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1 Release Scope

This release notification covers the following:


<input type="checkbox"/>	Product	Version
<input type="checkbox"/>	Siemens Connect	
<input checked="" type="checkbox"/>	CMR Connect	SW1.2.00
<input checked="" type="checkbox"/>	RCU Connect	SW1650
<input checked="" type="checkbox"/>	RCU Probe	SW1640
<input type="checkbox"/>	Fusesaver firmware	
<input type="checkbox"/>	Sectionalizer (for Fusesaver) firmware	
<input type="checkbox"/>	Comms module firmware	
<input checked="" type="checkbox"/>	CMR firmware (incl Sectionalizer Support)	FW2100
<input checked="" type="checkbox"/>	CMR firmware bootloader	BL10
<input checked="" type="checkbox"/>	RCU CMR firmware	FW2002
<input type="checkbox"/>	RCU Fusesaver firmware	
<input checked="" type="checkbox"/>	SOS-DMC (Siemens Cloud Service)	V3.4.2

Available from <https://sosdmc.siemens.cloud>

RELEASE CLASSIFICATION **MAJOR**

2 Coverage

Region	WORLD-WIDE
Customers	ALL
Applicable Product Types	RCU (3AD8800) with serial numbers 2000000+ All CMR (3AD7) serial numbers RCU Connect RCU Probe SOS-DMC (Siemens Cloud Service)

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3 Release Description

The product versions covered in this release adds the following new functionality for the CMR (Compact Recloser):

- Hot-Line Tag
- Restoration Assist
- Voltage and Frequency Protection
- Load Profile Recording

Siemens recommends keeping software updated to the latest version to ensure the most reliable/consistent performance.

4 CMR Firmware – Changes

This release (FW2100) covers the following new features, enhancements and bug fixes, refer the Compact Recloser Configuration Manual for a more detailed explanation of the new features.

4.1 Hot-Line Tag

Description: Hot-Line Tag functionality added which when activated (via Red Handle or SCADA) will change protection to group 1 with auto-reclose disabled (single-shot mode).

Classification: B12 – New Feature

4.2 Restoration Assist


Description: Restoration Assist feature added which when enabled will automatically trip the device (or devices) as soon as the specified recognition (outage) time is exceeded.

Classification: B12 – New Feature

4.3 Voltage & Frequency Protection

Description: The Compact Recloser now supports Voltage & Frequency Protection, where the device will trip if Voltage or Frequency drifts out of specified configured limits.

Classification: B12 – New Feature

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4.4 Load Profile / System Data

Description: The Compact Recloser can now be configured to record system values such as Line Voltage, Line Current, Line Power, Device Temperature, Device Battery Voltage. This data is accessible via CMR Connect SW1.2.00 or later.

Classification: B12 – New Feature

4.5 Fault Reporting Events.

Description: The fault data reported in the event log has been enhanced with the addition of peak fault current (in addition to the existing average fault current)

Classification: B11 – Change

4.6 Sensor Improvements.

Description: Changes have been made to sensor / monitoring functions to avoid nuisance alarms/error messages:

- Capacitor Charge Errors event → Now corrected to only report if there is a charging issue over a 10 minute period.
- Actuator Error event → Improvement around the position sensor monitoring which feeds into the actuator status.


Classification: B10 – Enhancement

4.7 Other Firmware Improvements.

Description: Various Enhancements / Updates:

- Improved Frequency Measurement Accuracy
- GPS time setting improvements
- Operating System task prioritisation improvements
- Low battery alarm was recalibrated.
- New bootloader (BL10) to support/secure all firmware versions.
- Other minor corrections

Classification: B10 – Enhancement

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5 SOS-DMC – New feature support

5.1 CMR Configuration Version 4

Description: New Configuration Version 4 added, to include configuration settings for the new features added above (4.1 → 4.4). Configuration Version 4 requires a CMR with firmware FW2100 or later.

Classification: B12 – New feature

5.2 Other Enhancements.

Description: Various other enhancements/changes including:

- CMR Configuration Versions now also indicate which firmware they are compatible with.
- System/Structural changes preparing for future functionality.
- Other cosmetic changes.

Classification: B12 – New feature

6 CMR Connect – Changes

6.1 Support for FW2100

Description: CMR Connect SW1.2.00 supports the new/enhanced features contained in CMR firmware FW2100. (Refer section 4 above). CMR Connect SW1.2.00 will support all CMRs with firmware up to and including FW2100.

Classification: B12 – New Feature

6.2 Load Profile Data (system data)


Description: CMR Connect SW1.2.00 has added the ability to download data logs (via the Operate Line screen → Load Profile), and the ability to view the data downloaded (via Home Page → Load Profiles). Refer 4.4 above for the list of system data available.

Classification: B12 – New Feature

6.3 Low Battery Alert


Description: CMR Connect (SW1.2.00) will now pop-up a low battery message if any connected device is reported with low battery.

Classification: B10 – Enhancement

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6.4 Other Enhancements

Description: Various other improvements and enhancements:

- Operate Line Screen - Protection Status Information as a tool tip 
- Update Device Screen - Incompatible Configuration Files are disabled (greyed out).

Classification: B10 – Enhancement

7 RCU Firmware / Software Changes

7.1 RCU Firmware FW2002

Description: New RCU firmware (FW2002) released:

- Support new features in CMR FW2100
 - o Addition of Peak Fault Current reporting
 - o Frequency Reporting per Phase
 - o Restoration Assist Trip - Points Added
 - o Zone Sequence Coordination Trip - Points Added
 - o Hot Line Tag – Points/Controls Added
- Supports Latest ANT Hardware
- Various other minor enhancements

Classification: B12 – New Feature

7.2 RCU Software

Description: RCU Connect SW1.6.50 & RCU Probe SW1.6.40:


- Support new features in RCU FW2002 & CMR FW2100

Classification: B12 – New Feature

8 Compatibility

The following compatibilities are valid:

- CMR Firmware FW2100 is compatible with all CMR models, and requires bootloader version 10 (BL10) to be installed prior.
- CMR Connect SW1.2.00 supports all CMRs and all firmware up to FW2100.
- CMR Connect SW1.2.00 is mandatory for connecting to and configuring CMRs with FW2100, or for upgrading CMRs to FW2100.
- RCU FW2002 can only be installed on RCUs with serial numbers from 2000000.
- RCU FW2002 is compatible with CMR firmware version FW2100
- Upgrading an RCU to FW2002 for CMR support requires it to have FW1632 or higher installed prior, to ensure the correct bootloader is available.

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- RCU Connect SW1.6.50 and RCU Probe SW1.6.40 are required for RCUs with FW2002.

9 Installation

- Download the firmware/software installer and documentation from the Siemens outdoor systems data management cloud at <https://sosdmc.siemens.cloud>
- For the PC software, it is recommended to uninstall any previous versions of the software before installing the new version.

10 Contact

Please contact your local Siemens office for support.

The global headquarters for Overhead Medium Voltage Solutions can be contacted via this email address:

fusesaver.au@siemens.com