

Instrument Software Update Instructions

VXG and VXG-m Vector Signal Generators M9383B, M9384B


Purpose

The purpose of this document is to outline the instrument software update procedure 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 instrument current and up to date
2. Updates the generator 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 generation application(s), so long as the application(s) were licensed prior to the update. This procedure will not update any other software.

Note: Connecting a mouse and keyboard is recommended for the M9384B VXG. For the M9383B VXG-m a mouse, keyboard, and monitor are required or use remote access via Microsoft Windows Remote Desktop.

To determine the revision of instrument software currently installed, tap the gear icon  on the top bar of the graphical user interface, then tap **System**. Look for the “Firmware Version” 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.



Instrument Software Installation Requirements

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

- Instrument must be functioning properly before the update is attempted
- The ability to login to the instrument as the **administrator**
- The ability to transfer a large file (~1.5 GByte) to the instrument being updated

Obtaining the Latest Software Update

1. Go to <http://www.keysight.com/find/vxg>
2. Select the appropriate link in the Software Update section of the table
3. Download the executable file (**Keysight.PathWave.SG.Setup_A.XX.XX.exe**) by clicking on the Download button. Save the file to a location of your choice; recommendation is to use a folder on the D: partition.



If you do not have the ability to download files directly to the D: partition of the instrument being updated, store the **Keysight.PathWave.SG.Setup_A.XX.XX.exe** file on a large capacity USB storage device for transfer to the instrument. (The file size is ~1.5 GByte.)

Note: This will update the instrument software currently running on the instrument. 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 to the version that was originally shipped from the factory. It is recommended you place a copy of this software installer on the D: partition, so you can easily perform an update in the event you need to do a recovery in the future.

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, ensure the Instrument user is **Signed Out**, do not use Switch User, then login as the **administrator**.

The instrument software upgrade process has an install wizard which removes the old software version and installs new software version. The time to perform the upgrade will may vary between 10 and 45 minutes depending if FPGA upgrading is performed. The FPGA updates are handled automatically during the instrument software update process.

1. If the instrument is not already running, turn the instrument on and allow it to completely boot up
2. Close the instrument application by pressing the  icon on the top bar of the graphical user interface, then Exit 
3. **Sign 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. Tap the

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

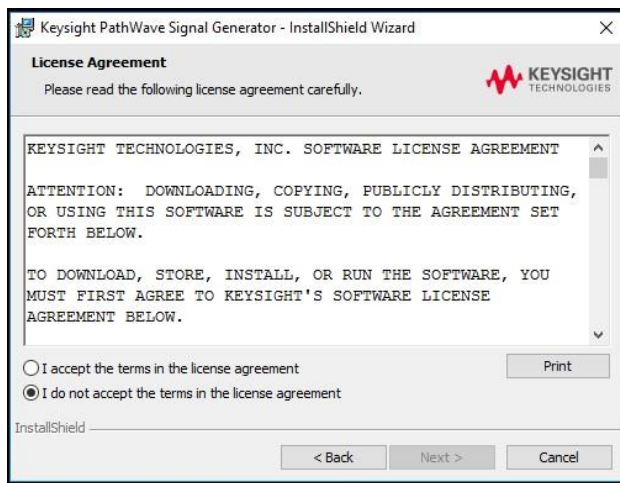
4. At the login prompt enter (factory default indicated, if you have changed the password enter the appropriate password):
 - User name: **administrator**
 - Password: **Keysight4u!**
5. Press the Next arrow to log in

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 it into one of the USB ports on the front of the instrument. Copy the file to the instrument's disk drive, per Note above it is recommended to use the D: partition, then proceed to step 1.

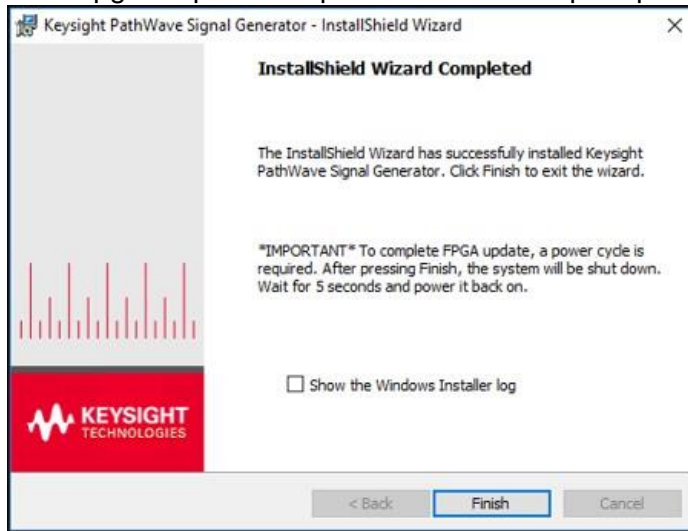
1. Tap the **Windows Start** icon, select **File Explorer** and select the appropriate file location
2. Double tap the filename "**Keysight.PathWave.SG.Setup_A.XX.XX.exe**"
3. A message will appear providing the license agreement, read and accept:



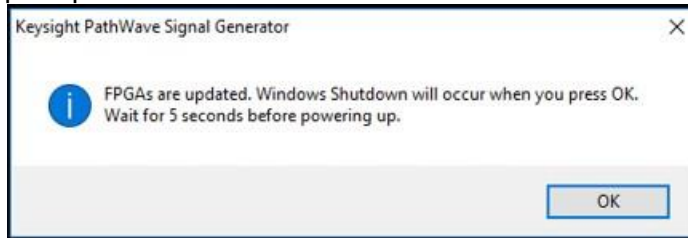
4. The installation process will proceed, you may or may not be prompted for further confirmation during the process (depending on the updating of included component software).

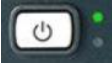
DO NOT cycle the instrument power for any reason during the process. If this process is interrupted, the instrument may end up in an unusable state, and will likely need to be returned to Keysight Technologies for repair before it will be usable again.
5. When the software installation is complete a prompt is displayed, one of two actions completes the process:

- A. If the upgrade process updated FPGAs the prompt will be:

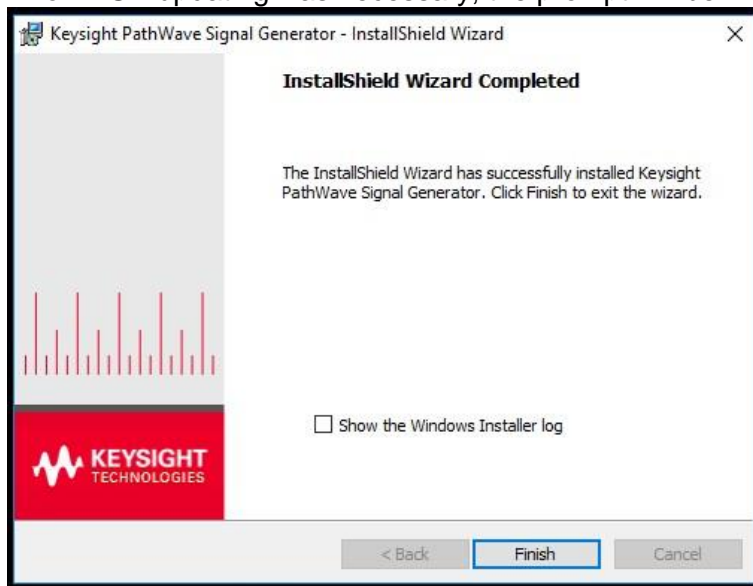


Press **Finish**. With software version A.06.07 and greater you will be notified with this prompt



Press **OK**. The instrument will automatically shutdown, after 5 seconds, press the power button  to boot the instrument.

- B. If no FPGA updating was necessary, the prompt will be:




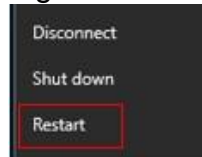
Press **Finish**.

If you are presented this restart prompt, press **Yes**:




If you were not presented the prompt, restart the instrument using the **Windows**

Start icon, tap on the power icon  , then select Restart



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.

6. Check for any errors and verify that the new software version is installed by tapping the gear icon  on the top bar of the graphical user interface, then tap **System**. Look for the “Firmware Version” as shown below.

