

# Xerus Firmware Release Notes



---

**Version:** Xerus 4.0.20 / Build 49038 / Release Notes, Version 3

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

**Date:** December 16, 2022

---

## Release Overview

Xerus 4.0.20 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.

## Applicability

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

<i>Product Group</i>	<i>Model</i>
Rack PDUs	PRO3X

---

## General Guidelines for this Release

Some custom-engineered models may not be supported by this release. Please check the **Support & Compatibility** section below. Or, contact Server Technology Support 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:* Per [California Senate Bill 327](#), Xerus Firmware has updated its default password policy. Passwords must now be manually set on all new units running Xerus 3.6.0 (and later) or devices that are running Xerus 3.6.0 (and later) and have been factory reset before first use.

*Note:* Do NOT upgrade ANY other Server Technology PDU model(s) to Xerus 4.0.20 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 4.0.20, a downgrade from Release 4.0.20 Build 49038 to ANY prior firmware release is NOT SUPPORTED. Please contact Server Technology Support with any questions.

*Note:* For Sunbird® Power IQ® DCIM software users, Power IQ v8.0 and higher supports data collection only. Bulk configuration will not be supported until Power IQ v9.0 for all Xerus Firmware 4.x.

## Release Highlights

### New Products & Accessories Now Supported

<i>Issue ID</i>	<i>Description</i>
<b>74635</b>	New Dust/Particle SmartSensor™ (DX2-PS) reporting density value in $\mu\text{g}/\text{m}^3$
<b>76008</b>	New dual Dry Contact SmartSensor (DX2-D2)
<b>80032</b>	New Powered Dry Contact SmartSensor (DX2-PD2)
<b>72965</b>	New Contact Closure SmartSensor (DX2-D2C6)
<b>76065</b>	Newly Powered Dry Contact sensor with Contact Closure SmartSensor (DX2-PD2C5)
<b>71865</b>	Newly updated Proximity/Motion and Tamper SmartSensor (DX2-PIR)
<b>71691</b>	New Water/Leak SmartSensor kits: Water Rope SmartSensor (DX2-WSC-xx) and Water Floor SmartSensor (DX2-WSF-xx)
<b>71243</b>	New Differential Air Pressure SmartSensor (DX2-T1DP1)
<b>71245</b>	New Airflow SmartSensor (DX2-AF1)
<b>72560</b>	New Sensor Hub (DX2-ENVHUB4)
<b>70256</b>	Added support for two (2) new Dirak® door handles—Dirak eLine MLR2500 & MLR2500KP; MLR2500KP adds two-factor authentication support
<b>76523</b>	Added support for HID S20 with Dirak MLR1000 (combo only)
<b>73356</b>	New BD2000 Keypad (SML-KEYPAD-1)
<b>79812</b>	Added support for the Southco® H3-EM-99-609 door handle (for the Japan market)
<b>77964</b>	Added support for AMS2 asset strips

### New Features & Enhancements

<i>Issue ID</i>	<i>Description</i>
<b>66320</b>	New configuration of the interface-specific gateway. This brings new configuration options that will require changes in the initial deployment procedures. Please contact your regional Server Technology Technical Support team for help with the deployment of firmware 4.x.
<b>69006</b>	Local PDU Authorization features added for SmartLock
<b>69107</b>	Keypad interface now supported for SmartLock
<b>71610</b>	Added Spanish, French, and Italian language support
<b>73656</b>	Added support for TACACS+ authentication
<b>73724</b>	Added PDU model name in DHCP discover messages

<b>73802</b>	Alerted state notifications are now available via Modbus
<b>74257</b>	Added Bulk configuration filter for Modbus and Modbus Gateway
<b>74345</b>	Added Crest Factor support
<b>74436</b>	Added additional authentication/encryption protocols for SNMPv3
<b>74624</b>	Adjustable MTU size selections are now accessible via the GUI and CLI
<b>74707</b>	Added support for TLS Certification Chains
<b>74838</b>	Updated default TLS certification expiration
<b>74839</b>	Added creation of 3072-bit TLS key lengths
<b>74885</b>	Added Disable option for RADIUS authentication, authorization, and accounting
<b>75069</b>	Added door handle re-lock feature for SmartLock
<b>75152</b>	Added new privileges for viewing and changing door access rules (SmartLock)
<b>75209</b>	Timing enhancement was added for large raw configuration uploads
<b>75211</b>	New Redfish® API for power management support
<b>75254</b>	Added support for LLDP (Link Layer Discovery Protocol)
<b>75380</b>	Disabled the HMAC-SHA1 algorithm (Dropbear)
<b>75929</b>	Added Japanese language support
<b>76141</b>	Added USB-B port lockdown
<b>76161</b>	Added originating device information to an HTTP data push
<b>76552</b>	Removed Cisco® EnergyWise
<b>76760</b>	Added custom card information data format for HID iClass
<b>77024</b>	Disabled TLS AES CBC ciphers
<b>77049</b>	Added ED25519 public key support (SSH)
<b>77112</b>	Added support for HSTS (HTTP Strict Transport Security) by default (HTTPS)
<b>77125</b>	Added Min/Max sensor values
<b>78486</b>	Added Asix USB GbE dongle support
<b>78648</b>	Added PDU data support in Prometheus
<b>78680</b>	Added user configurable sizing for sensor data logging
<b>79127</b>	Added persistent sensor data logging with the use of a USB stick
<b>79406</b>	Extended the number of door handle rules from 64 to 256
<b>80421</b>	Added OpenLDAP update to 2.6.3
<b>80668</b>	Added support for main controllers with a Realtek RTL8363NB GbE switching PHY
<b>80719</b>	Improved exporting of data log

## Bug Fixes

<i>Issue ID</i>	<i>Description</i>
<b>76548</b>	Fixed an issue that prevented some SNMP traps to be sent to multiple locations/receivers
<b>76745</b>	Fixed issue where Water Rope SmartSensor (DX2-WSC) may generate false alarms
<b>76849</b>	Fixed Power Factor event Errors
<b>76935</b>	Fixed issue with server reachability feature and server shutdown command bug
<b>74882</b>	Fixed sensor assertion timeout issue
<b>74708</b>	Fixed SNMP polling issues when specific DCIM configurations are defined
<b>79399</b>	Fixed SNMP alerts in Fahrenheit

## Security Updates

<i>Issue ID</i>	<i>Description</i>
<b>76915</b>	Added OpenSSL update to 1.1.1j (CVE-2021-23841, CVE-2021-23840)
<b>77202</b>	Added OpenSSL update to 1.1.1k (CVE-2021-3450, CVE-2021-3449)
<b>77611</b>	Added DHCP client update to 4.4.2p1 (CVE-2021-25217)
<b>79114</b>	Added jquery update to 3.6.0 (CVE-2015-9251, CVE-2019-11358, CVE-2020-11022, CVE-2020-11023)
<b>79502</b>	Added OpenSSL update to 1.1.1n (CVE-2022-0778)
<b>79639</b>	Added zlib update to 1.2.12 (CVE-2022-25032)
<b>79641</b>	Added libxml2 update to 2.9.13 (CVE-2022-23308)

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

## Support & Compatibility with Xerus 4.0.20

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).

### Models Not Supported

The following Server Technology models are not supported by this firmware release:

- PRO2 models
- PRO1 models
- Sentry CDU models
- EMCU, EMTH, and EMWS Modules and Sensors

### Sunbird Power IQ & New Hardware Support

- DX2-DH2C2 (*SmartLock™ Door Handle Controller*) is compatible with Power IQ release 8.x.x and later.

If you are unsure that your Server Technology unit/model is supported by this Xerus Firmware release or have any questions about supported or unsupported configurations, please contact your regional Server Technology Support team at [servertech.com/support](http://servertech.com/support).

## 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, the following upgrade paths need to be followed or the Xerus-based device may become inoperable and require manual recovery.

<i>Firmware Version</i>	<i>Upgrade Steps</i>
<b>3.6.x</b>	» 4.0.20

### Downloads

The following supplemental files can be downloaded from [servertech.com/support/rack-pdu-firmware-downloads](http://servertech.com/support/rack-pdu-firmware-downloads):

- PRO3X 4.0.20 Release Notes
- PRO3X User Guide - Features
- PRO3X User Guide - Graphical User Interface
- PRO3X User Guide - Command Line Interface
- PRO3X User Guide - SNMP MIB
- PDU Network Connection Setup

### Release Package Details

The Xerus 4.0.20 Firmware is a General Availability release package and will be posted on the Server Technology support website at [servertech.com/support/rack-pdu-firmware-downloads](http://servertech.com/support/rack-pdu-firmware-downloads).

### Xerus 4.0.20 Package

- "Xerus\_ReleaseNotes\_4.0.20\_PRO3X.pdf" (this file)
- A firmware release (binary): spdu-pro3x-040020-49038.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 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 Server Technology Support for further instructions.

## Contact Us

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

©2022 Legrand®. All Rights Reserved. Trademarks are the property of their respective owners. The industry-leading brands of Ortronics, Raritan, Server Technology, and Starline empower Legrand's Data, Power & Control to produce innovative solutions for data centers, building networks, and facility infrastructures. Our division designs, manufactures, and markets world-class products for a more productive and sustainable future. The exceptional reliability of our technologies results from decades of proven performance and dedication to research and development.