

Version 2.2

VIAVI//Public

Purpose

This document describes how to standardize device firmware with FiberChekPRO[™] in order to maintain firmware version stability and uniformity across a fleet of deployed devices. By default, FiberChekPRO will automatically install the latest available firmware when performing a firmware update on a device. However, by standardizing the device firmware, customers can lock into a specific version that will not change, even when new updates are published.

Standardization Process Overview

In general, the firmware standardization process is summarized as follows:

- A. Lock the firmware package into the version you wish to standardize onto (the "locked version").
- B. Perform a device System Reset (if necessary).
- C. Perform a device Firmware Update to the locked version.

Limitations

Firmware locking is supported by FiberChekPRO version 2.2 or later, and you can only lock into a firmware version that is greater than or equal to the System Reset version. This is because, in order to *downgrade* a device from a version that is *newer* than the locked version, the device must go through the System Reset process (described in <u>section B</u>), and a device cannot be downgraded past the System Reset version. The following table lists the System Reset versions.

Product Name	System Reset Firmware Version
P5000i	2.0.273.3264, 2.0.1213.3264 (depending on hardware revision*)
OLP-82x/HD4ix	Not supported
FVAi/FVDi	2.0.1183.3226
FiberChek	2.0.846.3237
FBPP-WiFi	Not supported
Sidewinder/FVAm	2.0.1776.3236
FVAi-2030	2.1.1373.3501

* FiberChekPRO will automatically determine which version to use based on the unit's internal hardware revision.

Terminology

A *firmware package* is a stand-alone file which is utilized by FiberChekPRO to perform updates to a device. Each product and version has its own firmware package file.

A *firmware package installer* is an executable program which is used to place a firmware package file in the correct location for FiberChekPRO to use.

Locking is the process of locking a firmware package into the version you wish to standardize onto.

A. Locking Firmware

Once a firmware package is locked:

- It will not be overwritten even if FiberChekPRO is updated to a newer version.
- FiberChekPRO will never attempt to download the latest firmware package from the server.
- The package can be *unlocked* by rerunning the firmware package installer (described in the "<u>Unlocking Firmware</u>" section below).

Follow these instructions to lock into a standardized firmware package version.

- 1. Visit http://fcpro.updatemyunit.net, scroll to the bottom, and click on "View All Software Releases".
- 2. Locate the section titled "All available versions of [device] firmware", where [device] is the specific product name, such as FVAi/FVDi.
- 3. Under that section, click on the desired version. This downloads a firmware package installer.
- 4. Double-click to run the installer and click Next to continue.

📴 Setup - FVAi/FVDi Firmware	
	Welcome to the FVAi/FVDi Firmware Setup Wizard
	This will install FVAi/FVDi Firmware Version 2.0.1189.3268 on your computer.
	It is recommended that you close all other applications before continuing.
VIAVI	Click Next to continue, or Cancel to exit Setup.
	Next > Cancel



5. If you have only one installation of FiberChekPRO, click Next to continue. Otherwise, click Browse to select the desired installation of FiberChekPRO, and then click Next to continue.

US			
Select Destination Location Where should FVAi/FVDi Firmware be installe	ed?	VIAVI	
Setup will install FVAi/FVDi Firmwar	e into the following folder.		
To continue, click Next. If you would like to select a different folder, click Browse.			
C:\Program Files (x86)\Viavi\FiberChekPRO		Browse	
At least 15.8 MB of free disk space is require	ed.		
	< <u>B</u> ack Next >	Cancel	
Check the box "Lock this firmware version" a	and click Next to conti	nue.	
F			
🕞 Setup - FVAi/FVDi Firmware			
Setup - FVAi/FVDi Firmware Select Additional Tasks Which additional tasks should be performed	?	VIAVI	
Select Additional Tasks Which additional tasks should be performed Select the additional tasks you would like Se Firmware, then click Next.	? tup to perform while install	ing FVAi/FVDi	
Select Additional Tasks Which additional tasks should be performed Select the additional tasks you would like Se Firmware, then click Next.	? tup to perform while install	ing FVAi/FVDi	
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Setup - FVAi/FVDi Firmware Select Additional Tasks Which additional tasks should be performed Select the additional tasks you would like Se Firmware, then dick Next. I Lock this firmware version	? tup to perform while install	IN THE TRANSPORT	

6.

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Standardizing Device Firmware

7. Click Install.

ware on your computer.
Back if you want to review or
*

8. Click Finish when done.

🔂 Setup - FVAi/FVDi Firmware	
	Completing the FVAi/FVDi Firmware Setup Wizard
	Setup has finished installing FVAi/FVDi Firmware on your computer.
	Click Finish to exit Setup.
VIAVI	
	<u> </u>



 Start FiberChekPRO. Open the Setup menu, select FiberChekPRO, and then select Firmware on the left side. Verify that the Local Version for the product matches the locked version, and that the Cloud Version is NA. (The Cloud Version is the latest version published on the web server. If a firmware package is locked, it displays NA for the Cloud Version to indicate that it will not pull that version from the server.)

⊘FiberChek [™] − □ ×					
					File Setup Help
	Model	Local Version	Cloud Version	Size	
FiberChekPKO Setup	P5000i	2.1.295.3401, 2.1.1227.3391	2.1.295.3401, 2.1.1227.3391	NA	Download
Language	OLP-82x/HD4ix	1.6.1166.3112	1.6.1166.3112	NA	Download
User Interface	FVAi/FVDi-xxxx	2.0.1189.3268	NA	NA	Download
Microscope	FiberChek	2.2.983.3387	2.2.983.3387	NA	Download
Analysis Profiles Archiving Options	FBPP-WiFi	1.3.167.2801	1.3.167.2801	NA	Download
Optical Power Meter	Sidewinder/FVAm	2.2.1998.3457	2.2.1998.3457	NA	Download
Company Info	FVAi-2030	2.1.1373.3501	2.1.1373.3501	NA	Download
Job Info	Automatically chec	k for updates at startup			
Connector Definitions	- Automatically ence	k for apartes at startap			
StrataSync					
Bluetooth					
Wi-Fi					
Firmware					
OK Cancel					

* Actual version numbers may be different.

Unlocking Firmware

To unlock a firmware package and resume the automatic updates, rerun the firmware package installer as described in the previous section, except uncheck the box in step 6.

词 Setup - FVAi/FVDi Firmware	
Select Additional Tasks Which additional tasks should be performed?	VIAVI
Select the additional tasks you would like Setup to perform while installing Firmware, then click Next.	g FVAi/FVDi
< <u>B</u> ack Next >	Cancel

B. Performing Device System Reset

If a device has a firmware version that is *newer* than the locked version, then it *must* first undergo a System Reset <u>before</u> updating to the locked version. For example, consider the following scenario: The user has a device with version 3, but the locked version is version 2, and the System Reset version is version 1. In this case, the procedure would be:

- 1. Perform a System Reset (version $3 \rightarrow$ version 1)
- 2. Perform a Firmware Update (version $1 \rightarrow$ version 2)

System Reset is the process of reverting a device down to the System Reset firmware version. It also deletes all stored results and reverts all settings (including optical settings, profiles, and connector definitions) to their factory defaults. After the System Reset, then the device may be updated to the locked version.

Follow these instructions to perform a System Reset:

1. Connect the device to FiberChekPRO. From the Setup menu, select the device name, and then select the Firmware option on the left side.



2. Note that the Current Version is newer than the Latest Available Version, which is the locked version you have standardized onto. As such, the Update Firmware button is disabled. If the current version is NOT newer than the available version, then skip to <u>section C</u> to update the firmware. Otherwise, click System Reset to start the System Reset wizard.

⊘ FiberChek™			
FVAi-2400 Setup	Current Version: 2 Latest Available Version: 2	2.1.1275.3300	
	Update Firmware	e	
Device Information			
Device Settings	System Reset	. 2	
Firmware			
Optical Settings			
Analysis Profiles			

3. The first time a System Reset is performed for a device family, the system reset package needs to be downloaded from the internet. Click Next to download the package.





4. When the download is complete, the wizard shows a warning about the reset process. Note that the firmware version listed in the dialog is the System Reset version. Click Reset to start the process, which can take up to 20 minutes.



5. When the system reset completes, click OK to exit the wizard the reboot the device.



6. After the device reconnects to FiberChekPRO, go to step 2 in the next section.

C. Performing Device Firmware Update

Follow these instructions to update a device to the locked version you have standardized onto:

- 1. Connect the device to FiberChekPRO.
- 2. A dialog box similar to the following will appear. Click Yes to navigate to the firmware setup page.

0	×
New firmware is available for the device "FVAi-2400". Do you want to install it now?	
🔲 Do not ask me again.	
	Yes No

3. If you just performed a System Reset as described in section B, then the current version will be the System Reset version. Click Update Firmware to start the Firmware Update wizard. Follow the prompts to update the device to the locked version.

⊘FiberChek™	
FVAi-2400 Setup	Current Version: 2.0.1183.3226 Latest Available Version: 2.0.1189.3268
Device Information Device Settings Firmware Optical Settings Analysis Profiles	System Reset
✓ Firmware Update Updating firmware	×
	OK

4. When the update completes, click OK to exit the wizard and reboot the device.



5. When the device reconnects to FiberChekPRO, from the Setup menu, select the device name, and then select the Firmware option on the left side. Note that the current version is now the locked version which you have standardized onto.

⊘ FiberChek [™]		
	Current Version:	2.0.1189.3268
FVAi-2400 Setup	Latest Available Version:	2.0.1189.3268
	Update Firmwa	are
Device Information		
Device Settings	System Reset	
Firmware		
Optical Settings		
Analysis Profiles		