

Release Notes for Dominion® PX Software Version 1.0.4

Version: DPX 1.0.4 Release Notes, Revision 1.3

Date: January 7, 2008

Effective: Immediately.

Applicability:

New Dominion PX models:

- All models.

Release Status: General Availability.

Dominion PX Overview:

Dominion PX refers to Raritan's family of intelligent power distribution units.

Release 1.0.4 Overview:

Release 1.0.4 is a new firmware release for all Dominion PX units, consisting of improvements and enhancements in the areas of current monitoring.

Dominion PX Documentation:

The following user documentation is available for the Dominion PX:

The latest documentation is on the Raritan website: www.raritan.com. Please go to the **Support** section, click on **Product Documentation** and then **Dominion PX** in the left navigation panel or go directly to:

<http://www.raritan.com/support/productdocumentation/dominion-px/>

Computer Interface Module (CIM) Supported with KXII:

Dominion PX when used with the KX II can use the following CIMs:

- **D2CIM-PWR:** required to connect a Dominion PX to the KX II.

Release 1.0.4 Compatibility Information:

1. All Dominion PX models.

Dominion PX Release 1.0.4 Enhancements:

Dominion PX Release 1.0.4 includes the following enhancements and improvements:

1. The accuracy of RMS current per outlet is now 5% or better for any load of above 2 Amps. Below 2 Amps power draw from the unit, accuracy may be lower.
2. On the web-based home page, several terms are changed; and now Power Factor is reported.

Home >Power Outlets> Outlet Detail Page

Releases 1.00.00 through 1.00.03	NEW Release 1.00.04
RMS Current (Amps)	RMS Current (Amps)
No equivalent term in these releases	Power Factor
Maximum RMS Current (Amps)	Maximum RMS Current (Amps)
RMS Voltage (Voltage)	RMS Voltage (Volts)
Apparent RMS Power (Watts)	Active Power (Watts)
Average RMS Power (VA)	Apparent Power (VA)
Real RMS Power (Watts)	No equivalent term in this release

Consult the Dominion PX Documentation for more information on the PX features.

Important Notes and Information:

1. Enable Javascript in your browser before logging into the unit to start the upgrade process.

Known Issues with 1.00.04:

1. When the current loading is close to, or smaller than, 0.1A, the power factor always shows something (e.g., 0.208), but RMS current shows '0'. This issue will be resolved in a future release.
2. The data obtained from IPMI sensors via SMASH-CLP is not accurate, and may contain unknown values. This issue will be resolved in a future release. The information obtained via HTTP is accurate.
3. Due to improvements in PX 1.0.4, you cannot downgrade from Release 1.0.4 to Release 1.0.
4. Power values obtained from IPMI-tool overflow for high-current loading may be inaccurate.



5. Power factor values obtained from IPMI-tool overflow for high-current loading may be inaccurate.
6. SMTP logging for login failed and user blocked events are not working. Syslog works fine.
7. Minimum power-on delay displayed by IPMI is greater than one second. The GUI will display and allow values to be less than one second.

Release Package Details:

The Release 1.0.4 package for the Dominion PX series has the following components:

“DominionPXReleaseNotes1.0.4v1 3” – this file

Firmware Upgrade Pre-requisites:

If you have any questions, or do not meet the pre-requisites listed below, please STOP and contact Raritan Technical Support for further instructions. Please read the entire instructions (this document) before proceeding.

General Upgrade Instructions (standalone upgrade from the browser based user interface):

1. Ensure no users are logged in; nor are there any active sessions – besides the current admin session.
2. The user upgrading the PX device must be a member of the default Admin Group to have sufficient administrator-level privileges to update the Dominion PX unit.
3. Five to ten minutes are required for the complete update procedure. The update and subsequent reboot time will vary according to the number of outlets in the unit.
4. Upgrade the Dominion PX unit using a wired network only. Loss of packets/dropouts over a wireless network may result in a failed upgrade.
5. If doing the firmware upgrade over a VPN, ensure that the connection is stable and that no inactivity timeouts have been set.



6. The detailed, step-by-step instructions to perform the upgrade are given below.
7. The software upgrades are written to flash memory, and this takes time to complete. Please do not power-off the unit, or disconnect the Ethernet connection, while the upgrade is going on.
- 8. Enable Javascript in your browser.**
9. Download the firmware upgrade file from the Raritan web-site, and save it on a local or network accessible directory. Unzip the file and save it in an accessible directory.
9. Should you experience any difficulties with the upgrade, call Raritan Technical Support for assistance.

Step-by-Step Upgrade Instructions:

1. Please ensure that no users are logged into the unit. Note that the upgrade will not interrupt power to the outlets; nor will it change the state of the outlet – outlets that are on will remain on; similarly, outlets that are off will remain off – both during the firmware upgrade and following (software) reset to load the new firmware into the unit.
2. In Internet Explorer (or other supported web browser), type in the IP Address of your Dominion PX unit, and wait for the web-based interface to load.
3. Logon as an administrative user “admin” (or other member of the Admin Group).
4. Click on the “Firmware Upgrade” command on the “Maintenance” menu.
5. Browse to locate the .bin file containing the update: fw-kira-rpc-pdu-raritan_010004-6456.bin

The full path name might look as in an example below (your path may differ):

“C:\Documents and Settings\user\My Documents\My Downloads\fw-kira-rpc-pdu-raritan_010004-6456.bin”.

Click the “Upload” button.

The current and future versions will be displayed. Click the “Upgrade” button to start the upgrade.



6. The firmware upgrade will then proceed:
 - a. Other users cannot operate the PX during the upgrade, however, power is NOT interrupted to any outlets.
 - b. The upgrade panel will inform you of the progress of the upgrade. This upgrade step will take 4-10 minutes, depending on how many outlets are in the unit.

DO NOT REBOOT OR POWER CYCLE THE PX DURING THE UPGRADE OR THE REBOOT!
 - c. When the upgrade is completed, the admin user will be logged off.
7. The device will now reboot and reset, which may take up to 1-2 minutes.
8. The user will be taken back to the Login page when the upgrade is completed. IF, and only if, you are not seeing the login page after more than 12 minutes, close your web browser session and log back in after the reset completes.
9. When the firmware upgrade is complete, check the firmware version on the Home page in the left panel – it should show “Firmware 01.00.04” after the upgrade.
10. Due to improvements in PX 1.0.4, you cannot downgrade from Release 1.0.4 to Release 1.0.
11. If you have any questions or issues during the update, call Raritan Technical Support for assistance.

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