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BACnet Testing Laboratories Product Listing

BACnet functionality in each Listed product has been successfully tested at a Recognized BACnet Testing Organization utilizing the industry standard BTL test suite and test policies that were current at the time it was tested. For Listings with multiple products, some products may have less functionality than is indicated by the Listing document. The PICS document provides information on the specific functionality of each product. Note that PICS documents on the BTL Listings site are provided by the manufacturer and are not independently verified by BTL.

Listing Information (BTL-30896-1)

| | | |
|---------------------------------------------------------------------------|--------------------------|----------------|
| Vendor | | Listing Status |
| Johnson Controls Inc. 507 E. Michigan St Milwaukee, WI 53202 USA | | Listed Product |
| Test Requirements | BACnet Protocol Revision | Date Tested |
| Requirements as of February 2021 | Revision 18 | March 2022 |

| Product Name | Model Numbers | Firmware version |
|---------------------------------|-----------------------------------------------------------------|------------------|
| Network Automation Engine (NAE) | MS-NAE5510-3, MS-NAE5511-3, MS-NAE5520-3, MS-NAE5521-3 | 12.0.0.3189 |

Device Profiles

| Profile | Model Numbers |
|---------------------------------------------------------------------------------------------------|---------------|
| BACnet Building Controller (B-BC) BACnet Router (B-RTR) BACnet Secure Connect Hub (B-SCHUB) | All models |

BIBBs Supported

| | | |
|--------------|--------------------------------|-----------|
| Data Sharing | ReadProperty-A | DS-RP-A |
| | ReadProperty-B | DS-RP-B |
| | ReadPropertyMultiple-A | DS-RPM-A |
| | ReadPropertyMultiple-B | DS-RPM-B |
| | WriteProperty-A | DS-WP-A |
| | WriteProperty-B | DS-WP-B |
| | WritePropertyMultiple-A | DS-WPM-A |
| | WritePropertyMultiple-B | DS-WPM-B |
| | Change Of Value-A | DS-COV-A |
| | Change Of Value-B | DS-COV-B |
| | Change Of Value Property-A | DS-COVP-A |
| | Change Of Value Property-B | DS-COVP-B |
| | Change Of Value Unsubscribed-A | DS-COVU-A |
| | Change Of Value Unsubscribed-B | DS-COVU-B |

| | | |
|------------------------------|--------------------------------|-----------|
| Alarm and Event Notification | Notification-A | AE-N-A |
| | Notification Internal-B | AE-N-I-B |
| | Notification External-B | AE-N-E-B |
| | Acknowledge-A | AE-ACK-A |
| | Acknowledge-B | AE-ACK-B |
| | Alarm Summary-A | AE-ASUM-A |
| | Alarm Summary-B | AE-ASUM-B |
| | Enrollment Summary-B | AE-ESUM-B |
| | Information-A | AE-INFO-A |
| | Information-B | AE-INFO-B |
| | Alarm Summary View-A | AE-AS-A |
| | Configurable Recipient Lists-B | AE-CRL-B |

| | | |
|------------|-------------------|------------|
| Scheduling | Internal-B | SCHED-I-B |
| | External-B | SCHED-E-B |
| | Weekly Schedule-A | SCHED-WS-A |

| | | |
|----------|--------------------------------------------------|------------|
| Trending | Viewing and Modifying Trends Internal-B | T-VMT-I-B |
| | Viewing and Modifying Trends External-B | T-VMT-E-B |
| | Automated Trend Retrieval-B | T-ATR-B |
| | Viewing and Modifying Multiple Values Internal-B | T-VMMV-I-B |

| | | |
|-----------------------------------|----------------------------------|-----------|
| Device Management | Dynamic Device Binding-A | DM-DDB-A |
| | Dynamic Device Binding-B | DM-DDB-B |
| | Dynamic Object Binding-A | DM-DOB-A |
| | Dynamic Object Binding-B | DM-DOB-B |
| | DeviceCommunicationControl-B | DM-DCC-B |
| | TimeSynchronization-A | DM-TS-A |
| | TimeSynchronization-B | DM-TS-B |
| | UTCTimeSynchronization-A | DM-UTC-A |
| | UTCTimeSynchronization-B | DM-UTC-B |
| | ReinitializeDevice-B | DM-RD-B |
| | Backup and Restore-B | DM-BR-B |
| | Restart-A | DM-R-A |
| | Restart-B | DM-R-B |
| | List Manipulation-A | DM-LM-A |
| | List Manipulation-B | DM-LM-B |
| | Object Creation and Deletion-B | DM-OCD-B |
| | Automatic Time Synchronization-A | DM-ATS-A |
| | Manual Time Synchronization-A | DM-MTS-A |
| | Router Configuration-B | NM-RC-B |
| | BBMD Configuration-B | NM-BBMD-C |
| Secure Connect Direct Connect - A | NM-SCDC-A | |
| Secure Connect Direct Connect - B | NM-SCDC-B | |
| Secure Connect Hub-B | NM-SCH-B | |

Object Type Support

| | | |
|-----------------------|------------------------|-------------------|
| Accumulator | Analog Input | Analog Output |
| Analog Value | Averaging | Binary Input |
| Binary Output | Binary Value | Calendar |
| Characterstring Value | Command | Device |
| Event Enrollment | File | Group |
| Integer Value | Life Safety Point | Life Safety Zone |
| Load Control | Loop | Multi-State Input |
| Multi-State Output | Multi-State Value | Network Port |
| Notification Class | Positive Integer Value | Program |
| Pulse Converter | Schedule | Trend Log |
| Trend Log Multiple | | |

Data Link Layer Options

| | |
|---------------------|-----------------------------------------------------------------|
| Media | Options |
| BACnet/IP (Annex J) | BBMD Register as Foreign Device BACnet/IP, 'DIX' Ethernet |
| MS/TP Master | 9600, 19200, 38400, 76800 |
| BACnet/SC | Hub |

Character Set Support

| |
|--------------------|
| ISO 10646 (UTF-8) |
| ISO 10646 (UCS-2) |
| IBM/Microsoft DBCS |