

# MCS Release Note

**Product Type: MCS-Connect Software Revision: 19.01.21b**

**Release Date: July 23, 2026**

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## **Release 19.01.21b - Thursday, July 23, 2026 Log:**

### **Summary:**

- This release introduces comprehensive cloud alarm notification capabilities with secure installation registration, email verification, and multiple authentication methods. Additional enhancements improve device discovery, user interface responsiveness, and robustness of sequential control features for V19 systems.

### **Bug Fixes:**

- Corrected sensor display unit conversion in V14, V19, and V17 systems
- Fixed "Control On" sensor value conversion and determination logic in V17 systems

### **Enhancements:**

- Restored cloud alarm notifications upon application restart
- Optimized user interface table refresh to prevent display of stale data
- Extended network device discovery limit to support up to 80 devices

### **Features:**

- Established foundational data structures and secure credential management for cloud alarm notifications
- Implemented HTTP communication for transmitting alarm events to cloud service
- Created robust alarm queuing, persistence, and automatic retry system to ensure alarm delivery despite network interruptions
- Prevented code obfuscation of cloud alarm service classes to maintain compatibility with external systems
- Implemented real-time status display for alarm delivery attempts covering all notification methods
- Introduced routing logic to prevent duplicate alerts when cloud notifications are configured
- Enhanced alarm payload format to support multiple data representation standards for improved compatibility
- Added progress display during extended data retrieval operations
- Implemented secure certificate enrollment for mutual TLS authentication with cloud service
- Extended cloud notification configuration to support bearer token, API key, and mutual TLS authentication modes
- Implemented installation registration and unique identifier management for cloud alarm authentication
- Introduced user workflow for verifying and managing recipient email addresses

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- Implemented test alarm capability to verify recipient delivery
- Securely stored installation credentials with concurrent-access protection
- Implemented recovery mechanism for lost installation authentication tokens
- Enhanced sequential control data structures with additional device tracking and timing information
- Implemented backward-compatible data parsing to support both current and legacy sequential control formats
- Enhanced sequential control display with new device tracking, stage timing, and control capacity information
- Added robust error handling to prevent crashes during sequential control value display
- Implemented Proportional, Integral, and Derivative control parameters for sequential protocol with dedicated configuration interface
- Refactored sequential control configuration structures for improved clarity while maintaining backward compatibility
- Overhauled sequential control settings interface with improved error handling and data loading robustness
- Added foundational engineering documentation for cloud notification rollout and related procedures
- Improved alarm timestamp interpretation robustness
- Enhanced alarm archive filenames with descriptive, sanitized formatting