

Raritan® PX Firmware Version 1.5.13 (firmware version will be displayed as 01.05.13 in the GUI after an upgrade; build number on the *Device Information* page will be 11595)

Version: DPX 1.5.13- Build 11595 Release Notes, Revision 4

Date: February 18, 2015

Effective: Immediately.

Applicability:

This is a Controlled Introduction (CI) firmware release, to be performed after consulting with Raritan Technical Support. The upgrade is for the ALL PX models, except those that have a part number that begins with PX2 or PX3 (use release 2.n.n for these models). Additional models may be tested after this release is available.

A PRE-REQUISITE for upgrading to PX1.5.13 is to be running a PX1.5.4 or later release (PX1.5.5, PX1.5.7, or PX1.5.8). Therefore for firmware upgrades for all customers running releases older than 1.5.5, this is a two-step upgrade, i.e., first upgrade to 1.5.4 (Fence release) and then to 1.5.13.

Release 1.5.4 is an intermediate step in the upgrade to 1.5.13; it is referred to as a Fence release in the Upgrade Matrix (see section below). Release 1.5.4 is only used as a step to get to release PX1.5.13, it is NOT intended that customers will upgrade to 1.5.4 and stop.

Also, getting to the 1.5.x firmware (from 1.3.n or 1.4.n) codebase is a very significant upgrade to the internal firmware components, so it may take as long as 30 minutes. Read the detailed firmware upgrade instructions (in the PX1.5.7 Release Notes) before starting the upgrade process.

It is recommended that customers upgrade to PX1.5.13 to address security fixes, and if they need to send mail to an external mail server. See details of fixes below.

Due to significant internal enhancements in PX 1.5.13, you cannot downgrade from Release 1.5.13 to ANY prior release.

For customers using CC-SG 5.0-5.2; note restrictions in Known Issues with Release 1.5.13 section below.

Release Status: A PRE-REQUISITE for upgrading to PX1.5.13 is to be running PX1.5.4. You cannot upgrade to PX1.5.13 until you are running firmware version PX1.5.4 or higher. See the Upgrade Matrix below.

Raritan PX Overview:

Raritan/Dominion PX refers to Raritan's family of intelligent power distribution units (iPDUs).

Release 1.5.13 contains all enhancements and fixes which are listed below:

- A) FCR: New SSL Vulnerabilities Advisory POODLE Attack - (CVE-2014-3568) & SRTP Memory Leak (CVE-2014-3513) [58815]
- B) FAQ: Multiple OpenSSL vulnerabilities PX1 [57951]
- C) Firmware upgrade failing on verification [56811]
- D) Upgraded 1.5.7 PX POE network connection no longer works [56791]
- E) SMTP doesn't work. Error: Sending test email failed, reason Error 554. [56221]
- F) IPMI vulnerability on Raritan PDUs [55982]
- G) FCR: Ticket 111697 - PX1 upgrade failures (50%) [55867]
- H) PX1s go into Lost Comm state but still able to connect & control [55703]
- I) FAQ: Error: Take Diagnostic Snapshot failed PX 1.5.8 [54985]
- J) Incorrect total power reading over 8700 Watts [50332]
- K) PX is unresponsive and shows restarts [59426]
- L) PDU power issue [59030]
- M) FAQ: PDU Outlets Off After Power Outage - DPXR20A-30L6 [57702]
- N) Nessus vulnerability finding on Dominion PX CVE-2014-3470 [57365]
- O) Temperature / Humidity sensor issues [57286]

Consult the PX 1.5 User Guide posted on the Raritan website for more information on these PX features.

Raritan PX Documentation:

The following user documentation is available for the Raritan PX:

The latest English language User Guide for PX1.5 (PDF format) should be used with this release; it is available from Raritan's website via a hyperlink from the GUI.

Not Supported with the Raritan PX 1.5.13:

ALL PX models with part number beginning with PX2-nnnn, PX3-nnnn and all PX-1000, PX-2000, and PXE series models are NOT supported by this release. See the PX2.n release for these models.

Some custom PX models may not be supported by this release. Please contact Raritan Support to see if your Custom model is supported in this release.

See "Dominion PX Release Compatibility Information" or Known Issues (below) for restrictions.

Upgrade Matrix (path for upgrades):

The **MINIMUM** release versions required to upgrade to 1.5.13 is 1.5.4. If you are running a release OLDER than PX 1.5.0 (examples: 1.0.n, 1.1.n, 1.2.n, 1.3.n – where n<5), please contact Raritan Support on how to get the PX to 1.5.4 BEFORE attempting to upgrade the unit to PX1.5.13.

Please note caution about sensor alerts (#4 in the Release 1.5.7 Compatibility section in the PX1.5.7 Release Notes). PX1.5.4 is a just a fence (i.e., intermediate) release.

Upgrade paths to PX firmware release 1.5.13

Starting firmware release	Upgrade to Fence Release	Upgrade to Final release	Comments
Pre - 1.3.5	See comments	See comments	Contact Raritan Support
1.3.X (where X>=5); examples 1.3.5, 1.3.12, etc.)	1.5.4	1.5.13	No need to disconnect serial port.
1.4.1	1.5.4	1.5.13	No need to disconnect serial port.
1.5.0	1.5.4	1.5.13	Must disconnect anything plugged into the serial port
1.5.2	1.5.4	1.5.13	Must disconnect anything plugged into the serial port
1.5.4 – 1.5.12	Not applicable	1.5.13	No need to disconnect serial port.

Upgrade Duration:

1. All PX models with a DPX- or DPC- prefix running an older relay board bootloader version will experience a longer firmware upgrade period. A firmware upgrade on these models can take as long as 30 minutes. To determine if your model falls into this add category, please perform the following from the PX GUI:
 - a. Choose Maintenance > Device Information. The Device Information page opens.
 - b. Look in the Device Information panel for 'Controller 1 Boot Loader Version:'
 - c. If the version is 0x01, you will experience a longer firmware upgrade period.
2. All PX models with a PX- prefix will not experience any difference in their firmware upgrade period.

Raritan PX Release 1.5.13 Compatibility Information:

1. Upgrade Matrix: See IMPORTANT note under Upgrade Matrix above BEFORE upgrading firmware on any unit.
2. Use the PX1.5.7 MIB from the Raritan website, it is unchanged for PX1.5.13.
3. Use the PX1.5.7 QSG and User Guide from the Raritan website for PX1.5.13.

Known Issues with DPX Release 1.5.13:

1. PX shows sporadic unit restarts [59326]. This will be addressed in the 1.5.14 PX firmware release.
2. PX-5528 Failed firmware update from 1.5.4 to 1.5.13 [58579]. Very intermittent failures have been observed when upgrading from 1.5.4 to 1.5.13. As a workaround, please try the upgrade again.
3. Firmware updates may fail from 1.5.12 to 1.5.13 with SMTP events & alerts [57730]. If you are upgrading from 1.5.12 to 1.5.13, please disable SMTP and SMTP alerts and events prior to the upgrade.

Release Package Details:

The Release 1.5.13 package for the Dominion PX series has the following components. Note that if the release status is Generally Available (GA) the binary file is posted as a Zip file under firmware upgrades on Raritan's website. Some releases, termed LA, CI, or Beta releases are not posted and are intended for upgrading under the guidance of Raritan Technical Support for specific models only. If posted, the file is zipped and must be unzipped before it can be installed on the Dominion PX unit:

“DPXReleaseNotes1_5_13v1” – this file

A firmware release (binary):

fw-kira-rpc-pdu-raritan_010513-11595-WUB.bin

Firmware Upgrade Pre-requisites:

If you have any questions, or cannot follow the instructions below, please STOP and contact Raritan Technical Support for further instructions. Please read the entire instructions (this document) before proceeding.

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February 18, 2015

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