

System Reset and Firmware Update

Overview

System Reset is the process of reverting a device to a specific *earlier* firmware version. It also deletes all stored results and reverts all settings (including optical settings, profiles, and connector definitions) to their factory defaults.

Firmware Update is the process of updating a device to a *newer* firmware version.

System Reset and Firmware Update are *complementary* processes.

Purpose

The purpose of System Reset is to enable users to roll back device firmware to an earlier, preferred version, regardless of new firmware releases. This enables users to maintain firmware version stability and uniformity across a fleet of deployed devices.

Limitations

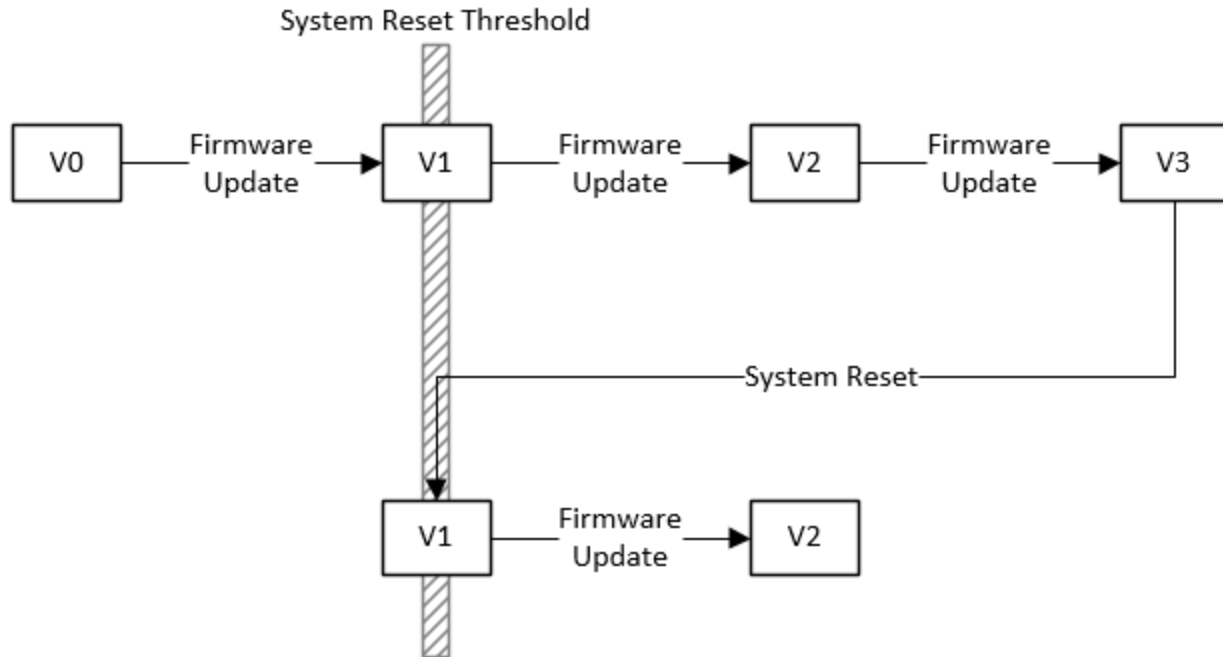
System Reset may only be performed on a device if the firmware it is *currently running* is new enough to support the System Reset process. This is because the process employs the currently running firmware to perform the roll back operations. Furthermore, the version to which the device is reverted must also support System Reset, and it is a fixed, predetermined version for a given device family. This means that a device can never be rolled back to a version earlier than the first version to support System Reset.

Process Overview

To load a specific earlier version, the device must first go through a System Reset process, and then it may be updated to the desired version. For example, consider the following scenario: The user has a device which currently has firmware version 3, but the user desires version 2 on the device. The procedure would be:

1. Perform a System Reset to version 1.
2. Perform a Firmware Update to version 2.

In general, the System Reset and Firmware Update process is summarized in the following diagram:



Process Details

State Transitions

In the above diagram, there are 2 types of state transitions: Firmware Update and System Reset. These state translations are governed by the following rules:

1. Firmware Update can transition a device from version A to version B if and only if B is greater than or equal to A.
2. System Reset can transition a device from version A to version B if and only if B is less than or equal to A, and both A and B are greater than or equal to the System Reset threshold version.

The System Reset Threshold

In the fall and winter of 2018-2019, new firmware that supports System Reset is being released for the following device families: P5000i, FVAi/FVDi-xxxx, FiberChek™, and Sidewinder™. These new versions constitute the System Reset threshold. To minimize the user impact of getting to the threshold, the System Reset versions will be identical to the latest releases (as of August 2018), except for the addition of System Reset support.

For assistance with System Reset, please contact the VIAVI Technical Assistance Center. You can email tac@viavisolutions.com, or find your local support contact on the web at <http://www.viavisolutions.com/support>.