# XLTR-1000 BACnet PICS

**BACnet Protocol Implementation Conformance Statement (PICS)**

| | |
|---|---|
| Date: | August 18, 2016 |
| Vendor Name: | ICC, Inc. |
| Product Name: | XLTR-1000 Multiprotocol RS-485 Gateway |
| Product Model Number: | XLTR-1000 |
| Applications Software Version: | V5.200 |
| Firmware Revision: | V5.200 |
| BACnet Protocol Revision: | 12 |

Product Description:

The XLTR-1000 is a multiprotocol RS-485 to RS-485 gateway. This product supports native BACnet, connecting directly to the MS/TP LAN using baud rates of 9600, 19200, 38400, 57600, 76800, and 115200. The device can be configured as a BACnet Client or as a BACnet Server.

**BACnet Standard Device Profile (Annex L):**

☐ BACnet Operator Workstation (B-OWS)
☐ BACnet Building Controller (B-BC)
☐ BACnet Advanced Application Controller (B-AAC)
☒ BACnet Application Specific Controller (B-ASC)
☐ BACnet Smart Sensor (B-SS)
☐ BACnet Smart Actuator (B-SA)

**BACnet Interoperability Building Blocks Supported (Annex K):**

☒ Data Sharing – ReadProperty-A (DS-RP-A)
☒ Data Sharing – ReadProperty-B (DS-RP-B)
☒ Data Sharing – ReadPropertyMultiple-B (DS-RPM-B)
☒ Data Sharing – WriteProperty-A (DS-WP-A)
☒ Data Sharing – WriteProperty-B (DS-WP-B)
☒ Data Sharing – WritePropertyMultiple-B (DS-WPM-B)
☒ Device Management – Dynamic Device Binding-A (DM-DDB-A)
☒ Device Management – Dynamic Device Binding-B (DM-DDB-B)
☒ Device Management – Dynamic Object Binding-B (DM-DOB-B)
☒ Device Management – DeviceCommunicationControl-B (DM-DCC-B)
☒ Device Management – ReinitializeDevice-B (DM-RD-B)

**Segmentation Capability:**

☐ Able to transmit segmented messages Window Size _____
☐ Able to receive segmented messages Window Size _____

**Standard Object Types Supported:**

| Property | Object Type | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Device | Binary Input | Binary Output | Binary Value | Analog Input | Analog Output | Analog Value | Multi-state Input | Multi-state Output | Multi-state Value |
| **Object Identifier** | R | R | R | R | R | R | R | R | R | R |
| **Object Name** | R | R | R | R | R | R | R | R | R | R |
| **Object Type** | R | R | R | R | R | R | R | R | R | R |
| **System Status** | R | | | | | | | | | |
| **Vendor Name** | R | | | | | | | | | |
| **Vendor Identifier** | R | | | | | | | | | |
| **Model Name** | R | | | | | | | | | |
| **Firmware Revision** | R | | | | | | | | | |
| **App Software Revision** | R | | | | | | | | | |
| **Protocol Version** | R | | | | | | | | | |
| **Protocol Revision** | R | | | | | | | | | |
| **Services Supported** | R | | | | | | | | | |
| **Object Types Supported** | R | | | | | | | | | |
| **Object List** | R | | | | | | | | | |
| **Max APDU Length** | R | | | | | | | | | |
| **Segmentation Support** | R | | | | | | | | | |
| **APDU Timeout** | W (10…65535) | | | | | | | | | |
| **Number APDU Retries** | W (0…10) | | | | | | | | | |
| **Max Master** | W (1…127) | | | | | | | | | |
| **Max Info Frames** | R | | | | | | | | | |
| **Device Address Binding** | R | | | | | | | | | |
| **Database Revision** | R | | | | | | | | | |
| **Present Value** | | R | W | W | R | W | W | R | W | W |
| **Status Flags** | | R | R | R | R | R | R | R | R | R |
| **Event State** | | R | R | R | R | R | R | R | R | R |
| **Reliability** | | R | R | R | R | R | R | R | R | R |
| **Out-of-Service** | | R | R | R | R | R | R | R | R | R |
| **Number of States** | | | | | | | | R | R | R |
| **Units** | | | | | R | R | R | | | |
| **Priority Array** | | | R | R | | R | R | | R | R |
| **Relinquish Default** | | | R | R | | R | R | | R | R |
| **Polarity** | | R | R | | | | | | | |
| **Inactive Text** | | R | R | R | | | | | | |
| **Active Text** | | R | R | R | | | | | | |

R – readable using BACnet services
W – readable and writable using BACnet services

**Data Link Layer Options:**

☐ BACnet IP, (Annex J)
☐ BACnet IP, (Annex J), Foreign Device
☐ ISO 8802-3, Ethernet (Clause 7)
☐ ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
☐ ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s) _____
☒ MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 57600, 76800, 115200
☐ MS/TP slave (Clause 9), baud rate(s): _____
☐ Point-To-Point, EIA 232 (Clause 10), baud rate(s): _____
☐ Point-To-Point, modem, (Clause 10), baud rate(s): _____
☐ LonTalk, (Clause 11), medium: _____
☐ BACnet/ZigBee (ANNEX O)
☐ Other: _____

**Device Address Binding:**

Is static device binding supported? (This is currently for two-way communication with MS/TP slaves and certain other devices.) ☒ Yes ☐ No

**Networking Options:**

☐ Router, Clause 6 - List all routing configurations
☐ Annex H, BACnet Tunneling Router over IP
☐ BACnet/IP Broadcast Management Device (BBMD)
Does the BBMD support registrations by Foreign Devices? ☐ Yes ☐ No
Does the BBMD support network address translation? ☐ Yes ☐ No

**Network Security Options:**

☒ Non-secure Device - is capable of operating without BACnet Network Security
☐ Secure Device - is capable of using BACnet Network Security (NS-SD BIBB)
☐ Multiple Application-Specific Keys:
☐ Supports encryption (NS-ED BIBB)
☐ Key Server (NS-KS BIBB)

**Character Sets Supported:**

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

| | | |
|---|---|---|
| ☒ ISO 10646 (UTF-8) | ☐ IBM™/Microsoft™ DBCS | ☐ ISO 8859-1 |
| ☐ ISO 10646 (UCS-2 ) | ☐ ISO 10646 (UCS-4) | ☐ JIS X 0208 |

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports:

Refer to protocol-specific manuals for other supported protocols.