ink usage before printing a job.

The estimate is done by the Fiery server and is based on the raster data of the RIPped jobs.

This feature is most useful for specialty colors or expanded gamut toners/inks, which are generally purchased separately and not part of the base CMYK click charge.

users can customize Fiery Smart Estimator by selecting the local currency and entering the cost per bottle, cartridge, or liter. Once the calculation is performed, the estimated cost can be displayed on a job list column, job summary pane, and cost estimation details window.



Fiery Smart Estimator accessible from Command WorkStation



The Fiery Smart Estimator is available on a product-specific basis. Refer to your Fiery server documentation for more information.

Certifications

Several industry organizations have tested and certified that Fiery servers can match industry color references and can be used for color matching digital printing systems to offset presses.

Idealliance and G7

Digital Press Certification

Digital Press Certification from Idealliance is a popular U.S. certification program, available for digital print systems that consist of a printing press and a DFE. These print systems must meet or exceed established industry tolerances for excellence in the areas of colorimetric accuracy, uniformity, repeatability, durability, and registration.



Print systems that achieve Idealliance Digital Press Certification are verified to be capable of simulating GRACoL standards within tight colorimetric tolerances.

For digital press systems to match industry references such a GRACoL, user must create a custom output profile with a tool like Fiery Color Profiler Suite.

G7 System Certification

Idealliance G7® System Certification validates the entire Fiery workflow, including Fiery servers and Fiery Color Profiler Suite (CPS), for precise G7 calibration and profiling. This ensures consistent gray balance, accurate color reproduction, and a fully certified color management process from start to finish.



Fiery Color Profiler Suite is the only integrated product on the market that calculates G7 correction curves and writes them directly into a calibration set on a Fiery DFE, making the G7 calibration process faster, easier and less error prone. The G7 workflow validates the results of the G7 calibration, then guides the user through creating an ICC output profile optimized to work with the G7 calibration. This means that higher levels of G7 compliance, including G7 Targeted and G7 Colorspace, can be achieved with a single, easy-to-use software product.

FograCert

FograCert is a popular standard in Europe. Fogra-certified Fiery servers meet the criteria and tolerances stipulated in the current draft (ISO/FDIS 12647-8) for the certification of contract proofing systems and for contract proof creation as tested by the Fogra Graphic Technology



Research Association. ForgraCert is similar to Idealliance digital press certification, except that it requires a colorimetric match to the FOGRA39 colorspace. FograCert-approved digital print systems also require that the DFE can print PDF/X-4 test suites correctly.



Connection

Fiery technology delivers valuable integration to any type of print environment, offering a high return on investment because the open Fiery platform technology integrates with most JDF-enabled solutions and with most popular network environments. In addition, Fiery servers deliver the most comprehensive set of tools for IT managers to help keep the software updated, to automate security controls, and to simplify the administration of the Fiery server on the network. The following table represents the standard configuration for each Fiery server platform and system version combination. For information on a specific Fiery server's feature set, refer to the datasheet for that model, or ask your Fiery vendor about support for a specific feature.

| ✓ Standard ⊙ Option | - Not Available | SFM = See produ | ct-specific feature matrix | |
|--|-----------------|-----------------|----------------------------|----------|
| Feature name | NX Premium | NX Pro | NX One | E-Series |
| Fiery JDF | ✓ | ✓ | ✓ | • |
| Fiery IPDS | SFM | SFM | SFM | SFM |
| Fiery API | ✓ | ✓ | ✓ | ✓ |
| Integration with MIS and Web-to-Print solutions | ✓ | ✓ | ✓ | • |
| Fiery option software licensing | ✓ | ✓ | ✓ | ✓ |
| Automatic system backups | ✓ | ✓ | ✓ | ✓ |
| Fiery Updates from Command WorkStation | ✓ | ✓ | ✓ | ✓ |
| Security features (check Security whitepaper) | ✓ | ✓ | ✓ | ✓ |
| Fiery IQ | ✓ | ✓ | ✓ | ✓ |
| Dashboard | ✓ | ✓ | ✓ | ✓ |
| Insight | ✓ | ✓ | ✓ | ✓ |
| EFI Go | ✓ | ✓ | ✓ | ✓ |
| Fiery ColorGuard | • | • | • | • |
| Manage | • | • | • | • |
| Accounting and billing integration | SFM | SFM | SFM | SFM |
| Job Logs | ✓ | ✓ | ✓ | ✓ |
| Job cost tracking | ✓ | ✓ | ✓ | ✓ |
| PaperCut MF/NG | SFM | SFM | SFM | SFM |
| IPP 2.0 support | ✓ | ✓ | ✓ | ✓ |
| Compliance with Mopria Print Service | ✓ | ✓ | ✓ | ✓ |
| Native support for Microsoft Universal Print | ✓ | ✓ | ✓ | ✓ |



Fiery JDF

What is job-description format (JDF) technology?

JDF is an open-standard technology that allows data to pass between different applications and systems for automated print production workflows, specifying how jobs are managed and produced. JDF allows MIS, web-to-print, and prepress solutions to communicate with each other. The electronic JDF job ticket simplifies data exchange and collection, eliminates manual data entry and re-entry, makes print production faster, and increases efficiency and accuracy.



Fiery JDF, available on Fiery servers, provides support for JDF workflows from the Fiery system itself. It provides the functionality of the Fiery server and user-interface elements in Fiery Command WorkStation needed to integrate the Fiery server in JDF workflows. This enables bi-directional JDF device connectivity between JDF submission tools (submitting JDF intent or JDF process job tickets through Job Messaging Format) and the Fiery server.

Fiery servers were the first to achieve the JDF1.3 Integrated Digital Printing Interoperability Conformance Specifications (IDP-ICS) certification by CIP4.

Version 1.8 of Fiery JDF enables integration with new Fiery features, as well as fixes for known issues and performance optimization:

- ChapterBasedFinishing: allows users to print specified page range(s) on front side of the sheet, when the job is duplexed.
- OffsetWithInJob: a new attribute used to differentiate between existing "offset jobs" and the new "offset within jobs" features.
- PileAllow: determines whether subsequent jobs to the same output tray can be stacked on top of the job that is currently in the output tray.
- Double Punch: support for double-punch finishing.
- Performance and stability improvements: version 1.8 includes optimizations that significantly improve performance and reliability for JDF integrated workflows in high-production environments.

For more information, please visit the <u>CIP4 website</u>.

Version 1.8 of Fiery JDF is available in external servers as a standard and is available for Fiery embedded systems through the Fiery Automation Package for selected Fiery products.

Increases productivity by eliminating manual data entry and re-entry

Fiery JDF technology allows job tickets and metadata to move through systems without human intervention, and automatically collects production data. It eliminates much of the need for users to enter job and production data, dramatically decreasing waste and error. The technology enables unattended job processing and frees up users to complete other tasks that involve



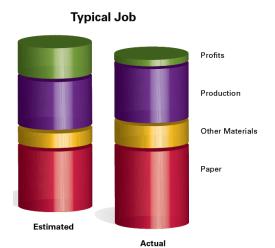
higher-level skills, which ultimately increases profits. In addition, customer satisfaction is dramatically improved because jobs are delivered right, on time, and on budget.

Provides highly accurate business intelligence

Fiery JDF technology captures print production data, such as media usage and job running time, and disseminates it to the appropriate business software (for example, print MIS) for more accurate reporting, estimating, and accounting. Now business owners and managers get automated business intelligence that can help them assess their profitability.

Supports hybrid workflow for the best of both worlds

If a print provider using prepress systems such as Agfa Apogee, Heidelberg Prinect and Kodak

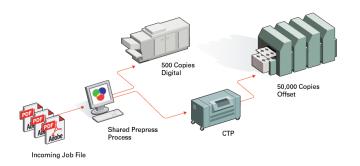


Job production component breakdown

Prinergy has both offset and digital printing solutions and needs to move jobs back and forth, Fiery JDF technology can serve as an easy and quick mechanism to direct jobs to the appropriate systems, enabling hybrid workflow. JDF jobs can be managed with a common user interface for multiple devices, and can be automatically routed to the most cost-effective devices.

Hybrid workflow example

Fiery JDF technology also allows analog print shops to easily expand their businesses with digital print capabilities for on-demand, cost-effective, and value-added services such as variable data printing. Now those businesses can meet customers' demands for faster turnaround times and short-run jobs with capabilities that only digital printing and hybrid workflow environments are able to produce.



Maximizes ROI through integration and scalability

Fiery JDF technology not only makes print production business more efficient, but also opens new doors for future expansion. It works with many third-party solutions and in-house systems by using JDF industry standards with nonproprietary formats to provide flexible, out-of-the-box interoperability.

It integrates seamlessly with web-to-print, Print MIS, and production workflow solutions; and is supported by more than 30 partner technologies, including Agfa Apogee, Heidelberg Prinect,

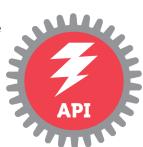


Kodak Prinergy, and SCREEN Equios. The integration enables print providers to meet their business needs now and, in the future, and allows businesses to scale using the same solutions.

Fiery JDF technology is a standard feature for Fiery servers. Visit fiery.efi.com/fiery-jdf today to view the current list of JDF-enabled Fiery digital print servers. To talk to peers and Fiery experts about the technology, participate in <u>Fiery Communities</u>.

Fiery API

Print workflows are unique to every print business. Fiery application programming interface (API) allows print shops to rapidly develop unique apps and tools for specific business needs on a variety of desktop or mobile platforms including Windows, Mac OS, iOS, and Android – using the development environment of their choice. The RESTful Fiery API exposes the Fiery interface and establishes a secure bi-directional connection with Fiery servers. This allows developers to extract job data for custom uses such as cost analysis and optimized scheduling, and to submit jobs with basic settings from existing applications.



Fiery API can:

- Request job-log data on Fiery servers for custom accounting and supply-tracking needs
- Control certain job actions such as process, print, and delete a specific job or all jobs on the Fiery servers
- Submit jobs to Fiery servers from an app with a simple command
- Retrieve current status for actions such as printing and errors, and gather real-time printer reports with simple commands
- Access previews of a processed job generated by the Fiery servers for softproofing

Users can find the resources they need to get started on the <u>Fiery website</u>. These include sample codes, API documentation, and how to get an evaluation license for their project.

The free Fiery API Evaluation Key gives access to the full set of standard Fiery API functions for 90 days. This helps developers evaluate the potential use of the API for unique business needs.

Fiery Go, the free app for smart phones and tablets, takes advantage of Fiery API and lets users access Fiery servers remotely from their iOS or Android devices. Fiery FS600 and Fiery FS600 Pro servers come with Fiery API, so they're ready to communicate with mobile devices out of the box.

Developers can download latest Fiery API version from the <u>Fiery website</u>. They can also find the resources they need, including code samples, API documentation, and how to get an evaluation license for their project.



Fiery API feature highlights

Server login, administration, and status

| Feature | API calls | Description |
|--------------------|-----------------|---|
| Login | POST login | A POST request that establishes secure, authorized user access to the Fiery API features from your application with a Fiery API access key. |
| Logout | POST logout | A POST request to terminate an authorized session initialized by the POST login request. |
| Info | GET info | A GET request to list a Fiery server's basic information such as hardware info, serial number, language settings, and time zone. |
| Consumables | GET consumables | A GET request to report information about the tray, and supply of paper and toner on the print engine. |
| Server | POST server | A POST request for actions on the Fiery server such as start or stop server, restart or reboot server, and cancel RIPping or printing. |
| Devices | GET devices | A GET request to retrieve information about the connected printer and current job progress of printing or RIPping. |
| Print system pages | POST printpages | A POST request to print system pages such as system configuration page, PostScript or PCL test page, and font list. |
| Login | POST login | A POST request that establishes secure, authorized user access to the Fiery API features from your application with a Fiery API access key. |
| Logout | POST logout | A POST request to terminate an authorized session initialized by the POST login request. |
| Info | GET info | A GET request to list a Fiery server's basic information such as hardware info, serial number, language settings, and time zone. |
| Consumables | GET consumables | A GET request to report information about the tray, and supply of paper and toner on the print engine. |

Job and queue management

| Feature | API calls | Description | |
|----------------|--------------------|--|--|
| Jobs | GET jobs | A GET request to list all jobs presently in the job list on the Fiery server, including printed jobs. Specify job attributes to be shown for each job Filter jobs by username or job status such held jobs, RIPped jobs, or printed jobs | |
| | GET jobs/ID | A GET request to retrieve job info with a specific job ID. | |
| Job preview | GET preview | A GET request to retrieve preview images of the job Specify job with job ID Specify page number of the job Specify the size of the preview image: thumbnail, screen size, or full size | |
| Job submission | POST jobs | A POST request to submit job with a file, a Fiery Preset or Virtual Printer setting and basic job attributes. | |
| Job actions | PUT jobs/ID/method | A PUT request to perform job actions for existing jobs in a queue with a specific job ID. Available actions include: Print, print and hold, rush print RIP (process job), re-RIP | |



| | | Cancel, remove raster data |
|---------------|------------------|--|
| Job reorder | PUT jobs/ID/move | A PUT request to reorder a specific job to be a first or last in a queue, or put in before or after a referenced job. |
| List queues | GET queues | A GET request to list the printer queues (logical printers), including Fiery Virtual Printers, configured on the Fiery server. |
| Create queues | POST queues | A POST request to create a new printer queue (logical printers) with a name, print action, and basic job attributes. |

Cost accounting and job log

| Feature | API calls | Description | |
|---------|-------------|---|--|
| Cost | GET cost | A GET request to retrieve Fiery job logs containing selected accounting information for each printed job. | |
| | GET cost/ID | A GET request to list selected accounting information with a specific job ID. | |

Fiery IPDS

Tiery 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.

Fiery IPDS provides a high-performance, IS/3 compliant IPDS solution that leverages industry-leading Fiery technology for rendering, variable data, color 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.



Tools for technical support

Fiery Setup Wizard

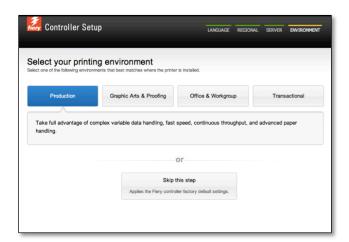
Fiery Setup Wizard optimizes settings for a particular print environment during the install process. It allows the administrator to quickly and easily specify basic Fiery server settings such as language, region, server, and environment (a group of standard settings). The available environments are:

- Production
- Graphic arts and proofing
- Office and workgroup
- Transactional

By presenting a simple wizard with four screens, Fiery Setup Wizard makes the setup process easier and more accurate. Fiery Setup Wizard works on Fiery servers running FS100/FS100 Pro or later and based on Linux or Windows operating systems.

The Fiery Setup Wizard is available from the following locations:

- Command WorkStation
- WebTools
- Fiery QuickTouch for NX external servers



Settings are customized for each print environment.

If users do not initially configure the Fiery Setup Wizard from Fiery QuickTouch, it is still available from WebTools > Home, or from Command Workstation > Configure.

Benefits:

• Correctly sets up the Fiery server for the user's environment and language



- Provides the best out-of-box experience for users and administrators
- Speeds installation for technicians

Recommended settings per environment

| Settings | Production | Graphic arts & proofing | Office & workgroups | Transactional |
|---|--------------|-------------------------|------------------------|---------------|
| Job Log (Auto export) | J | J | J | J |
| Enable System Updates | J | J | J | J |
| Enable Remote Desktop | | $\sqrt{}$ | \checkmark | $\sqrt{}$ |
| Enable Adobe PDF Print Engine | | $\sqrt{}$ | | |
| Enable Printed queue | $\sqrt{}$ | | √ | $\sqrt{}$ |
| Enable Job Mismatch | J | | | V |
| Sample Print | $\sqrt{}$ | | | J |
| Enable JDF | \checkmark | | | J |
| Cache PDF and PostScript objects | √ | | | 1 |
| Enable Set Page Device | J | | | J |
| Enable Sequential Print | J | | | $\sqrt{}$ |
| Enable RIP While Receive | | | | J |
| Enable Fiery Hot Folders | | | \checkmark | |
| Enable Secure Erase | | | $\sqrt{}$ | |
| Allow users to print without authentication | | | J | |
| Enable LDAP | | | $\sqrt{}$ | |
| Enable USB port | | | J | |
| Enable scanning | | | J | |
| Enable SNMP | | | J | |
| Enable Direct Mobile Printing | | | J | |

Fiery Hardware Diagnostic Tools

These tools offer diagnostic tests that may identify problems with Fiery server hardware. The tools are designed for specific Windows-based Fiery hardware platforms, and are for analysts and



technical support representatives of Fiery partners. Check the documentation of your Fiery server to identify the hardware platform name and version number.

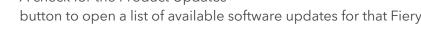
- Fiery NX Premium
- Fiery NX Pro
- Fiery NX One

If you don't have these Fiery diagnostic tools, please ask your technical support team for a downloadable version. Instructions are included with the download.

Fiery Configure

Fiery Configure allows a Fiery administrator to configure the Fiery server for a specific print environment. When the administrator selects the Configure button, Fiery Configure displays a browser-based user interface with:

- The current Fiery configuration and access to the Edit button to enter modifications.
- A check for the Product Updates button to open a list of available software updates for that Fiery server.



Fiery Configure provides:

- Support for all current web browsers, without the need for special plug-ins
- Three menu levels to allow users to easily move between settings
- Inline guidance to minimize mistakes
- Search function to find relevant settings more quickly
- Support for constraints to guide users when selecting conflicting settings
- Usability improvements that allow settings used in multiple places, such as email or proxy, to be linked for easy access
- If new settings need a restart or reboot, the tool notifies the user at the top of the screen and immediately saves settings that can be applied instantly
- Data transfer over HTTPS for additional security
- Updated config sheet to reflect the categories displayed in the current Fiery configuration view

Benefits:

- Helps administrators get the Fiery server ready for production in a shorter time
- Minimizes service calls





Serviceability

Fiery servers offer a comprehensive set of tools to ensure your server is up and running 24/7 and ready to face the challenges of a high-production environment. To achieve that, the servers come with:

- Fiery Updates from Command WorkStation
- Automatic system backups
- Fiery Installer Builder
- Tools to manage Fiery server installation
- Fiery auto-recovery
- Improved server configuration sheet
- Job Error report
- Clear Server enhancements

Taken together, these features facilitate easy installation and setup; provide quick software updates that don't affect production time, but make sure you always have the latest software installed; and configure your server for the needs of your specific print environment. They also help resolve technical issues faster by facilitating communication with technical-support teams, and help you recover quickly from an unexpected system failure.

Fiery Updates from Command WorkStation

Administrators, analysts, and technicians can ensure that Fiery servers are always up to date, minimize downtime, and provide fast recovery of Fiery servers.

Because timely software updates are critical for optimal operation of Fiery servers, Command WorkStation offers administrators an easy way to get notifications, downloads, and installation of approved and released Fiery system updates.

Administrators can get to Fiery Updates through the Device Center and can then perform updates, even from remote client computers. From those client computers, they can also update Fiery servers that may not be connected to the internet. On the Fiery Updates screen, administrators can also see all the patches and service packs available and waiting to be installed for external or embedded servers.

Fiery Updates ensures the right sequence of patch updates to guarantee effective installation and avoid incompatibilities.

Benefits:

- Minimizes production interruptions
- Easily keeps Fiery servers up to date



Automatic backups

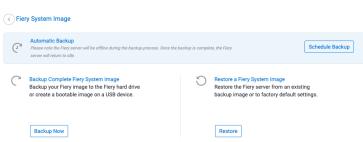
With Fiery System Image, Fiery administrators have an easy way to schedule automatic Fiery system backups to guarantee fast recovery.

For external Windows-based Fiery servers, Fiery System Image is available from the server menu, Fiery WebTools, and from the Fiery QuickTouch Panel. For embedded Linux-based Fiery servers, Fiery System Image is available from Fiery WebTools.

With these tools, it can take less than an hour to restore from a backup.

Fiery servers allow users to capture many settings for the backup and restore procedure:

- Fiery system settings
- Color settings
- Preflight presets
- Scan settings
- Command WorkStation settings when backing up from Command WorkStation
- FreeForm/VDP resources
- Paper Catalog
- Virtual Printers
- Server Presets
- Fonts
- Job Log





Fiery System Image in Fiery WebTools

Fiery System Image from the Fiery QuickTouch Panel (Windows servers only).

Every Saturday: 03:00 AM

See the user documentation for your Fiery server for instructions on how to use Fiery System Image.

① RECOMMENDATION: Fiery strongly recommends a full backup of the system image on a regular basis. This backup should be stored offsite.

Benefits:



8:00 PM

49



- Sets up an automatic backup schedule from Fiery QuickTouch and WebTools
- Restores the Fiery server in less than an hour
- Create a bootable USB recovery device
- Schedule automatic backups
- Gives administrators the flexibility to quickly back up and restore a Fiery system image
- Eliminates the need for a separate backup application
- Allows analysts and customers to easily and conveniently restore a customer system

Fiery Installer Builder

Fiery Installer Builder manages the download of a complete Fiery software and operating system image to reinstall the Fiery server using the USB port.

Fiery Installer Builder downloads from a cloud location, and allows users to prepare a bootable USB flash drive to install the software on a Fiery server. Users can also install the image from their computer to a replacement Fiery hard disk drive using a USB-to-SATA adapter cable for external servers.

The image includes:

- Operating system
- Fiery software
- User software

Any other Fiery software that is pre-installed for that particular Fiery configuration

Fiery Installer Builder is designed as a tool for analysts and technical support representatives of Fiery partners, who will find it on the <u>Fiery Partner Portal</u>. Login requires valid Fiery Partner Portal credentials.

Fiery Clone Tool for embedded servers

The Fiery Clone Tool for embedded servers creates an identical copy of the entire Fiery server to an image file, with the exception of previously created clone image files and any print jobs in the Print queues. This image file can then be used for a fast and easy system recovery. This feature is intended for use by technical service representatives only. The Fiery Clone Tool for embedded servers can be used on any identical Fiery server model. There are no restrictions on the Fiery software products included on the clone.

The Fiery Clone Tool for embedded servers supports Linux operating systems only. The tool will display an error if used on an unsupported Fiery server. For more information, refer to the user guide available in the <u>Fiery Download Center</u>.

Users boot and launch this tool from a USB drive prepared by the USB Prep Tool version 1.3.4 or later. The minimum size for the USB drive is 4 GB.



The Fiery Clone Tool for embedded servers software can also be downloaded from the Download Drivers page of <u>fiery.com</u>. Click the Application Software and Tools tab to select Fiery Clone Tool for embedded servers.

Benefits:

- Performs an effective cloning process with simple and intuitive steps
- Delivers easy and fast recovery of the Fiery embedded server and restores the system to production mode in minutes.

Fiery system software installation

Decoupling Fiery software from the Windows operating system for installation provides several benefits:

- Reduces re-installation time¹ –no need to re-install the Windows OS and download all the Microsoft security updates if Fiery software needs to be reloaded²
- Simplifies paid upgrades to the latest Fiery version enables faster Fiery software upgrades for systems in the field.



Benefits

- Makes servicing and supporting Fiery servers easier and faster for service technicians
- Improves service experience by reducing Fiery software installation time

Fiery deployable image

Fiery deployable image 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, making it a great time-saving tool for service technicians installing multiple Windows-based Fiery servers in an organization.

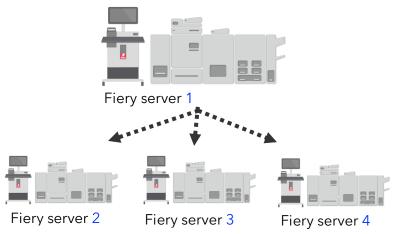
This feature is only available to external Windows-based Fiery servers. It provides similar functionality to the Fiery Clone Tool for Linux-based embedded servers.



¹ When using Fiery Installer Builder (FIB)

² Recovery/restore workflows from Fiery backup images includes both Windows OS and Fiery software





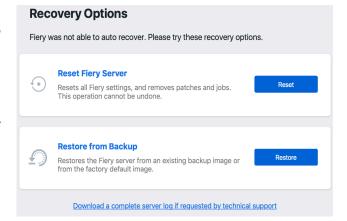
Benefits:

• More efficient way to install multiple Windows-based servers in an organization

Fiery auto-recovery

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

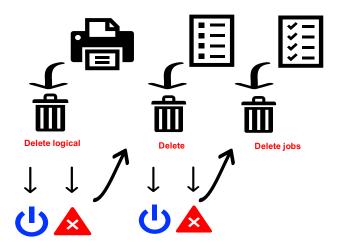
Fiery auto-recovery automatically restarts the Fiery software when the monitoring agent detects an error condition. If the error condition persists, Fiery auto-recovery automatically performs a full system reboot to bring the Fiery server back to an idle state.



Fiery Recovery in progress...

Fiery auto-recovery progress bar in Fiery WebTools and Fiery QuickTouch





In Recovery Mode, the Clear Fiery Server function is a three-step process. Steps run in sequence to preserve items such as raster data or jobs so they're not being unnecessarily deleted.

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:

- 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 (preserving raster data and jobs so that items are not unnecessarily deleted), and perform a new server reboot to take the server back to an idle state
- 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.

Benefits:

- Increases Fiery server uptime
- Reduces field support and service calls

Server configuration sheet

Fiery servers can print a configuration sheet. Users see commonly used items such as server name, IP address, and printer name. If printing the configuration sheet from a Windows-based Fiery server, users will also see details of the Fiery applications and the version numbers installed on the server – for example, Fiery Command WorkStation 7.x.x.x or Fiery Hot Folders 3.3.0.29.





Having easy access to this information makes it easier for technical support staff to reproduce user scenarios.

Users can print the server configuration sheet, or save it in a PDF or text format. When printing the server configuration sheet from the Command WorkStation Device Center, users can also choose Job Properties so they can print on whatever media is loaded in the trays.

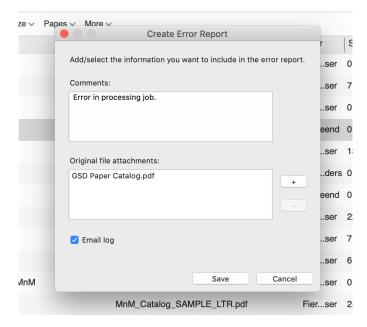
Benefits:

- Improves usability by making it easy to access all necessary system information from one location or in one printed document
- Allows administrators to print the configuration sheet on any paper size or weight



Job error report

The Job error report (JER) captures important troubleshooting information that Fiery Technical Support personnel use to resolve issues. This feature automates collection of the raster file, native file, color profiles, job logs, configuration sheet, job and job ticket, engineering logs, and optional operator comments into a zip file that users can save on the desktop with a simple click. By using this collected information, Fiery Technical Support can provide faster problem resolution.



Creating a JER





GDPR compliance

This section describes the compliance of Fiery products with the General Data Protection Regulation (GDPR).

Fiery does not automatically collect any personal data from Fiery DFEs without the consent of the owner/operator of the printing system.

Fiery, or Fiery partner manufacturers of print engines, may request a Fiery DFE server configuration sheet. This sheet contains one or more IP addresses that may identify the business, but likely not an individual. It may also be necessary to send Fiery an encrypted Job Error Report and possibly other reports to further identify and solve technical issues. Server IP address, job name, and a user or job submitter name, which may or may not constitute personal data, are collected along with Fiery operational data. Fiery partners will sometimes provide Fiery with the name of an individual and his or her contact information to allow Fiery to contact the owner/operator to gather more information or to provide direct technical support to resolve a problem.

Benefits:

- Facilitates communication of all necessary information to Fiery Technical Support
- Provides faster and easier resolution of problems

Security audit log

To help their organizations with compliance requirements, Fiery administrators can collect and analyze security-related events, such as changes to Fiery security settings. These events are automatically saved to the Fiery security audit log. The security audit log, enabled by default, allows the administrator to monitor product behavior and proactively address security-related issues.

Each security event is classified as Information, Warning, or Error to assist administrators to assess the event relevance.

Logs are provided in industry-standard formats and integrate with third-party Security Information and Event Management (SIEM) solutions.

For Windows-based external Fiery FS600 Pro servers, administrators can read security logs using Windows EventViewer. For Linux-based embedded Fiery FS600 servers, security logs are in Syslog format and can be routed to a remote server if needed.

Benefits:

• Enables compliance with customer security requirements and industry regulations.



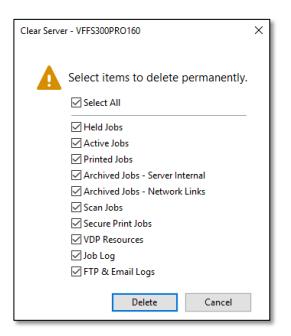


 Allows Fiery administrators to monitor product behavior and proactively address securityrelated issues

Clear Server

The Clear Server feature provides expanded cleanup choices to securely erase unwanted jobs or user data. It offers a dialog box that allows the user to clear selected file types, resources, or logs from the currently selected server. Administrators can use it to securely erase secure print jobs, VDP resources, FTP and email logs, and other types of information. This also helps to improve the security of the Fiery server. The latest enhancement ensures that the Clear Server option is available for all user job data and, if the Secure Erase preference setting is enabled, the selected items are securely erased from the server. It is a standard feature for external and embedded Fiery servers.

The Clear Server setup window is located in Command WorkStation under the Server menu.



Benefits:

- Allows administrators to control what to keep on or remove from the Fiery server
- Securely erases selected data from the server

Network status notifications

The Fiery server monitors the network connection status and provides notifications when it is unable to connect. These notifications provide Fiery administrators better visibility into customer network stability issues that could impact Fiery availability, as well as could prevent unnecessary Fiery server reboots.

These notifications appear on the Fiery LCD, Fiery Ticker, Fiery QuickTouch, Fiery WebTools, and in Fiery Command WorkStation.

Fiery administrators can disable or enable these notifications in Fiery WebTools. Network event messages also generate a log that can be used for additional investigation or troubleshooting.

Network integration and security in corporate environments

Fiery networking technologies allow users to print and manage Fiery servers from popular network environments. Fiery servers deliver the most comprehensive set of tools for IT managers



and system administrators to help keep the software updated, to automate security controls, and to simplify the administration of the Fiery servers on the network.

From controlling access to the Fiery system to managing open network ports and securing the system's hard drive data, the Fiery server is flexible in its configuration and rigorous in its implementation of security protocols.

Fiery is committed to continuously supporting customers with security solutions. For more information, refer to the <u>Fiery Security White Paper</u>.

Security

Fiery understands data security is one of the top concerns for organizations and businesses worldwide. Our products and internal systems are frequently enhanced with the latest security features to protect your data. We also work closely with our global partners and suppliers to continuously support our customers with solutions as threats evolve.

This product guide highlights select security features on Fiery servers. For more detailed information about security, please refer to the following resources:



Fiery security webpage



Fiery FS600 Pro security white paper

Operating system support

Fiery FS600 Pro and FS600 servers ship on the following operating systems:

- FS600 Pro: Microsoft Windows IoT Enterprise 10 2021 LTSC
- FS600: Debian 11 Linux

Support customer-supplied Windows 10 operating systems

Specific customers in high-security environments, such as government or finance, can choose to install and maintain their own custom Windows 10* semi-annual channel (SAC) operating system





(OS) image on the Fiery server, rather than the Windows 10 2021 LTSC OS that is installed by default on Fiery servers. Custom OS configurations like SAC comply with specific organizational security policies. This provides the flexibility high-security environments need to comply with security policies and industry regulations.

① Note that some Fiery server functions may not be operable on a Windows 10 SAC OS. Fiery Professional Services may be required to assist in installation and configuration. For more details, please contact your Fiery reseller.

Benefits:

• Enables high-security environments to use a custom hardened Windows OS image to meet security compliance requirements

Security updates

Fiery FS600 Pro servers include all the latest security updates required to meet industry security compliance.



Complete security and architecture compliance information for Fiery FS600 Pro servers can be found in the Fiery security white paper.



FIPS 140-2 compliant data encryption

Fiery DFEs running Windows 10 2021 LTSC and Fiery FS600 Pro software can be configured to meet FIPS 140-2 data encryption guidelines.

A Fiery DFE in FIPS 140-2 mode uses only cryptographic algorithms validated and certified under the U.S. Federal Government's Cryptographic Algorithm Validation Program (CAVP) to encrypt data at rest and data in transit.



Benefit:

 Ensures that cryptographic modules meet high security standards established by the U.S. federal government, enhancing the security and integrity of sensitive data.

Secure Erase (NIST 800-88 compliant)

National Institute of Standards and Technology Special Publication 800-88 Revision 1 or NIST 800-88, is the U.S. government standard for data sanitization. Its objective is to ensure that any customer data deleted from storage media becomes irretrievable.







With this feature, available for all Fiery FS600 Pro DFEs on Windows, Fiery administrators can securely erase all the actual data stored on the server to prevent data leakage when replacing or disposing the disk drives.

Benefits:

- Ensure that any data found on storage media becomes irretrievable.
- Reduce the risk of data breaches.
- Enable compliance with industry regulations.

Login with SSO (Single Sign-On)

Users can now log in to a Fiery server using their existing AAD (Azure Active Directory) credentials. It supports multi-factor/two-factor authentication (MFA/2FA) workflows. For example, log in with CACs (common access cards), mobile apps, etc.

Benefits:

- Improved security
- Enhanced Fiery IT friendliness
- Support for cloud-based authentication and authorization solutions
- Meet industry compliance requirements

Password SSO Login Cancel Log In

Fiery FS600 Pro

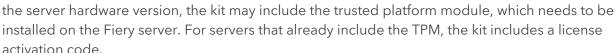
Log In

User name

Fiery High Security Kit v1.0

This new optional kit provides customers with increased protection against unauthorized access and tampering of the system and enables full compliance with industry regulations and standards, such as FIPS 140-2 and Common Criteria.

This kit takes full advantage of a trusted platform module (TPM) to enable encryption of the Fiery server boot drive. Depending on



Authorized Fiery resellers can find more information on the Fiery Partner Portal.

Benefits:

- Increased protection against unauthorized access and tampering of the system.
- Meet industry compliance requirements.





Fiery IQ

The Fiery IQ suite of applications lets users connect people, processes, and print devices, so users can make better data-driven decisions. Use these free and paid applications to:

- Visualize key production data and the current status of printers in near real time from Fiery Dashboard
- Capture and transform print production data into actionable analytics to drive business improvement with Fiery Insight
- Stay connected with print devices from iOS or Android mobile devices with EFI Go
- Streamline the color verification process and gain insights into your color quality across Fiery Driven print systems to produce accurate, consistent color with Fiery ColorGuard
- Gain control of print output environment by maintaining Fiery® servers in optimal condition, and keeping Fiery DFE's in compliance with Fiery Manage
- Receive alerts about production-blocking events, and automate distribution of production reports to ensure that you never miss any production issue with Fiery Notify

The Cloud Connector application comes pre-installed on Fiery servers running Fiery FS600 Pro. This streamlines the onboarding process of the Fiery server to an IQ account and enables users to quickly start collecting and sending data to Fiery IQ.

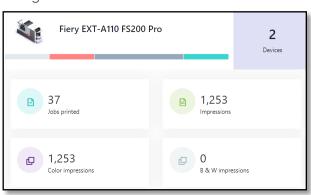
Build a stronger, more profitable business with production data using Fiery IQ applications. For more information, visit the <u>webpage</u>.

Fiery Dashboard

Users can get a quick overview of the current state of their printers. Use key production metrics like these, so users can make data-driven decisions to get more volume out the door:

- Total number of jobs printed, including color and black and white impressions
- Status of each printer
- Device view specific to user role in the company
- Consumable details for each printer
- Device configuration

Users can also launch free and paid Fiery IQ applications.



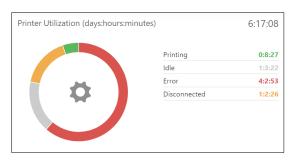




Fiery Insight

Fiery Insight captures key print production data, and transforms it into useful visual analytics to provide valuable, actionable information. With Insight, users can:

- Monitor printer utilization analytics and take steps to maximize uptime
- Use job by source information to identify opportunities to increase the use of automated workflows
- Track printer usage for upcoming equipment purchases and renewal planning



- Compare print device performance, identify production bottlenecks, and uncover areas where your staff may need additional training
- Identify patterns of consumable usage to forecast volume demands based on historic trends

Build a stronger, more profitable business with production data using Fiery Insight analytics.

Benefits

Trend

- Monitor production trends to identify inefficiencies in workflows or pinpoint issues that are
 affecting productivity and profitability.
- Analyze the cause of idle time and take steps to improve device utilization
- Make better, faster decisions by knowing what is happening in real time
- Improve workload balance and capacity planning

Compare

- Compare data from printers at the same or different locations.
- Share best practices within an organization to increase performance
- Drill down into production-blocking events and share information with operators so they can act to improve response times

Job Log

- Export production metrics for further analysis
- Download the data to eliminate manual data entry

Fiery Notify

Stay in control of your production by receiving alerts about production-blocking events and production reports on a daily, weekly, or monthly basis.

• Get accurate data such as error details, source, and duration of blocking events





- Receive alerts via email or the EFI Go mobile app
- Configure the frequency of notification based on your role in the organization
- Subscribe to production reports for the key indicators you need to run your business

EFI Go

Use EFI Go to stay connected with a print production system and get the information needed to make decisions to achieve higher productivity.

- View current printer status, and toner levels
- Check printer status, warnings and error messages
- Get a complete printer state statistic for the last 24 hours or more (up to a week)
- Monitor the print queue to see the list of jobs lined up for printing, and the list of printed jobs
- Receive notifications about print system errors so you can accelerate print system restoration
- View thumbnails from queued or printed jobs





Fiery ColorGuard

Today's digital presses deliver stunning print quality. But, without a good color verification process, the printed results may not match the expectations of color-critical print buyers. In that case, they may reject jobs due to poor color quality – leading to higher costs and lower profitability. To avoid this, users need a solution that can streamline their color verification tasks and track color quality to achieve consistent, accurate color quality.



Benefits

Schedule

- The scheduling capability brings order to production quality chaos by standardizing the color verification process
- Eliminates ambiguity and guesswork about color verification tasks by making the process of measuring color quality a standard operating procedure across print manufacturing operations
- Increases operating efficiency and customer satisfaction with higher color print quality

Notification

• Automated notifications about color verification status keeps the production manager and press operators focused on color quality.





- Reduces press downtime and lowers the total cost of ownership by regularizing color verification and device calibration
- Reduce job reprints to increase customer satisfaction and eliminate waste

Color Compliance

- Seamless integration between Fiery servers and Fiery ColorGuard makes it easy for print production managers to follow color verification process and generate color compliance report.
- Improves visibility of color quality by connecting production teams and color verification processes in real time through Fiery cloud technology
- Enhances responsiveness of print production teams to achieve the best color quality by providing real-time access to color verification data

Analytics

- Powerful analytics and trend tracking helps print managers increase operating efficiency and improve color-quality performance over time.
- Get real-time visibility into the color verification results and trends anytime, anywhere
- Use color compliance reports to position yourself as quality-driven print service provider

Fiery Manage

If users want print production to run smoothly, it's crucial to stay in control of a print environment every day. Fiery Manage lets you:

- Create, store, and deploy configurations across all Fiery Driven devices of the same model, for more consistent quality and predictable production
- Check and report Fiery systems that that don't match master configuration, so users can take immediate action to bring Fiery DFE back in compliance
- Identify print device issues and changes to the device configuration that are blocking print production, so you can minimize production slowdowns

Benefits

Sync

Achieve optimal print outcome by creating, storing, and deploying configuration packages
that include color profiles, presets, and paper catalogs on devices of the same model for
consistent print quality.

Compliance

• Maintain consistent production performance by checking and reporting Fiery system that are not in compliance and taking immediate action to keep them up to date.





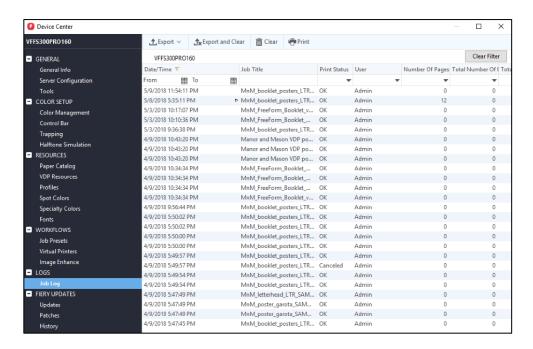
Monitor devices

 Keep print production running smoothly by remotely monitoring your print devices, identifying issues that are blocking print production, and directing the operator to respond quickly.

Cost accounting and billing integration

Fiery Job Log

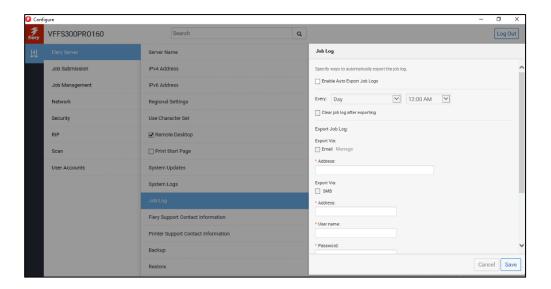
A robust job log tool is available through the Device Center of the Fiery Command WorkStation to users with operator-level or higher privileges. The Fiery Job Log provides a record of all job activities. The Job Log can be viewed at the Command WorkStation, Device Center, logs tab. Users can customize the Job Log by selecting the columns of information to be displayed. They can sort the data by several criteria. A job log can be used for accounting, billing, and tracking equipment usage. Customizing job logs makes it easier and faster to search for specific data in the Job Log.



Print job logs

Users can print the Job Log at any time. To assign Job Log printing privileges and select the paper size to print it on, go to Configure / Server / Job Log.





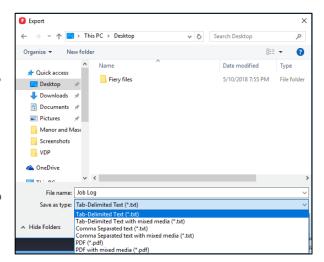
Export Job Log

Users can export the data in the Job Log as a txt or pdf file. They can export the complete log (all the data that is collected) or the current view (only the data they selected to display in the Command WorkStation, Device Center, logs tab).

Job Log Auto Export

The Fiery administrator has the option to automatically send, clear, and save the job logs at a scheduled time. They can choose to submit the job log by email, or save it to an SMB or FTP location.

This feature is configured through Command WorkStation or the Configure tool. It allows the Fiery administrator to define their Job Log preferences, including options such as where to send the job log, the schedule for sending (such as weekly, monthly, etc.), and whether to clear the job log on the Fiery server after



sending. This is a "set-and-forget" feature, which requires no user intervention after initial setup.

The job log is sent as a comma-separated-values (CSV) formatted text file that contains the default set of Job Log columns, as they appear in Command WorkStation.



This feature is ideal for corporate and education environments where the accounting department requires a job log report for costing purposes, but the accounting staff does not have Command WorkStation or know how to retrieve these logs.

In addition to the convenience of automatic job log transmittal, automatic clearing prevents the log from becoming too large and taking up unnecessary resources on the Fiery server.

Benefits:

- Saves time by automating report generation and submission
- Improves accuracy of cost management and control by improving communication of Job Log reports to accounting departments
- Automatic retrieval of job log guarantees access to exported data, even if Fiery software is reinstalled

Tracking jobs with PaperCut

Managing production print with PaperCut MF or NG allows Fiery customers to allocate costs with Fiery tracking and reporting. Administrators can now limit unnecessary printing and encourage positive user behavior to enable Fiery cost recovery.

Fiery Driven devices have the ability to hold and reprint jobs, and to manage the print job settings after PaperCut has analyzed the job on the print server. For this reason, users need a custom program to integrate PaperCut to track print jobs released from Fiery servers. PaperCut has developed a program that checks Fiery print logs and updates PaperCut with the jobs that are reprinted. More information is available here.

Tracking jobs with Equitrac

Equitrac® gives businesses the flexibility to let users print what they need and when they need it, while reducing the costs and complexities of deploying a print infrastructure. It is the most intelligent way to print–reducing costs, making printing secure and increasing user satisfaction.

Equitrac integration with Fiery digital print servers requires the Fiery server to be properly configured. See tested Fiery servers and request configuration guides <u>here</u>.

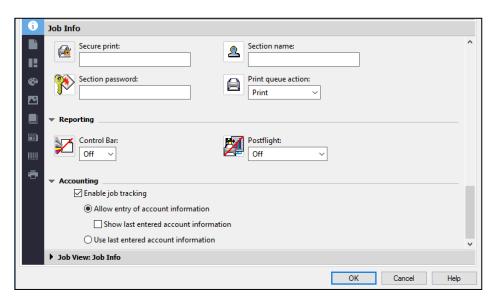
Job cost tracking

The Fiery driver includes the Job Cost Tracking feature, which configures the print driver to record the accounting information included in the print job. This means that print providers without a cost-accounting solution have a way to track print activity. The account code assigned is associated with a specific department or client project, and provides accurate printing costs that can be allocated back to the internal department or client project.

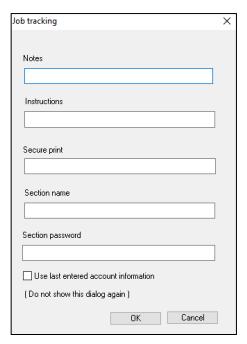
A pop-up dialog box comes up immediately after users click print, to remind them to enter the account information which is collected in the Fiery Job Log so that it can be retrieved and exported to other accounting systems.



The feature does not validate data entered in the pop-up dialog box. The print engine does any required validation.



Job Tracking setting in Fiery driver



Job Tracking account information required



Mobile printing

Direct Mobile Printing

Fiery servers provide Direct Mobile Printing for Apple iOS devices. Wi-Fi-enabled Apple iOS devices will automatically discover any Fiery Driven printer on the same network inside the corporate firewall. Users or IT administrators don't need to install any additional print drivers or software for the iOS devices. Visiting remote employees can print using their Apple iOS device without looking for a printer, installing print drivers, or requiring assistance from corporate support resources. Local employees can print while moving around to different departments, conference rooms, and other locations in the company on the same network.

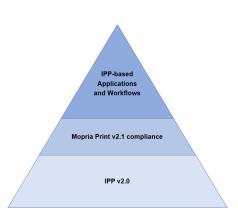
Benefits:

- Allows visiting remote employees with Apple iOS devices to easily print without any additional steps
- Allows local employees with Apple iOS devices to change locations and easily print without any additional steps

Support for IPP 2.0

Fiery servers now support IPP 2.0 operations and attributes. This version enables Fiery servers to integrate with modern IPP-based workflows and applications such as cloud printing, authentication, and management.

This industry compliance allows additional use cases such as driverless printing; and cloud-centric workflows such as Universal Print by Microsoft, PaperCut, etc.



Benefit:

• Facilitates Fiery integration with third-party solutions.

Compliance with Mopria Print Service

The Mopria® Print Service offers a simple and seamless way to print to any Mopria-certified printer or multi-function device. It eliminates the need to install any additional software or drivers, allowing users to easily print – regardless of the printer brand.



Fiery FS600 Pro servers are compliant with Mopria print version

2.1. This compliance optimizes the user experience and ensures interoperability with future and legacy applications in the office and light production markets.



The Mopria Print Service is supported by most printing and imaging OEMs, as well as major IT solutions providers such as Microsoft, Adobe, and Google.

To learn more, visit the webpage.

Benefit:

 Optimizes printing and improves compatibility with applications for office and light production markets.

Native support for Microsoft Universal Print

Universal Print is cloud-based print management solution by Microsoft®. Universal Print enables IT administrators to reduce their IT infrastructure costs by moving print management to the cloud. It's fully integrated with Microsoft Entra ID (Azure Active Directory) and supports single sign-on scenarios.

Universal Print addresses business demand for secure, cloud-based printing and management in remote/hybrid work environments.

Fiery FS600 Pro servers include native support for Universal Print. IT and printer administrators can seamlessly connect Fiery servers directly to their Universal Print portal without requiring additional infrastructure or connectors.

egrated Directory) Microsoft Entra ID

Universal Print

Universal Print

connector

Printer (without native

Benefit:

 Connect Fiery servers to the Universal Print Portal seamlessly and without extra infrastructure.

Windows



support



Access to training and Fiery users worldwide

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.com |
|---|--|
| Fiery online resources | resources.fiery.com |
| Explore the Fiery digital front ends sold by Fiery partners | fiery.com/partners |
| Fiery production solutions | solutions.fiery.com/production-solutions |
| Fiery Workflow Suite | fiery.com/workflow-suite |
| Fiery integration to third-party software | fiery.com/integration |
| Fiery driver downloads | download.fiery.com/drivers |
| Fiery Command WorkStation main page | fiery.com/cws |
| Fiery software free trial request | fiery.com/free-trials |
| Training resources at Fiery Learning | <u>learning.fiery.com</u> |
| Fiery Communities | fiery.com/communities |

Fiery Learning

<u>Fiery Learning</u> delivers learning resources that best fit users' needs, using 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 Fiery subjectmatter experts
- Webinars: access to recordings of World of Fiery webinars, an ongoing program of educational, free
 - going program of educational, free
 webinars that feature valuable information for color professionals, and owners and
 managers of print businesses or in-plant/CRD operations
- 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 they can do more, be more, and take their careers to the next level. Be a step ahead of the others. Our paid certification programs will help print professionals stand out in the workplace.

Fiery Professional Certification

The Fiery Professional Certification teaches print professionals the necessary skills to optimize the performance of Fiery technology solutions. Developed by Fiery 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 indepth expertise. The expert courses help students master the advanced Fiery toolsets and learn to use the full range of features.

Fiery Technician Certification

The Fiery Technician Certification program equips service technicians with the knowledge and skills required to optimize performance and maintain Fiery technology solutions.

Ghent PDF Output Suite 5.0 Conformance Certification

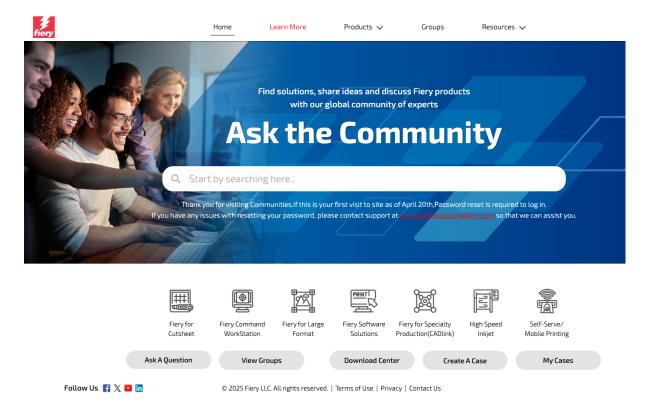
Having Ghent PDF Output Suite 5.0 conformance for your Fiery Driven[™] print system is not only a way to achieve PDF/X-4 standards compliance, but also a very valuable marketing tool to show your customers that they are in safe hands when it comes to their printed products.

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



Fiery Communities

Fiery hosts a customer engagement platform, <u>Fiery Communities</u>. Here, Fiery users have a place to find solutions, share ideas, and discuss Fiery products with our global community of experts.



Fiery Communities also offers additional great features:

- 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 personalized feed which is created dynamically, based on your previous activities on the site.
- The ability to select the "best" answer from multiple solutions.
- Mobile-friendly design
- Fiery Licensing Assistant, an automated chat option designed to quickly help with licensing-related questions.





For more information, please visit <u>fiery.com</u>.

Nothing herein should be construed as a warranty in addition to the express warranty statement provided with Fiery, LLC products and services.

ColorGuard, ColorRight, Command WorkStation, ColorWise, Fiery, the Fiery logo, Fiery Compose, Fiery Driven, the Fiery Driven logo, Fiery Edge, Fiery Essential, Fiery HyperRIP, Fiery Impose, Fiery Impress, Fiery ImageViewer, Fiery Intensify, Fiery JobExpert, Fiery JobFlow, Fiery JobMaster, Fiery Prep-it, Fiery Prints, the Fiery Prints logo, Fiery TrueBrand, FreeForm, MicroPress, IQ, PrintMe, RIPChips, RIP-While-Print, Spot-On, Spot Pro, and WebTools are trademarks or registered trademarks of Fiery, LLC and/or its wholly owned subsidiaries in the U.S. and/or certain other countries. All other terms and product names may be trademarks or registered trademarks of their respective owners and are hereby acknowledged.

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