

RELEASE NOTES for Power Xpert Dashboard Processor
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Software Version 2.4.1
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Build Date: 04/01/2022

These release notes are provided as a guide to Power Xpert Dashboard Processor

This document is not intended to be all-inclusive.

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1.0 Product Description

The Power Xpert Dashboard Processor(PXDBP) is the user portal to Eaton's Switchgear. The PXDBP provides the user with a touch screen interface showing the switchgear elevation and one-line diagram views of the switchgear line-up. The factory configured PXDBP will arrive at the customer site with all communicating switchgear devices connected and communicating. A local touchscreen HMI mounted on the wall or in a kiosk with line of sight visibility of the switchgear line-up will enable the end user to monitor, diagnose, and control switchgear devices from a safe location outside the arc flash boundary.

The Power Xpert Dashboard Processor provides following features:

- Software provides three modes of operation i.e. Monitoring, Control, and Configuration modes

Monitoring:

- Elevation view to monitor the complete Motor Control Center or switchgear line-up, showing the status of all circuit breakers (opened, closed, tripped), contactors, motors, and the bus status (energized or de-energized).
- Dynamic One-Line Diagram Views for LVA and MVA switchgear and Low Voltage Motor Control Centers
 - Auto-synchronize Views(Elevation and Oneline)
 - Compartment view details for all the devices in an MCC bucket.
 - Timeline View that displays the sequence of events for the MCC or switchgear line-up. Events include alarms, device status changes and service or maintenance items
 - Device Details View that displays the Status, Maintenance, Timeline, Trends of top 4 parameters, Documentation for the selected device
 - Alarm Details screen that displays the alarm information for the selected device
 - Monitor communication health for each individual smart component & alert on communication failure
 - Export Timelines, Trends, etc. to .csv file(s)

Control Mode:

- Access to authorized users only
- Enter control mode from Elevation, One-Line, or Transfer screens.
- Request confirmation, including PPE acknowledgement.
- Control operations supported - Open/Close breaker, Enable/Disable ARMs mode

Configuration Mode:

- Access to authorized users only
- Import switchgear configuration data from a file generated by Bidman/Design Automation systems at the assembly plants.
- Wizards for ease of configuration of motor starter and drive buckets
- Create or edit screens like elevation view, one-line diagram view etc.
- Provision to configure the alarm/warnings settings
- Manage user accounts
- Allow customers to enter procedures and PPE requirements.

- Provision to set parameter values into the communicating devices
- Access to Switchgear and device documents from the Docs tab on the Navigation menu
- A help document explaining the usage of the Power Xpert Dashboard Processor
- Remote Connectivity on the HMI by accessing the IP address of the PXDBP remotely.
- Transfer Scheme
 - Standard implementation of MTM and MM transfer schemes that uses the ELC PLC as the logic controller and the HMI for configuring, monitoring and manual transfer initiation.
 - Supports both Open and Closed Transition types.
 - Support for both Automatic and Manual transfer and re-transfer modes.
 - Select to Trip which is a manually initiated closed transition transfer.
 - Allows selection of the preferred source of power if both sources are available.
 - Ability to configure the Transfer Scheme system level settings and the PLC parameter settings.

2.0 System Requirements

Make Back-up of configuration files before uploading new build

2.1 Supported Browsers

The Power Xpert Dashboard Processor is viewable using any HTML5 compliant browser with local or network access

Chrome is recommended for the best user experience.

3.0 Compatible Devices

The Power Xpert Dashboard Processor will focus on LVA and MVA switchgear and LV Motor Control Centers with Eaton Protection and Metering products

4.0 New Features and Fixes

VERSION 2.4.0 (December 2018)

- Loading screen notification for all the screens.
- Support added for PXR ACB 20/25
- Support added for PXR MCCB 20/20D/25 for PD2,PD3,PD4,PD5,PD6

- Added capability to add devices on the same subnet as PXDBP IP Address (Network 2).
- Transfer complete alarm implementation.
- Addition of cross bus options for all sections.
- Handling oneline without main breakers.
- Transfer scheme support for MTTM configurations.
- Password protection for Open Breaker command.
- Improved application performance for large size lineups.
- Support added to capture power cycle events in Timeline.
- Added Oneline support for meters connected to Feeder Breakers.
- Improved elevation view support for Transformers connected on the right side of the lineup.
- Vertical scroll bar added to support scrolling of cards on Device Details for smaller screen widths or PXR MCCB Device.

VERSION 2.4.1 (January 2020)

- Added support to provide Arc Flash Boundary distance on Settings --> Safety screen.
- Added support for Current Limited LV Breaker on Oneline & Elevation view.
- Added option to disable Open/Close breaker commands when ARMS is enabled
- PXR MCCB firmware V 15 Changes for PD3 and PD4
- PXR ACB 2.2 version support
- Restrict NHH braker changes for MCCB V16 firmware and above
- Improved display of fire pump breaker on Oneline.
- Fixed a bug where widgets were overlapping on Oneline.
- PXR ACB breaker health remaining channel value issue fixed

VERSION 2.4.2 (March 2020)

- Separate setpoints permission requirement from password entry for control operations on PXR devices.
- Corrected issue preventing some log entries from displaying.

VERSION 3.0.1 (Oct 2018)

Initial Release

VERSION: LVMCC_2019.10.1 (Oct 2019)

New Feature Addition:

- Increased number of supported devices to 60 on Network 3 Port.
- Increased number of supported devices to 20 on Network 2 Port.
- Implemented 'Duplicate Bucket' feature, which allows the user to duplicate a bucket configuration in another compartment.

Improvements & Bug fixes:

- Application Performance improvements.
- Wizards bugs fixes.
- Removed arc flash boundary constant.

VERSION: LVMCC_2019.10.2 (Jan 2020)

Improvement & Bug Fixes:

- Improvement in saving I/O Mappings by displaying a message 'Saving Configuration' to user, on Finish wizard modal.
- Display the status as 'Unknown' on Oneline sidebar when neither breaker nor contactor inputs are configured.

VERSION Dashboard_2020.7.1 (July 2020)

- Merged Code for LVA/MVA and LV MCC Dashboards.
- Added IoT Cloud Support for PXDBP and connected devices.
- Added AQD device support.
- Added PXM 3000 device support.
- Added ASHRAE 90.1 Energy accumulation, trending and reporting
- Added Subdevice Integration on Device Tree.
- Added PXR setpoints changes for MCCB firmware version V01.02.0016 and above
- PXR trip log reporting added.
- Improved Running status channel support for Motor Soft starters and Drives.
- Implemented Reset and Acknowledge trip for FP5000.
- Added multiple Trip alarms acknowledgements for EDR 5000 & FP 5000.
- Restricted Trusted Host deletion when it is enabled for any of the Access Control fields.
- Single composite for Remote Racking and breaker.
- Remote racking composite structure auto upgrade to single composite for older configurations.
- Changed remote racking 'Reset Alarm' command to 'Reset RR Alarm' on composite Sidebar.
- Updated PX Red Toolkit (R12 - 3.19.5) release and Linux Kernel (4.14.111).
- Fixed issue related to Refresh modal appearance when permission is changed for a user-role.
- Fixed issue where expired user was allowed to login once.

VERSION Dashboard_2020.7.2 (November 2020)

New Feature Addition:

- Upgraded PXM 3000 EDS to the latest version.
- Added support for PX SPD Surge Protection Device.
- Added XML import feature for all MCC devices to support NTLT.

Improvement & Bug Fixes:

- Improved HMI responsiveness by fixing a composite memory issue.
- Fixed a control command confirmation timeout issue associated with elevated user permissions.

VERSION Dashboard_2020.7.3 (December 2020)

Improvement & Bug Fixes:

- Fixed bug preventing configuration of the active state of the UPS Alarm (fix for Channels with Boolean values and without multistate maps).
- Fixed issue on Document stack as Device ID & Compartment ID was not getting displayed.

VERSION Dashboard_2020.12.1 (December 2020)

#New Feature

- Addition of MQTT to support Dashboard Campus.

VERSION Dashboard_2021.3.1 (March 2021)

#New Feature

- Device Health card implemented for EMR 5000/4000/3000 devices.
- Added support for EMR Contactor symbol for the addition of EMR 5000/4000/3000 devices.
- Added Message Role addition support for Empty Compartment.
- Added MQTT Authentication feature for secure navigation between Dashboard Campus & downstream Dashboards.

Improvement & Bug Fixes:

- Fixed issue to display all the extras on the left navigation pane.

VERSION Dashboard_2021.6.1 (June 2021)

#New Feature

- Provided double wide section support required for a customer configuration.
- Provided Multiple composite addition support in a single compartment.
- Added support to disable devices.
- Provided PXR MCCB 1.3 support in online & offline mode.
- Provided PXR ACB Magnum 3.0 offline Setpoints support.

#Improvements & Bug fixes:

- Fixed 'Sort by Trip' issue on timeline issue.
- Fixed drawing issues related to customer configuration.

VERSION Dashboard_2021.12.1 (December 2021)

#New Feature

- Added Support for PXR Magnum with Remote Racking capability.
- Added support for Exertherm device.
- Added QR code feature on Login page
- Added support for PXR ACB Magnum 3.0 including Setpoints, Control commands and Trip log support.
- Added Maintenance mode Setpoint requirement Changes for PXR and Magnum device.

#Improvements & Bug fixes:

- Fixed default width issue for double wide section.
- Fixed wire name display issue on customer configuration.
- Fixed issue related to orphan device addition.

VERSION Dashboard_2022.3.1 (March 2022)

#New Feature

- Provided PXR Magnum (ACB 3.0) IoT support.
- Provided support for Exertherm Modbus Datacard & Exertherm MCC Modbus Datacard.
- Added Remote Racking support for Magnum PXR 3.0
- Allowed device commissioning without Control License for PXR Trip Units & mMint.
- Added setpoint support for PXR Magnum (ACB 3.0) for version 3.0.47

- Setpoint changes for MCCB PXR Firmware version 1.3.x

5.0 Known Issues

- Recommendations:
 - Before firmware upgrade export the configuration file. This file will need to be loaded if firmware is downgraded.
 - After a firmware update, a user having Change Settings permission should login first.
 - For Exertherm differential sensors, please use temperature unit as 'Celsius' in Units section, on Settings>General page.
- The One-line widget displays the device name of the device from which a command is added. The work around is to change the device name back to the original device name.
- The Source 2 bus wire may show a discontinuity when an MCC lineup is seperated by an Empty section after section 2.
- Setpoints : Should infer proper message when auto-link fails.
Work around : The setpoints stack needs to be reloaded to reflect the new value first before performing Save to Dashboard / Save to Device activity.
- Load and sub-load types not getting drawn correctly after xml import. Configure loads through the UI.
- After device addition if channels are not displayed on sidebar/widget, refresh the application.
- Last Full Voltage Contactor in MCC One-line may have a gap in the bus connection.
- While Enabling/Disabling ARMS on a breaker which does not have feeder wire connected to it, compartment name is not displayed in the dropdown.
Workaround: Do not select any option from the 'Enable ARMS On' dropdown & just click the Enable/Disable button to enable/disable ARMS.

Updated 04/01/2022