Qg2 Software Update

Software Releases

VIAVI Solutions provides updated software to the customers on a regular basis in the form of software image releases. These images would typically include new features, enhancements and fixes for issues found. When a new software is released it includes:

• New Release Notes for that specific version

• Updated User Guide document (as needed)

Email notifications will go out to all the customers about the availability of the new release and the related collaterals (Release Notes, User Guide). They are also made available on VIAVI Support portal for registered users to be able to access and download it.

The image is in an encrypted, binary format, which after downloading, is installed on the Qg 2 unit. The specifics of the mechanism will be addressed in the next section.

Software Upgrade Mechanism

The new version of Qg 2 software can be installed by one of the following methods. After successful installation (takes about 3 – 4 minutes), Qg 2 will automatically reboot and start a new session with the new software.
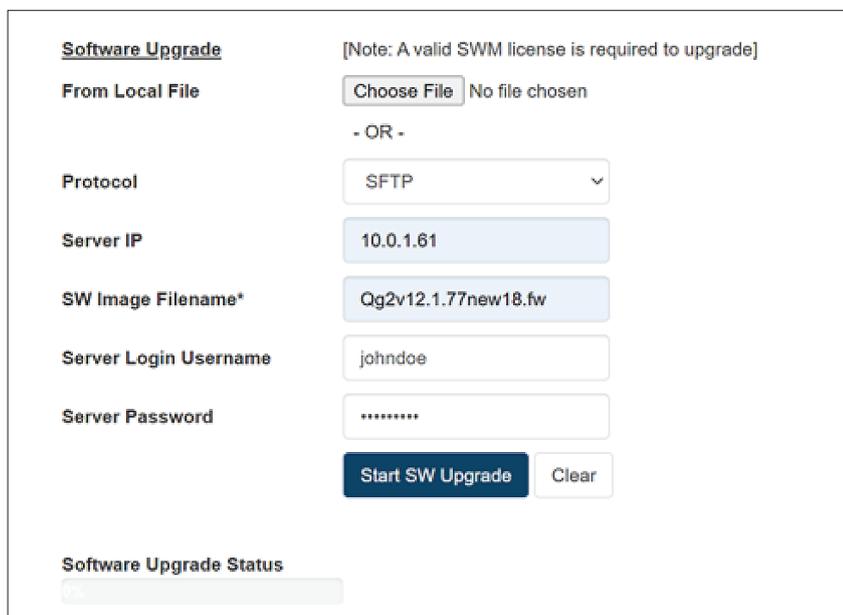
> **NOTE**
> Do not power down or restart the unit during the upgrade process. Doing so may lead to undesirable results. If the installation encounters any error, appropriate notification is made to the user and a reboot may be necessary.

Software Upgrade via WebUI and SFTP (Secure FTP)

The software image should be placed on a server on the same network as Qg 2 management port. The image (or a soft link to it) should be in the /home/<user> folder if it is a Linux server.

From Qg 2 System webpage, the IP address of the SFTP server, the user credentials and the image filename should be provided and followed by pressing the Start SW Upgrade button as shown in Figure 1.

Figure 1

The Software Update Status bar at the bottom will show the progress of the upgrade.

Software Upgrade via WebUI and Local Disk

There is another option besides SFTP to install the new image from the webpage. If the release image is downloaded on a PC, and with the browser connected to Qg 2 unit over the network, then the installation can be easily accomplished. The image download from the local PC to remote Qg2 is done over HTTP(s). By clicking the "Browse" button and navigating to the location of the image and selecting it and then pressing the Start SW Upgrade button will start the installation.

The Software Update Status bar at the bottom will show the progress of the upgrade.

Software Upgrade via CLI

Using the CLI shell, the new software can be installed, as shown below. The option "2" provided in the command line of system Upgrade_Start tells Qg 2 software to use SFTP. That is the only option available from CLI. Option 1 is for FTP which has been deprecated and is not supported any longer.

Figure 2 shows the software upgrade using CLI.

Figure 2 - Software upgrade via CLI

Software Upgrade and SWM

With the release of 12.2.1 software, VIAVI introduced the Software and Support Maintenance (SWM) license key mechanism. The license key is valid for a year and can be renewed by contacting VIAVI Support. The SWM license key for a specific Qg 2 unit can be obtained by registered users on our support portal.

When a new software image is released (12.2.2 onwards), Qg 2 will first check if there is a valid SWM license key installed. If there is no license key or if the key has expired prior to this new release date, then it will prompt the user to renew the license and enter a new, valid SWM license key. Without which, the upgrade will not proceed.

The following sections show how to retrieve the information and install a new and valid SWM license key.

SWM on System Webpage

The figure below shows the current license key (when installed) and an option to enter a new license key in case the previous one has expired.

Figure 3 shows the SWM license.

Figure 3 - SWM license on System page

SWM License on CLI

The SWM license information can be obtained and a new license key installed from CLI.

Figure 4 shows the SWM license installation by CLI.

```
Sync> license(swm) status

SWM-License Key Status: QSWA-059612-1023-EDLN-MLXE-HABG (End Date: 10 / 2023)


Sync> license(swm) install QSWA-059612-1023-EDLN-MLXE-HABG
SWM-License Installed successfully

Sync> □
```

Figure 4 – SWM license installation via CLI

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