

MCS Release Note

Product Type: MCS-Connect Software Revision: 19.01.17c

Release Date: March 9, 2026

Release 19.01.17c - Monday, March 9, 2026 Log:

Summary:

- Release 19.01.17c addresses critical bug fixes including array indexing exceptions, device initialization issues, and keystore generation failures. The release introduces DPRV control functionality for improved valve regulation and implements Sequential Protocol support. Multiple enhancements improve broadcast scanning, firmware transmission, device detection, and alarm management across V14 and V19 device lines.

Bug Fixes:

- Fixed ArrayIndexOutOfBoundsException occurring during SI Grid initialization and refresh operations.
- Fixed thread handling issues when accessing devices during active network scanning operations.
- Corrected broadcast IP range scanning functionality including network interface address retrieval and datagram socket configuration.
- Improved hex file transmission in the firmware loader with refined data handling and transmission timing to prevent overruns.
- Optimized thread sleep intervals during Ethernet remote scanning to improve scanning reliability.
- Corrected release date display in the About section.
- Fixed thread sleep time configuration in FirmwareLoader to prevent extended firmware load durations.
- Fixed device selection logic to ensure correct device is targeted during operations.
- Corrected PMGR Chiller Offline alarm threshold calculation.
- Fixed Heating Control On state to reference correct heating setpoint instead of cooling target.
- Corrected default return value for configuration types at software version 1900 and above.
- Resolved null pointer exceptions by adding default string values to MCSDefs.
- Fixed V19 device detection for proper extended history validation.

Major Bug Fixes:

- Fixed application crash when saving new alarm alert setups with missing keystore file. Keystore is now correctly generated and persisted.
- Corrected RAM size configuration for Magnum v14 devices that caused display issues in the Connect application.

Enhancements:

- Added MAKE_ME_RESPONDER_REQ constant for protocol configuration.
- Fixed compressor timeout and sequential configuration for RS485 EEPROM

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storage.

- Refactored V19 extended lockout data retrieval with support for snapshot-based data exports.
- Corrected V11 SI RAM status data alignment.
- Added exception protection for V14 heating stage grid refresh operations.
- Updated Modbus data type handling for V19 sensor configurations.
- Renamed Sequential Protocol terminology from Initiator to Sequencer and Responder to Slave for improved clarity across UI and status reporting.
- Refined Sequential Protocol status logic to accurately identify and display Slave Listening state based on device role configuration.
- Expanded VFD and MBC fault and alarm display support for V14 and V19 devices including Danfoss, Bitzer, and Delta modules.
- Refined CHW and HTW valve status logic in V19 devices for accurate representation in 2-pipe system configurations.
- Adjusted Main UI scroll pane dimensions and added new alarm header sections.
- Simplified valve state logic in CPMTable3 using boolean flags for CHW, HTW, HRC, and condenser water valve determination.
- Enhanced User Defined SI Control interface with improved visibility and data handling across device versions.
- Added lockout condition validation in Plant Manager configurations.
- Integrated valve failure status into chiller state determination logic.
- Improved IP range adaptation and removed unnecessary scanning loops.
- Enhanced casting operations with improved error message customization for V19 validations.
- Optimized postmaster request handling.

Features:

- Added DPRV control functionality with dedicated configuration editor for proportional, integral, and derivative gain parameters.
- Updated AO DPRV control to support valve percentage adjustment and target offset configuration.
- Implemented Sequential Protocol with RS485 Eerom structure, UI elements, runtime status payload, and polling logic.

Additions:

- Added touchscreen version display under keypad version in site information using battery message field data.
- Added two new operands and two new operators to User Logic Modal in RO configuration interface.
- Added alarm alert password update script to facilitate credential management for encrypted alert configurations.