

Xerox Security Bulletin XRX14-008

Bash Shellshock Command Line Interpreter Vulnerability

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Background

A vulnerability has been discovered in the Bash command shell that can allow attackers to remotely execute commands on a target system. Even systems that don't allow remote command shell connections may still use Bash to execute commands in the Apache web server and other network-facing applications. Unix and Unix-derived systems like Linux and Mac OS X are vulnerable to these attacks since they use Bash as the default command shell.

A software solution consisting of zip files, each one containing a patch, is provided for the products listed below. This solution will replace the affected version of Bash with an unaffected version of Bash in the Linux Operating System for the affected products.

This solution is designed to be installed by the customer. Each software patch is compressed into a zip file and can be accessed via the links below or via the links following this bulletin announcement on www.xerox.com/security.

Patch for the Phaser 6700 (system software releases 081.140.101.24700 & higher): SSPhaser6700DSv1.zip --
<http://www.xerox.com/downloads/usa/en/s/SSPhaser6700DSv1.zip>

Patch for the Phaser 6700 (system software releases 081.140.101.13501 - 081.140.104.17402): SSPhaser6700Sv1.zip --
<http://www.xerox.com/downloads/usa/en/s/SSPhaser6700Sv1.zip>

Patch for the Phaser 7800 (system software releases 081.150.104.16300 - 081.150.104.23700): SSPhaser7800DSv1.zip --
<http://www.xerox.com/downloads/usa/en/s/SSPhaser7800DSv1.zip>

Patch for the Phaser 6700 (system software releases 081.150.101.26603 - 081.150.104.16000): SSPhaser67800Sv1.zip --
<http://www.xerox.com/downloads/usa/en/s/SSPhaser7800Sv1.zip>

Patch for the WorkCentre/WorkCentre Pro 232/238/245/255/265/275 (system software releases xx.60.22.xxx): SSWC-WCP2xx60.22v1.zip --
<http://www.xerox.com/downloads/usa/en/s/SSWC-WCP2xx60.22v1.zip>

Patch for the WorkCentre 5030/5050 (system software releases 5.004.xx.yyy): SSWC50xx05.04v1.zip --
<http://www.xerox.com/downloads/usa/en/s/SSWC50xx05.04v1.zip>

Patch for the WorkCentre 6400 (all releases): SSWC6400v1.zip --
<http://www.xerox.com/downloads/usa/en/s/SSWC6400v1.zip>

Patch for the WorkCentre 7655/7665 (system software releases 040.032.xxxxx): WC76xx.040.032.v1.zip --
<http://www.xerox.com/downloads/usa/en/s/WC76xx.040.032.v1.zip>

Patch for the WorkCentre 7655/7665 (system software releases 040.033.xxxxx): WC76xx.040.033.v1.zip --
<http://www.xerox.com/downloads/usa/en/s/WC76xx.040.033.v1.zip>

Patch for the WorkCentre Bookmark 40/55 (all releases): SSBookMarkv1.zip --
<http://www.xerox.com/downloads/usa/en/s/SSBookMarkv1.zip>

This solution is classified as an **Critical** patch.

Please follow the instructions starting on page 3 for each affected product to install the relevant security patch.

IMPORTANT NOTE: If you upgrade software on the device after installing the relevant security patch, you will have to reinstall the security patch after the upgrade has been completed.

Applicability

This patch applies to network-connected versions¹ only of the following products:

Phaser®	WorkCentre®	WorkCentre Pro®
6700	232	232
7800	238	238
	245	245
	255	255
	265	265
	275	275
	5030	
	5050	
	6400	
	7655	
	7665	
	7675	
	BookMark 40/55	

¹If the product is not connected to the network, it is not vulnerable and therefore no action is required.

Instructions (What must to be done If I have one of the affected products?)

Determine what actions, if any, need to be performed to prep the device for patch installation and then install the patch:

1. Determine the current System Software version or the Controller/ ESS Version on your device by printing a Configuration Report. To print a Configuration Report follow the instructions for how to print a Configuration Report in the System Administrator Guide for each product in question.
2. Determine if any action needs to be taken based on the System Software version, or the Controller/ ESS Version listed on the Configuration Report for each device. This is done by following steps 3 through 6.
3. Determine the appropriate Patch Installation Action Table to follow starting on page 4 by looking for your product number at the top of each chart, and matching it to your specific product.
4. Locate either the System Software version or the Controller/ ESS Version in the chart that matches or falls within the listed Software versions.
5. From the directions in the Patch Installation Action Table for the affected product and System Software version or the Controller/ESS Version determine what action(s) , if any, have to be taken before the applicable patch can be installed.
6. Perform the indicated action(s) to get your device ready to install the applicable patch.
7. Make sure that Software Upgrade enabled on the device (i.e., turned on) if it is disabled.
8. Once your device is ready to install the applicable patch, follow the instructions below under Install the Patch on page 6 to install the patch on the device.

Patch Installation Action Tables

The following tables indicate what actions, if necessary, are needed before the patch can be installed on an affected device:

For Phaser 6700

	If Your Software Version Is System SW or Controller	Ready for Patch?	Next step:	Controller/ESS Will Now Show:	
1	081.140.101.13501 to 081.140.104.17402	Not Available	Yes	Install the SSPhaser6700Sv1.dlm patch	Not Available
2	081.140.101.24700 or greater	Not Available	Yes	Install the SSPhaser6700DSv1.dlm patch	Not Available

For Phaser 7800

	If Your Software Version Is System SW or Controller	Ready for Patch?	Next step:	Controller/ESS Will Now Show:	
1	081.150.101.26603 to 081.150.104.16000	Not Available	Yes	Install the SSPhaser7800Sv1.dlm patch	Not Available
2	081.150.104.16300 to 081.150.104.23700	Not Available	Yes	Install the SSPhaser7800DSv1.dlm patch	Not Available

For WC/WCP 232/238/245/255/265/275

	If Your Software Version Is System SW or Controller	Ready for Patch?	Next step:	Controller/ESS Will Now Show:	
1	1x.027.024.000 to 1x.027.024.020	040.010.x0930 to 040.010.x1160	No	No patch planned. If patch desired, upgrade to 1x.60.022.000 or greater.	040.010.x0930 to 040.010.x1160
2	1x.050.003.000 to 1x.050.003.011	040.010.x1172 to 040.010.x2280	No	No patch planned. If patch desired, upgrade to 1x.60.022.000 or greater.	040.010.x1172 to 040.010.x2280
	1x.060.017.000 to 1x.60.018.000	040.022.x0115 to 040.022.x1031	No	No patch planned. If patch desired, upgrade to 1x.60.022.000 or greater.	040.022.x0115 to 040.022.x1031
3	1x.60.022.000 or greater	040.022.x1031 or greater	Yes	Install the SSWC-WCP2xx60.22v1.dlm patch	040.022.x1031.SSv1 or greater

For WC 5035/5050

	If Your Software Version Is System SW or Controller	Ready for Patch?	Next step:	Controller/ESS Will Now Show:	
1	5.003.07.000 to 5.003.07.013	1.08.535.01 to 1.08.554.01	No	No patch planned. If patch desired, upgrade to 5.004.44.000 or greater.	1.08.535.01 to 1.08.554.01
2	5.004.44.000 or greater	001.035.547.01 or greater	Yes	Install the SSWC50xx05.04v1.dlm patch	001.035.547.01.SSv1 or greater

For WC 6400

	If Your Software Version Is System SW or Controller	Ready for Patch?	Next step:	Controller/ESS Will Now Show:	
1	060.070.109.11407 to 060.070.109.34400	Not Available	Yes	Install the SSWC6400v1.dlm patch	Not Available
2	061.070.100.00610 to 061.070.100.35600	Not Available	Yes	Install the SSWC6400v1.dlm patch	Not Available
3	061.070.101.09700 or greater	Not Available	Yes	Install the SSWC6400v1.dlm patch	Not Available

For WC 7655/7665/7675

	If Your Software Version Is System SW or Controller	Ready for Patch?	Next step:	Controller/ESS Will Now Show:	
1	040.032.50855 ² to 040.032.55100 ²	040.032.50855 ² to 040.032.55100 ²	Yes	Install the WC76xx.040.032.v1.dlm patch	040.032.50855.SSv1 ² to 040.032.55100.SSv1 ²
2	040.033.50500 to 040.033.52800	040.033.50500 to 040.033.52800	Yes	Install the WC76xx.040.033.v1.dlm patch	040.033.50500.SSv1 to 040.033.52800.SSv1
3	040.033.53002 or greater	040.033.53002 or greater	Yes	Install the WC76xx.040.033.v1.dlm patch	040.033.53002.SSv1 or greater

For WC Bookmark 40/55

	If Your Software Version Is System SW or Controller	Ready for Patch?	Next step:	Controller/ESS Will Now Show:	
1	1x.070.09.000 or greater	040.022.x1031 or greater	Yes	Install the SSBookMarkv1.dlm patch	040.022.x1031.SSv1 or greater

² WorkCentre 7655/7665 Only

Install the Patch

You must download these two patches. Each patch is packaged in a ZIP format. Download the applicable zip file from the URL provided and extract the contents to a convenient location on your desktop. Do not try to open the DLM files; the DLM files must be loaded on the MFD as is. Make sure that software upgrade is set to 'Enabled' on the device before attempting to install the applicable patch.

Patch Installation Methods

These two patches can and should be installed by the customer. There are a variety of methods available for this.

- Send an Upgrade / Patch file to the device using the device web page for Machine Software Upgrade method.
- Upgrade / Patch a single device using an LPR command.
- Upgrade / Patch several devices using a batch of LPR commands.
- Using XDM and CentreWare Web to send Upgrade / Patch files to several devices.
- Use a USB drive to send an Upgrade / Patch file to the device.

For these patches it is recommended that the patch be installed using the Machine Software Upgrade Method.

Important Notes

For the Phaser 6700 and Phase 7800:

1. First there are two versions of the patch for each product, one for signed firmware and one for unsigned firmware.
2. Neither product shows the patch on the printed configuration page. They only show the patch in CWIS. So when the patch installation is complete, the printer will reboot. To show that the patch has been installed:
 - Access the CentreWare Internet Services (CWIS) web interface.
 - Go To **Properties> General Setup> Configuration Page**.
 - Note the patch name is appended to the Network Controller version.The patch name will not be printed on the Configuration Report or accessible from the Local User Interface. It is only visible on the CWIS webpage.
3. Neither product supports patch installation using the USB drive method.

For the WorkCentre 6400:

1. If a firmware upgrade fails when using CWIS manual upgrade, please uninstall the patch and retry the upgrade or use a USB drive to upgrade the device.

Machine Software (Upgrade) Method

- 1) Open a web browser and connect to the multifunction device by entering the device's IP address.
- 2) Login with Admin credentials
- 3) Select the "Index" icon in the upper right corner.
- 4) Select "Manual Upgrade".
- 5) At the Upgrade screen, select Browse button to find and select the file (see page 1).
- 6) Press the "Install Software" button.
- 7) The patch will install automatically and the machine will reboot.
- 8) When the patch install is complete, a Configuration Report will be printed and the Network Controller version listed on the configuration report will have the patch name ('SSv1') appended to it. The Network Controller version listed on the Configuration Report obtained from the CentreWare Internet Services (CWIS) web interface will also will have the patch name ('SSv1') appended to it.

Note: If the incorrect patch is sent to a device the device will reject the submitted patch.

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