

Xerox[®] FreeFlow[®] Core Release Notes

Software Version 6.2.1

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Preface

Welcome to the Xerox® FreeFlow® Core and FreeFlow Core Cloud Release Notes. This document contains important information regarding system requirements, new features and enhancements, known issues and limitations, and supported printers for the current software release.

Unless otherwise noted, the information contained herein applies to both the FreeFlow Core on-premise and FreeFlow Core Cloud configurations.

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1. System Requirements

Minimum System Specifications

FreeFlow Core

Xerox® FreeFlow® Core is supported on standalone which is a dedicated platform that meet or exceed the system requirements defined below.

Installation of FreeFlow Core is supported on private local or wide area Ethernet networks (Intranet) only. Connectivity over the public Internet is supported in conjunction with Xerox Cloud Services only.

It is the responsibility of the Customer to provide, install and configure a standalone PC or server with an appropriately licensed version of the Operating System that meets the minimum system requirements for such Operating System prior to installing the software.

FreeFlow Core cannot be installed on Domain controllers or backup Domain controllers.

Performance Guidelines

FreeFlow Core includes a service that automatically monitors critical resources and provides both email notifications and a warning in the User Interface when memory, disk space and/or database table space become constrained. These warnings are not only informational but identify conditions that will prevent reliable operation of the system.

If these errors appear, upgrade the FreeFlow Core server with additional resources (e.g., system memory and hard disk space).

*The Basic configuration is suitable for performing basic workflow operations only or for evaluating the software. For all other environments, a system that meets or exceeds the High-Performance specifications should be obtained.

	Basic*	High-Performance
Processor	Intel Core i7 Processor (or AMD equivalent), 3.3 GHz or better (4 or more Cores)	Intel Xeon Processor E5 (or AMD equivalent), 2.5 GHz or better (8 or more Cores)
System Memory	8 GB	16 GB
Hard Drive Minimum of 25% free space available at all times. Windows disk volumes up to 4 TB have been tested. Results may vary with larger volumes.	500 GB SATA Hard Disk Drive (HDD) (single disk partition)	500 GB, SATA Solid State Drive (SSD), 3Gbps (RAID 5) Full system backups are required if non-RAID configurations are used.

Peripherals	<ul style="list-style-type: none"> • Monitor and Video Controller with at least 1280 x 1024, 1900 x 1200 (recommended) resolution and 32-bit color • Keyboard and mouse 	
Network	Permanent connection with a fixed (static) IP address	
Intranet	100Mbps	1Gbps
<p>Operating System</p> <p>Windows Basic, Core, Education, Home, IoT Core, Mobile, Starter, Team, "S", "X", and Preview editions of Microsoft Operating Systems are not supported. Prior to using multi-point server, small business server, or Essentials editions check with product support as some releases are not supported.</p> <p>To achieve optimal performance, choose the 'High Performance' power plan from the Power Options Control Panel.</p>	<ul style="list-style-type: none"> • Microsoft Windows 11 • Microsoft Windows 10 (64 bit) <p>Windows should always be maintained at the current supported software level.</p>	<ul style="list-style-type: none"> • Microsoft Windows Server 2022 • Microsoft Windows Server 2019 • Microsoft Windows Server 2016
Infrastructure	<ul style="list-style-type: none"> • Microsoft .NET Framework 3.5 SP1 must be enabled for some versions of SQL Server. Consult the Microsoft SQL Server documentation for more information. • Microsoft .NET Framework 4.8.0 • Microsoft SQL Server 2014 SP1 or higher. Enterprise, Express, and Standard editions are supported. <p>FreeFlow Core may be configured with a remote SQL database. See the Installation Guide for more information.</p> <p>The server should be configured with a static IP address. DHCP is not recommended.</p> <p>FreeFlow Core supports Single Sign-on (SSO) from customer Active Directory accounts only. Federated login from third party accounts such as Facebook, Google, Apple, etc. is not supported.</p> <p>Do not use cloud based or federated logon accounts such as Windows Live, Microsoft, Outlook, Microsoft 365 (formerly Office 365) or Office 360 for the server or SQL server. The server must use either a Windows local or Active Directory account.</p>	

Web Browser	<ul style="list-style-type: none"> • Current versions of modern browsers from Apple®, Google®, Microsoft®, and Mozilla® <p>Microsoft Internet Explorer and the original Microsoft Edge are not supported. Only Microsoft Chromium Edge is supported.</p> <p>Browsers older than one year are not supported. To avoid compatibility issues, always use the latest version of the browser.</p> <p>Always use desktop computer browsers. Mobile device browsers may exhibit display issues.</p>
Optional Software	<ul style="list-style-type: none"> • Microsoft Office 2021 (64 bit), Office 2019 (64 bit), Office 2016 (64 bit) or Office 365 (64 bit) (if conversion of native file formats to PDF is required) • Adobe Acrobat Reader (to open and view PDF files within the browser window) • Adobe Acrobat Pro DC or Callas pdfToolbox version 13.0.578 (to create custom preflight profiles)

Virtual Environment Support

When installing the software in a virtual environment, it is the Customers' responsibility to support the virtual environment and virtual environment software itself. Customers must also provide a fully configured virtual environment, including access and support thereof to Xerox support, as necessary. The virtual environment must be explicitly configured to meet or exceed the stated physical hardware requirements.

Only issues that can be reproduced on the standard FreeFlow product configuration will be supported. For problems unique to the virtual environment itself, Xerox will make best effort to fix.

FreeFlow Core Cloud Clients

Accessing the cloud service is supported on platforms that meet or exceed the system requirements defined below.

It is the responsibility of the Customer to provide, install and configure the client PC (local system) with an appropriately licensed version of the Operating System prior to accessing the cloud service.

	Requirements for Client PCs
Processor	Intel Xeon Processor E5 (or AMD equivalent), 2.5 GHz or better
System Memory	8 GB
Hard Drive	250 GB of available free disk space
Peripherals	<ul style="list-style-type: none"> • Monitor and Video Controller with at least 1280 x 1024 (minimum) / 1900 x 1200 (recommended) resolution and 32-bit color • Keyboard and mouse
Network	Permanent connection with a fixed (static) IP address

Intranet	100Mbps
Software Components	<ul style="list-style-type: none"> • FreeFlow Core Cloud Print client • FreeFlow Core Submit client
<p>Operating System</p> <p>Windows Basic, Core, Education, Home, IoT Core, Mobile, Starter, Team, "S", "X", and Preview editions of Microsoft Operating Systems are not supported. Prior to using multi-point server, small business server, or Essentials editions check with product support as some releases are not supported.</p>	<ul style="list-style-type: none"> • Microsoft Windows 11 • Microsoft Windows 10 (64 bit) • Microsoft Windows Server 2022 • Microsoft Windows Server 2019 • Microsoft Windows Server 2016 <p>Window 10 should always be maintained at the current supported software level.</p>
Infrastructure	<ul style="list-style-type: none"> • Microsoft .NET Framework 4.8.0
Web Browser	<ul style="list-style-type: none"> • Current versions of modern browsers from Apple®, Google®, Microsoft®, and Mozilla® <p>Microsoft Internet Explorer and the original Microsoft Edge are not supported. Only Microsoft Chromium Edge is supported.</p> <p>Browsers older than one year are not supported. To avoid compatibility issues, always use the latest version of the browser.</p> <p>Always use desktop computer browsers. Mobile device browsers may exhibit display issues.</p>
Optional Software	<ul style="list-style-type: none"> • Microsoft Office 2021 (64 bit), Office 2019 (64 bit), Office 2016 (64 bit) or Office 365 (64-bit) (if conversion of native file formats to PDF is required) • Adobe Acrobat Reader (to open and view PDF files within the browser window)

Security Updates

We recommend that all software products installed on the FreeFlow Core server and clients be kept up to date using Windows Update to obtain the latest fixes and security improvements.

For more information, refer to the *Xerox® FreeFlow® Security Guide*. This document may be obtained from the Xerox Security website at: <https://security.business.xerox.com/>

2. New Features and Changes

Version 6.2.1

VIPP Directory Relocation

The location of the XGFC directory, previously X:\xgfc before Version 6.1.3, has been relocated to C:\Program Files (x86)\Xerox\VIPP\xgfc. VIPP workflows using the X:\xgfc directory should be updated after installing Version 6.2.1.

Updating can be accomplished by either copying the files in X:\xgfc to C:\Program Files (x86)\Xerox\VIPP\xgfc or editing the file C:\ProgramData\Xerox\VIPP\VINIP\vinip.ini by modifying the value of xgfcdir to X:\xgfc where 'X' is the partition where xgfc is located, and rebooting the system after installation.

VIPP workflows should be revalidated and corrected due to the directory change.

Version 6.2

FreeFlow Core 6.2 supports upgrades from version 6.0 or higher. Users on Version 5.n.n must upgrade to Version 6.0 first to upgrade to Version 6.2. To obtain a copy of Version 6.0 for this purpose, contact Xerox Support.

If your FreeFlow Core configuration includes the Variable Data optional module, ensure that you obtain a new license when you upgrade from Version 6.x to Version 6.2. Customers who received an Activation Key(s) with their original purchase can download a new license which is renewed from the Xerox Software Activation Portal at <https://www.xeroxlicensing.xerox.com/activation/> or use the **new FreeFlow Core License UI** or please contact your local Xerox Representative.

Configurations that do not include the Variable Data module do not require a new license.

For instructions on configuring Windows Shared Folders or Microsoft Office Conversion Setup, refer to Installation Procedures.

Updated Graphical User Interface

- The FreeFlow Core Graphical User Interface (GUI) has been updated. The new appearance and behaviors align with evolving user expectations for a responsive web-based experience. The UI is also more compliant with readability, visual contrast and accessibility standards.

Licensing FreeFlow Core (On Premise only)

- Licensing FreeFlow Core using Activation Key(s) or license file upload, may now be performed directly from the FreeFlow Core User Interface (UI), replacing the standalone, FreeFlow Core License tool. For new installations, FreeFlow Core will automatically install in trial mode unless/until a license is obtained. In situations involving trial or production licensing expiration, Users may still log in to FreeFlow Core to perform licensing maintenance.

Redeeming multiple software Activation Keys when the product configuration includes additional optional modules no longer involves a multi-step process.

Password Security

- Passwords are not exposed for security purposes. For new Installations, ensure that the users know to create passwords for the FreeFlow Core Administrator, Database and Service Accounts. A password Hint, which must be different from the password itself, may be entered for each User Account. Account configuration screens are no longer displayed during upgrades for security purposes.

Password recovery is only supported for FreeFlow Core User Accounts when configured in Email Notifications Setup under the Administrator Tab. The FreeFlow Core Configure tool may be used to modify the password for the Database or Service Accounts, if necessary, post-install.

Password Recovery

During Installation, Users will be prompted to enter an Administrator Account and password. Password recovery is not enabled until Email Notification is configured following installation. Following installation, each time a new User is added to the system, the Administrator will be prompted to specify an Email address to enable password recovery for each User. To disable this message, select the `Do not show me this message again` checkbox.

JDF Compliance

- FreeFlow Core is compliant with Job Definition Format (JDF) 1.7 and has been certified to support the Integrated Digital Printing Interoperability Conformance Specification (ICS). Conforming JDF job tickets may be submitted to FreeFlow Core for processing.
- FreeFlow Core Hot Folders support submission of JDF or JDF MIME files for processing.

FreeFlow Core Certificates (On Premise only)

FreeFlow Core Certificates enables configuring secure printing between FreeFlow Core and a Xerox Printer Destination. The FreeFlow Core Certificates tool is no longer a separate, standalone utility and has been merged with the FreeFlow Core Configure tool.

Except for the FreeFlow Core Configure tool, all standalone utilities are now accessible directly from within the FreeFlow Core User Interface. The FreeFlow Core Reports Command Line Interface (CLI) remains unchanged.

Operating System Support

Support for Microsoft Windows 11 and Windows Server 2022 has been added. For more information, refer to [System Specifications](#).

Microsoft has introduced new minimum system requirements for installing Windows 11 on a PC. Before installing or upgrading to FreeFlow Core 6.2, visit Microsoft website to determine if your PC supports Windows 11.

Microsoft Office

Support for Microsoft Office 2021 has been added.

Callas pdfToolBox

Support for Callas pdfToolBox version 13.0.578 has been added.

FreeFlow VI Suite

FreeFlow Core is compatible with the latest release of the VI Suite, version 17.

Call For Assistance (CFA) Support

Users can automatically access system diagnostics to assist Customer Support in the event of system errors. The Call For Assistance (CFA) feature can be accessed under the question mark (?) icon in the upper right section of the user interface and includes the ability to acquire basic diagnostic information only, or the entire system log (Spool) file.

The Spool file can be extremely large and may not be required in all cases. Before determining what level of diagnostic information is required, contact Customer Support.

Installation in Virtual Networks (On Premise only)

Installation of FreeFlow Core is supported on private local or wide area Ethernet networks (Intranet) only. When installing FreeFlow Core On Premise in an Amazon Web Services (AWS) virtual environment, FreeFlow Core supports Amazon Relational Database (RDS) mode.

Large Jobs

FreeFlow Core supports uploading files up to 15 GB in size.

Leading Banner Pages

FreeFlow Core can inform JMF clients if a printer supports Leading Banner Pages when queried via JMF. Leading Banner Page JDF commands from JMF clients will be processed if supported by the Printer Destination. For more information, refer to FreeFlow Core SDK.

Job State After Abort/Reboot

Paused jobs retain their state in the event of job failure or system reboot. Jobs are no longer automatically deleted from the system.

Preflight Notification

The Email notification generated by the Preflight Component has been improved to reflect the actual result(s) of the preflight process versus a generic message.

List Navigation – Search Function

Sections of the User Interface that include List Views including the Workflow List, Job Manager and Hot Folder Setup, now include a Search function that supports autofill to quickly and easily find items in the list.

Collect Component Release Time in Seconds

The release time for the Collected Jobs are held for and Time since last job collected options in the Collect Component can now be specified in seconds as well as minutes (XX:YY).

This feature requires the requires the [Output Management optional module](#).

Support for Standard Keyboard Functions

FreeFlow Core supports standard keyboard functions (Ctrl/Cmd+) including Selecting items, Cut, Copy and Paste, in sections of the User Interface that support List Views.

Expanded Support for Variables

Variables may now be assigned in any Workflow Component that supports editable text fields. To quickly find a Variable, simply begin typing the name of the variable and FreeFlow Core auto-completes the entry by displaying a list of choices to select from.

Year Precedes Date in TimeStamp Variable

The TimeStamp Variable now includes the option to specify the year in front of the date. For example: 2022-03-01.

LPR Device Status (On Premise only)

FreeFlow Core uses Line Printer Queue (LPQ) to determine to status of LPR Printer Destinations configured in the system. The status of the LPR Printer is displayed in the Printer Management and Status Tab.

LPR is supported for [Xerox](#) and [select Canon PRISMAsync Print Server devices](#). For more information, refer to [Supported Printers](#).

FreeFlow Core Exchange

FreeFlow Core Exchange now supports the ability to define the name and location of the file upon Export.

Secure IPP Printing with EFI Fiery Controllers

FreeFlow Core supports Secure IPP printing to Xerox Versant devices with EFI Fiery Controllers. See the EFI Fiery document for instructions on how to create and install a self-signed (SSL) certificate on the Fiery Controller. For more information, refer to [Secure Printing](#).

FreeFlow Core Cloud and Xerox Integrated Print Server

FreeFlow Core Cloud supports an expanded set of device attributes for Xerox printers that utilize the Xerox Integrated Print Server.

User Access to Advanced Application Configuration Settings

Additional User-configurable settings are now supported via the Customer Override tab in the FreeFlow Core Configure tool.

User-configurable setting eliminating the need to manually modify system configuration settings or files. If users are unfamiliar with these settings, before making the changes, contact Customer Support.

Enhanced Support for Select Canon® PRISMAsync Print Server Digital Presses

- Printer Job Commands such as Release, Hold, Cancel are supported for jobs sent to select Canon PRISMAsync Print Server devices.
- Job Status at the Canon PRISMAsync Print Server displayed in FreeFlow Core.
- Additional job attribute support using JDF such as Exceptions, Inserts, Offset.
- Select Canon PRISMAsync Print Server devices can be added as a JDF printer in FreeFlow Core Cloud.

For important information regarding capabilities and supported printer model(s), refer to [Known Issues and Limitations](#) and [Supported Printers](#).

Version 6.1.1

Email Notification

FreeFlow Core now supports the option to use a Gmail account in addition to a customer SMTP account for sending Email notifications.

The preconfigured Xerox Email account is no longer supported. If you are using the Xerox account, you must change the account to a Gmail or customer SMTP account under Email Notification Setup. FreeFlow Core Cloud supports a customer SMTP account only.

Redeeming/Licensing Multiple Activation Keys

When obtaining a License during the initial installation process, or when using the Core License Tool, it is now possible to redeem multiple software Activation Keys when the product configuration includes additional optional modules. Previously, redeeming additional Activation Keys required a multi-step process.

JDF 1.6 Compliance

FreeFlow Core is compliant with JDF 1.6, including updated JMF command support for signals such as AbortQueueEntry, RemoveQueueEntry and ResumeQueueEntry.

Support for Select Canon® Monochrome Sheetfed Digital Presses

Limited support for select Canon Monochrome Sheetfed Digital Presses with PRISMAsync Print Server.

For important information regarding capabilities and supported printer model(s), refer to [Known Issues and Limitations](#) and [Supported Printers](#).

- To add a Canon Printer Destination in Printer Management and Status:
 1. Specify the IP Address of the PRISMAsync Print Server and append Port Number 8010 to the IP Address [IP Address:8010].

2. For the Queue Name, select the Automated Workflow Name or Printer Default Print Queue defined on the Canon PRISMsync Print Server.
- To register a Canon printer for LPR Job Submission:
1. Enter the DNS Name or IP Address.
 2. For Queue Name, enter Canon Automated Workflow name or default.
 3. Set Printer File to PDF and Job Ticket to None. When the job is sent to Automated Workflow, the job attributes will be set to attribute values defined in the automated workflow.

To enable limited Job Ticketing with Canon devices, the Canon Printer Capability file must be loaded when configuring the Printer Destination. For more information, refer to [Non-Xerox Printers](#).

Job attributes are limited to Job Name only when submitting jobs to Canon devices through LPR.

Version 6.1

Improved Error Handling

Improved Application error handling upon system startup—clearer response and recovery messages.

Job Processing Performance

Job processing performance has been improved when leveraging multiprocessing systems (up to 12 Cores).

List Navigation

Support for “Jump-to-Item” in scrolling lists, tables and dropdown boxes. To jump straight to an item in a list, begin typing the first character of the item.

Assign Workflows and Printers to Specific Users

Administrators can now assign specific Workflows and Printers to individual Users (Administration > User Access Settings > Add/Edit User > Workflow/Printers Mapping). Only Workflows and/or Printers assigned to a given User(s) will be visible to that User(s).

User-Specific Jobs View

To display a list of jobs associated with the current User, select the My Jobs view on the Job Management and Status Tab.

Globally Rename Presets

Globally rename (Edit) Presets from the Preset List or when editing a Workflow. Changes made to the Preset name will be applied globally, across all Workflows where the Preset is used.

Specify UTC Offset

Define the Coordinated Universal Time (UTC) offset for Components that include time settings. The default offset value corresponds to the time zone of the Browser.

Predefined Imposition Layouts

Eight new preconfigured Imposition Presets based on the following commonly used layouts: 3-Fold Booklet, Eighth Fold, Half Fold, Quarter Fold, Cross Fold Booklet, Formal Greeting Card, Reverse Sheet Order Simplex, Reverse Sheet Order Duplex.

Support for Larger PDF Page Sizes and Page Offsets

- The maximum allowable dimensions for PDF pages has been increased to 9,999”x 9,999” for Components that support page dimensions.
- Horizontal and Vertical Offset controls now support up to a maximum of 9,999” for Components that support offset values.

Automatically Round Up Decimal Values

Components that support Process Number Variables include a Round Up option that automatically rounds up values that contain decimals to the nearest integer. If the Round Up option is not selected, decimals values will be truncated.

Optimize Preflight Settings

New Optimize Component preflight settings for PDFs and Images:

- Convert Fonts to Outlines
- Fix potential font problems
- Mirror Bleed when No Bleed
- Pixel Replication Bleed when No Bleed
- Convert specified Spot Color to Specified CMYK color
- Convert specified CMYK Color to new CMYK color

Split by Bookmark

The Split Component now supports the option to split a PDF job by Bookmark according to a variety of user-selectable operators including Ignore, Any, Equals/Not Equal To, Contains/Does Not Contain, Starts/Ends With.

External Component Variables

FreeFlow Core Variables can be passed to External Systems using a specified script, with updated values returned to, and appended to the job in FreeFlow Core. To view the list of Variables when configuring the External Component, select the Include Additional Variables checkbox, then the Search icon.

User Access to Advanced Application Configuration Settings

Change or reset default values for certain advanced User configuration settings directly from the Customer Override tab in the Core Configure utility—eliminating the need to modify system configuration settings/files.

Users unfamiliar with these settings should consult with Support before making changes.

Authenticated Connections via a Proxy Server

FreeFlow Core Submit now supports an Authenticated Connection to FreeFlow Core Cloud through a Proxy Server.

JDF/JMF Enhancements

New and enhanced JDF/JMF capabilities and commands to help streamline integration. See the latest update to the FreeFlow Core SDK for details (available post-launch).

Version 6.0

User Account Access

The new **Security** section under the Administration Tab allows Administrators to configure and manage various Account Access settings including account passwords, account lockout, account log out, and account activity. For more information, refer to *Xerox® FreeFlow® Core Security Guide*.

Security settings are retained when FreeFlow Core Exchange is used to export/import data to another server.

Job Approval Workflow

The new **Review** Component allows users to automatically pause jobs and send them to a recipient(s) through Email as part of workflow, including a preflight report, low- or high-res preview. Upon approval, the job can be released in the Job Management Window.

This feature requires the Advanced Prepress optional module or Cloud Advanced.

Printer Groups

Printer Groups represent the aggregation of Printer Destinations into a defined group. When selected in the Job Submit Dialogue or a Print Component, jobs are automatically distributed across the Printer Destinations within the group according to the defined distribution method (round robin, first available or completion time).

This feature requires the requires the Output Management optional module.

Pass Through Job Submission

The **Pass Through** option in the Submit Job Dialogue bypasses all job processing— sending jobs to a selected Printer Destination unaltered, in their native file format. Pass Through can be used with Printer Groups to load balance jobs across multiple Printer Destinations.

This feature requires the requires the Output Management optional module.

Job Submission with Release Date

The **Submit Job in a Held State** option in the Submit Job Dialogue makes it possible to schedule job processing. Jobs will not process until the job is manually released in the Job Management Window or the specified release date/time occurs.

This feature requires the requires the Output Management optional module.

LPR Printer Support (On Premise only)

It's now possible to submit jobs to Xerox LPR (Line Printer Remote Protocol) devices when the device is enabled as part of a Printer Destination. Retrieval of LPR device capabilities and Job Ticketing options are not supported for LPR devices. For more information, refer to [Supported Printers](#).

Single Sign-On (SSO)

In addition to local login and Active Directory using a Windows Account, FreeFlow Core now supports login via Single Sign-On (SSO) using only Active Directory.

SFTP and HTTPS Locations for File System Operations/MAX

HTTPS and SFTP paths now be used to specify the location for file system operations accessed by FreeFlow Core. These paths can also be used with Manifest Automation from Xerox (MAX) to reference the location of files for processing.

Job Characteristics Based on One Dimension

The Job Characteristic for Dimension now supports the selection of 'Any,' making it possible to specify only a single dimension when evaluating the characteristics of a job

New Process Variable for TimeStamp

The `$$$FFtimeStamp$$` variable may be used to display a date/time stamp when used in conjunction with certain components such as Watermark. This is a system timestamp that takes the desired format depending on the system configuration.

Preflight Process Plans

The **Preflight Using Process Plan** option in the Preflight Component enables the ability to execute multiple Adobe Acrobat or Callas pdfToolbox preflight profiles when combined into a single process plan.

Preserve PDF/VT Record Boundaries Upon Split

The **Maintain Sub Job Order** option in the Split Component ensures that the sub job order produced by the Split Component is preserved throughout the workflow. For example, when splitting a PDF/VT job based on record boundaries.

InfoMark Code

Support for the InfoMark code has been added to the Barcode Component. The InfoMark code is an alternative to the more complex QR Code format, supporting a simple 4-digit printed code.

CLI Job Submission (On Premise only)

Submit jobs to FreeFlow Core for processing via Command Line Interface (CLI) scripts, including the ability to specify select Job Attributes.

FreeFlow Core Reports

FreeFlow Core Reports enables the exporting of job data from FreeFlow Core. The same configuration settings available via the Xerox FreeFlow Core Reports desktop application (On Premise version) can now be accessed directly in the FreeFlow Core and Core Cloud User Interface.

FreeFlow Core Reports supports both job and printer data. The data available for export in FreeFlow Core Cloud is limited to job data only.

FreeFlow Core Exchange

FreeFlow Core Exchange enables the importing and exporting of FreeFlow Core configuration data such as User Settings, Hot Folders, Presets, Workflows and Printer Destinations. The same configuration settings available via the desktop application (On Premise version) can now be accessed directly in the FreeFlow Core and Core Cloud User Interface.

Greater Accessibility for Cloud Configurations

FreeFlow Core Cloud now supports the following additional capabilities depending on the configuration:

Cloud Base

- Hot Folders
- Save

FreeFlow Core Cloud Hot Folders do not support the submission of Microsoft Office native file types. To submit a Microsoft Office file type to FreeFlow Core Cloud Hot Folders, use the FreeFlow Core Submit Microsoft Office add-in to convert the file to PDF first.

- FreeFlow Core Reports
- FreeFlow Core Exchange

Cloud Advanced – all of the features above, plus:

- Manifest Automation from Xerox (MAX)

When specifying the location (URI) of the job file in a manifest, the file path must be the specific file share (network drive) assigned to the customer cloud account by Xerox.

- Route using JMF and MAX variables

Certain Job Characteristics, such as Route by Printer Destination status, are not supported in the cloud.

JDF/JMF in the Cloud

FreeFlow Core Cloud now supports integration with select external workflows systems via JDF/JMF, enabling the submission of JDF instructions directly to FreeFlow Core Cloud workflows.

FreeFlow Core Cloud supports inbound requests from select JMF clients only. Bi-directional status such as job and printer information are not supported.

Authenticated Connections via a Proxy Server

- FreeFlow Core Cloud Print now supports an Authenticated Connection to FreeFlow Core Cloud through a Proxy Server.

3. Resolved Issues

Version 6.2.1

- Fixed issue with Preflight report only showing dimensions in mm
- Fixed issue with jobs failing when resubmitting jobs to an SPD printer
- Fixed issue with PDF bookmarks causing FreeFlow Core internal error
- Fixed issue with Printer Group not being detected
- Fixed issue with stock exceptions missing in job ticket
- Fixed issue with install failing due to timeout
- Fixed issue with Easy Starts installer not working correctly
- Fixed issue with Date/Time field not getting populated correctly in Job Management
- Fixed issue with XGFC folder being deleted during upgrade.

XMPie users only

- Fixed issue with XMPie solution integration. The nominal behavior of FreeFlow Core is to update the JobID to reflect changes to the job in the case of Collect, Join and Split operations as the job processes through the workflow. In the case of XMPie solutions, the new JobID is not recognized when XMPie receives job status signals from FreeFlow Core.

To ensure proper operation, users must update the 'OAPGateway.properties' file found in [X:\Program Files\Xerox\FreeFlow Core\Platform\config]. Change the value of 'UseOriginalJobIDInJMFStatusSignals' from [false] to [true]. After changing the value, restart FreeFlow Core.

Version 6.2.0

- Fixed issue with handling “,” as a decimal separator when configured with the German locale
- Updated the password requirements screen to include lower case letters to be required
- Fixed issue with scripts not processing Workflow Job Tickets correctly
- Fixed issue with Workflow Mapping not retaining selections for users
- Fixed issue with Imposition after an upgrade
- Fixed issue with JMF files causing “Connection Refused” error
- Updated Help screen to be consistent with the Save Node
- Fixed issue with scripts not processing submitted Job Tickets correctly
- Fixed issue with Microsoft files not being handled properly through lpr
- Fixed issue with not being able to display or add Hotfolders after upgrade from 5.1.2.0

Version 6.1.6

- Fixed issue with External node scripts hanging when writing to stdout
- Fixed issue with jobs failing when using a workflow with a copied watermark

- Updated Apache Log4j to version 2.17.1. Version 2.17.1 includes mitigation for the remote execution code vulnerability known as Log4Shell. Reference National Vulnerability Database issues CVE-2021-44228, CVE-2021-45046, CVE-2021-4104 and CVE-2021-44832

Version 6.1.5

- Fixed issue with Override Job Ticket Settings not retaining Copy Count during Submit Job
- Fixed issue with the LPD Gateway
- Fixed issue with not being able to edit / create a new Impose Preset
- Fixed issue with FreeFlow Core not being able to obtain job name from JDF
- Fixed issue with the Color Split Preset not being able to recognize some CMYK color objects
- Fixed issue with hidden layers in PDF appearing after being processed by FreeFlow Core

Version 6.1.4

- Fixed issue where upon reboot, the FreeFlow Core server would sometimes try to access bot.whatismyipaddress[.]com
- Fixed issue with adding printers to FreeFlow Core Cloud
- Fixed issue with files in a zip file not being sorted in alphabetical order
- Fixed issue with Review node email notifications stops working after a while
- Fixed issue with FFCore losing webpage credentials after upgrade

Version 6.1.3

- Fixed issue with incorrect page defaults being used when using German language
- Fixed issue with uStore jobs not appearing in FreeFlow Core
- Fixed issue with unable to connect to email server in FreeFlow Core setup
- Fixed issue with an extraneous line being added to the XPF when converting a JDF with a ProductID node to XPF
- Fixed issue with the Impose calculate height function is not working correctly
- Fixed issue with custom values/variables set in impose node not being retained with Core Exchange regular backup
- Fixed issue with FreeFlow Core permissions on VINIP service fail security scan
- Fixed issue with FreeFlow Core UI having incorrect verbiage in Notifications
- Fixed issue with Xerox® VIPP® Language files having .dmd and .nmd extensions causing an unsupported file error
- Fixed issue with Split Node not working correctly
- Fixed issue with XML preflight not reporting more than 1000 pages after 6.1.1 upgrade
- Fixed issue with a Postscript error being raised when using a Join node and sending job to lpr printer
- Fixed issue with Override Job Ticket Settings during Submit Job unexpectedly changes job size
- Fixed issue with not being able to set negative non-uniform gutters in imposition node
- Fixed issue with perpetual license showing wrong expiration date

Version 6.1.2

- Fixed issue with jobs intermittently being held and had to be manually released to continue processing and complete in the workflow
- Fixed FreeFlow Core performance issue seen when Core Reports is enabled
- Fixed vertical alignment issue with watermark text when the rotation is set for 180 degrees
- Fixed issue with the hot folder default source file location not being retained if an FTP path is used
- Fixed issue with not being able to manage a hot folder when the hot folder name contains special characters
- Fixed issue seen when multiple users simultaneously submit jobs
- Fixed issue seen with the FreeFlow Core Configure entry "DatabaseCommandTimeout"
- Fixed security issue with MS Active Directory

Version 6.1.1

- Fixed issue where FreeFlow Core would sometimes remain in a processing state
- Fixed job status issue seen with Job Group
- Fixed issue with VIPP® files having TXT or CSV extensions building up error logs in the FreeFlow Core hot folders
- Fixed issue with same-named presets can be created if copied, however it cannot be exported
- Fixed issue with the In-app license updater
- Fixed issue with Custom JMF submission failing after upgrade

Version 6.1

- Fixed UI performance issue when using the Edit Workflow page with a workflow that has many Route components
- Fixed DB Admin access issue
- Fixed issue with incorrect page defaults displayed when using non-English language version
- Fixed issue where "Internal Server Error" would occur when editing workflows after upgrading to 6.0.x
- Fixed issue with Split node after upgrading to 6.0.x
- Fixed issue where FreeFlow Core process variables are not supported when specifying the save file location in the Save Component

Version 6.0.3

- Fixed issue when setting maxSimulJobs in MantisServer.exe.config file
- Fixed issue with gutter tab intermittently showing Inches instead of mm
- Fixed issue with uStore job failing with ReturnCode="121"
- Fixed issue with convertSpdCommandsToBookmarks key not working
- Fixed issue with not being able to retrieve printer information from AltaLink C8035

Version 6.0.2

- Fixed “not-enough-memory” error after upgrading from FF Core 5.4.5 to 6.0.0
- Fixed issue with not being able to update the names in the routing rules
- Fixed issue with jobs arriving at the DFE with a name of the last sub-job
- Fixed issue with workflows contains external PDF resources intermittently failing with "An error has occurred on the server"
- Fixed issue causing errors when editing the Watermark node
- Fixed issue where some Characters do not display when the GUI is in German
- Fixed issue where new custom paper size shows as "Zoll" (German for Inches) on a metric system

Version 6.0.1

- Fixed orientation issue when using the Optimize Node
- Fixed EULA issue when regional settings are set to certain languages
- Fixed Imposition issue seen after upgrading to FFC 5.4.4
- Fixed performance degradation issue
- Fixed issue where Collect Node would intermittently not release jobs
- Fixed issue where not all files were removed after deleting completed jobs
- Fixed “Error opening input file” issue when DBF files were submitted in Zip format
- Fixed issue where the import/export of Watermark Preset would change the syntax of a substring variable
- Fixed issue with Split Node causing blank pages in the PDF output
- Fixed issue with not being able to save printer queue settings

Version 6.0

- Only one Administrator can be logged in to FreeFlow Core at any given time. If the Administrator session is ended by logging out of FreeFlow Core or closing the Browser, a (different) Administrator can log in within 1 minute.
- FreeFlow Core no longer requires Windows Service Accounts to have Administrator privileges.
- Fixed issue with TrimBox size changing after being processed by the Optimized Preset.
- Fixed issue where Optimize would remove objects outside the TrimBox.
- Fixed issue where Optimize would remove content within the CropBox when programmed to removed content outside of the CropBox.
- Fixed issue where some characters would be resized when processed by the Optimize node.
Fixed issue where Optimize with [Remove invisible image data] would leave temp folders behind.
- Fixed issue where Optimize, when "Remove Objects Completely Outside of" is selected using Trim Box, the clear ink layer was removed.
- Fixed issue that prevented FreeFlow Core Cloud Print Client to be configured to work with customer's proxy server(s).
- Fixed issue that was allowing the Save node to be configured with a process variable location

- Fixed issue where the Finishing options for the Xerox® Baltoro® HF Inkjet Press would not stay selected in the FreeFlow Core job ticket.
- Fixed issue where outward pressmarks that were center aligned for the top, bottom, left or right for the artbox, trimbox and bleedbox were not appearing in the output.
- Fixed issue when sending an XGF to FreeFlow Core will not convert the umlauts in bookmarks correctly.

4. Known Issues and Limitations

Known Issues

Installation and Upgrade

While checking Roles & Features during the installation process, the Installer repeatedly prompts the user to reboot the system instead of continuing the installation process. This problem occurs if Windows Print Management utility is missing due to various reasons associated with Windows Update and/or upgrading from Windows Home to Pro Edition. To resolve the problem, repair Windows using one of the methods (solution number 2 is recommended) outlined in the following bulletin before attempting the installation again: <https://windowsreport.com/windows-10-print-management-missing/>

During the Installation process, you may be prompted to reboot the system once, or multiple times depending on the configuration of the system. If the Installer does not automatically restart following the system reboot, **wait several minutes** for the Operating System to fully initialize, then double-click the Installer to continue the installation process.

If the software version and build number is hard to read when viewing the About screen after an upgrade from a previous release, select *control + shift + R* while viewing the About screen. This will reload the resources for that page.

Location of data upon upgrade and reinstall

When upgrading or reinstalling FreeFlow Core, it is not possible to change the “Product Installation” and “Store Users workflow data in ...” locations.

Uninstalling and Retaining FreeFlow Core Configuration Information

When uninstalling, if you choose to retain the FreeFlow Core Configuration information, you must reinstall with the same version for the data to be restored correctly. If you install a different version, the data will not be restored properly.

Compressed Windows Drive for Databases

FreeFlow Core and Microsoft SQL Server are not supported on compressed volumes.

Windows Server Naming

Depending upon how security is configured, changing the name of a Windows Server that is used to host an SQL Database Server could result in breaking database access. Before renaming the SQL Database Server host or FreeFlow Core server when using a local SQL Database Server, please consult the Microsoft SQL Server documentation for instruction on how to rename the server and update the SQL Database server and account names.

Login delay

Upon initial start-up of FreeFlow Core after a reboot, Windows needs to initialize all necessary FreeFlow Core required components. Therefore, it can take a few minutes before the login dialog appears.

Login issues

For Active Directory single sign on, FreeFlow Core domain users must login using the same domain as what was used when FreeFlow Core was installed with. All users must be members of same domain.

Windows Server 2019 and higher

When starting the installer, if the %TEMP% folder that includes the Remote Desktop session ID is missing the installation will fail. To overcome this, simply recreate the temp folder and default session id, which is typically 1 or 2.

For more information, go to: <https://docs.microsoft.com/en-us/troubleshoot/windows-server/shell-experience/temp-folder-with-logon-session-id-deleted>

System

Administrator Login

When creating a new Administrator for the first time, if the user quickly selects the Create button more than once, the User Interface will redirect the user to the FreeFlow Core login screen rather than the End User License Agreement (EULA) acknowledgement screen. After logging back in as a new Administrator, the user will be redirected to the EULA screen as expected.

User Roles and Passwords/Administrator

There is an error in the Help documentation under Section 2, User Roles and Passwords. The following bullet under Administrator should read:

- Administration tab functions: Hot Folder Setup, Notifications Setup, User Access Setup, Region, FreeFlow® Core Reports, FreeFlow® Core Exchange, FreeFlow® Core License, and Security Tab.

Job Management

Large Files Using Native Windows Compression

Windows native compression uses 2 different compression formats, “Deflate” for files smaller than 2GB and “Deflate64” for files larger than 2GB. FreeFlow Core only supports “Deflate” and “GZip” compressions so files compressed with “Deflate64” cannot be processed.

FreeFlow Core supports native Windows compression provided the files are small enough to be compressed with “Deflate”.

Large MAX Jobs

Processing a large MAX file will take longer than processing multiple MAX files with the same number of sub jobs. As a result, submission of smaller MAX files is recommended.

Unsupported TIFF Formats

The following TIFF features are not supported: JPEG compression, YCbCr, and color space. In addition, TIFF transparencies are flattened during conversion.

Remote ZIP files

Zips files stored on remote servers are not supported.

PDF Compliance

The settings of a selected PDF/X standard may not be retained after processing the job through a FreeFlow Core workflow.

JDF Job Tickets

JDF tickets submitted to FreeFlow Core must be ‘Combined DigitalPrinting’ only (e.g., JDF/@Type=“Combined”, JDF/@Types contains “DigitalPrinting”).

Drag and Drop Submission from Mac

Drag and drop submission from Mac is not supported. To submit a job from a Mac client, use the Browser button to upload the files.

Collect Job Documents

If Collect Job Documents is selected as an option for a Save or Finish Component, all the sub jobs are submitted correctly to the save location or finisher. However, only one entry appears in the FreeFlow Core Job Status window.

Microsoft Office File Conversion

If Microsoft Excel files fail to convert in FreeFlow Core, check the following settings:

1. Run the Windows service as a user with permissions for Excel. Windows services generally run using the local account, which are not typically configured to open Excel.
2. Open FreeFlow Core Configure and change the service account to an account with permission to open Excel.

[Do not change service accounts directly. Always use FreeFlow Core Configure.](#)

3. Microsoft Excel expects certain folders in the system. Typically, a Desktop folder is necessary in the systemprofile folder to open Excel files.
 - a. For 32-bit (x86), create this folder:
C:\Windows\System32\config\systemprofile\Desktop
 - b. For 64-bit (x64), create this folder:
C:\Windows\SysWOW64\config\systemprofile\Desktop

[Set the 32-bit folder preferences \(detailed above\) in addition to the 64-bit preferences on 64-bit systems running 64-bit versions of Microsoft Office.](#)

4. Change the DCOMConfig settings for Excel:
 - a. Select [Start > dcomcnfg.exe > Console Root > Component Services > My Computer > DCOM Config].

[You may be prompted for Administrator credentials.](#)

- b. Select "Microsoft Excel Application". If Microsoft Excel Application does not appear in the DCOM list, find the equivalent key [00020812-0000-0000-C000-000000000046] in the DCOM list.
 - c. Right-click 'Properties.'
 - d. Select the Identity tab. Select 'Interactive User.'
 - e. Select the Security Tab. Customize "Launch and Activation Permissions". Edit and add permissions to the user who is running the Windows service.
 - f. Customize "Access Permissions". Edit and add permissions to the user who is running the windows service.
5. Restart the FreeFlow Core service.

Printer Management

Printer Queue Setup

If a Printer Queue is named IPP it will not display in FreeFlow Core. To avoid this issue, do not use IPP as the queue name.

Unsupported Printer Queue Names

If a printer queue name is not supported by FreeFlow Core such as one with a space, it will not be listed in FreeFlow Core when the printer is polled.

Printing Jobs

When printing a job, if an error is encountered at the printer as a result of incorrect stock orientation, the job will print if the width and height are swapped.

Job Submission Regulation

Job Submission Regulation assumes the spool directory of the printer is on the largest drive of the printer. If the spool directory is not on the largest drive, job submission regulation will not process properly. When setting up a printer, please ensure the largest volume is used for the spool.

Deleting a Printer

To delete a printer, you must delete the Printer Destination. To delete the Printer Destination, open the Printer Preset in Workflow Builder and select the Delete button to delete the Printer Destination. Once the Printer Destination is removed, the printer will no longer appear in Printer Management.

Printer Management and Printer Locale

In Printer Management, information retrieved from the printer may be in a language different from the FreeFlow Core system. The specific language is not communicated to FreeFlow Core and the text may not be translated properly.

AltaLink Printers

Printer information may not be available for certain versions of the AltaLink controller.

In FreeFlow Core 6.1.4, the Define job ticket defaults options are currently enabled but shouldn't be. Please uncheck Define job ticket defaults in Printer Management when adding AltaLink printers to 6.1.4 to avoid any printing issues.

Non-Xerox Printers

Each Printer Destination represents a connection to a specific Print Queue on the Controller and a set of job ticket defaults. Not all Print Queues and Job Ticket defaults are discoverable by FreeFlow Core.

Print Queues

- The following EFI Fiery Print Queues are supported:
 - Default (configured as hold, print, print and hold, process and hold) and custom queues (Virtual Printer)
- The following Canon PRISMAsync Print Queues are supported (via JDF or LPR):
 - Automated Workflow Name
 - Printer Default (configured as “default”)

Job Properties

- To enable limited Job Ticketing with Canon PRISMAsync Print Server devices, the ‘Canon Printer Capability’ file must be loaded using the Add Additional Printer Capabilities option (Printer Management and Status > Printers > Edit a Printer) when configuring the Printer Destination. To add the file, select the “JDF Settings” button in the Edit a Printer window, then select the Add Additional Printer Capabilities checkbox. From the Add Additional Printer Capabilities Open File dialogue, select “master.xpaf”, then OK to load the file. Select Save to close the Edit a Printer window
- With the capability file loaded, the following Job Ticket Defaults (Setup Tab) are supported on Canon PRISMAsync Print Server devices:
 - Job Name
 - Copies
 - Main Stock

Media settings at the Canon PRISMAsync Print Server device may need to be updated for the proper media selection after the job is sent from FreeFlow Core.

- Sides-Imaged
- Collation (uncollated is visible using the Job Ticket Editor. The collated option is supported using the provided job ticket, e.g., XPIF Job Ticket associated with PDF file or JDF job ticket)
- Output Order
- Output Location
- Offset
- Exceptions
- Inserts (single-page only)
- The following Job Ticket Defaults (Setup Tab) are not supported on Non-Xerox printers:
 - Color (Canon PRISMAsync Print Server devices)
 - Slip Sheets
 - Leading Banner Page
 - Sender
 - Finishing (Canon PRISMAsync Print Server devices)

When adding or editing a Non-Xerox Printer Destination in the Printer Management and Status Tab, certain capabilities including Job Submission Regulation and Job Ticket Verification may be disabled depending on the capabilities of the Printer Destination.

In FreeFlow Core Cloud, disable the Printer Retrieves the File for Printing option from the Edit a Printer window on the Printer Management and Status Tab.

The nomenclature and operation of equivalent FreeFlow Core Printer Job Commands (Release, Hold, Cancel) in Job Management and Status may differ on Non-Xerox Printers.

- The Hold command will not work with the Fiery Controller when the printer destination is configured as a JDF printer.
- It is possible to cancel a job that is Held at the Fiery Controller but the job remains visible in the FreeFlow Core job listing. If a job is cancelled from FreeFlow Core when it is suspended or printing at the Fiery Controller, the job will abort and be deleted from the Fiery Controller.

In Printer Management and Status, Printer Status and Consumables may report Not available for this printer. These capabilities are not supported in FreeFlow Core Cloud.

In Job Management and Status, job status at the printer is limited to Job ID for FreeFlow Core Cloud.

The options to Distribute Jobs Between Printer Destinations and Send Jobs to Printer Destinations Based on Job Characteristics in the Print Component, as well as, assigning job property conditions based on Printer Destination Status in workflow components that support Job Characteristics are not supported in FreeFlow Core Cloud.

The Color Split component is not supported.

The Quantity specified in FreeFlow Core will always override the value for Copies defined in the Print Queue. If Quantity is not specified in FreeFlow Core, the quantity will be set to one (1) by default when the job arrives at the Controller even if a different value for Copies has been defined.

Enabling Number of Uncompleted Jobs at the Printer as part of Job Submission Regulation may not reflect the actual state of Uncompleted Jobs and Time Required at the Controller. This capability is not supported for printers associated with a Printer Destination configured as LPR.

Jobs that specify fold finishing should be submitted to the default Print Queue on the Fiery Controller. Submitting jobs to a Virtual Printer may produce unexpected results.

After a job completes printing, the status of the job at the printer may change from Printed to Error (Unable to Close Job). Enabling port 4004 (incoming) through Windows firewall may resolve the issue. This applies to Fiery devices for Printer Destinations configured for JDF. For Canon devices, after the job is sent to the printer, the status of the job at the printer will be "Sent to Printer".

The performance of the system may be impacted when submitting several large jobs to non-Xerox printers (registered using port 8010) simultaneously. Adding additional RAM to the system and/or reducing the number of large jobs submitted concurrently may improve performance.

Components, Workflows and Presets

Job Processing

All jobs should be processed in the workflows before restarting FreeFlow Core. If jobs are still being processed after a restart, the jobs will abort.

Saving Jobs

FreeFlow Core process variables are not supported when specifying the save file location in the Save Component.

When specifying a save location using an absolute path in the Save Component, only one directory level is supported below the predefined "Save Destination" directory.

Easy Start Workflows

After installing the Easy Start Workflows and Presets, reset the 'Print' and 'Print with Leading Banner Page' Presets to a valid Printer Destination(s). The Easy Start Print Presets configured at install are not valid Printer Destinations (IP Addresses).

Acrobat vs. FreeFlow Core Preflight

FreeFlow Core Preflight can execute both Acrobat and Callas pdfToolbox preflight profiles. Acrobat preflight may result in behavior that is different than FreeFlow Core. Acrobat preflight uses a different version of pdfToolbox than is being utilized by FreeFlow Core. In addition, Acrobat preflight uses a different color conversion engine compared to pdfToolbox.

Preflight Language Based on FreeFlow Core Server

The messages displayed by the preflight report are displayed in the OS language set at the FreeFlow Core server. They are not based on the language set from the client browser.

External Process Node

The process variables `FFxpf$` and `FFsubmittedxpf$` both use the term "workflow job ticket" in the Help description. Both variables currently refer to the workflow job ticket which may be modified during the workflow process for printing.

FreeFlow Core Exchange

Workflow Missing from Workflow List after using Core Exchange to Import a Clone

Prior to importing a clone using FreeFlow Core Exchange, log out of FreeFlow Core and close the browser. Once the import is complete, open the browser and log back into FreeFlow Core. If the browser wasn't closed prior to the import, log out of FreeFlow Core – close, then reopen the browser and log back into FreeFlow Core.

Reboot May Be Required After Importing File

After importing a file using FreeFlow Core Exchange, a reboot maybe required for FreeFlow Core to start up correctly. This is especially true if you are importing a file that is a clone.

FreeFlow Core Configure

Customer Override

The Tooltip for the key name “ExpiredJobSweepInterval” states the value is an interval in seconds. The interval represents milliseconds.

FreeFlow Core Cloud

Hot Folders

FreeFlow Core Cloud Hot Folders do not support the submission of Microsoft Office native file types. To submit a Microsoft Office file type to FreeFlow Core Cloud Hot Folders, use the FreeFlow Core Submit Microsoft Office add-in to convert the file to PDF first.

FreeFlow Core Submit

If you experience issues submitting Microsoft Office files using the FreeFlow Core Submit Microsoft Office add-in, close the Microsoft Office file, then open the standalone FreeFlow Core Submit utility and submit the file.

After adding a Printer Destination in Printer Management and Status, the printer may not appear immediately. Select the green Refresh button in the top right corner of the Printer list or select the Job Management and Status tab or the Workflow Setup tab, and then go back to the Printer Management and Status tab to update the display.

FreeFlow Core Cloud Print Client

When adding a printer using the FreeFlow Core Cloud Print client, there may be a delay before it appears in the FreeFlow Core printer drop down menu. To minimize the delay, select the green Refresh button in the top right corner of the Printer list in the Printer Management and Status tab after adding a printer in the FreeFlow Core Cloud Print client.

Forwarding print jobs to an EFI printer will take longer than to a Xerox FreeFlow Print Server printer.

Route using JMF and MAX variables

Certain Job Characteristics, such as Route by Printer Destination status, are not supported in the cloud.

FreeFlow Core Reports

The data available for export in FreeFlow Core Cloud is limited to job data only.

JDF/JMF

FreeFlow Core Cloud supports inbound requests from select JMF clients only. Bi-directional status for job and printer information is not supported.

5. Supported Printers

Xerox Devices

FreeFlow Core supports job submission to Internet Printing Protocol (IPP)-based Printer Destinations including FreeFlow Print Server, FreeFlow Print Server Integrated, Xerox Integrated Color Server, Xerox Integrated copy/print server, EFI Print Server and Integrated Fiery Print Server running supported versions of software, enabling retrieval of supported device capabilities.

To the extent that a particular device publishes certain capabilities via IPP such as copy count, media type, sides-imaged, output location, etc., FreeFlow Core will retrieve that information and use it to populate the printer description, the list of queues and the job ticketing options for that device. If a particular device does not publish certain attributes, they will not be available in FreeFlow Core but may still be programmed at the device. Other limitations may apply. For more information, refer to [Known Issues and Limitations](#).

[A device may publish Perfect Binding capabilities; however, these capabilities are not supported by FreeFlow Core.](#)

The following protocols must be enabled on the Controller:

- **IPP Printing** – enables retrieval of supported job ticketing and print submission.
- **SNMP** – enables device type discovery and limited printer status information via the Standard Device Description.

Xerox® Devices	Controller and Minimum Supported Version
Xerox AltaLink® B8XX/B81XX	Standard controller
Xerox AltaLink® C80XX/81XX	Standard controller
	Xerox EX-c C8000 Print Server, powered by Fiery
Xerox PrimeLink® B9100 Series Printer	Xerox Integrated Server
	Xerox EX B9100 Series Print Server powered by Fiery
Xerox D136 Copier Printer	Xerox EX136 Print Server 1.0, powered by Fiery
	Xerox FreeFlow Print server 9.0
	Xerox Integrated copy/print server 1.0
Xerox D95A/D110/D125 Copier/Printer	Xerox EX Print Server 1.0, powered by Fiery
	Xerox FreeFlow Print Server 9.0
	Xerox Integrated copy/print server 1.0
Xerox Nuvera® 1xx/200/288/314	Xerox FreeFlow Print Server 7.0 SP3 (CP.73.C3.x) and higher

Xerox PrimeLink® C9065/C9070 Printer	Xerox Integrated Color Server
	Limited support for printer capabilities and device attributes.
	Xerox EX 9065-70 Print Server, powered by Fiery
	Xerox EX-i 9065-70 Print Server, powered by Fiery
Xerox Color C60/C70 Printer	Xerox EX-c 9065-70 Print Server, powered by Fiery
	Xerox EX/EX-i C60/C70 Print Server 1.0, powered by Fiery
	Xerox Integrated Color Server
Xerox Color C75 Press	Xerox FreeFlow Print Server Integrated 2.0 SP1 (CP.20.1.15187.0 or higher)
	Xerox EX Print Server 1.0, powered by Fiery
	Xerox Integrated Fiery Color Server 1.0
Xerox Color J75 Press	Xerox FreeFlow Print Server 9.0 SP3
	Xerox EX Print Server 1.0, powered by Fiery
	Xerox FreeFlow Print Server 9.0 SP3
Xerox Color 560/570 Printer	Xerox EX Print Server 1.0/2.0, powered by Fiery
	Xerox FreeFlow Print Server 9.0 SP3
	Xerox Integrated Fiery Color Server 1.0 (System 10)
	Xerox Integrated Color Server
Xerox Versant® 4100 Press	Support limited to copy count, main stock, sides-imaged, collation, sender and output location. Orientation and limited finishing options. Other attributes are not returned by the controller and not accessible by FreeFlow Core.
	Xerox EX-P 4100 Print Server 1.0 and higher
Xerox Versant® 3100 Press	Xerox EX 4100 Print Server 1.0
	Xerox EX/EX-P 3100 Print Server 1.0 and higher
Xerox Versant® 2100 Press	Xerox FreeFlow Print Server 9.0 SP3
	Xerox EX/EX-P 2100 Print Server 1.0 and higher
Xerox Versant® 280 Press	Xerox FreeFlow Print Server 9.0 SP3
	Xerox EX 280 Print Server 1.3 and higher
Xerox Versant® 280 Press	Xerox EX-i 280 Print Server 1.3 and higher
	Xerox EX-i 280 Print Server 1.3 and higher

Xerox Versant® 180 Press	Xerox EX/EX-i 180 Print Server 1.0 and higher
	Xerox FreeFlow Print Server 9.0 SP3
Xerox Versant® 80 Press	Xerox EX/EX-i 80Print Server 1.0 and higher
	Xerox FreeFlow Print Server 9.0 SP3
Xerox DocuColor® 8080 Digital Press	Xerox FreeFlow Print Server 7.0 SP3 (CP.73.C3.x and higher)
Xerox Iridesse™ Production Press	Xerox EX-P 6 Print Server 1.0 and higher
Xerox Color 800i/1000i Press	Xerox EX-P 1000i Print Server 3.0/3.1, powered by Fiery
	Xerox FreeFlow Print Server 9.0 SP3
Xerox Color 800i/1000i Press	Xerox EX Print Server 2.2 (System 10)
	Xerox FreeFlow Print Server 9.0 SP1
Xerox iGen® 5 150 Press	Xerox EX-P 5 Print Server, powered by Fiery
	Xerox FreeFlow Print Server 21 (CP.21.0.15141.0) and higher
Xerox iGen® 5 90/120 Press	Xerox EX Print Server 1.1, powered by Fiery
	Xerox FreeFlow Print Server 21 (CP.21.0.15219.0) and higher
Xerox iGen® 150 Press	Xerox EX Print Server 1.0, powered by Fiery
	Xerox FreeFlow Print Server 9.0 SP1
Xerox Color 8250 Production Printer	Xerox FreeFlow Print Server 9.0 SP3
Xerox iGen4™ (90/100/220 Perfecting) and Diamond Edition	Xerox EX Print Server 1.0, powered by Fiery
	Xerox FreeFlow Print Server 9.0 SP1
Xerox Rialto® 900 MP Inkjet Press	Xerox Impika PDF Controller Support limited to printer Hot Folder submission only.
Xerox Baltoro™ HF Inkjet Press	Xerox FreeFlow Print Server 24 (CP.24.0.19119.0) and higher
Xerox Brenva™ HD Production Inkjet Press	Xerox FreeFlow Print Server 22
Xerox Trivor™ 2400 Inkjet Press	Xerox IJ Print Server 1.0, powered by Fiery
	AlphaStream Controller Support limited to printer Hot Folder submission only.

Xerox Impika® Compact/Reference/ Evolution	Xerox IJ Print Server, powered by Fiery
	Xerox FreeFlow Print Server 9.0 SP3 Job Ticketing support limited to Copy Count only. Other attributes returned from Xerox® FreeFlow® Print Server are not supported.
Xerox CiPress® 325/CiPress 500	Xerox FreeFlow Print Server 9.0 SP3 Job Ticketing support limited to Copy Count. Other attributes returned from Xerox® FreeFlow® Print Server are not supported.

Non-Xerox Devices

FreeFlow Core supports job submission to EFI Fiery, JDF-enabled Printer Destinations running supported versions of software, enabling JDF device (uni- or bi-directional, depending on the device) connectivity between FreeFlow Core via Job Messaging Format (JMF) and the non-Xerox device.

To the extent that FreeFlow Core supports, and a particular device publishes certain capabilities via JDF, FreeFlow Core will retrieve that information and use it to populate the printer description, the supported queues (“Virtual Printer”) and job ticketing options for that device. If FreeFlow Core does not support and/or a particular device does not publish certain queues or attributes, they will not be available in FreeFlow Core but may still be programmed at the device. Other limitations may apply. See Known Issues and Limitations for more information.

The table below represents the list of non-Xerox printers that have been tested and validated by Xerox. Xerox will provide best-effort support only for non-Xerox printers that do not appear below.

Issues with FreeFlow Core and non-Xerox printers that can be validated on a reference configuration will be addressed via standard support. Xerox is not responsible for resolving issues that are unrelated to FreeFlow Core, or otherwise involve engaging the vendors of non-Xerox printers. In addition, LPR is supported for Xerox and select Canon PRISMAsync Print Server devices. Xerox will provide ‘best effort’ support only for other non-Xerox printers connected using LPR.

The following protocols must be enabled on the Fiery Controller:

- **Fiery JDF** – enables bi-directional JDF device connectivity between FreeFlow Core and the Fiery Controller.

Fiery JDF may require the purchase of a Productivity Package license on certain Fiery Controllers. For more information, please consult <https://www.efi.com/fjdf>

- **Canon PRISMAsync Print Server JMF** – enables bi-directional JDF device connectivity between FreeFlow Core and the PRISMAsync Print Server.
- **SNMP** – enables device type discovery and limited printer status information via the Standard Device Description.

Printer	Controller and Minimum Supported Version
Canon® varioPRINT 6000 TITAN Series Sheetfed Digital Presses	Canon PRISMAsync Print Server version R7.3 or higher LPD, JMF Support must be enabled on the Print Server.
Canon® varioPRINT 140 Series Monochrome Sheetfed Digital Presses	Canon PRISMAsync Print Server version 7.2 or higher LPD, JMF Support must be enabled on the Print Server.
Canon® imagePRESS C10000 Color Sheetfed Digital Presses	Canon PRISMAsync Print Server version 6.1.3 or higher LPD, JMF Support must be enabled on the Print Server.
Konica-Minolta® AccurioPress C3070 Digital Production Press	EFI Fiery Image Controller IC-417 version 2.1 Requires Fiery Productivity Package IC-417.
Konica-Minolta® AccurioPrint C3070L Digital Press	EFI Fiery Image Controller IC-417 version 2.1 Requires Fiery Productivity Package IC-417.
Ricoh® Pro 8110e/8120e Series B&W Cutsheet Printer	EFI Fiery Printer Controller EB-32
Ricoh® Pro C700EX Color Cutsheet Printer	EFI Fiery E-8100 Print Server
Ricoh® Pro C7200 Graphic Arts Edition Series Color Cutsheet Printer	EFI Fiery Color Controller E-45A (7200) EFI Fiery Color Controller E-35A (7200SL) EFI Fiery Color Controller E-85A (7200)
Ricoh® Pro C9100/C9110 Color Cutsheet Printer	EFI Fiery E43/Pro 80 Controller EFI Fiery E83/QX Controller
Ricoh® Pro C9200/C9210 Color Cutsheet Printer	EFI Fiery Color Controller E-85

6. Installation Procedures

Installation and Upgrades

See the Xerox® FreeFlow® Core Installation Guide for installation and upgrade instructions. This document may be obtained from the Support & Drivers section on Xerox.com.

Prior to performing an upgrade, ensure all jobs have completely finished processing through the workflows. To minimize the time to perform the upgrade, delete all jobs.

Perform a full system backup. If you encounter issues during the upgrade, the backup can be restored.

FreeFlow Core 6.2 supports upgrades from version 6.0.0 or higher. Upgrading from version 5.n.n requires upgrading to version 6.0 first before upgrading to version 6.2. To obtain a prior release, contact Customer Support.

FreeFlow Core 6.0 licensing only supports UUID in the form of (xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx) or MAC address in the form (xxxxxxxxxxx). Customers using other license identifiers will need to provide a new license identifier in order to renew their license when upgrading to FreeFlow Core 6.0.

If you are upgrading from a version of FreeFlow Core 6.1.2 or lower to version 6.2.1 and your installation includes the Variable Data optional module, review the topic "VIPP Directory Relocation" in Section 2, New Features and Changes > Version 6.2.1 for information related to the VIPP XGFC runtime directory change.

If you are upgrading from a version of FreeFlow Core 4.0.2.x or lower to FreeFlow Core 5.1.x prior to upgrading to version 6.0, the Save location will be automatically be relocated from <User Data Location>\Save Destinations to <User Data Location>\00000000-0000-0000-0000-000000000000\Data\Save Destinations.

For example, following the upgrade, the Save location will move from:

C:\Xerox\FreeFlow\Core\Data\Save Destinations to

C:\Xerox\FreeFlow\Core\Data\00000000-0000-0000-0000-000000000000\Data\Save Destinations.

Upgrading to FreeFlow Core 6.n.n

1. Double-click the **FreeFlowCore-6.n.n-Setup.exe**.
2. Select the desired language and click **OK**.
3. In the Welcome window, click **Next**.

Note: It can take several minutes for the Installer to initialize as it checks prerequisite system requirements.

4. If the Installer is unable to configure the prerequisite Roles and Features, a System Check log will appear. Perform the following steps to continue:
 - a. Cancel the upgrade.

- b. Search 'ERROR' in the System Check log and configure the appropriate requirements. For more information, refer to the *Installation Guide*.
 - c. Restart the installation process.
5. In the License Agreement window, accept the terms of the agreement and click **Next**.
6. Click **Install** to begin the installation.
7. Upon completion, click **Finish**, then **Yes** when prompted to restart the system.

Easy Start Workflows

To configure your system with predefined workflows, download the FreeFlow Core Easy Start Workflows from the Support & Drivers section on Xerox.com and follow the provided instructions.

1. Open a web browser and go to www.xerox.com.
2. Select **Customer Support > Support & Drivers > Software & Platforms > FreeFlow > FreeFlow Core**.
3. Under FreeFlow Core, select **Software**.
4. Select the appropriate Operating System and Language from the menus presented.
5. In the Utilities & Applications area, click on the appropriate FreeFlow Core Easy Starts link to download the file.
6. Once downloaded, decompress the file and double-click the **install.bat** file to install.

For detailed descriptions of each workflow and product configuration requirements, refer to the *Xerox® FreeFlow® Core Easy Start Workflows Getting Started Guide*. This document may be downloaded from the **Support & Drivers** section on www.xerox.com.

Windows Shared Folders or Microsoft Office Conversion Setup

If you use Shared Windows Directories or Microsoft Office file-conversion software, a valid service account is required to run FreeFlow Core. To change the settings, from the Windows Start menu, use the FreeFlow Core Configure utility.

The service account includes the following features:

- Runs FreeFlow Core services
- Has full control over the FreeFlow Core message queue
- Has access to Shared Windows Directories

Adding Shared Folder Credentials to the Windows Account

If the Windows account that is used for the FreeFlow Core service has access to the shared folders, additional configuration is not required.

Shared folders follow the Universal Naming Convention (UNC), and list the full path. For example: `\\<server>\<path>\file.ext`. Mapped drives are not supported.

1. To validate access to a shared folder, log in to the FreeFlow Core server using the same Windows account that you used for the FreeFlow Core services.
2. From the Windows Start menu, select **Run**.
3. Type the UNC path to a folder or file in the shared directory. Click **OK**.

The file or folder opens without prompting for login credentials.

Adding Credentials to a Windows Account

If needed, you can add credentials to the Windows account that is used for the FreeFlow Core service. Consult with your local IT department, if necessary, to determine the requirements at your location.

1. Select **Control Panel > User Accounts > Credential Manager > Windows Credentials**.
2. Click **Add a Windows Credential**.
3. Specify the server Internet or network address and a valid user name and password. Click **OK**.
4. Validate access to the server.

Secure JMF

To enable secure JMF communication between a JMF Client and FreeFlow Core, configure the following:

1. Open port 7759 using the Windows Firewall utility.
2. Create a Self-Signed Certificate through IIS.
3. Right-click the certificate, and select **Export Certificate**. Export the certificate to the desktop.
4. Run the **installJMFCertificate** utility, entering the same password entered in step 3 when exporting the certificate.
5. Restart the FreeFlow Core JMF Server from the Service panel.
6. Using a web browser, enter: <https://<ip address of the FreeFlow Core server>:7759>.
7. Click **Continue to this website**. If a page displaying 'HTTP Status 404' appears, the configuration of FreeFlow Core for Secure JMF communication was successful.

Secure Printing

To enable secure printing between FreeFlow Core and a Xerox FreeFlow Print Server, the following must be configured:

1. Enable SSL at the print controller:
 - a. At the FreeFlow Print Server, login as System Administrator.
 - b. Select **Setup > SSL/TLS**.
 - c. Click **Add Certificate**.
 - d. Create a 'Self Signed' certificate or Import a signed Certificate by choosing 'Signed Certificate from a Certificate Authority.'
 - e. Follow the steps in the Wizard and fill in the necessary information.
 - f. Click **Install**.
 - g. Click the **Close** button in the Certificate window after configuring the certificate.
 - h. Select the **Enable SSL/TLS** option.
 - i. Click the **Close** button and reboot the print controller, if necessary.
2. Enable the Printer certificate on the FreeFlow Core system.
 - a. From the FreeFlow Core desktop, launch the FreeFlow Core Certificate Tool.
 - b. Specify the Print Controller IP address or DNS name.
 - c. Choose the Print Controller.
 - d. Click **[Retrieve Certificate]**.

- e. Once the certificate is installed, a message appears as `Certificate successfully installed`.
3. Add a Printer Destination through FreeFlow Core and select the **Secure Print** check box to perform secure communication.

Secure Printing on EFI Fiery Controllers

To enable secure printing between FreeFlow Core and an EFI Fiery Controller, the following must be configured:

1. Enable SSL at the Print Controller
 - a. Launch the Fiery User Interface (UI) by entering the Fiery IP address in a web browser or from the Fiery Command Workstation.
 - b. Select the **Fiery Configure** option.
 - c. Login with the Fiery Controller credentials.
 - d. Select the **Security** option and create a self-signed Certificate, or fill in the details with the Certificate from CA.
 - e. Enable **SSL/TLS** in the configure screen.
 - f. Upon selecting Enable and confirming, select **yes** when prompted to restart the Print Controller.
2. Enable the printer Certificate on the FreeFlow Core system.
 - a. From the FreeFlow Core desktop, launch the FreeFlow Core Configure tool and select the Core Certificates tab.
 - b. Specify the Print Controller IP address or DNS name.
 - c. Choose the Print Controller.
 - d. Click **Retrieve Certificate**.
 - e. Once the Certificate is installed, a message appears as `Certificate successfully installed`.
3. In FreeFlow Core, Add a Printer Destination and select the **Secure Print** check box to enable secure communication.

Saving a JDF Ticket to a Remote File System

When configuring a Save Node with options to save the ticket as JDF and the file path is to retrieve a remote file system (e.g., `\\host\sharedDir`), the Login ID of the FreeFlow Core JMF Server must be changed to a user that has access to the remote directory location.

FreeFlow Core Cloud Print and FreeFlow Core Submit (FreeFlow Core Cloud only)

If you are running FreeFlow Core Cloud and utilizing the Core Cloud Print or Core Submit client applications, the version of the client applications need to match the version installed on the server. If your server has been upgraded to a newer version of software, the client software must also be upgraded for the all the functionality to work properly. To upgrade the client applications:

1. Double-click the **FreeFlowCoreCloudPrint-6.n.n-Setup.exe** or **FreeFlowCoreSubmit-6.n.n-Setup.exe** to run the file.
2. Select **Run**, if prompted, to allow an unknown publisher to make changes to this computer.

3. Select the desired language for the Installer user interface to display and click **OK**.
4. In the Welcome window, click **Next**.
5. In the License Agreement window, accept the terms of the license agreement and click **Next**.
6. For upgrades, do not change the installation folder. Click **Next**.
7. Click **Install** to start the installation.
8. Upon completion, click **Finish**.

FreeFlow Core Windows Environment Variables and Scripting

Always use FreeFlow Core Windows Environment Variables instead of hard-coded paths when creating scripts and customizations. The environment variables listed below were created specifically for the purpose of scripting and customizations.

FreeFlow Core All Configurations

FF_CORE_HOME > Installation directory

Default = C:\Program Files\Xerox\FreeFlow Core or C:\Program Files\Xerox\FreeFlow Core Cloud Print or C:\Program Files\Xerox\FreeFlow Core Submit

FreeFlow Core Servers

XRX_TENANTSHOMEROOT > Tenant Data. (e.g., Hot Folder, Presets, Spool)

Default = C:\Xerox\FreeFlow\Core

XRX_I2S_DATAPATH > I2S Data

Default = C:\Xerox\FreeFlow\Core\I2S\Data

FreeFlow Core Cloud Print Client

XRX_SPOOLDIRECTORY > FF Core spool directory

Default = C:\Xerox\CloudPrintSpool

[Do not use the unbranded variable I2S_DATA_PATH. This is deprecated and subject to removal without notice.](#)

General Guidelines

- Do not put customized scripts or tools in a directory other than one created by the user.
- Do not create private use directories within the product directory structures.
- Do not use directories created by the product installers unless they are designated for customer use (e.g., Hot Folders, Presets).

[Do not hard code directory paths as they are always subject to change as the product evolves](#)

Backup and Restore

Backing up the software is a Customer responsibility. Backup for your FreeFlow product can be performed using any commercially available backup and restore software. Ensure that you run a full system backup that includes all hardware drives that contain the FreeFlow product and database software. It is recommended that the backup software have the ability to back up open files.

Online Resources

For additional product documentation, community forums, and support, go to:
<http://www.xerox.com/automate>.

7. Third Party License Disclosures

License Disclosures

License disclosures for third party components utilized in Xerox® FreeFlow® Core can be found at C:\Program Files\Xerox\FreeFlowCore\ThirdPartyLicenses for installs performed using the default location.

For installs performed with a different drive location, the license disclosures can be found in the ThirdPartyLicenses folder under the installation location.