

MCS Release Note

Product Type: MCS-Config Software Revision: 19.01.46

Release Date: June 24, 2026

Summary:

- This release addresses several bugs in V19 BMS setpoint alarm type assignments, user-defined Sensor Input form dropdowns, and analog output control references. A new cooling disable Sensor Input column has been added to the NitroMag LWC V19 chiller grid. Additional changes improve form tab visibility, LonTalk setpoint handling, N2 address initialization, and sequencer device address validation.

Bug Fixes:

- Corrected the alarm type offset for V19 BMS setpoints 231 through 255. These setpoints were being assigned alarm types in a range reserved by firmware for sensor-input alarms due to an incorrect offset value. The offset has been corrected so setpoints 231-255 map to the expected alarm types. This fix also applies to CSV exports and printed reports, which read from the same data. Setpoints 1 through 230 are unaffected.
- Fixed an issue in the user-defined Sensor Input form where the analog output data combo dropdowns always appeared empty. The controls were not set up to load their data on open, so the dropdown lists would never populate. They now correctly load from their respective data sources.
- Updated internal references for several analog output operand controls that had been renamed. The validation and data loading logic was still referencing the old control names, causing incorrect behavior. References have been corrected throughout the form.
- When certain operand types such as "Input from Analog Output" or "Input from Remote Output" were deselected in the user-defined Sensor Input form, the operand type field was left blank or in an invalid state. It now defaults to "Fixed Value 0" with a value of 0, ensuring a consistent and valid state.
- When an operator in the user-defined Sensor Input configuration is set to "None", subsequent operator selection controls are now correctly hidden. If a preceding operator is selected, its dependent control becomes visible. This ensures the interface behaves consistently when configuring multi-operator SI logic.

Patches:

- Adjusted the layout of the condition type dropdown in the NitroMag HVAC form.

Additions:

- A new column has been added to the NitroMag LWC V19 chiller grid, allowing users to select a Sensor Input to act as a starting cooling disable switch for each loop.

Untagged Changes:

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- The starting cooling disable switch field is now correctly carried over during V17 to V19 configuration conversion and defaults to "Not Used" in the V19 chiller grid. Subcooler and phase loss warning prompts are now restricted to HVAC and Centrifugal configuration types only.
- The "PMGR Device Points" tab is now only visible when using a CPM configuration type, reducing irrelevant options in other configurations. LonTalk setpoint handling for LWC configurations now correctly initializes the setpoint index mapping, preventing out-of-range errors and ensuring correct setpoint name resolution.
- When no Analog Outputs are present, the address counter for N2 Ana_Output was not being reset, causing subsequent device addresses such as chiller states to be numbered incorrectly. The counter is now correctly reset based on the actual Analog Output count, ensuring addresses consistently begin from 1 regardless of Digital Output count.
- Removed an explicit rule that was hiding the circuit states grid for RTU configuration types.
- The upper limit for the maxUnits property is now formally defined and consistently applied in validation. This prevents out-of-range values and ensures alignment with UI controls and device addressing constraints.
- Device address validation against maxUnits is now only applied when a unit is configured as a sequencer initiator. When maxUnits is reduced or a unit transitions to sequencer mode and the current address exceeds the new limit, the address is automatically reset to 1. This prevents stale out-of-range address values and improves user feedback during configuration changes.