ANNEX A - PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (NORMATIVE)

(This annex is part of this standard and is required for its use.)

BACnet Protocol Implementation Conformance Statement

Date: 18-Oct-2023
Vendor Name: Control Solutions, Inc.
Product Name: Babel Buster BB3-3101
Product Model Number: BB3-3101
Application Software Version: 3.11.7 Firmware Revision: 3.11.7 BACnet Protocol Revision:15

Product Description:

The Babel Buster BB3-3101 Modbus to BACnet gateway allows Modbus RTU devices to communicate with BACnet MS/TP devices. Modbus registers may be accessed as BACnet objects, and BACnet objects may be read as Modbus registers. The Modbus to BACnet gateway acts as a translator, or protocol converter, between the two networks.

BACnet Standardized Device Profiles Supported (Annex L):

☐ BACnet Cross-Domain Advanced Operator Workstation (B-XAWS)
☐ BACnet Advanced Operator Workstation (B-AWS)
☐ BACnet Operator Workstation (B-OWS)
☐ BACnet Operator Display (B-OD)
☐ BACnet Advanced Lighting Workstations (B-ALWS)
☐ BACnet Lighting Operator Display (B-LOD)
☐ BACnet Advanced Life Safety Workstation (B-ALSWS)
☐ BACnet Life Safety Workstation (B-LSWS)
☐ BACnet Life Safety Annunciator Panel (B-LSAP)
☐ BACnet Advanced Access Control Workstation (B-AACWS)
☐ BACnet Access Control Workstation (B-ACWS)
☐ BACnet Access Control Security Display (B-ACSD)
☐ BACnet Advanced Elevator Workstation (B-AEWS)
☐ BACnet Elevator Workstation (B-EWS)
☐ BACnet Elevator Display (B-ED)
☐ BACnet Advanced Lighting Control Station (B-ALCS)
☐ BACnet Lighting Control Station (B-LCS)
☐ BACnet Building Controller (B-BC)
☐ BACnet Advanced Application Controller (B-AAC)
☑ BACnet Application Specific Controller (B-ASC)
☐ BACnet Smart Actuator (B-SA)
☐ BACnet Smart Sensor (B-SS)
☐ BACnet Lighting Supervisor (B-LS)
☐ BACnet Lighting Device (B-LD)
☐ BACnet Advanced Life Safety Controller (B-ALSC)
☐ BACnet Life Safety Controller (B-LSC)
☐ BACnet Advanced Access Control Controller (B-AACC)
☐ BACnet Access Control Controller (B-ACC)

☐ BACnet Advanced Elevator Controller (B-AEC)
☐ BACnet Elevator Controller (B-EC)
☐ BACnet Elevator Monitor (B-EM)
☐ BACnet Router (B-RTR)
☑ BACnet Gateway (B-GW)
☐ BACnet Broadcast Management Device (B-BBMD)
☐ BACnet Access Control Door Controller (B-ACDC)
☐ BACnet Access Control Credential Reader (B-ACCR)
☐ BACnet Secure Connect Hub (B-SCHUB)

☐ BACnet General (B-GENERAL)

BACnet Interoperability Building Blocks Supported (Annex K):
DS-RP-A
DS-RP-B
DS-RPM-B
DS-WP-A
DS-WP-B
DS-WPM-B
DS-COV-B
DS-COVU-B
DM-DDB-A
DM-DDB-B
DM-DOB-B
DM-DCC-B
DM-RD-B
DM-R-B
GW-EO-B

Segmentation Capability:

☑ Able to transmit segmented messages   Window Size <u>16</u>
☑ Able to receive segmented messages   Window Size <u>16</u>

Standard Object Types Supported:

An object type is supported if it may be present in the device. For each standard Object Type supported provide the following data:

     1) Whether objects of this type are dynamically creatable using the CreateObject service
     2) Whether objects of this type are dynamically deletable using the DeleteObject service
     3) List of the optional properties supported
     4) List of all properties that are writable where not otherwise required by this standard
     5) List of all properties that are conditionally writable where not otherwise required by this standard
     6) List of proprietary properties and for each its property identifier, datatype, and meaning
     7) List of any property range restrictions

BACnet Data Link Layer Options:

☐ ARCNET (ATA 878.1), 2.5 Mb. (Clause 8)
☐ ARCNET (ATA 878.1), EIA-485 (Clause 8), baud rate(s) _____
☐ BACnet IP, (Annex J)
☐ BACnet IP, (Annex J), BACnet Broadcast Management Device (BBMD)
☐ BACnet IP, (Annex J), Network Address Translation (NAT Traversal)
☐ BACnet IPv6, (Annex U)

☐ BACnet IPv6, (Annex U), BACnet Broadcast Management Device (BBMD)
☐ BACnet/ZigBee (Annex O) _____
☐ Ethernet, ISO 8802-3 (Clause 7)
☐ LonTalk, ISO/IEC 14908.1 (Clause 11), medium: _____
☑ MS/TP master (Clause 9)
      ☑ Master   ☐ Slave
      ☐ Non-isolated transceiver   ☑ Isolated transceiver
      ☐ Local 47K ohms bias resistors   ☑ None   ☐ Other: _____
      Transceiver unit loading: ☐ 1   ☐ ½   ☑ ¼   ☐ ⅛
      Data rates: ☑ 9600 ☑ 19200 ☑ 38400 ☐ 57600 ☑ 76800 ☐ 115200
☐ Point-To-Point, EIA 232 (Clause 10), baud rate(s):_____
☐ Point-To-Point, modem, (Clause 10), baud rate(s): _____
☐ BACnet Secure Connect (Annex AB)
      ☐ BACnet Secure Connect Node
        If direct connections are supported:
            Maximum number of simultaneous direct connections initiated: _____
            Maximum number of simultaneous direct connections accepted: _____
      ☐ BACnet Secure Connect Hub Function
            Maximum number of simultaneous hub connections accepted: _____
      ☐ HTTPS Proxy Support
            List the types of HTTPS proxies supported: _____
      ☐ Additional cipher suites supported beyond those required for TLS V1.3
            The additional cipher suites supported using the cipher suite names as of the TLS Cipher Suite Registry
            at IANA (See RFC 8446):
            _____
            _____
      ☐ Additional Transport Layer Security versions other than V1.3 supported
            The TLS versions other than V1.3 that are supported, including the supported cipher suites for the
            version beyond those required, using the cipher suite names as defined by the TLS version supported:
            _____
            _____
      ☐ Generates private keys internally, and provides matching certificate signing requests.
      ☐ DNS host name resolution supported (RFC 1123)
      ☐ mDNS host name resolution supported (RFC 6762)
☐ Other:

Device Address Binding:

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

Networking Options:

☐ Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.
☐ Annex H, BACnet Tunneling Router over IP

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

Gateway Options:

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

Modbus RTU master or slave

If this product is a communication gateway which presents a network of virtual BACnet devices, a separate PICS shall be provided that describes the functionality of the virtual BACnet devices. That PICS shall describe a superset of the functionality of all types of virtual BACnet devices that can be presented by the gateway.