

# Xerox Product Security

## Data Protection: Image Overwrite, Encryption and Disk Removal



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# Introduction

## General Purpose and Audience

This document is intended to provide users of Xerox products accurate and actionable information to help them evaluate and manage risks associated with image data stored to disk drives or other non-volatile memory.

(Posted publicly at [www.xerox.com/security](http://www.xerox.com/security))

## Summary Information

Xerox copiers, printers and multifunction products are intelligent devices that contain a computer and the necessary software that allows them to accomplish the many productivity-enhancing tasks that have become so valuable to today's workplaces. These internal computers may have a disk drive or other non-volatile storage where image data is written during job processing, or where it may be stored for later reprint. From the introduction of the first digital products Xerox has recognized the risk of retained data being inappropriately recovered from non-volatile storage and built features and countermeasures into our devices to help customers safeguard their data.

Xerox has taken information security seriously for years. An excellent source for security information is [www.xerox.com/security](http://www.xerox.com/security), where information including security bulletins and patch information, US-CERT advisories, white papers, and videos on what customers can and should be doing to mitigate security risks can be found. Xerox provides detailed information about internal product workflows and the algorithm used for image overwrite in Information Assurance Documents which are available for many products at the website or as requested for older products.

Different devices represent different levels of risk. It's axiomatic that as functionality increases so does the potential risk. For those devices, countermeasures are built into the machine to reduce the risk.

- Not all copiers have hard disk drives. Those that do not are not at risk.
- Some copiers and multifunction devices have hard disk drives, but do not use the hard disk drive for the copying function. These are also not at risk.
- Those copiers and multifunction devices that do have hard disk drives for copying, should have an "image overwrite" feature that destroys the copied image immediately. That function should be built in, (which Xerox does), or installable via a security kit. If neither solution exists for the product, it is at risk.
- Also, most copiers and multifunction devices that have hard disks include a disk encryption feature which encrypts all stored customer image data with the state-of-the art AES encryption algorithm.
- Xerox has developed a disk removal program so that prior to a device being returned a Xerox technician will remove the disks and leave them with the customer. This program charges a flat fee per machine for the service. Contact Xerox Customer Support for information on fees and availability in your geography.

# Best Practices for Hard Drives

Disk encryption will effectively protect data at rest from unauthorized access. Image overwrite is effective at removing data from the hard drive once the data is no longer needed. Xerox recommends that the following features be enabled for products supporting Disk Encryption and the Image Overwrite feature.

- Disk Encryption – Uses state-of-the-art AES 128-bit encryption to secure data at rest.
- On Demand Image Overwrite – Executed prior to removal or as needed to remove all image data from disk or other non-volatile storage.
- Immediate Image Overwrite – Automatically executed immediately after jobs are completed to remove image data from disk or other non-volatile storage.
- Scheduled Image Overwrite – Automatic, daily overwrite of all image data from disk or other non-volatile storage including any pending jobs.

For highly classified data, or if no overwrite capability is available, removing and destroying the disk drive may be the appropriate safe guard.

Xerox does not offer sanitization or cleansing services for returned disk drives. Some returned disks may get overwritten as part of the remanufacturing process; however it is not possible to know what happens to a specific disk in any particular case.

## Next Steps

The table below will help you to identify Xerox products containing disks or other non-volatile storage and whether those products include image overwrite capability and/or disk encryption.

You'll need to assess the risk for your environment and determine whether hard drive removal or image overwrite is appropriate.

Instructions on how to install or enable image overwrite or disk encryption can be found in the product documentation which is available online at [www.xerox.com](http://www.xerox.com) in the 'Support and Drivers' link. These features can be administered at the local user interface or using Centroware<sup>®</sup> Internet Services (CWIS).

Xerox offers technical and professional services to assist you.

Please contact your local Xerox sales representative or call **1-800-ASK-XEROX (1-800-275-9376 x773)** (8 AM - 8 PM ET, MON - FRI). Also you can check our website <http://www.xerox.com/about-xerox/customer-training/enus.html> for training and consulting help.

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
<p>Copy Centre C20</p> <p>CopyCentre C118</p> <p>Phaser 3100MFP, 3200MFP, 3300MFP</p> <p>Phaser 3140, 3155B, 3160B, 3160N</p> <p>Phaser 3150</p> <p>Phaser 3425, 3428</p> <p>Phaser 3250</p> <p>Phaser 3500</p> <p>Phaser 3600</p> <p>Phaser 6110MFP</p> <p>Phaser 6115MFP</p> <p>Phaser 6121MFP</p> <p>Phaser 6128MFP</p> <p>Phaser 6180, 6180MFP</p> <p>WorkCentre M20, M20i</p> <p>WorkCentre M15</p> <p>WorkCentre M118, M118i</p> <p>WorkCentre PE120, PE120i</p> <p>WorkCentre Pro 215</p> <p>WorkCentre Pro 412</p> <p>WorkCentre Pro 416</p> <p>WorkCentre Pro 421</p> <p>WorkCentre 3119</p> <p>WorkCentre 4118</p> <p>WorkCentre 4150/C</p> <p>WorkCentre 3210, 3220</p> <p>Xerox 214/212 Digital Printer/Copier</p>	<p>The products listed do not contain a hard drive and are not vulnerable to information theft from the hard drive.</p>	<p>Not available</p>	<p>Not available</p>
<p>Phaser 6280</p>	<p>The product listed contains an optional hard drive used for print operations. Neither Image Overwrite nor disk encryption of the hard disk is available.</p>	<p>Not available</p>	<p>Not available</p>

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
<p><b>WorkCentre 5030/5050*</b></p> <p><b>WorkCentre 5135/5150*</b></p> <p><b>WorkCentre 5632, 5638, 5645, 5655, 5665, 5675, 5687**</b></p> <p><b>WorkCentre 5735, 5740, 5745, 5755, 5765, 5775, 5790**</b></p>	<p>The products listed do not use a hard drive for Copy jobs.</p> <p>The WorkCentre products use a hard disk for print and scan operations.</p> <p>*Image Overwrite is included as a standard feature in the WC5030/5050 and WC5135/5150. Disk encryption is included as a standard feature in the WC 5030/5050 with system software version 5.004.44.000 or greater.</p> <p>** Image Overwrite, which allows overwriting of the image data upon job completion or on demand, and disk encryption, which encrypts the image store areas on the hard disks, are included as standard features on the WorkCentre 56XX and 57XX products.</p> <p>Applies only if the Fax accessory is present:</p> <p>WC5130/5150 - Fax non-volatile memory is not overwritten;</p> <p>WC5135/5150 – Fax non-volatile memory is overwritten if Image Overwrite is installed and enabled;</p> <p>WC5600 and 5700 series – Fax non-volatile memory is overwritten if Image Overwrite is installed and enabled.</p>	<p>WorkCentre 5030/5050:</p> <p>Uninstalled. Enabled upon installation. Contact Xerox Customer Support to obtain installation codes.</p> <p>WorkCentre 5600 series:</p> <p>prior to system SW version 21.120.031.000: Uninstalled, Enabled upon installation, Contact Xerox Customer Support to obtain installation codes;</p> <p>after system SW version 21.120.031.000 or 25.054.010.000: Installed and Enabled.</p> <p>WorkCentre 5135/5150; WorkCentre 5700 series: Installed and Enabled</p>	<p>WorkCentre 5030/5050:</p> <p>Not available.</p> <p>All others: Installed and enabled.</p>
<p><b>4590, 4595</b></p> <p><b>CopyCentre/WorkCentre/ WorkCentre Pro 232, 238, 245, 255, 265, 275*</b></p> <p><b>CopyCentre C35, C45, C55</b></p> <p><b>WorkCentre M35, M45, M55</b></p> <p><b>WorkCentre Pro 35, 45, 55</b></p> <p><b>CopyCentre C165, C175</b></p> <p><b>WorkCentre M165, M175</b></p> <p><b>WorkCentre Pro 165, 175</b></p>	<p>The products listed do not use a hard drive for Copy jobs.</p> <p>The WorkCentre products use a hard disk for print and scan operations.</p> <p>An Image Overwrite optional accessory is available for these products which allow overwriting of the image data upon job completion or on demand.</p> <p>*On selected releases the Image Disk Overwrite can be configured to run on a regular schedule.</p> <p>Applies only if the Fax accessory is present: Fax non-volatile memory is not overwritten.</p>	<p>Enabled upon installation. Contact Xerox Customer Support to obtain the Image Overwrite accessory.</p>	<p>Not available, except for 200-series.</p> <p>Disk encryption is included as a standard feature in the CC/WC/WC Pro 200-series with system software version 12/13/14.60.17.000 or greater. It is enabled by default and cannot be disabled.</p>

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
<p><b>ColorQube 9201, 9202, 9203</b>  <b>WorkCentre 6400</b>  <b>WorkCentre 7655, 7665, 7675</b>  <b>WorkCentre 7755, 7765, 7775</b></p>	<p>The products listed use a hard drive for all imaging functions.</p> <p>Image Overwrite, which allows overwriting of the image data upon job completion or on demand, and disk encryption, which encrypts the image store areas on the hard disks, are included as standard features.</p> <p>Applies only if the Fax accessory is present:</p> <p style="padding-left: 40px;">CQ9200 and WC7700 series - Fax non-volatile memory is overwritten if Image Overwrite is installed and enabled;</p> <p style="padding-left: 40px;">WC6400 and 7600 series – Fax non-volatile memory is not overwritten.</p>	<p>CQ92XX and WC77XX series: Installed and Enabled</p> <p>WC76XX series: Enabled upon installation. Contact Xerox Customer Support to obtain installation codes.</p> <p>WorkCentre 6400: Installed but disabled by default</p>	<p>Installed and Enabled</p> <p>WorkCentre 6400: Installed but disabled by default</p>
<p><b>CopyCentre C2128/C2636/C3545*</b>  <b>WorkCentre Pro C2128/C2636/C3545*</b>  <b>CopyCentre Pro C32, C40</b>  <b>WorkCentre Pro 32, 40</b>  <b>CopyCentre C65/C75/C90</b>  <b>WorkCentre Pro 65/75/90</b></p>	<p>The products listed use a hard drive for all imaging functions.</p> <p>An Image Overwrite optional accessory is available for these products which allow overwriting of the image data upon job completion or on demand.</p> <p>Applies only if the Fax accessory is present: Fax non-volatile memory is not overwritten.</p>	<p>Not installed. Enabled upon installation. Contact Xerox Customer Support to obtain installation codes.</p>	<p>Not available</p>
<p><b>WorkCentre 7132</b>  <b>WorkCentre 7232, 7242</b>  <b>WorkCentre 7228, 7235, 7245</b></p>	<p>The products listed use a hard drive for all imaging functions.</p> <p>An Image Overwrite optional accessory is available for these products which allow overwriting of the image data upon job completion or on demand.</p> <p>Applies only if the Fax accessory is present:</p> <p style="padding-left: 40px;">Fax non-volatile memory is overwritten if Image Overwrite is installed and enabled.</p>	<p>Uninstalled. Enabled upon installation. Contact Xerox Customer Support to obtain the Data Security Kit.</p>	<p>Uninstalled. Enabled upon installation. Contact Xerox Customer Support to obtain the Data Security Kit.</p>

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
<p><b>WorkCentre 7328/7335/7345/7346</b></p> <p><b>WorkCentre 7425/7428/7435*</b></p>	<p>The products listed use a hard drive for all imaging functions.</p> <p>Image Overwrite is included as a standard feature on these products.</p> <p>*Disk encryption, which encrypts the image store areas on the hard disks, is included as a standard feature.</p> <p>Applies only if the Fax accessory is present:</p> <p style="padding-left: 40px;">Fax non-volatile memory is overwritten if Image Overwrite is installed and enabled.</p>	<p>Installed and Enabled</p>	<p>Installed and Enabled</p>
<p><b>Phaser 3635*</b></p> <p><b>WorkCentre 4150S, 4150X, 4150XF**</b></p> <p><b>WorkCentre 4250S/4250X/4250XF*</b></p> <p><b>WorkCentre 4260S/4260X/4260XF*</b></p>	<p>The products listed use a hard drive for Copy operations involving landscape/stapled jobs only.</p> <p>The products listed use a hard drive for print and scan operations.</p> <p>* Image Overwrite is included as a standard feature on these products.</p> <p>* These products include disk encryption.</p> <p>** Image Overwrite is a chargeable option on the WC4150 products.</p>	<p>Installed, but disabled by default; can be enabled using CWIS</p>	<p>On those products that include disk encryption, it is permanently enabled and cannot be disabled.</p>
<p><b>CopyCentre C123, C128, 133</b></p> <p><b>WorkCentre M123, M128, 133</b></p> <p><b>WorkCentre Pro 123, 128, 133*</b></p> <p><b>WorkCentre 5222/5225/5230*</b></p> <p><b>WorkCentre 5016, 5020</b></p>	<p>The CopyCentre and WorkCentre products do not use a hard drive for copy, unless the optional hard drive option has been installed.</p> <p>The WorkCentre Pro products use a hard drive for print and scan operations.</p> <p>* A Data Security Kit that includes both image overwrite and disk encryption is available for the products indicated.</p>	<p>WorkCentre Pro 123, 128, 133: Image Overwrite must be enabled after the option is installed. Contact Xerox Customer Support to obtain installation codes.</p>	<p>WorkCentre Pro 123, 128, 133: Disk encryption must be enabled after the option is installed. Contact Xerox Customer Support to obtain installation codes.</p>

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
<b>Phaser 7750, 7760</b> <b>Phaser 8560MFP, 8860MFP</b> <b>WorkCentre C2424</b>	<p>The products listed use a hard drive for some imaging functions such as any stored job format, or collated jobs. Standard print jobs do not write to the disk.</p> <p>These devices include Image Overwrite as a standard feature. Image Overwrite can be enabled via the security settings on the device's web page.</p>	Installed; disabled by default	Encryption is available for the 7750 and 8560MFP, and is enabled via FW update, the default state is no encryption. Contact Xerox Customer Support to obtain the update.
<b>Phaser 4500</b> <b>Phaser 4510</b> <b>Phaser 5500</b> <b>Phaser 5550</b> <b>Phaser 6120</b> <b>Phaser 6350, 6360</b> <b>Phaser 7300</b> <b>Phaser 7400</b> <b>Phaser 7500</b> <b>Phaser 8550, 8560, 8860</b>	<p>These Phaser products do not use a hard drive for printing, unless the optional hard drive option has been installed.</p> <p>The hard drive option includes the Image Overwrite feature. Configure the option via the device Web Page (Properties) or the Local User Interface (Tools) to enable or disable Image Overwrite.</p>	Installed; not enabled by default	Encryption is available for the 4510, 5550, and 6360, and is enabled via FW update, the default state is no encryption. Contact Xerox Customer Support to obtain the update.
<b>WorkCentre C226</b>	<p>This WorkCentre product uses a hard drive for all imaging functions.</p> <p>A Data Security Kit chargeable option is available that enables Image Overwrite and hard drive encryption.</p>	Enabled when Data Security Kit is installed. Contact Xerox Customer Support to obtain the kit.	Not available
<b>DocuColor 12</b>	<p>This DocuColor product does not use a hard drive to copy, unless the electronic collation option has been purchased.</p> <p>There is no Image Overwrite option available.</p> <p>Copy images are not transferred to Network controllers offered with this product.</p>	Not available	Not available

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
<p><b>DocuColor 240, 250</b> <b>DocuColor 242, 252, 260</b></p>	<p>This DocuColor product uses a hard drive for all imaging functions.</p> <p>The product includes Image Overwrite and Disk Encryption features. The Image Overwrite option allows overwriting of image data upon job completion.</p> <p>Network controllers offered with this product may offer various options for Image Overwrite, Encryption or Removable Hard Disk. Please contact your local Xerox representative for more information.</p>	<p>Not enabled by default</p>	<p>Encryption of image data in the print engine is permanently enabled and cannot be disabled.</p>
<p><b>DocuColor 3535</b></p>	<p>This DocuColor product uses a hard drive for all imaging functions.</p> <p>Disk overwrite is not available.</p> <p>Network controllers offered with this product may offer various options for Image Overwrite, Encryption or Removable Hard Disk. Please contact your local Xerox representative for more information.</p>	<p>Not available</p>	<p>Not available</p>
<p><b>Document Centre 220, 230, 332, 340, 420, 426</b></p>	<p>These Document Centre products do not use a hard drive, unless the hard drive option has been installed.</p> <p>If the hard drive option is not installed the image data is buffered in volatile memory and will either be overwritten by subsequent jobs or dissipated when power is removed.</p>	<p>Not available</p>	<p>Not available</p>
<p><b>Document Centre 240, 255, 265, 425, 430, 432, 440, 460</b></p>	<p>These Document Centre products use a hard drive for all imaging functions.</p> <p>Disk overwrite is not available for these products.</p>	<p>Not available</p>	<p>Not available</p>
<p><b>WorkCentre 423, 428</b></p>	<p>These WorkCentre products use a hard drive for all imaging functions.</p> <p>Disk overwrite is not available for these products.</p>	<p>Not available</p>	<p>Not available</p>
<p><b>Document Centre 460ST, 470ST, 480ST, 490ST</b></p>	<p>These Document Centre products use a hard drive for all imaging functions.</p> <p>An Image Overwrite accessory for the Network Controller hard disk only, is available for these products, which allows overwriting of the image data upon job completion or on demand.</p> <p>A Removable Hard Drive option is also available.</p>	<p>Not installed Not enabled</p> <p>Contact Xerox Customer Support to obtain the Image Overwrite and/or Removable Hard Drive accessories.</p>	<p>Not available</p>

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
Document Centre 535, 545, 555	<p>The Digital Copier configurations of these Document Centre products do not use a hard drive, unless the hard drive option has been installed.</p> <p>The Network Multifunction System configurations of these Document Centre products use a hard drive for all imaging functions. There is an Image Overwrite option for this configuration that allows overwriting of the image data upon job completion or on demand.</p>	<p>Not installed</p> <p>Not enabled</p> <p>Contact Xerox Customer Support to obtain the Image Overwrite accessory.</p>	Not available
DocuColor 1632, 2240 WorkCentre M24	<p>These products use a hard drive for all imaging functions.</p> <p>Disk overwrite is not available for these products.</p>	Not available	Not available
<p>Nuvera 100/120 Digital Copier/Printer and Production System</p> <p>Nuvera 100/120/144 EA/MX Digital Production System</p> <p>Nuvera 200/288 EA/MX Perfecting Production System</p>	<p><b>Print Engine:</b> All models of Nuvera print engines include one or more hard drives.</p> <p>If the optional Data Overwrite feature for DocuSP/FFPS is installed the Image Disk(s) in the print engine can be securely Overwritten.</p> <p>An optional Removable Hard Drive Kit may be available. Please contact your local Xerox representative for information.</p> <p><b>Digital Front End:</b> This product includes an embedded DocuSP or FreeFlow Print Service controller that captures Image data on the Hard drive. Image Overwrite and other security features are available. Refer to information provided elsewhere in this document on the DocuSP/FreeFlow Print Server.</p>	<p>Overwrite is not enabled by default.</p> <p>Contact Xerox Customer Support to obtain the Overwrite kit and have it installed.</p>	Not available
<p>iGen3 90/110 Digital Production Press</p> <p>iGen4 90/110 Digital production Press</p>	<p><b>Print Engine:</b> All models of iGen print engines include one or more hard drives where image data is stored.</p> <p>An optional Removable Hard Drive Kit may be available. Please contact your local Xerox representative for information.</p> <p><b>Digital Front End:</b> This product is offered with a choice of DFEs. All of them capture Image Data on internal hard drive(s). Image Overwrite and other security features may be available. Refer to information provided elsewhere in this document on the DocuSP/FreeFlow Print Server, EFI Fiery Server, and Creo Spire Server.</p>	Not available	Not available

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
<p><b>Xerox 700 Digital Color Press</b></p>	<p><b>Print Engine:</b> this device uses a hard drive for all imaging functions.</p> <p>The product includes Image Overwrite and Disk Encryption features. The Image Overwrite option allows overwriting of image data upon job completion.</p> <p>An optional Removable Hard Drive Kit may be available. Please contact your local Xerox representative for information.</p> <p><b>Digital Front End:</b> This product is offered with a choice of DFEs. All of them capture Image Data on internal hard drive(s). Image Overwrite and other security features may be available. Refer to information provided elsewhere in this document on the DocuSP/FreeFlow Print Server, EFI Fiery Server, and Creo Spire Server.</p>	<p>Not enabled by default</p>	<p>Encryption of image data in the print engine is permanently enabled and cannot be disabled.</p>
<p><b>Xerox 4110/4590 Enterprise Print System</b></p> <p><b>Xerox 4112/4127 Copier/Printer &amp; Enterprise Printing System</b></p> <p><b>Xerox 4595 Digital Copier/Printer</b></p>	<p><b>Print Engine:</b> These devices use a hard drive for all imaging functions. The image data is encrypted.</p> <p>An optional Image Overwrite Feature is available. Please contact your local Xerox representative for information.</p> <p>An optional Removable Hard Drive Kit may be available. Please contact your local Xerox representative for information.</p> <p><b>Digital Front End:</b> This product is offered with a choice of DFEs. All of them capture Image Data on internal hard drive(s). Image Overwrite and other security features may be available. Refer to information provided elsewhere in this document on the DocuSP/FreeFlow Print Server, EFI Fiery Server, and Creo Spire Server.</p>	<p>Overwrite is not enabled by default.</p> <p>Contact Xerox Customer Support to obtain the Overwrite kit and have it installed.</p>	<p>Encryption of image data in the print engine is permanently enabled and cannot be disabled.</p>

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
<p><b>DocuColor 2045/2060 Digital Color Press</b></p> <p><b>DocuColor 5252 Digital Color Press</b></p> <p><b>DocuColor 6060 Digital Color Press</b></p>	<p><b>Print Engine:</b> These print engines include an Image Disk. Data is stored in a proprietary format.</p> <p>An optional Image Overwrite kit is available. Contact your local Xerox representative for information.</p> <p><b>Digital Front End:</b> This product is offered with a choice of DFEs. All of them capture Image Data on internal hard drive(s). Image Overwrite and other security features may be available. Refer to information provided elsewhere in this document on the DocuSP/FreeFlow Print Server, EFI Fiery Server, and Creo Spire Server.</p>	<p>Overwrite is not enabled by default.</p> <p>Contact Xerox Customer Support to obtain the Overwrite kit and have it installed.</p>	<p>Not available</p>
<p><b>DocuColor 5000</b></p> <p><b>DocuColor 7000/8000 Digital Press</b></p> <p><b>DocuColor 7000AP/8000AP Digital Color Press</b></p> <p><b>DocuColor 7002/8002 Digital Color Press</b></p>	<p><b>Print Engine:</b> These devices do not include an Image disk.</p> <p>The DocuColor 5000 has a User Interface platform (PCUI) that does include a Hard Drive, but no image data is ever stored on it. Overwrite is not needed.</p> <p><b>Digital Front End:</b> This product is offered with a choice of DFEs. All of them capture Image Data on internal hard drive(s). Image Overwrite and other security features may be available. Refer to information provided elsewhere in this document on the DocuSP/FreeFlow Print Server, EFI Fiery Server, and Creo Spire Server.</p>	<p>Not available</p>	<p>Not available</p>
<p><b>DocuPrint 65 Laser Printer</b></p> <p><b>DocuTech 65 Publisher</b></p> <p><b>DocuPrint 75/90 Digital Printer</b></p> <p><b>DocuTech 75/90 Digital Printer</b></p> <p><b>DocuPrint 75 MICR</b></p> <p><b>DocuPrint 75MX EPS Digital Printer</b></p>	<p><b>Print Engine:</b> These devices include an Image disk.</p> <p>Overwrite software is available. Please contact your local Xerox representative for information.</p> <p>Removable HD kits are not available for these print engines.</p> <p><b>Digital Front End:</b> This product includes an embedded DocuSP controller that captures Image data on the internal hard drive. Refer to information provided elsewhere in this document on the DocuSP/FreeFlow Print Server.</p>	<p>Overwrite is not enabled by default.</p> <p>Contact Xerox Customer Support to obtain the Overwrite kit and have it installed.</p>	<p>Not available</p>

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
<p>DocuPrint 4635 NPS/IPS  DocuPrint 4090 NPS/IPS  DocuPrint 4850/4890 NPS/IPS  DocuPrint 92C NPS/IPS  DocuPrint 96 NPS/IPS/MX  DocuPrint 180 IPS MX Printer  DocuPrint 180 NPS MX Printer</p> <p>Note: there may be variants of the above which also include the IPS/NPS controller.</p>	<p><b>Print Engine:</b> These devices do not include an image disk.</p> <p><b>Digital Front End:</b> These printers include an NPS/IPS embedded controller which includes one or more hard drives where Image data is stored. Refer to information provided elsewhere on the NPS/IPS embedded controllers.</p>	Not available	Not available
<p>4050  4090  4135  4250  4650  4850  4890  4890 HLC  8700 LPS  9700 LPS  9790 LPS  DocuPrint 92 LPS  DocuPrint 92C LPS  DocuPrint 96 LPS  DocuPrint 180 LPS  DocuPrint 4090 LPS  DocuPrint 4850 LPS</p> <p>Note: there are “MX” variants of the above printers.</p>	<p><b>Print Engine:</b> These devices do not include an image disk.</p> <p><b>Digital Front End:</b> These printers include an embedded “J-11” Digital Front End that includes a hard drive that captures Image data.</p>	Not available	Not available
<p>“J-11 Controller”</p>	<p><b>Digital Front End:</b> The J-11 controller is a digital front end that includes a hard drive to process print resources and Image data.</p> <p>Production PostScript Option (PPO) for the J-11 controller included a second Digital Front End with an Image disk for image processing and a second “Shared Disk” to transfer Image data to the J-11 controller.</p>	Not available	Not available

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
<p><b>DocuPrint 155/180 EPS &amp; MX Printer</b></p> <p><b>DocuPrint 100/115/135 EPS and MX Printer</b></p>	<p><b>Print Engine:</b> These devices do not include an image disk.</p> <p><b>Digital Front End:</b> This product includes a DocuSP/FreeFlow Print Server that captures Image data on the hard drive. Data Overwrite and other security features are available. Refer to information provided elsewhere in this document on the DocuSP/FreeFlow Print Server.</p>	Not available	Not available
<p><b>DocuPrint 350/424/500/525/7000/850/1000/1050 Continuous Feed Transactional Printer</b></p> <p><b>DocuPrint 495 Continuous Feed Printer</b></p> <p>Note: there may be additional models of Xerox-sold Continuous Feed printers not listed here. Please contact your Xerox Support representative for security-related questions about these products.</p>	<p><b>Print Engine:</b> Continuous Feed print engines use the “Stampa” engine controller. There are hard drives which do not capture image data, unless special diagnostic functions are enabled by the Xerox Service engineer.</p> <p><b>Digital Front End:</b> Choices of Digital Front Ends include the DocuSP/FreeFlow Print Server (FFPS). When this configuration is installed an additional subsystem called the “DP/CF Publisher” provides a bridge between the DocuSP/FFPS system, and the Print Engine. The DP/CF Publisher platform includes an Image Disk. Data overwrite is not available for DP/CF Publisher Image Disk.</p>	This configuration includes a DocuSP/FreeFlow Print Server that captures Image data on the hard drive. Data Overwrite and other security features are available. Refer to information provided elsewhere in this document on the DocuSP/FreeFlow Print Server.	Not available
<p><b>DocuSP/FreeFlow Print Servers (FFPS)</b></p>	<p><b>Digital Front End:</b> The DocuSP or FreeFlow Print Server (FFPS) captures customer jobs, print resources, and Image data on one or more hard drives.</p> <p>Xerox offers the following options for DocuSP/FreeFlow Printer Server products; please contact your local Xerox representative for information.</p> <ul style="list-style-type: none"> <li>- Optional Removable Hard drive Kit so drives may be stored in a secure location</li> <li>- Optional On-Demand Data Overwrite feature for DocuSP 3.8 and later, and FFPS 6.x and later. Note: With the FreeFlow Print Server 7.x software, the feature is a no-charge option.</li> </ul>	Overwrite is not enabled by default. Contact Xerox Customer Support to obtain the Overwrite kit and have it installed.	Not available
<p><b>NPS/IPS embedded controller</b></p>	<p><b>Digital Front End:</b> The NPS and IPS embedded digital controllers capture image data.</p>	Not available.	Not available

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
<p><b>DocuTech Production Publisher Model 90 and 135</b></p> <p><b>DocuTech 135 Printer</b></p>	<p><b>Print Engine:</b> These printers include an embedded proprietary controller with one or more hard drives which store Image Data.</p> <p><b>Digital Front End:</b> An optional Network Controller/Front End includes one or more hard drives that store image data.</p>	Not available	Not available
<p><b>Xerox 5090/5090S Copier</b></p> <p><b>Xerox 5390 Copier</b></p> <p><b>Xerox 5690 Copier</b></p>	<p><b>Print Engine:</b> These Optical Copier devices do not include an image disk. Overwrite software is not needed.</p> <p><b>NOTE:</b> These copiers may include an optional Touch Screen User Interface module, which includes an embedded proprietary controller and hard drive. However, this hard drive only stores executable software.</p> <p>The Image Path is entirely “analog electronics” and the Image cannot be captured on this hard drive. Overwrite feature is not needed.</p>	Not available	Not available
<p><b>DocuTech 128/155/180 Highlight Color System</b></p> <p><b>DocuTech 6100 Publisher</b></p> <p><b>DocuTech 6115/6135 Printer</b></p> <p><b>DocuTech 6155/6180 Printer</b></p>	<p><b>Print Engine:</b> These devices do not include an image disk.</p> <p><b>Digital Front End:</b> This product includes a DocuSP/FreeFlow Print Server that captures Image data on the hard drive. Data Overwrite and other security features are available. Refer to information provided elsewhere in this document on the DocuSP/FreeFlow Print Server.</p>	Not available	Not available
<p><b>EFI Fiery , and Fiery Controllers and Servers</b></p>	<p><b>Digital Front End:</b> All Fiery controllers and Servers include a hard drive where image data may be captured.</p> <p>Fiery System 6 and above includes an optional “Secure Erase” feature which must be enabled by the System Administrator.</p> <p>Fiery “bustled” DFE software Version 2.0 and above supports an optional Secure Erase kit. Contact your local Xerox representative for information.</p> <p>Depending on the specific product code, the Secure Erase feature might be a chargeable option. Contact your local Xerox representative for information.</p> <p>Encryption of customer data is not available.</p>	<p>Overwrite is not enabled by default.</p> <p>If the Secure Erase feature is not included in the product, contact Xerox Customer Support to obtain the Secure Erase kit and have it installed.</p>	Not available

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
<p><b>Creo Color Servers, Creo Spire</b></p>	<p><b>Digital Front End:</b> These Print Servers include a hard drive where Image data is captured.</p> <p>Creo CX software as indicated in the User Documentation includes the “Disk Wipe” utility.</p> <p>Note: The system administrator must ensure that Symantec Norton Utilities software is not installed on the system; the Disk Wipe utility does not function properly when this software is present.</p>	<p>Overwrite is not enabled by default.</p> <p>If the Disk Wipe feature is not included in the product, contact Xerox Customer Support to obtain the Disk Wipe kit and have it installed.</p>	<p>Not available</p>
<p><b>FreeFlow Application Suite products</b></p>	<p>FreeFlow Application Suite: these software packages are installed on standard-issue Windows PCs, which include hard drives that store Image data. PCs may be provided by the customer or purchased/leased from Xerox.</p> <p>Security of the software and data on these PCs is the responsibility of the customer. The customer is responsible for securely erasing or Overwriting these files when they are no longer needed, and before any leased PCs are returned to Xerox. 3<sup>rd</sup> party software is available to overwrite hard drives on Windows PCs.</p> <p>Numerous removable hard drive solutions are available from electronics retailers. Encrypted Hard Drive solutions are available for a number of Windows PCs.</p>	<p>Not available</p>	<p>Not available</p>
<p><b>Xerox Wide Format Scanners:</b> Wide Format Scan System 6204 Scanner 6604 Scanner 6279 Scanner</p>	<p><b>Wide Format Scanners:</b> These devices do not include a hard drive. Overwrite is not needed.</p>	<p>Not available</p>	<p>Not available</p>
<p><b>Xerox Wide Format Printer and Copier Systems:</b> 510, 721, 6204, 6604, 6605, 6050A, 6030, 6622</p>	<p><b>Wide Format Printers and Copiers:</b> These devices do not include a hard drive. Overwrite is not needed.</p>	<p>Not available</p>	<p>Not available</p>
<p><b>Wide Format “Basic Print Service”</b></p>	<p><b>Digital Front End:</b> This product includes a single hard drive where Image data is captured. Overwrite is not available.</p> <p>Contact Xerox Customer Support to request disk removal if desired.</p>	<p>Not available</p>	<p>Not available</p>

Product Designation	Detailed Security Information	Overwrite Default enablement	Disk Encryption Default Enablement
<p><b>Xerox Accxes Controller</b> <b>FreeFlow Accxes Print Server</b></p>	<p><b>Digital Front End:</b> This product includes a single hard drive where Image data is captured.</p> <p>An optional Image Overwrite feature is available which performs both On Demand and Immediate Image Secure Overwrite.</p> <p>An optional Removable Hard Drive kit is available. Contact your local Xerox representative for information.</p>	<p>Overwrite is not enabled by default.</p> <p>Contact Xerox Customer Support to obtain the Overwrite kit and have it installed.</p>	<p>Not available</p>

## Additional Information

For additional information or clarification on any of the product information given here, contact your local Xerox Customer Support Centre (see table below); or visit the Xerox Website.

<b>United States</b>	800-835-6100	<b>Luxembourg</b>	480123
<b>Austria</b>	+43 1 2079000	<b>Netherlands</b>	+31 020-6563620
<b>Belgium</b>	+32 (2) 713 14 52 (Français), +32 (2) 713 14 53 (Nederlands)	<b>Norway</b>	+47 81 500 308
<b>Canada</b>	1-800-835-6100	<b>Portugal,</b>	707 200 578
<b>Denmark</b>	+45 70107288	<b>Spain</b>	+34 902 160 236
<b>Finland</b>	+358 09 693 79 666	<b>Sweden</b>	+ 46 0771 178 808
<b>France</b>	0825 012 013	<b>Switzerland</b>	French: 043 299 9001 German: 043 299 9000 Italian: 043 299 9002
<b>Germany</b>	+49 180 5004392	<b>UK</b>	+44 0870 9005501
<b>Greece</b>	+30 801 11 93769	<b>Italy</b>	+39 199 11 20 88

Xerox Engineering Services welcomes feedback on all documentation - send feedback via e-mail to: [Product.Security@xerox.com](mailto:Product.Security@xerox.com).