BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Date:	16 July 2018
Vendor Name:	Best Energy Reduction Technologies LLC
Vendor ID:	TBD
Product Name:	BERT BACnet Gateway
Product Model Number:	TBD
Application Software Version:	1.5 Firmware Revision: N/A
	BACnet Protocol Revision: 135-2016

This PICS describes the BACnet functionality of the physical Gateway that acts as a router to a separate BACnet network of virtual devices.

BACnet STANDARDIZED DEVICE PROFILES SUPPORTED (Annex L):

- ☑ BACnet Application Specific Controller (B-ASC)
- ☑ BACnet Gateway (B-GW)

BACnet Interoperability Building Blocks Supported (Annex K):		
Paragraph	Section	Description
K1.2BIBB	Data Sharing	ReadProperty-B (DS-RP-B)
K1.4BIBB	Data Sharing	ReadPropertyMultiple-B (DS-RPM-B)
K5.2BIBB	Device and Network Management	Device Management-Dynamic Device Binding-B (DM-DDB-B)
K5.4BIBB	Device and Network Management	Device Management-Dynamic Object Binding-B (DM-DOB-B)
K5.6BIBB	Device and Network Management	Device Management-DeviceCommunicationControl-B (DM-DCC-B)

SEGMENTATION CAPABILITY:

- ☑ Able to transmit segmented messages Window Size 16
- ☑ Able to receive segmented messages Window Size 16

STANDARD OBJECT TYPES SUPPORTED:

DEVICE OBJECT

1. Dynamically creatable using the CreateObject service - NO
2. Dynamically deletable using the DeleteObject service - NO
3. Optional properties supported - Description, Location, Max Segments Accepted, APDU Segment Timeout, Local Time, Local Date, Active COV Subscriptions, Time of Device Restart,
4. List of all properties that are writable where not otherwise required by this standard - None
5. List of all properties that are conditionally writable where not otherwise required by this standard - None
6. List of proprietary properties and for each its property identifier, datatype, and meaning - None
7. List of any property range restrictions - None

DATA LINK LAYER OPTIONS:

The device can communicate as a direct BACnet/IP device and can register as a foreign BACnet/IP device.

- ☐ 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), baud rate(s):
- ☐ 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):
- ☐ 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:

- ☐ ARouter, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.
- ☐ AAnnex 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.
ANSI X3.4, IBM Microsoft DBCS, ISO 8859-1

- ☑ ANSI X3.4   ☐ IBM Microsoft DBCS   ☐ ISO 8859-1

GATEWAY OPTIONS:

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports: This gateway supports the following BERT products: BERT 220 I, BERT 220 IR BERT 110 I, BERT 110 IR, BERT 277 I, BERT 110 M and BERT 110 E.

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)