

MCS Release Note

Product Type: MCS-Config Software Revision: 19.01.40

Release Date: April 20, 2026

Release 19.01.40 - Monday, April 20, 2026 Log:

Summary:

- This release introduces new autotune configuration capabilities for NitroMag V19, including UI controls, EEPROM structure updates, and condenser type expansions. A default scan interval increase for BMS gateway CSV generation is also included, along with a patch to ensure proper field initialization during legacy configuration conversion.

Patches:

- When converting legacy Magnum configurations to the V19 format, new DPRV and autotune fields are now properly initialized with default values to prevent unpredictable behavior.

Features:

- NitroMag V19 now supports control bias selection via the UI, and the HTW run switch is correctly initialized during Magnum to V19 conversion.
- UI support has been added to enable Autotune EXV and Autotune Condenser options within circuit configuration, including expanded condenser layout and updated control register logic.
- The Autotune EXV enable setting has been moved to a different control register with an updated bit assignment to resolve a bit conflict.
- A new autotune duration field has been added to the V19 EEPROM structure for both target and linear controller types, with memory layout preserved.
- The V19 User Defined Target AO form now includes an Autotune Enabled checkbox and an Autotune Interval field for configuring the autotune PID feature.
- The V19 User Defined Target AO form now loads autotune settings from stored configuration on open, validates the autotune interval between 0 and 254 minutes, and saves changes when the checkbox or interval is updated.
- Two new condenser control types have been added to NitroMag V19: PID Binary Modulating Individual and PID Binary Modulating Step Common. The condenser type selection grid has been expanded and the V19 HVAC central form handles visibility and configuration for these new modes.

Additions:

- The default BMS gateway CSV scan interval for V17 configurations has been increased from 1 second to 5 seconds across N2, Lontalk, and BACnet protocols to improve performance. For specific point types, the 5-second interval applies to V17 configurations only, while earlier versions retain the 1-second interval