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BACnet Testing Laboratories Product Listing

This product has been tested at a qualified BACnet Testing Laboratory and found to comply with all the necessary interoperability requirements in place on the published test date. This listing represents the tested capability of the Listed Products. For information on additional functionality that was not covered in the test process, refer to the Manufacturer's PICS statement on the BACnet International website.

Listing Information (BTL-30404)

| | | |
|----------------------------------------------------------------------|--------------------------|----------------|
| Vendor | | Listing Status |
| Johnson Controls 507 E Michigan St. Milwaukee, WI 53202 USA | | Listed Product |
| Test Requirements | BACnet Protocol Revision | Date Tested |
| Requirements as of May 2018 | Revision 15 | December 2018 |

| Product Name | Model Numbers | Firmware version |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Network Automation Engine | MS-NAE5510-3G, MS-NAE5520-3, MS-NAE5520-3G, MS-NAE5510-2, MS-NAE5510-2G, MS-NAE5520-2, MS-NAE5520-2G, MS-NAE551S-2, MS-NAE551S-3 | 10.0.0.1324 |

Device Profiles

| Profile | Model Numbers |
|-----------------------------------|---------------|
| BACnet Building Controller (B-BC) | All models |
| BACnet Router (B-RTR) | 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 Internal-B | AE-N-I-B |
| | Acknowledge-A | AE-ACK-A |
| | Acknowledge-B | AE-ACK-B |
| | Alarm Summary-B | AE-ASUM-B |
| | Enrollment Summary-B | AE-ESUM-B |
| | Information-B | AE-INFO-B |
| | 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 |
| | 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 | |

| | | |
|--------------------|------------------------|---------|
| Network Management | Router Configuration-B | NM-RC-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 | 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 |
| MS/TP Master | 9600, 19200, 38400, 76800 |

Networking Options

| Networking Functionality | Media |
|--------------------------|----------------------------|
| Router | BACnet/IP (Annex J), MS/TP |
| BBMD | BACnet/IP (Annex J), MS/TP |

Character Set Support

| |
|---------------------------------------------|
| ISO 10646 (UTF-8) |
| ISO 10646 (UCS-2) |
| Microssoft Double-Byte Character Set (DBCS) |