

# Xerox Security Bulletin XR19-010

## Xerox® FreeFlow® Print Server v9

For: Solaris® 10 Operating System

Install Method: DVD/USB Media

Deliverable: April 2019 Security Patch Cluster

Includes: Java 7 Update 221

Bulletin Date: May 13, 2019

## 1.0 Background

Oracle® delivers quarterly Critical Patch Updates (CPU) to address US-CERT Security vulnerabilities and reliability improvements for the Solaris Operating System. Oracle® does provide patches to the public, but authorize vendors like Xerox® to deliver if there is an active FreeFlow® Print Server Support Contracts (FSMA). Customers that have an Oracle® Support Contract for their non-FreeFlow® Print Server Solaris Servers should only install patches prepared/delivered by Xerox®. Installing non-authorized patches for the FreeFlow® Print Server software violates Oracle® agreements, and can render the platform inoperable, and result in downtime and/or a lengthy re-installation service call.

This bulletin announces the availability of the following:

1. **April 2019 Security Patch Cluster**
  - This supersedes the January 2019 Security Patch Cluster
2. **Java 7 Update 221 Software**
  - This supersedes Java 7 Update 211 Software

**Notice:** The April 2019 Security Patch Cluster includes patches to mitigate the Meltdown and Spectre vulnerabilities. These vulnerabilities are not mitigated by the Solaris 10 OS patches alone. It is required to install a BIOS firmware update specific to the Xerox printer product and Digital Front End (DFE) platform (E.g., Dell model). Failure to install the Dell BIOS firmware will leave the FreeFlow® Print Server and Xerox printer product susceptible to breach of sensitive information using Meltdown and Spectre vulnerabilities. Dell does not deliver BIOS firmware to mitigate Meltdown and Spectre for PC platforms considered EOL (End of Life).

See US-CERT Common Vulnerability Exposures (CVE) the April 2019 Security Patch Cluster remediate in table below:

April 2019 Security Patch Cluster Remediated US-CERT CVE's					
CVE-2016-1549	CVE-2018-0734	CVE-2018-0735	CVE-2018-5407	CVE-2018-7170	CVE-2018-20685

See the US-CERT Common Vulnerability Exposures (CVE) the Java 7 Update 221 Software remediate in table below

Java 7 Update 221 Software Remediated US-CERT CVE's			
CVE-2019-2602	CVE-2019-2684	CVE-2019-2697	CVE-2019-2698

**Note:** Xerox® recommends that customers evaluate their security needs periodically and if they need Security patches to address the above CVE issues, schedule an activity with their Xerox Service team to install this announced Security Patch Cluster. Alternatively, the customer can install the Security Patch Cluster using the Update Manager UI from the Xerox® FreeFlow® Print Server Platform.

## 2.0 Applicability

The customer can schedule a Xerox Service or Analyst representative to deliver and install the Security Patch Cluster using media (DVD/USB). A customer can only perform the install procedures with approval of the Xerox CSE/Analyst. Xerox® offers an electronic delivery for “easy to use” install of a Security Patch Cluster, which is more suited for a customer to manage the quarterly patches on their own.

This Security patch deliverable has been tested on the FreeFlow® Print Server 93.10.04A software release. We have not tested the April 2019 Security Patch Cluster on all earlier FreeFlow® Print Server 9.3 releases, but there should not be any problems on these releases. It is always good practice to create a System Backup before installing the Security patches.

The Xerox Customer Service Engineer (CSE)/Analyst uses a tool (accessible from a secure FTP site) that enables identification of the currently installed FreeFlow® Print Server software release, Security Patch Cluster, and Java Software version. Run this tool after the Security Patch Cluster install to validate a successful install. Example output from this script for the FreeFlow® Print Server v9 software release is as following:

Solaris OS Version	10 Update 11
FFPS Release Version	9.0_SP-3_(93.10.04A.86)
FFPS Patch Cluster	April 2019
Java Version	Java 7 Update 221
Spectre Variant #1	Installed
Meltdown Variant #3	Installed
Spectre Variant #2	Not Installed

The April 2019 Security Patch Cluster is available for the FreeFlow® Print Server v9 release running on the Xerox® printer products below:

1. Xerox® iGen®4
2. Xerox® iGen®4 Diamond Edition®
3. Xerox® iGen®150 Press
4. Xerox® Versant® 80/180/2100 Presses
5. Xerox® Color 800/100 Press
6. Xerox® Color 800i/1000i Press
7. Xerox® Color Press J75/C75 Press
8. Xerox® Color Press 560/570 Production Printer
9. Xerox® Brenva® HD Production Inkjet Press
10. Xerox® Impika® Compact Inkjet Press
11. Xerox® CiPress® 325/500 Production Inkjet System
12. Xerox® D95/110/125/136 Copier/Printer
13. Xerox® Color 8250 Production Press

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**CAVEAT:** We have a caveat with the April 2019 Security Patch Cluster for the FreeFlow® Print Server 9.3 software release. The FreeFlow® Print Server application is not able to access remote SMB shares after installing the April 2019 Security Patch Cluster. This does not affect the SMB shares used for Hot Folder workflow. The affected capabilities are SMB access of remote job files by the ‘Print from File’ client and storing PDF/TIFF files to a remote location over SMB from a hardcopy scan (E.g., commonly done on a Nuvera printer). It is not common for a Security conscience customer to use SMB workflows, so this should not affect many customers.

## 3.0 Patch Install

Xerox® strives to deliver these critical Security patch updates in a timely manner. The customer process to obtain Security Patch Cluster updates (delivered on a quarterly basis) is to contact the Xerox hotline support number. Xerox Service or an analyst can install the Patch Cluster using a script utility that will support installing the patch cluster from the FreeFlow® Print Server hard disk, DVD, or USB media.

The Security Patch Cluster deliverables are available on a secure FTP site once they are ready for customer delivery. The Xerox CSE/Analyst can download and prepare for the install by writing the Security patch update into a known directory on the FreeFlow® Print Server platform, or on DVD/USB media. Delivery of the Security Patch Cluster includes an ISO and ZIP archive file for convenience. Once the patch cluster has been prepared on media, run the provided install script to perform the install. The install script accepts an argument that identifies the media that contains a copy of the FreeFlow® Print Server Security Patch Cluster. (e.g., # installSecPatches.sh [diskl dvdli usb]).

**Important:** The install of this Security patch update can fail if the archive file containing the patches is corrupted from file transfer or writing to DVD media. There have been reported install failures when the archive file written on DVD media was corrupt. Writing to media using some DVD write applications and media types could result in a corrupted Security Patch Cluster. The tables below illustrate Solaris checksums and file size on Windows for the Security Patch Cluster ZIP and ISO files. We provide these numbers in this bulletin as a reference to check against the actual checksum. The file size and check sum of these files on Windows and Solaris are as follows:

Security Patch File	Windows Size (Kb)	Solaris Size (bytes)	Solaris Checksum
Apr2019AndJava7U221Patches_v9.zip	2,273,216	2,327,773,079	40903 4546432
Apr2019AndJava7U221Patches_v9.iso	2,273,566	2,328,131,584	1499 4547132

Verify the **Apr2019AndJava7U221Patches\_v9.zip** file by comparing it to the original archive file size and checksum in the above table. Change directory to the file location (DVD media, USB, or hard disk) and type “**sum Apr2019AndJava7U221Patches\_v9.zip**” from a terminal window. The checksum value should be “**40903 4546432**”, and can be used to validate the correct April 2019 Security Patch Cluster on the DVD/USB.

## 4.0 Disclaimer

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