Xerox Security Bulletin XRX16-016
FIPS 140-2 Compliant SNMPv3 Implementation
v1.0
08/29/16

Background

ConnectKey products current encryption of SNMPv3 use DES encryption and MD5 authentication (hashing). These are not FIPS 140-2 compliant. Software patch 837644V1 replaces these with FIPS 140-2 certified AES128 CFB encryption and SHA-1 authentication (hashing). If a need arises to return to non-FIPS approved ciphers, this patch must be removed.

Important Note: This solution is *only* for System Software version 073.xxx.035.28000 (ConnectKey Technology with SIPRNet support) for the affected products.

This software patch is designed to be installed by the customer. The software patch is compressed into a zip file and can be accessed via the link below:

Software Patch: ConnectKey_FIPS_over_SNMPv3_Patch.zip –
- WC 3655: http://www.support.xerox.com/support/workcentre-3655/file-download/enus.html?contentId=134226
- WC 5845/5855: http://www.support.xerox.com/support/workcentre-5845-5855/file-download/enus.html?contentId=134226
- WC 5865/5875/5890: http://www.support.xerox.com/support/workcentre-5865-5875-5890/file-download/enus.html?contentId=134226
- WC 5945/5955: http://www.support.xerox.com/support/workcentre-5945-5955/file-download/enus.html?contentId=134226
- WC 6655: http://www.support.xerox.com/support/workcentre-6655/file-download/enus.html?contentId=134226
- WC 7220/7225: http://www.support.xerox.com/support/workcentre-7220-7225/file-download/enus.html?contentId=134226
- WC 7830/7835/7845/7855: http://www.support.xerox.com/support/workcentre-7800-series/file-download/enus.html?contentId=134226
- WC 7970: http://www.support.xerox.com/support/workcentre-7970/file-download/enus.html?contentId=134226

Since software patch 837644V1 can only be applied to System Software version 073.xxx.035.28000, below are links to where System Software version 073.xxx.035.28000 can be obtained for the affected products:
- WC 3655: http://download.support.xerox.com/pub/docs/WC3655/userdocs/any-os/en_GB/WC3655_R15-09_LandingPage.pdf
- WC 5845/5855/5865/5875/5890: http://download.support.xerox.com/pub/docs/WC58XA/userdocs/any-os/en_GB/WC5845-90_LandingPage.pdf
- WC 5945/5955: http://download.support.xerox.com/pub/docs/WC5945_WC5955/userdocs/any-os/en_GB/WC5945-55_Landing_Page.pdf
- WC 6655: http://download.support.xerox.com/pub/docs/WC6655/userdocs/any-os/en_GB/WC6655_R15-09_LandingPage.pdf
- WC 7220/7225: http://download.support.xerox.com/pub/docs/WC7220_WC7225/userdocs/any-os/en_GB/WC7220-25_LandingPage.pdf
- WC 7830/7835: http://download.support.xerox.com/pub/docs/WC780X/userdocs/any-os/en_GB/WC7830-35_LandingPage.pdf
- WC 7845/7855: http://download.support.xerox.com/pub/docs/WC780X/userdocs/any-os/en_GB/WC7845-55_LandingPage.pdf
- WC 7970: http://download.support.xerox.com/pub/docs/WC7970/userdocs/any-os/en_GB/WC7970_LandingPage.pdf

The installation instructions for installing System Software version 073.xxx.035.28000 can be found at http://www.xerox.com/SIPRNetSW.

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

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

Applicability

This patch applies to network-connected versions only of the following products with System Software version 073.xxx.035.28000:

WorkCentre®

3655
5845
5855
5865
5875
5890
5945
5955
6655
7220
7225
7830
7835
7845
7855
7970

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 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 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 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, 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 WorkCentre 3655

	If Your Software Version Is		Ready for Patch?	Next step:	Network Controller Will Now Show:
	System SW or	Network Controller			
1	Less than 073.060.035.28000	Less than 073.065.28000	No	Upgrade to 073.060.035.28000 (See Note); then install the 837644V1.dlm patch	073.065.28000.837644V1
2	073.060.035.28000	073.065.28000	Yes	Install the 837644V1.dlm patch	073.065.28000.837644V1
3	Greater than 073.060.035.28000	Greater than 073.065.28000	No	Contact Xerox Support to downgrade to 073.060.035.28000; then install the 837644V1.dlm patch	073.065.28000.837644V1

Note:
For upgrade from 071.xxx.xxx.xxxxx release, use the pre-upgrade patch 729999v3.dlm before upgrading to 073.060.035.28000.
For upgrade from 072.xxx.xxx.xxxxx release, use the pre-upgrade patch 788101v2.dlm before upgrading to 073.060.035.28000.

For WorkCentre 5845/5855/5865/5875/5890

	If Your Software Version Is		Ready for Patch?	Next step:	Network Controller Will Now Show:
	System SW or	Network Controller			
1	Less than 073.190.035.28000	Less than 073.195.28000	No	Upgrade to 073.190.035.28000 (See Note); then install the 837644V1.dlm patch	073.195.28000.837644V1
2	073.190.035.28000	073.195.28000	Yes	Install the 837644V1.dlm patch	073.195.28000.837644V1
3	Greater than 073.190.035.28000	Greater than 073.195.28000	No	Contact Xerox Support to downgrade to 073.190.035.28000; then install the 837644V1.dlm patch	073.195.28000.837644V1

Note:
For upgrade from 071.xxx.xxx.xxxxx release, use the pre-upgrade patch 729999v3.dlm before upgrading to 073.060.035.28000.
For upgrade from 072.xxx.xxx.xxxxx release, use the pre-upgrade patch 788101v2.dlm before upgrading to 073.060.035.28000.

For WorkCentre 5945/5955

	If Your Software Version Is		Ready for Patch?	Next step:	Network Controller Will Now Show:
	System SW	**or Network Controller**			
1	Less than 073.091.035.28000	Less than 073.095.28000	No	Upgrade to 073.091.035.28000 (See Note); then install the 837644V1.dlm patch	073.095.28000.837644V1
2	073.091.035.28000	073.095.28000	Yes	Install the 837644V1.dlm patch	073.095.28000.837644V1
3	Greater than 073.091.035.28000	Greater than 073.095.28000	No	Contact Xerox Support to downgrade to 073.091.035.28000; then install the 837644V1.dlm patch	073.095.28000.837644V1

Note:
For upgrade from 071.xxx.xxx.xxxxx release, use the pre-upgrade patch 729999v3.dlm before upgrading to 073.060.035.28000.
For upgrade from 072.xxx.xxx.xxxxx release, use the pre-upgrade patch 788101v2.dlm before upgrading to 073.060.035.28000.

For WorkCentre 6655

	If Your Software Version Is		Ready for Patch?	Next step:	Network Controller Will Now Show:
	System SW	**or Network Controller**			
1	Less than 073.110.035.28000	Less than 073.115.28000	No	Upgrade to 073.110.035.28000 (See Note); then install the 837644V1.dlm patch	073.115.28000.837644V1
2	073.110.035.28000	073.115.28000	Yes	Install the 837644V1.dlm patch	073.115.28000.837644V1.
3	Greater than 073.110.035.28000	Greater than 073.115.28000	No	Contact Xerox Support to downgrade to 073.110.035.28000; then install the 837644V1.dlm patch	073.115.28000.837644V1

Note:
For upgrade from 071.xxx.xxx.xxxxx release, use the pre-upgrade patch 729999v3.dlm before upgrading to 073.060.035.28000.
For upgrade from 072.xxx.xxx.xxxxx release, use the pre-upgrade patch 788101v2.dlm before upgrading to 073.060.035.28000.

For WorkCentre 7220/7225
    WorkCentre 7220i/7225i

	If Your Software Version Is		Ready for Patch?	Next step:	Network Controller Will Now Show:
	System SW	**or Network Controller**			
1	Less than 073.030.035.28000	Less than 073.035.28000	No	Upgrade to 073.030.035.28000 (See Note); then install the 837644V1.dlm patch	073.035.28000.837644V1
2	073.030.035.28000	073.035.28000	Yes	Install the 837644V1.dlm patch	073.035.28000.837644V1
3	Greater than 073.030.035.28000	Greater than 073.035.28000	No	Contact Xerox Support to downgrade to 073.030.035.28000; then install the 837644V1.dlm patch	073.035.28000.837644V1

For WorkCentre 7830/7835
    WorkCentre 7830i/7835i

	If Your Software Version Is		Ready for Patch?	Next step:	Network Controller Will Now Show:
	System SW	**or Network Controller**			
1	Less than 073.010.035.28000	Less than 073.015.28000	No	Upgrade to 073.010.035.28000 (See Note); then install the 837644V1.dlm patch	073.015.28000.837644V1
2	073.010.035.28000	073.015.28000	Yes	Install the 837644V1.dlm patch	073.015.28000.837644V1
3	Greater than 073.010.035.28000	Greater than 073.015.28000	No	Contact Xerox Support to downgrade to 073.010.035.28000; then install the 837644V1.dlm patch	073.015.28000.837644V1

Note:
For upgrade from 071.xxx.xxx.xxxxx release, use the pre-upgrade patch 729999v3.dlm before upgrading to 073.060.035.28000.
For upgrade from 072.xxx.xxx.xxxxx release, use the pre-upgrade patch 788101v2.dlm before upgrading to 073.060.035.28000.

For WorkCentre 7845/7855
**   WorkCentre 7845i/7855i**

	If Your Software Version Is		Ready for Patch?	Next step:	Network Controller Will Now Show:
	System SW	or Network Controller			
1	Less than 073.040.035.28000	Less than 073.045.28000	No	Upgrade to 073.040.035.28000 (See Note); then install the 837644V1.dlm patch	073.045.28000.837644V1
2	073.040.035.28000	073.045.28000	Yes	Install the 837644V1.dlm patch	073.045.28000.837644V1
3	Greater than 073.040.035.28000	Greater than 073.045.28000	No	Contact Xerox Support to downgrade to 073.040.035.28000; then install the 837644V1.dlm patch	073.045.28000.837644V1

Note
For upgrade from 071.xxx.xxx.xxxxx release, use the pre-upgrade patch 780808v2.dlm before upgrading to 073.040.035.28000.
For upgrade from 072.xxx.xxx.xxxxx release, use the pre-upgrade patch 788101v2.dlm before upgrading to 073.040.035.28000.

For WorkCentre 7970/7970i

	If Your Software Version Is		Ready for Patch?	Next step:	Network Controller Will Now Show:
	System SW	or Network Controller			
1	Less than 073.200.035.28000	Less than 073.205.28000	No	Upgrade to 073.200.035.28000 (See Note); then install the 837644V1.dlm patch	073.205.28000.837644V1
2	073.200.035.28000	073.205.28000	Yes	Install the 837644V1.dlm patch	073.205.28000.837644V1
3	Greater than 073.200.035.28000	Greater than 073.205.28000	No	Contact Xerox Support to downgrade to 073.200.035.28000; then install the 837644V1.dlm patch	073.205.28000.837644V1

Install the Patch

You must download this patch. The 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 file; the DLM file must be loaded on the MFD as is. Make sure that software upgrade is set to 'Enabled' on the device and that system software version 073.xxx.035.28000 is installed on the device before attempting to install the patch.

Patch Installation Methods

This patch can and should be installed by the customer. There is 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.

Machine Software (Upgrade) Method

1) Open an Internet browser window, connect to the multifunction device by entering the device's IP address in the Address field in the format http://xx.xxx.xxx.xx and then press the **Enter** key on the keyboard.
2) Select the **Properties** tab. A Login screen may be displayed. Enter the System Administrator's User ID and Password and select Login, The default User ID is *admin* and the default password is *1111*.
3) Select **General Setup** and then select **Software Upgrade**.
   - If **Security Installation Policy: Not Allowed (Device and Remote methods)** is shown, the Software Upgrade option is disabled. Select the **Allow Upgrade** button. The pop-up message *Properties have been successfully modified* is displayed; select **OK**.
   - Set the **Security Installation Policy:** link and enable all options. This ensures that all the software upgrade functions are accessible. Select **Apply**. The pop-up message *Properties have been successfully modified* is displayed; select **OK.**
4) Select **Manual Upgrade**.
5) Select **Browse** button to locate and select the 837644V1.dlm file and select **Open**.
6) Select the **Install Software** button. The pop-up message *File has been submitted* is displayed. Select **OK**.
If you get a printed sheet with the message *This patch is not intended for this software version and was not installed*, ensure the device has software version 073.xxx.035.28000 installed.

When the software upgrade is complete, the device automatically reboots and prints a Software Upgrade Report and a new Configuration Report.

The patch is successfully installed when the Network Controller version shows 837644V1 appended to it.

Disclaimer

The information provided in this Xerox Product Response is provided "as is" without warranty of any kind. Xerox Corporation disclaims all warranties, either express or implied, including the warranties of merchantability and fitness for a particular purpose. In no event shall Xerox Corporation be liable for any damages whatsoever resulting from user's use or disregard of the information provided in this Xerox Product Response including direct, indirect, incidental, consequential, loss of business profits or special damages, even if Xerox Corporation has been advised of the possibility of such damages. Some states do not allow the exclusion or limitation of liability for consequential damages so the foregoing limitation may not apply.

©2016 Xerox Corporation. All rights reserved. Contents of this publication may not be reproduced in any form without permission of Xerox Corporation. XEROX®, XEROX and Design®, DocuShare®, CentreWare®, Phaser®, ColorQube®, Document Centre®, WorkCentre®, and WorkCentre Pro® are trademarks of Xerox Corporation in the United States and/or other countries. Adobe® and PostScript® are registered trademarks or trademarks of Adobe Systems, Incorporated. All other trademarks are the property of their respective manufacturers.

The information in this bulletin is subject to change without notice.