Instrument Software Update Instructions

X-Series Multi-touch instruments

Purpose

The purpose of this document is to outline the instrument software update procedure for the touch-screen or "B" model instrument from the revision that is currently installed, to the latest revision available. The advantages of updating the instrument software with the current revision include:

1. Keeps the analyzer current and up to date.
2. Updates the advanced measurement applications where appropriate.
3. Updates the PC board software where appropriate.

An update to the instrument software version **does not** require a new license key for the measurement application(s), so long as the application(s) were licensed prior to the update.
For example, this procedure will not update the 89601B VSA measurement software.

Note: Connecting a mouse and keyboard is recommended.

To determine what revision of instrument software is currently installed, press the [**System**] hardkey, then tap Show System. Look for the "Instrument S/W Revision" number as shown below. If the installed revision is the same as the latest revision on the web, there is no need to update the software.

System Settings	System	System Information	
System	Keysight Technologies		
	Keysight UXA	Keysight UXA Signal Analyzer	
I/O Config	Product Number	N9040B	
	Serial Number	US00092113	
User Interface	Instrument S/W Revision	A.15.05	
	Revision Date	1/13/2015 10:34:06 AM	
Power On	Computer System	Windows 7 , Service Pack 1	
	Computer Name	A-N9040B-92113	
Restore Defaults	IP Address	127.0.0.1	
	IPv6 Address	::1	
Alignments	Link-Local IPv6 Address		
	Host ID	N9040B,US00092113	
Licensing ...	mDNS Enabled	Yes	
	mDNS Host Name	A-N9040B-92113	
Security	mDNS Service Name	Keysight N9040B Signal Analyzer - US00092113	
Diagnostics	Option	Name / Description	Option Version
Service	N9040B-PC6	Intel(R) Core(TM) i7-3615QE CPU @ 2.30GHz, 16 GB	

Instrument Software Installation

Note: This will only update the instrument software that currently resides on the C: drive. It will not update the version that exists on the recovery partition. Because of this, if the recovery process is performed, the instrument will revert back to the instrument software revision that was originally shipped from the factory.

Requirements

To use this update procedure, the following requirements must be met:

- Instrument must be functioning properly before the update is attempted
- Must have the ability to login to the instrument as the **administrator**
- Must have the ability to transfer a large file (~2.5 GByte) to the instrument being updated

File Download

1. Go to http://www.keysight.com/find/Xseries_software
2. Select the appropriate link in the Software Update section of the table.
3. Download the executable file by clicking on the Download button. Save the file to a location of your choice.

If you do not have the ability to download files directly to the C: drive of the instrument being updated, store the file on a large capacity USB storage device for transfer to the instrument. (The file size is ~2.5 GByte.)

Update Procedure

The default user account is *instrument*, which does not have the required permissions to install the instrument software updates. For the process outlined below, the user must be logged in as the *administrator*.

The instrument software upgrade process has an install wizard which removes the old software version and installs new software version without manual steps. The removal of the old software version and the installation of the new software version completes in approximately 30 minutes. The instrument software update time will depend on how large the gap is between the currently installed instrument software version and the version being updated which may require that a number of FPGA updates are needed for the measurement boards. The FPGA updates are handled automatically during the instrument software update process.

1. If the analyzer is not already running, turn the analyzer on and allow it to completely boot up.
2. Close the analyzer application by pressing the [**System**] hardkey.
3. In the Application Controls area on the analyzer display tap **Exit Program.**

4. Log out of the default user (*instrument*). If the Windows task bar is not present at the bottom of the screen, tap the lower section of the display until the Windows task bar appears.**.**

5. For **Windows 10:**

   Tap the **Windows Start icon**, select the **Change Account settings** icon , and **Sign out.**

   For **Windows 7**: Tap the **Windows Start icon➜Shutdown arrow➜Log Off**.

6. At the login prompt enter:
   - User name: **administrator**
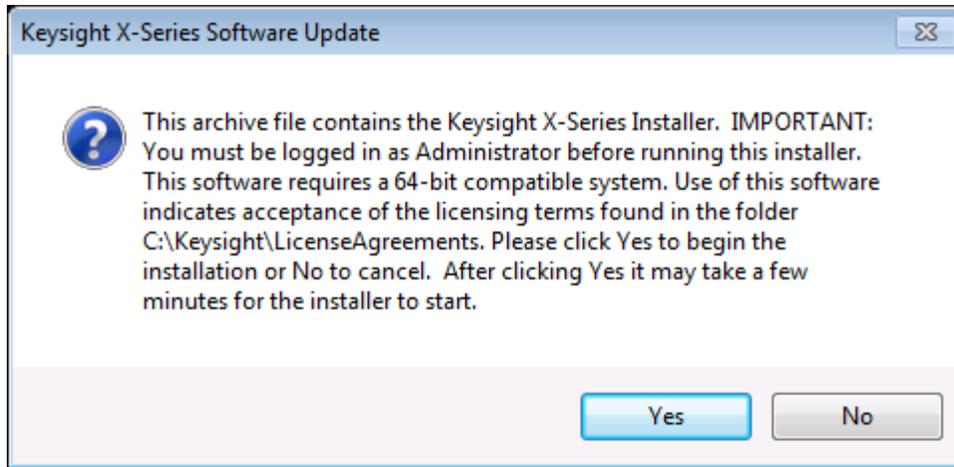   - Password: **Keysight4u!**

7. Press the Next arrow to log in.

Note: If a "Found New Hardware" wizard window pops up, select "No Not at this Time" to bypass the activity.
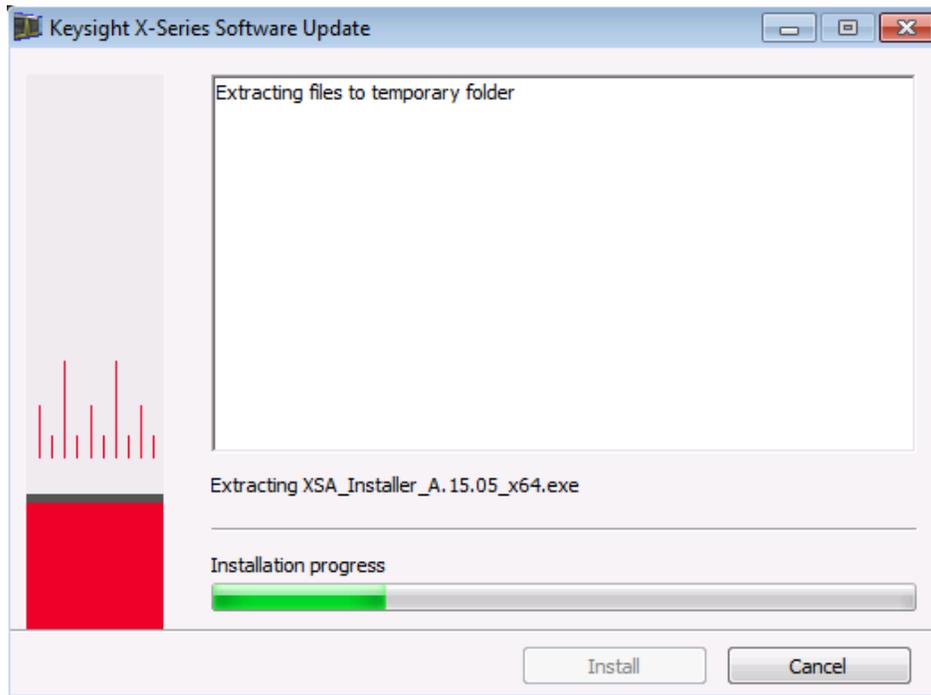
Instrument Software Install

If you downloaded the instrument software update file to the instrument via LAN, access that file from the location that it was stored and proceed to step 1.

If you downloaded the instrument software update file to a USB storage device, plug that into one of the USB ports on the front of the instrument. Access the file for the removable drive, then proceed to step 1.

1. For **Windows 10**, right click the **Windows Start** icon, select **File Explorer** and select the appropriate file location.
   For **Windows 7**, tap the **Windows Start icon➜Computer➜**and select the appropriate file location.

2. Double tap the filename "**XSA_Installer_A.XX.XX_Self-Extractor_x64**"

3. A message will appear reminding you that you must be logged in as **administrator;** select **Yes**.

Keysight X-Series Software Update

This archive file contains the Keysight X-Series Installer. IMPORTANT: You must be logged in as Administrator before running this installer. This software requires a 64-bit compatible system. Use of this software indicates acceptance of the licensing terms found in the folder C:\Keysight\LicenseAgreements. Please click Yes to begin the installation or No to cancel. After clicking Yes it may take a few minutes for the installer to start.

[Yes]   [No]

4. A window appears showing the extraction of the software installer as illustrated below. There is no interaction required from this point forward.

Keysight X-Series Software Update

Extracting files to temporary folder

Extracting XSA_Installer_A.15.05_x64.exe

Installation progress

[Install]   [Cancel]

When the extraction process is complete, the Software Updater window will appear and show the uninstall and install progress as illustrated below. No interaction with the instrument is required. There will be several windows appearing and disappearing during this process, which can take ~30 minutes.

DO NOT cycle the instrument power for any reason at this time. If this process is interrupted, the instrument may end up in an unusable state, and will likely need to be returned to Keysight Technologies for repair before it will be usable again.

4

Welcome to Keysight XSA Software Updater

Uninstall XSA Version A.15.05: ll In Progress ... ... Uninsta

Install XSA Version A.15.05:

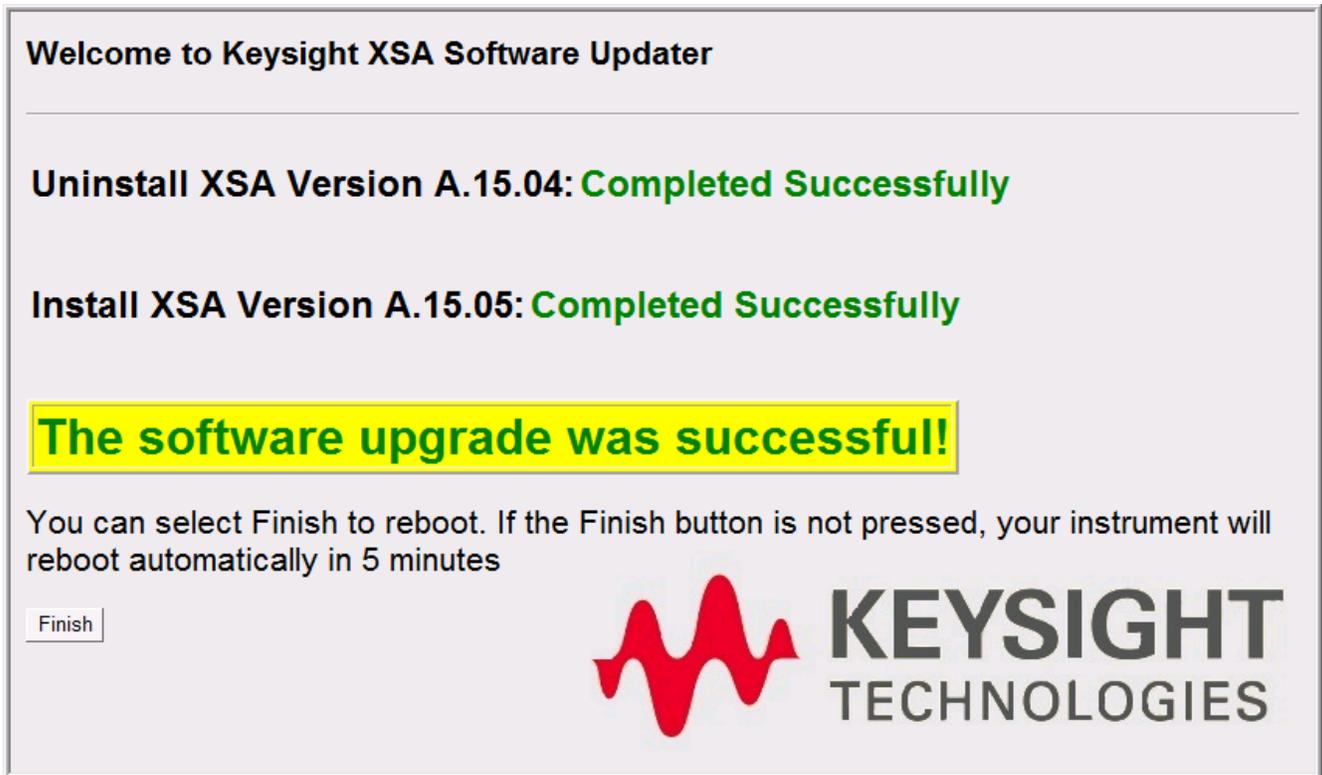**Welcome to Keysight XSA Software Updater**

Uninstall XSA Version A.15.04: Completed Successfully

Install XSA Version A.15.05: nstallation In Progress I

Welcome to Keysight XSA Software Updater

Uninstall XSA Version A.15.04: Completed Successfully

Install XSA Version A.15.05: Completed Successfully

The software upgrade was successful!

You can select Finish to reboot. If the Finish button is not pressed, your instrument will reboot automatically in 5 minutes

Finish

KEYSIGHT
TECHNOLOGIES

5. When the software installation is complete. You will be asked to reboot the instrument.   If no action is taken the instrument will automatically reboot in 5 minutes.

6. After the instrument restarts it will boot up in the default "Instrument " account, perform the alignments, and display the measurement screen.

7. Check for any errors and verify that the new software version is installed by pressing [**System**], tap **Show System** and look for the "Instrument S/W Revision" as shown below.

System Settings	‹ System	System Information	
System	Keysight Technologies		
	Keysight UXA	Keysight UXA Signal Analyzer	
I/O Config	Product Number	N9040B	
	Serial Number	US00092113	
User Interface	Instrument S/W Revision	A.15.05	
	Revision Date	1/13/2015 10:34:06 AM	
Power On	Computer System	Windows 7 , Service Pack 1	
	Computer Name	A-N9040B-92113	
Restore Defaults	IP Address	127.0.0.1	
	IPv6 Address	::1	
Alignments	Link-Local IPv6 Address		
	Host ID	N9040B,US00092113	
Licensing ...	mDNS Enabled	Yes	
	mDNS Host Name	A-N9040B-92113	
Security	mDNS Service Name	Keysight N9040B Signal Analyzer - US00092113	
Diagnostics	Option	Name / Description	Option Version
Service	N9040B-PC6	Intel(R) Core(TM) i7-3615QE CPU @ 2.30GHz, 16 GB	

Note: If the instrument does not reboot, remove the USB storage device and cycle power. The boot order for the instrument may have been changed in the instrument BIOS previously, and the instrument may be instructed to boot from USB first, and the internal disk drive second. If this is the case, failure to remove the USB device will result in an error, as the instrument attempts to boot from it.