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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-31596)

|                                                                                                           |                          |                |
|-----------------------------------------------------------------------------------------------------------|--------------------------|----------------|
| Vendor                                                                                                    |                          | Listing Status |
| Matrix iControl Sdn Bhd<br>10 Jalan DBP, Dolomite Business Park<br>68100 Batu Caves, Selangor<br>Malaysia |                          | Listed Product |
| Test Requirements                                                                                         | BACnet Protocol Revision | Date Tested    |
| Requirements as of February 2024                                                                          | Revision 16              | November 2025  |

| Product Name | Model Numbers                                                                                            | Firmware version |
|--------------|----------------------------------------------------------------------------------------------------------|------------------|
| MIC-S-N4     | MIC-S-N4-0,<br>MIC-S-N4-1,<br>MIC-S-N4-2,<br>MIC-S-N4-3,<br>MIC-S-N4-10,<br>MICS-N4-100,<br>MIC-S-N4-UNL | 4.14.3.24        |

### Device Profiles

| Profile                                                                                                                                                                              | Model Numbers |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| BACnet Advanced Operator Workstation (B-AWS)<br>BACnet Router (B-RTR)<br>BACnet Gateway (B-GW)<br>BACnet Broadcast Management Device (B-BBMD)<br>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 |
|              | View-A                         | DS-V-A    |
|              | Advanced View-A                | DS-AV-A   |
|              | Modify-A                       | DS-M-A    |
|              | Advanced Modify-A              | DS-AM-A   |

|                              |                                |           |
|------------------------------|--------------------------------|-----------|
| Alarm and Event Notification | Notification-A                 | AE-N-A    |
|                              | Notification Internal-B        | AE-N-I-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 |
|                              | View Notifications-A           | AE-VN-A   |
|                              | Advanced View Notifications-A  | AE-AVN-A  |
|                              | View and Modify-A              | AE-VM-A   |
|                              | Advanced View and Modify-A     | AE-AVM-A  |
|                              | Alarm Summary View-A           | AE-AS-A   |
|                              | Event Log View-A               | AE-ELV-A  |
|                              | Event Log View and Modify-A    | AE-ELVM-A |
|                              | Configurable Recipient Lists-B | AE-CRL-B  |

|            |                            |             |
|------------|----------------------------|-------------|
| Scheduling | Advanced View and Modify-A | SCHED-AVM-A |
|            | View and Modify-A          | SCHED-VM-A  |
|            | 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-A             | T-ATR-A   |
|          | Automated Trend Retrieval-B             | T-ATR-B   |
|          | Viewing and Modifying Multiple Values-A | T-VMMV-A  |
|          | Automated Multiple Value Retrieval-A    | T-AMVR-A  |
|          | View-A                                  | T-V-A     |
|          | Advanced View and Modify-A              | T-AVM-A   |
|          | Archival-A                              | T-A-A     |

|                   |                                  |             |
|-------------------|----------------------------------|-------------|
| 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-A     | DM-DCC-A    |
|                   | DeviceCommunicationControl-B     | DM-DCC-B    |
|                   | TimeSynchronization-A            | DM-TS-A     |
|                   | UTCTimeSynchronization-A         | DM-UTC-A    |
|                   | ReinitializeDevice-A             | DM-RD-A     |
|                   | ReinitializeDevice-B             | DM-RD-B     |
|                   | Backup and Restore-A             | DM-BR-A     |
|                   | 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-A   | DM-OCD-A    |
|                   | Object Creation and Deletion-B   | DM-OCD-B    |
|                   | Automatic Network Mapping-A      | DM-ANM-A    |
|                   | Automatic Device Mapping-A       | DM-ADM-A    |
|                   | Automatic Time Synchronization-A | DM-ATS-A    |
|                   | Manual Time Synchronization-A    | DM-MTS-A    |
|                   | Slave Proxy-View and Modify-A    | DM-SP-VM-A  |
|                   | Router Configuration-B           | NM-RC-B     |
|                   | BBMD Configuration-B             | NM-BBMD-C-B |
|                   | Foreign Device Registration-A    | NM-FDR-A    |
|                   | Secure Connect Hub-B             | NM-SCH-B    |
|                   | Secure Connect Direct Connect-A  | NM-SCDC-A   |
|                   | Secure Connect Direct Connect-B  | NM-SCDC-B   |
|                   | Embedded Objects-B               | GW-EO-B     |

## Object Type Support

|                        |                       |                    |
|------------------------|-----------------------|--------------------|
| Analog Input           | Analog Output         | Analog Value       |
| Binary Input           | Binary Output         | Binary Value       |
| Calendar               | Characterstring Value | Device             |
| Event Enrollment       | File                  | Integer Value      |
| Large Analog Value     | Loop                  | Multi-State Input  |
| Multi-State Output     | Multi-State Value     | Notification Class |
| Positive Integer Value | Structured View       | Trend Log          |

## Data Link Layer Options

| Media               | Options                                                         |
|---------------------|-----------------------------------------------------------------|
| BACnet/IP (Annex J) | BBMD<br>Register as Foreign Device<br>BACnet/IP, 'DIX' Ethernet |
| BACnet/SC           | Hub                                                             |

## Character Set Support

|                                                                                                               |
|---------------------------------------------------------------------------------------------------------------|
| ISO 10646 (UTF-8)<br>IBM/Microsoft DBCS<br>JIS X 0208<br>ISO 10646 (UCS-2)<br>ISO 10646 (UCS-4)<br>ISO 8859-1 |
|---------------------------------------------------------------------------------------------------------------|