

doblePRIME 3.2

Introduction

doblePRIME™ is an advanced integrated condition monitoring system developed by Doble, for maximizing availability and return on investment of assets in power systems. Prime is the software application that runs on the doblePRIME Analytics and doblePRIME IDD modules.

What's New in Version 3.2

- Descriptions added to Ethernet interfaces under **System Configuration**, which label interfaces as internal or external. Internal Ethernet interfaces should not be edited.
- Added support for the 5TI GPIO module for Calisto T1 monitors.
- HMI interface support added for Calisto N1/T1 monitors. This interface allows for viewing of measurement readouts, alerts, IP address, and traces.
- Updated System Status page; added TCP/Serial port numbers and a refresh button.
- Removed TCP connection mode from network options for Calisto H1 monitors.
- Added an option on the System Configuration page to view the size of the entity tree. This change was made to help users determine the amount of data in the database.
- Added an option on the System Configuration page to download system logs.
- Added support for TEV sensor preset for PDGuard devices.
- Exported bushing data now includes RPF and related capacitance trends, in addition to TPF.
- **Security Updates:**
 - Cross site scripting vulnerabilities were remediated.

Version 3.1

- Added the functionality to send alerts by email. Note: Only secure email connections are supported.
- Alerts may now be set for both ascending and descending thresholds.
- The Calisto H1 monitor now has built-in support.

- Watts Loss Calculation added to bushing **Data** tab. This calculation computes the amount of watts that are lost due to a bushing's power factor and capacitance. Watts Loss can be viewed on the performance graph, or under its own data tab labeled either **Watts Loss**, or **Watts Loss (TPF)**, depending on if your bushing is configured for relative power factor or true power factor. The **Watts Loss** tab can be used to view average trends by daily, weekly, and monthly intervals.
- This release will monitor the built in battery and generate an alert if the battery needs to be replaced. Note: Battery status not supported on x86 (Analytics) platforms currently.
- Added **Data Maintenance** sub-tab to the **System Configuration** tab. **Data Maintenance** provides features for deleting unused data sources, and purging data with future timestamps to avoid data sync conflicts.
- Added Database Sync feature. This feature checks a data source's firmware at the time of its creation, and the data source creation will fail if its firmware does not match that of doblePRIME.
- Configuration Archive feature now assigns unique IDs to new IDD's that are applied with archived configurations to avoid data sync conflicts.
- Every entity on every device now has two identifiers: one at the substation level, and one at the asset level. This change was made to avoid database conflicts.
- Limited support for downgrading to an older release. Note that this will require reinitializing the database on the device being downgraded. It will also require a special downgrade-enabled installer file. Contact Doble customer support for assistance with downgrading.
- Upgrading procedure for configurations that have data sources:
 - Remove all sources from analytics device.
 - Upgrade each device individually.
 - Run the Migration Tool on all devices individually including the Analytics device.
 - On the analytics device Delete Data Source Stale data for all sources.
 - Re-add all the sources to the analytics device.
- Default firewall settings have changed. Firewall port 3306 is now closed by default. After upgrading to 3.1, you must reopen this port manually in the system configuration page if you wish to use it.
- Fixed an issue in which Archive restore version checking was not functioning as intended. Archive restore may fail and display the message "Product version in archive (**archive version**) can't be newer than the installed version (**current version**)."
- **Security updates:**
 - Cross site scripting vulnerabilities were remediated.
 - A new security feature for login has been added which adds increasing lockouts for successive login failures.
 - Javascript Injection Vulnerability in few input fields has been fixed.
 - "Directory Traversal Vulnerability" in root directory has been fixed.

- Updated Bootstrap version to 3.4.1
- Updated jQuery version to 3.6.0
- Upgraded OpenSSH packages to latest supported version (v1:7.2p2-4ubuntu2.10)

Note: Due to code updates, users must clear their browser cache for proper operation.

Known Limitations

- Bushing sets must be placed under transformer(s) in the order of a group on the dashboard view. If bushing sets are placed at the root level of a group, its data will be unable to display on the dashboard.
- This release does not support multiple levels of sources. In other words; a device cannot have sources added to it and also be a source to another device.
- Older hardware (CM1 IDD) is not currently supported for downgrading.
 - You can identify a CM1 IDD because it has one RS-485 port, whereas newer hardware has two.
- When upgrading CM1 devices, upgrading via USB is recommended. This is due to the smaller disk space available on these older devices.
- When deleting Data Source Stale Data for removed sources, only delete 4 hosts at a time.
- When updating via USB Flash Drive the device must be formatted with FAT32 filesystem. NTFS is not supported. Also; the USB drive may need repairing after removing from device.
- The special characters "<" and ">" are no longer allowed in asset names.
- Configuration clone and configuration archive do not restore all settings (firewall, nameplate, stationbus, ASM)
- The 4-20MA interface on the T1 monitor may discard valid data randomly.
- Invalid client role error after restoring clone configuration from 2.8.11
- After running Data Migration tool, ASM configuration settings are not preserved.
- After updating from 2.9 or 3.0 to 3.1, ASM is disabled, though settings are retained.
- Analytics tab: Drop-down for channels not available for Calisto channel group
- Modbus Generic monitor Templates can become corrupted in some circumstances
- After migration alerts need to be remapped in the monitor for Calisto devices.

Caution: Interrupting the update process can make the device inoperable.

Revision History

Date	Revision	Description
3/2022	AB	Updated document for 3.2 release.
10/2021	Y	Added a new section for security fixes.

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