

BACnet Protocol Implementation Conformance Statement

Date: Jan 7, 2013

Vendor Name: Veris Industries, LLC

Product Name: E51H2 Energy Meter

Product Model Number: E51H2

Application Software Version: BACnet Gateway=3026

Firmware Revision: 3.026

BACnet Protocol Revision: 4

Product Description:

3-Phase Electrical Energy Meter

BACnet Standardized Device Profile (Annex L):

- BACnet Operator Workstation (B-OWS)
- BACnet Advanced Operator Workstation (B-AWS)
- BACnet Operator Display (B-OD)
- 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)

List all BACnet Interoperability Building Blocks Supported (Annex K): DS-RP-B, DS-RPM-B, DS-WP-B, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-TS-B

Segmentation Capability:

- Able to transmit segmented messages Window Size N/A
- Able to receive segmented messages Window Size N/A

Standard Object Types Supported: No dynamic creation or deletion Supported; no proprietary properties or object types.

1. Device Object:

Optional Properties Supported: Max_Master, Max_Info_Frames, Description, Location, Local_Time, Local_Date
Writable Properties: Object_Identifier, Object_Name, Max_Master, Location
Property Range Restrictions: Object_Identifier – May only write values from 1 to 4,193,999;
Location – (limited to 64 characters); Max_Master – May only write values from 1 to 127

2. Analog_Input Objects:

Optional Properties Supported: Description, Reliability
No Writable Properties.

3. Analog_Value Objects:

Optional Properties Supported: Description, Reliability

Writable Properties: Only the Present_Value is writable.

Property Range Restrictions:

- AV1: May only write 30078, 21211, 21212 and 16498.
- AV2: May only write 10, 11, 12, 31 and 40.
- AV3: May only write values from 5 to 32000.
- AV4: May only write values 1 and 3.
- AV5: May only write values from 0.01 to 320.0
- AV6: May only write values such that AV6/AV5 is from 82 to 660 (absolute range is 82-32000). To ensure AV6 accepts/rejects the proper values, AV5 should be set (written) first.
- AV7: May only write values 0 and 1.
- AV8: May only write values from 1 to 99.
- AV9: May only write values from 1 to 99.
- AV10: May only write values from 1 to 6.
- AV11: May only write the value 0 or a value from 1000 to 3276700 in multiples of 100.

4. Binary_Input Objects:

Optional Properties Supported: Description, Reliability
 No Writable Properties

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, EIA-485 ARCNET (Clause 8), baud rate(s) _____
- MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 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 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
- 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.

- ANSI X3.4
- 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: N/A