

# Xerus Firmware Release Notes



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**Version:** Xerus 4.1.0 / Build 49885 / Release Notes, Version 1

**Release Status:** General Availability (GA)

**Date:** September 14, 2023

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## Release Overview

Xerus 4.1.0 Firmware is a **General Availability (GA) Release** for applicable Xerus-based product groups. This release may include performance and productivity improvements, support for new products and accessories, new features and enhancements, bug fixes, and general fixes for specific model families.

*Note:* Due to an issue found in recently released Xerus 4.0.x firmware updates, we strongly recommend upgrading to release 4.1.0 Build 49885. If you need assistance, please contact your regional Raritan Support team.

## Applicability

This firmware release applies to the following Xerus-based product brands and models.

<i>Product Group</i>	<i>Model</i>
Rack PDUs	PX3, PX2, PXC, PXO
Smart Rack Controller	SRC
Branch Circuit Monitors	BCM2
Transfer Switch	PX3TS
Access Control	SmartLock™
Sensors	DX2 SmartSensors™
Asset Management	AMS2

## General Guidelines for this Release

This release may not support some custom-engineered models. Please check the **Support & Compatibility** section below. Or contact your regional Raritan Support team if you are unsure of the model number of your unit—it is typically viewable from the GUI's *Device Information* page and is also printed on a label located on the device.

*Note:* Do NOT upgrade ANY other Raritan model(s) to Xerus 4.1.0 Firmware (other than what is listed in the Applicability table above) because the unit may either not be compatible with Xerus Firmware or may have been built after this release entered our System Tests and installing it may result in the unit becoming non-functional.

*Note:* Do NOT downgrade your new Xerus-based product(s) to any prior Xerus Firmware release. Due to significant internal enhancements in Xerus 4.1.0, a downgrade from Release 4.1.0 Build 49885 to ANY prior firmware release is NOT SUPPORTED. Please contact your regional Raritan Support team with any questions.

## Release Highlights

### New Products & Accessories

<i>Issue ID</i>	<i>Description</i>
<b>78874</b>	Added support for a new vibration SmartSensor (DX2-VBR)

### New Features & Enhancements

<i>Issue ID</i>	<i>Description</i>
<b>81330</b>	Added write support for account management via Redfish <sup>®</sup> API
<b>80687</b>	Added HTTPS certificate management support via Redfish API
<b>81227</b>	Added new USB Wi-Fi support for iX7 and newer controllers
<b>73751</b>	Added the ability to perform a data push for linked units
<b>77732</b>	Increased SMTP password limit from 64 to 128 characters
<b>78220</b>	Increased memory limits for LUA scripting service
<b>76363</b>	Added new SmartLock event conditions for door being forced open and manual unlock of a door handle
<b>78679</b>	Added new dew point calculations for combination temperature and humidity sensors
<b>73919</b>	Added the ability to download data via CSV on all relevant web GUI pages for the PX3TS Rack Transfer Switch
<b>75988</b>	Added additional LDAP information from the CLI using the <show authentication> command
<b>81201</b>	Added display of all MAC addresses from the PDU details page in the web GUI
<b>73733</b>	Added network configuration settings for linked units from web GUI
<b>73603</b>	Added the ability to view cleared hardware failures from web GUI

<b>70730</b>	Added power save modes and user-defined timeout settings on LCD
<b>80782</b>	Added the ability to view min/max values for all sensors in table view

## Bug Fixes

<i>Issue ID</i>	<i>Description</i>
<b>81047</b>	Fixed auto relock issue on a unit reboot for SmartLock
<b>80563</b>	Fixed door handle controller not reporting correct open and close state
<b>82379</b>	Fixed defect when more than 12 sensors are connected to our sensor hubs
<b>82152</b>	Fixed false event error issue on disconnect and reconnect of Asset Management (AMS2) segment
<b>82450</b>	Fixed Asset Management (AMS2) user-defined RU names disappearing on reboot
<b>79668</b>	Fixed text wrapping issue in web GUI for the internal sensor states view
<b>81510</b>	Fixed communication error on primary unit after linked unit is rebooted
<b>82195</b>	Fixed onboard display not turning on with alert activities
<b>81184</b>	Fixed inconsistent outlet power state warnings issue
<b>81073</b>	Fixed incorrect error messaging for thresholds in CLI
<b>81072</b>	Fixed inconsistent messaging for warnings and errors when setting thresholds in web GUI

## Security Fixes & Updates

<i>Issue ID</i>	<i>Description</i>
<b>82042</b>	Updated OpenSSL to 3.0.9 (CVE-2023-2650)
<b>80998</b>	Disabled algorithm Diffie-Hellman-Group14-sha256 (CVE-2002-20001)
<b>81228</b>	Updated Dropbear SSH to latest version 2022.83

Please consult the appropriate User Guide for more information on these firmware features at [raritan.com/support](https://raritan.com/support).

## Support & Compatibility with Xerus 4.1.0

Except for some recent Engineered to Order (ETO) models, applicable units/models that are Xerus-based can be upgraded to this firmware release (see Applicability table above).

## Upgrade Matrix (Path for Upgrades)

This firmware release is intended for factory shipments and firmware upgrades on the units/models stated in the Applicability table above.

*Note:* Due to file system changes in Xerus 4.0.x, the following upgrade paths must be followed, or the Xerus-based device may become inoperable and require manual recovery.

<i>Firmware Version</i>	<i>Upgrade Steps</i>
<b>3.5.x, 3.6.x</b>	» 4.1.0
<b>4.0.x</b>	» 4.1.0

*Note:* Due to an issue found in recently released Xerus 4.0.x firmware updates, we strongly recommend that you upgrade to release 4.1.0 Build 49885. If you need assistance, please contact your regional Raritan Support team.

### Downloads

The following supplemental files can be downloaded at [raritan.com/support](http://raritan.com/support):

- Product Documentation and User Guides
- SNMP MIBs
- Related Tools and Drivers
- JSON-RPC SDK
- Redfish<sup>®</sup> Documentation

Historical firmware version downloads can be found on [raritan.com/support](http://raritan.com/support).

### Release Package Details

The Xerus 4.1.0 Firmware is a General Availability release package and will be posted on the Raritan support website at [raritan.com/support](http://raritan.com/support).

### Xerus 4.1.0 Package

- "Xerus\_ReleaseNotes\_4.1.0.pdf" (this file)
- A firmware release (binary): pdu-px2-040100-49885.bin

### General Upgrade Instructions (*stand-alone upgrade from the browser-based user interface*)

- Enable JavaScript in your browser before logging into the unit to start the upgrade process.
- Follow the instructions in the proper device User Guide. Please read the entire upgrade instructions before starting an upgrade.

If you have any questions or cannot follow the instructions in the User Guide, please STOP and contact Raritan Support for further instructions.

## Contact Us

Go to [raritan.com/support](https://raritan.com/support) for contact options.