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Xerox[®] FreeFlow[®] Core

Release Notes

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Changes are periodically made to this document. Changes, technical inaccuracies, and typographical errors will be corrected in subsequent editions.

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System Requirements

Minimum System Specifications

FREEFLOW CORE

Xerox® FreeFlow® Core is supported on a dedicated, standalone PC that meets or exceeds the system requirements defined below. Installing any software components other than those outlined in the table below is not supported.

Installation of FreeFlow Core is supported on private local or wide area Ethernet networks (Intranet) 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, for example, system memory and hard disk space.

To achieve optimal performance, the following performance best practices should be comprehended.

1. Reserve CPU processing cores for non-FreeFlow Core job processing
 - a. FreeFlow Core supports between 1 and 12 simultaneous jobs.
 - i. Each simultaneous job requires its own CPU processing core.
 - b. Two or more CPU cores should remain available for other processing tasks (For example, System defender, anti-virus software, FreeFlow Core job registration, GUI commands, and so on).
 - c. Determine the number of CPU processing cores that exist on server used by FreeFlow Core.
 - d. In FreeFlow Core Configure, select the Customer Override tab.
 - i. Change the key maxSimulJobs to the number of CPU cores available minus two (or more).
 - ii. Set the key overrideJobCount to True.
 - iii. For example, if 8 cores are available, set maxSimulJobs to 4 or 6. If 14 or more CPU cores, then maxSimulJobs can be set to the maximum of 12.
2. When running FreeFlow Core system in a VM (Virtual Machine), specific Host CPU cores are not generally available for assignment. One needs to ensure that the number of Virtual CPU cores (vCPU) used by all the applications on the Host are less than the total physical Host CPU cores available. For example, if the physical machine used has 32 cores and 4 VMs running on the Host looking to use 40 cores, the cores cannot be exclusively dedicated to any application.


3. When creating the VM, the vCPUs must be assigned as a single CPU with multiple cores. (not multiple single core CPUs).
 - a. This can be seen in the VM's Windows Task Manager > Performance > Sockets: 1 and Virtual Processors: 8, 10, 16, etc.
 - b. If the Sockets value is more than 1, the configuration is incorrect.
4. Core requires NUMA memory processing to be enabled.
 - a. NUMA processing ensures that all memory is specific to the Host CPU configured.
 - b. To enable NUMA processing, "disable memory spanning" must be selected when setting up the VM.

*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 Recommended specifications must be obtained.

	BASIC*	RECOMMENDED
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	Windows 10:8 GB Windows 11:16 GB* * Due to Microsoft requirement changes	32 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	100 Mbps	1 Gbps
Operating System Windows Core, Home, IoT, Mobile, Starter, and Preview or Evaluation editions of Microsoft Operating Systems are not supported. To achieve optimal performance, choose the 'High Performance' power plan from the Power Options	<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

System Requirements

Control Panel.		
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	BASIC*	RECOMMENDED
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. FreeFlow Core may be configured with a remote SQL database. See the Installation Guide for more information. The server should be configured with a static IP address. DHCP is not recommended. Windows 11: Copilot Preview should be disabled: <ol style="list-style-type: none"> Open the Windows 11 Start menu and type <code>Copilot</code>. Select Copilot to open the settings screen. Locate Copilot (preview) and select Off. <p> Note: Instructions based on Copilot (preview) as of January 2024 and subject to change future Windows 11 updates.</p> <ul style="list-style-type: none"> FreeFlow Core supports Single Sign-on (SSO) from customer Active Directory accounts only. Federated login from third party accounts such as Facebook, Google, Apple, and so on is not supported. 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. 	
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 15.1 (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.

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/>.

New Features and Changes

Version 8.0

EASY STARTS

The Easy Starts have been updated to include new workflows based upon the installed Core modules. The new workflows cover most of the functionality contained within each module. Also, the workflows build upon other modules using the typical progress of Core Base > Advanced Prepress > Advanced Automation > Output Management > Variable Data Module.

Workflows for Advanced Prepress can use Core Base functionality. Advanced Automation can use functionality from Advanced Prepress and Core Base. Output Management workflows utilize all the three earlier modules. Variable Data Module could use all prior modules.

This allows for more complete workflows, production ready, and workflows.

CORE EXCHANGE

Core Exchange supports the import of FFC files from FreeFlow Core 6.x and 7.x.

Starting with Core version 8.x, Core Exchange allows for both upward and downward imports. Thus 8.0.1 can be imported from 8.0.4. However, new capabilities introduced in a later version will not be brought into the older version.

During import, an option has been added to disable hotfolders. This is important when clients are using both production and backup servers. Two Core servers must never be monitoring the same hotfolders at the same time.

JOB MANAGEMENT

- Add and Display Sender's name for job submission from Xerox Print Driver and generic Hot Folders to improve migration process from Output Manager to FreeFlow Core.
- Job Management enables option to refresh only jobs on the current display window.

WORKFLOW VARIABLES

- During workflow creation, users can specify variable parameters for workflow execution using the workflow Options setting within Workflow Setup.
- When using Job Submit, the submitter is provided with a list of workflow variables that they can modify to change the workflow's execution.



Note: Workflow variables are automatically added to MAX hotfolder setup.

HOT FOLDERS

- Users will have the ability to enable or disable HotFolders. When disabled, Core will not monitor the hotfolder for new jobs.
- This is important for clients to have both a production and backup Core server. Two Core servers should never be monitoring the same folder at the same time.

LOCAL AND GLOBAL PRESET

- When creating or copying a preset during editing, the user has the option to add the preset as Global, such as common and usable across multiple workflows or Local meaning defined only for use within a single workflow.

EXECUTION BREAKPOINTS

- To aid in building and debugging new workflows, users have the ability to define a “Breakpoint”(s) within a workflow.
- Breakpoints are added by selection (right mouse button) on the connector arrow between presets.
- Breakpoints can be added, removed, named, or disabled. Disabled breakpoints can be left in a workflow for future use. The breakpoint name will be displayed in the Job Properties pane within Job Management.

JOB PROCESSING

Sub job processing can be mandated to be in FIFO order via the Core Configure customer override “SubjobOrderFIFO”.

All sub jobs within a job will begin processing before a new job begins processing.

Hot Folder FIFO processing can be mandated via the Core Configure customer override “EnableHotfolderFIFOProcessing”. Core Configure setting ensures that items dropped into a Hotfolder are processed in the order received.

JOB TICKETING

A Job Ticketing component has been added to FreeFlow Core Base module. This component allows users to specify job ticketing within a workflow. This allows the workflow creator to easily control job ticketing and not rely upon the submitter to set all job ticketing.

SERVICE ACCOUNT, UTILITIES, AND COMMAND LINE INTERFACE (CLI) AUTHENTICATION

FreeFlow Core's service accounts, Utilities, and CLI now use Windows authentication. This is accomplished by adding the service account or currently logged on user account to a local Windows group named FreeFlow Core Security.

1. A message in the command prompt is displayed to validate that a logged in user is a member of the local Windows group named FreeFlow Core Security, use the following steps to add a user.
2. Open the Local User and Group Manager by pressing Windows Key + R.

New Features and Changes

3. Enter `lusrmgr.msc` and press OK.

4. Select Groups and locate the FreeFlow Core Security group.
5. Double-click on the group name to open the group.
6. Review the list of users.



Note: LocalSystem is an alias for NT AUTHORITY\SYSTEM. To add this user to a Group, use NT AUTHORITY\SYSTEM

7. If the identified account is missing, select the Add button and follow the on-screen instructions to add a user.
8. Press OK to close the group window.
9. Close the Local User and Group Manager, for example, lusrmgr, window.
10. Reboot the system for the changes to take effect.

SUBMISSION

Printer capabilities for use during job submission are cached to reduce job submission time. Core updates the cache periodically.

SUBSET FINISHING

Users will have the ability to define a start page and end page and repeat sequence for applying the subset finishing.

SYSTEM OPTIMIZATION

Users will be informed when system resource overload conditions have been detected along with directions to attempt to alleviate the issue.

SYSTEM

Users will have the ability to upgrade from FreeFlow Core 6.0 to FreeFlow Core 8.0. Integrated Callas version 15.1

Upgraded from iText 5.5 to iText 8 Incorporated Apache Tomcat patch 9.0.93

Upgraded Java version bundled with FreeFlow Core to 3/1.8

Resolved Issues

Version 8.0

- Fixed issue with excessive and unnecessarily elevated permissions in FreeFlow Core Installer.
- Fixed issue with Callas profile temp files filling up disk.
- Fixed issue with Print Engine State checkbox becomes selected unexpectedly
- Fixed issue with downsampling failing in FFCore Optimize Preset.
- Fixed issue with preview of watermark image when edited.
- Fixed issue with job failing with the error “Error creating output file.”
- Fixed issue with Route Job Characteristic value does not being retained when using French OS.
- Fixed Route Preset issue.
- Fixed issue with Route node when “is equal to” is used for custom MAX text variable.
- Fixed issue with queues not being visible when adding iGen5 printer with large stock library.
- Fixed issue with customer file name preventing Job Properties from displaying when it fails in Optimize node.
- Fixed issue where Manual Imposition was missing in the Base license.

Version 8.0.1

- Fixed issue with Mantis Service crashing on Optimize node
- Fixed issue with printer status error with Canon VarioPrint 6220 after upgrade to 7.0.6
- Fixed issue with page unresponsive when reviewing Barcode component.
- Fixed issue with jobs stuck in Pending Submission to Destination status
- Fixed issue with reversed order of back side pages in Cut and Stack Imposition
- Fixed issue with error that FFC failed to generate PDF file from VI job when using Perpetual License
- Fixed issue with Barcode node sheet numbering
- Fixed issue with unit measurement in Imposition Gutters
- Fixed issue with preset text being cut off in Workflow Setup
- Fixed issue with FFC to not wait for job status from the controller if the controller does not respond to the “Printer is Accepting Jobs” request

Version 8.0.2

- Fixed issue with reporting jobs as failed that succeeded
- Fixed issue with Image Enhancement component

Resolved Issues

- Fixed issue with Load Fonts for Optimize Preset via Manage Additional Fonts
- Fixed issue with Imposition preview - Sheet Size disappears when Cell clustering is ON
- Fixed issue with Pressmark Preset
- Fixed issue with Bookmarks being lost when joined
- Fixed issue with Bookmark when submitting to Job Group
- Fixed issue with FreeFlow Core stuck at Retrieving Jobs when applying Job Filter
- Fixed issue with powershell scripts when called directly do not log stdout
- Fixed issue with powershell scripts when called directly do not update variables in log stdout
- Fixed issue with position of the lay marks and inserted text
- Fixed issue with position of pressmarks in Core 8.0 compared to Core 7.0
- Fixed issue with Presets that are overlapped in Core 8.0
- Fixed issue with Watermark not printing on the output
- Fixed issue with unable to do security login while opening FF Core in browser
- Integrated Callas 15.2
- Integrated GhostScript 10.04.0

Version 8.0.3

- Fixed issue with the orientation of inserted pages and position of content added by the Watermark preset
- Fixed issue with PDF files causing errors on print controllers when converting to PS
- Fixed issue with position of page numbering being wrong on rotated pages
- Updated namespace declaration setting for Canon printers
- Fixed issue with jobs failing with “Failed to write job ticket” error
- Fixed issue with font selection changing to last used font
- Fixed issue with text watermark incorrectly rotated 90 degrees on landscape pages
- Fixed issue with Watermark node creating PDF with syntax issues if text alignment is not “None”
- Fixed issue with FF Core 7.0.11 Installation failing with VIPP services Installation error
- Fixed issue with unexpected Job Properties when using Job Ticketing Node and Imposition Node
- Fixed issue with Split producing corrupted PDF files in FFCore v8.0.1
- Fixed issue with not being able to set break point in French Language
- Fixed issue with Mirror Bleed value in Optimize Node
- Fixed issue with Java vulnerability
- Fixed issue with Resize Page Preset not resizing the Trim Box
- Fixed issue with joboptions file not showing correct options

- Fixed issue with Job Characteristic Preset with multiple sets
- Updated Apache Tomcat to version 9.0.102

Known Issues and Limitations

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 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.

WEB GUI REFRESH

Users experiencing improper display after FreeFlow Core 8.0 server upgrade may require the browser cache to be cleared.

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.

VARIABLE DATA ENABLEMENT

After upgrading FreeFlow Core to 7.0, if Variable Data was enabled before upgrade to 7.0, VIPP jobs will not process until a 7.0 license enabling Variable Data is installed.

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://learn.microsoft.com/en-us/troubleshoot/windows-server/shell-experience/temp-folder-with-logon-session-id-deleted>.

System

BROWSERS SEND COOKIE WITH SECURE FLAG USING HTTPS URL

When using a browser to access the FreeFlow Core Administration GUI and using a secure HTTP URL, the following action must be performed to ensure browsers send a secure cookie only on an HTTPS connection.

- Execute the file RequireSSL found at C:\Program Files\Xerox\FreeFlow Core\Support

Job Management

LARGE FILES USING NATIVE WINDOWS COMPRESSION

Windows native compression uses two different compression formats, Deflate for files smaller than 2 GB 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 JOB FILE SIZE

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

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.

LARGE PAGE SIZE

FreeFlow Core supports custom page size up to 9,999.999 inches (253,999.97 mm)

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. For example, `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 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.

JOB NAMING

Using the following characters (\, /, :, *, ?, ", <, >, |) in a Job Name, the JobName attribute in a XPIF job ticket, in a JDF job ticket (CustomerInfo/@CustomerJobName, JDF/@DescriptiveName) may cause the following to occur:

1. The filename of the job written by the Save node will replace those characters with the “-” character.
2. The JobName attribute written into the XPIF or JDF ticket will replace those characters with the “-” character.
3. Those characters as part of the job name seen at the printer may not be seen or be substituted.

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, 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.

SUBSET FINISHING

When subset finishing is selected for a printer destination, any SetPageDevice commands within a submitted PS (Postscript) document will be lost.

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.

XEROX® 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 should not be. 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 (through 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



Note: 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, for example, XPIF Job Ticket associated with PDF file or JDF job ticket)
- Output Order
- Output Location
- Offset
- Exceptions
- Inserts (single-page only)
- Slip Sheets
- Account ID
- The following Job Ticket Defaults (Setup Tab) are not supported on Non-Xerox printers:
 - Color (Canon PRISMAsync Print Server devices)
 - Leading Banner Page
 - Sender
 - Finishing (Canon PRISMAsync Print Server devices)
- Subset Finishing and Job Ticketing Page Range are not supported.

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. The nomenclature and operation of equivalent FreeFlow Core Printer Job Commands (Release, Hold, and 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. 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 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.

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.

LOCAL AND GLOBAL PRESET

When Copying a Local Preset to Global, a Move is done instead.

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 from 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.

COLOR SPLIT NODE

Starting with the 6.2.8 release, the processing time for the Color Split Node may require more time than prior releases as changes were made to determine the color content more accurately on the pages within the document.

EXTERNAL NODE

External node has added the ability to directly call PowerShell and CScript callable scripts. Other scripting methods (Hotfolder Preprocessing, Workflow Preprocessing, and Queue Management Preprocessing/Postprocessing) will need to call out to PowerShell, Python, and CScript via Windows paths to the executables.

ADOBE INVENTORY REPORT

When Color Space is added into the Adobe Inventory Report, the file size may be doubled. Add an Optimize Preset with the Remove Recurring Content to minimize file size.

FIELD TYPE

Changing the Field Type clears the Field Name.

FIXED VALUES IN RESIZE AND IMPOSITION PRESETS

Workflows require fixed values instead of variables.

IMPOSE

Using Impose may produce files twice as large as the original file. Automatic Orientation is being ignored.

Fit to Media results may be incorrect and inconsistent.

MANAGE COLOR CONVERT REGISTRATION

Manage Color Convert Registration Color to Spot is not resulting in a spot color designation for the Registration Mark.

MICROSOFT PUBLISHER JOBS

Submitting Microsoft Publisher files to workflows may fail with Error opening input file.

PAGE NUMBER PRESET

Grayscale Page Numbers are not generated correctly.

PRINTER MANAGEMENT

On the status tab, the Pause Submission button is enabled.

QUEUE MANAGEMENT

When using the query lpq command to check jobs submitted to any queue, the Parent Job status is listed as Received, but Sub Jobs are not listed.

WORKFLOW VARIABLES

Default Workflow Variables from the Hot Folder are not being used.

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 was not closed prior to the import, log out of FreeFlow Core or 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.

XMPie StoreFlow Hosted by XMPie

FILE SIZE LIMITATION FROM FREEFLOW CORE TO A PRINTER

When FreeFlow Core is hosted by XMPie as part of XMPie StoreFlow, the maximum file size that can be forwarded from FreeFlow Core to a printer is 1 GB.

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 through IPP such as copy count, media type, sides-imaged, output location, and so on., 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 through 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 EX FS600 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® DEVICES	CONTROLLER AND MINIMUM SUPPORTED VERSION
	Xerox EX 9065-70 Print Server, powered by Fiery
	Xerox EX-i 9065-70 Print Server, powered by Fiery
	Xerox EX-c 9065-70 Print Server, powered by Fiery
Xerox Color C60/C70 Printer	Xerox EX/EX-i C60/C70 Print Server 1.0, powered by Fiery
	Xerox Integrated Color Server
	Xerox FreeFlow Print Server Integrated 2.0 SP1 (CP.20.1.15187.0 or higher)
Xerox Color C75 Press	Xerox EX Print Server 1.0, powered by Fiery
	Xerox Integrated Fiery Color Server 1.0
	Xerox FreeFlow Print Server 9.0 SP3
Xerox Color J75 Press	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 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 Versant® 4100 Press	Xerox EX-P 4100 Print Server 1.0 and higher
	Xerox EX 4100 Print Server 1.0
Xerox Versant® 3100 Press	Xerox EX/EX-P 3100 Print Server 1.0 and higher
	Xerox FreeFlow Print Server 9.0 SP3
Xerox Versant® 2100 Press	Xerox EX/EX-P 2100 Print Server 1.0 and higher
	Xerox FreeFlow Print Server 9.0 SP3
Xerox Versant® 280 Press	Xerox EX 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® DEVICES	CONTROLLER AND MINIMUM SUPPORTED VERSION
	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-P6 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 HD 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 using Job Messaging Format (JMF) and the non-Xerox device.

To the extent that FreeFlow Core supports, and a particular device publishes certain capabilities using 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. For more information, refer to [Known Issues and Limitations](#).

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 using 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, consult [Fiery - Fiery JDF - Overview](#).
- 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 using 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

Supported

PRINTER	CONTROLLER AND MINIMUM SUPPORTED VERSION
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

Installation Procedures

Installation and Upgrades

Refer to the *Xerox® FreeFlow® Core Installation Guide* for installation and upgrade instructions. This document may be obtained from the Support and Drivers section on www.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 8 n.n 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 8.n.n. To obtain a prior release, contact Customer Support.

FreeFlow Core licensing only supports UUID in the form of (xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx) or MAC address in the form (xxxxxxxxxxxxxx). 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 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 8.n.n

1. Double-click the FreeFlowCore-8.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. On the Service Account Authentication screen, take appropriate action. For more details, refer to [Service Account, Utilities, and Command Line Interface \(CLI\) Authentication](#).
5. 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.
6. In the License Agreement window, accept the terms of the agreement and click Next.
7. Click Install to begin the installation.
8. 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 and Drivers section on www.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 & Platform > 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 then, 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 username 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 ISS.
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.

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. For example, `\\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 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 CONFIGURATION

`FF_CORE_HOME` > Installation directory.

Default = `C:\Program Files\Xerox\FreeFlow Core` or `C:\Program Files\Xerox\FreeFlow Core Submit`.

FREEFLOW CORE SERVERS

`XRX_TENANTSHOMEROOT` > Tenant Data, for example, Hot Folder, Presets, and Spool.

Default = `C:\Xerox\FreeFlow\Core`.

`XRX_I2S_DATAPATH` > I2S Data.

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

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, for example, Hot Folders and 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 can back up open files.

Online Resources

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

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.

