BACnet Protocol Implementation Conformance Statement

Date: 5/26/2022
Vendor Name: Yaskawa
Product Name: AC Motor Controller
Product Model Number: HV305
Application Software Version: VSVA100xx **Firmware Revision:** 2.01 **BACnet Protocol Revision:** 14

Product Description:

The HV305 is a world-class quality microdrive that is designed around the ideals of sustainability, flexibility, and ease of use. Its compact design means it can fit into tight spaces and have the capabilities to make any space comfortable for those occupying it. These products may be fully controlled and monitored over BACnet. All drive parameters are available for reading and writing.

BACnet Standardized Device Profile (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 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 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 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 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 General (B-GENERAL)

List all BACnet Interoperability Building Blocks Supported (Annex K):

- Data Sharing-ReadProperty-B (DS-RP-B)
- Data Sharing-WriteProperty-B (DS-WP-B)
- Data Sharing-ReadPropertyMultiple-B (DS-RPM-B)
- Data Sharing-WritePropertyMultiple-B (DS-WPM-B)
- Data Sharing-Change Of Value-B (DS-COV-B)
- Data Sharing-Change Of Value Property-B (DS-COVP-B)
- 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)
- Device Management-TimeSynchronization-B (DM-TS-B)

Segmentation Capability:

☐ Able to transmit segmented messages Window Size_____
☐ Able to receive segmented messages Window Size_____

Standard Object Types Supported:

- Device Object
  - Optional Writeable:
    - Max_Info_Frames
    - Max_Master
- Analog Input Object
  - Optional properties supported:
    - COV_Increment
  - Optional Writeable:
    - COV_Increment – supported on various instances
- Analog Output Object
- Analog Value Object
  - Optional properties supported:
    - COV_Increment
  - Optional Writeable:
    - COV_Increment – supported on various instances
- Binary Input Object
- Binary Output Object
- Binary Value Object

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), baud rate(s): 9600, 19200, 38400, 76800
☐ 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:

☐ 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:

- Not supported

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.

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)