BACnet Protocol Implementation Conformance Statement

Date: May 28, 2021
Vendor Name: ABB Automation Products GmbH.
Product Name: CP600 control panels series CP600-eCo, CP600, CP600-Pro running Panel Builder 600 HMI software
Product Model Number: CP6xx, CP64xx; CP66xx
Application Software Version: Panel Builder 600 V4.0.1 or higher
Firmware Revision: -
BACnet Protocol Revision: V3.16 or higher

Product Description:
ABB CP600 control panels provide BACnet client capability for displaying BACnet data points in real time using BACnet/IP or MS/TP LAN types.

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)

Note: the implementation of the BACnet protocol in Panel Builder 600 HMI software follows the B-OD device profile with the exception of AE-VN-A.

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

DS-RP-A
DS-RPM-A
DS-WP-A
DS-V-A
DS-M-A
DS-COV-A
DM-DDB-A
DM-DDB-B
DM-DOB-B
DS-RP-B
DS-RPM-B
DS-WP-B
Segmentation Capability:

☑ Able to transmit segmented messages
☑ Able to receive segmented messages

Window Size: MS/TP 480, IP 1476

Standard Object Types Supported:

<table>
<thead>
<tr>
<th>Object Type</th>
<th>Create/ Delete</th>
<th>Optional Properties</th>
<th>Proprietary Properties</th>
<th>Writable Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device</td>
<td>No</td>
<td></td>
<td></td>
<td>OBJECT_IDENTIFIER</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NUMBER_OF_APDU_RETRIES</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>APDU_TIMEOUT</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OBJECT_NAME (max 64 chars)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LOCATION (max 64 chars)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DESCRIPTION (max 64 chars)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MAX_INFO_FRAMES</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MAX_MASTER</td>
</tr>
</tbody>
</table>

* Note: The ABB control panels support persistence of Device Object writable properties across power cycles. Some of these properties (i.e. OBJECT_IDENTIFIER, APDU_TIMEOUT, OBJECT_NAME, DESCRIPTION, MAX_INFO_FRAMES and MAX_MASTER) are exposed as protocol parameters in the HMI programming software. The HMI programming software will not reflect current settings if a property has been overwritten.

Proprietary Object Types Supported:
No proprietary object types supported.

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, 57600
☐ 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.

☑ 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: