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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-30870-1)

|                                                         |                          |                |
|---------------------------------------------------------|--------------------------|----------------|
| Vendor                                                  |                          | Listing Status |
| Siemens<br>Theilerstrasse 1a<br>6300 Zug<br>Switzerland |                          | Listed Product |
| Test Requirements                                       | BACnet Protocol Revision | Date Tested    |
| Requirements as of February 2021                        | Revision 15              | March 2022     |

| Product Name                                  | Model Numbers                                                                                                | Firmware version |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------|
| DESIGO PXC7, PXC5 and PXC4 Automation Station | PXC7.E400L,<br>PXC7.E400S,<br>PXC7.E400M,<br>PXC5.E003,<br>PXC4.M16,<br>PXC4.M16S,<br>PXC4.E16,<br>PXC4.E16S | FW=02.20.142.10  |

### Device Profiles

| Profile                                                              | Model Numbers                                                         |
|----------------------------------------------------------------------|-----------------------------------------------------------------------|
| BACnet Building Controller (B-BC)                                    | All models                                                            |
| BACnet Broadcast Management Device (B-BBMD)<br>BACnet Router (B-RTR) | PXC7.E400L, PXC7.E400S, PXC7.E400M,<br>PXC5.E003                      |
| BACnet Secure Connect Hub (B-SCHUB)                                  | PXC7.E400L, PXC7.E400S, PXC7.E400M,<br>PXC5.E003, PXC4.E16, PXC4.E16S |

## 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 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  |
|                              | Acknowledge-B                  | AE-ACK-B  |
|                              | Alarm Summary-B                | AE-ASUM-B |
|                              | Information-B                  | AE-INFO-B |
|                              | Event Log-Internal-B           | AE-EL-I-B |
|                              | Configurable Recipient Lists-B | AE-CRL-B  |

|            |            |           |
|------------|------------|-----------|
| Scheduling | Internal-B | SCHED-I-B |
|            | External-B | SCHED-E-B |

|          |                                         |           |
|----------|-----------------------------------------|-----------|
| Trending | Viewing and Modifying Trends Internal-B | T-VMT-I-B |
|          | Automated Trend Retrieval-B             | T-ATR-B   |

|                   |                                  |             |
|-------------------|----------------------------------|-------------|
| Device Management | Dynamic Device Binding-A         | DM-DDB-A    |
|                   | Dynamic Device Binding-B         | DM-DDB-B    |
|                   | 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-B                        | DM-R-B      |
|                   | List Manipulation-B              | DM-LM-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-B |
|                   | Foreign Device Registration-A    | NM-FDR-A    |
|                   | Secure Connect Hub - B           | NM-SCH-B    |

## Object Type Support

|                        |                    |                    |
|------------------------|--------------------|--------------------|
| Accumulator            | Alert Enrollment   | Analog Input       |
| Analog Output          | Analog Value       | Binary Input       |
| Binary Output          | Binary Value       | Calendar           |
| Date Value             | Datetime Value     | Device             |
| Event Log              | File               | Integer Value      |
| Loop                   | Multi-State Input  | Multi-State Output |
| Multi-State Value      | Notification Class | Octetstring Value  |
| Positive Integer Value | Program            | Schedule           |
| Structured View        | Time Value         | Trend Log          |

## Data Link Layer Options

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

## Character Set Support

|                                                                                                       |
|-------------------------------------------------------------------------------------------------------|
| ANSI X3.4<br>IBM/Microsoft DBCS<br>JIS X 0208<br>ISO 10646 (UCS-4)<br>ISO 10646 (UCS-2)<br>ISO 8859-1 |
|-------------------------------------------------------------------------------------------------------|