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## BACnet Protocol Implementation Conformance Statement

**Date:** 11.05.2021

**Vendor Name:** NETxAutomation

**Product Name:** NETx BMS Platform

**Product Model Number:** 4.0

**Application Software Version:** 4.0

**Firmware Revision:** R2 Build 2010

**BACnet Protocol Revision:** 1.12

### Product Description:

The aim of the NETx BMS Platform is to solve the problem that arises when heterogeneous building automation systems are used. To achieve this, the NETx BMS Platform collects data and information from the field level of the building automation system using different fieldbus technologies. In NETx BMS Platform this data can originate from KNX, Modbus, or BACnet networks. In addition, connections to other systems like Fidelio/Opera, Protel, JSON or to foreign systems that already provide an OPC connection are possible.

Once the data is available within the BMS Platform, management clients can access the data through the provided management interfaces. The NETx BMS Platform provides integrated Visualization clients, to Web-based BMS Visualization clients as well as to any other third-party client.

### 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):

Data Sharing-ReadProperty-A (DS-RP-A)  
Data Sharing-ReadProperty-B (DS-RP-B)  
Data Sharing-ReadPropertyMultiple-A (DS-RPM-A)  
Data Sharing-ReadPropertyMultiple-B (DS-RPM-B)  
Data Sharing-WriteProperty-A (DS-WP-A)  
Data Sharing-WriteProperty-B (DS-WP-B)  
Data Sharing-WritePropertyMultiple-A (DS-WPM-A)  
Data Sharing-WritePropertyMultiple-B (DS-WPM-B)  
Data Sharing-COV-A (DS-COV-A)  
Data Sharing-COV-B (DS-COV-B)  
Data Sharing-COVP-A (DS-COVP-A)  
Data Sharing-COVP-B (DS-COVP-B)  
Device Management-Dynamic Device Binding-A (DM-DDB-A)  
Device Management-Dynamic Device Binding-B (DM-DDB-B)  
Device Management-Dynamic Object Binding-A (DM-DOB-A)  
Device Management-Dynamic Object Binding-B (DM-DOB-B)

Device Management-DeviceCommunicationControl-A (DM-DCC-A)  
Device Management-DeviceCommunicationControl-B (DM-DCC-B)

**Segmentation Capability:**

- Able to transmit segmented messages      Window Size \_\_\_\_\_
- Able to receive segmented messages      Window Size \_\_\_\_\_

**Standard Object Types Supported:**

If not stated otherwise, the following statements apply to all supported BACnet object types:

- Creating or deleting of dynamic objects is not supported
- No additional writable properties (other than the ones required by this standard) are supported
- No additional conditionally writable properties (other than the ones required by this standard) are supported are
- No proprietary properties are implemented
- No range restrictions on properties exist

**Accumulator**

*List of optional properties supported:* Description, Device\_Type, Reliability, Prescale, Value\_Change\_Time, Value\_Before\_Change, Value\_Set, Logging\_Record, Logging\_Object, Pulse\_Rate, Profile\_Name

**Analog Input**

*List of optional properties supported:* Description, Device\_Type, Reliability, Update\_Interval, Min\_Pres\_Value, Max\_Pres\_Value, Resolution, COV\_Increment, Profile\_Name

**Analog Output**

*List of optional properties supported:* Description, Device\_Type, Reliability, Min\_Pres\_Value, Max\_Pres\_Value, Resolution, COV\_Increment, Profile\_Name

**Analog Value**

*List of optional properties supported:* Description, Reliability, Priority\_Array, Relinquish\_Default, COV\_Increment, Profile\_Name

**Binary Input**

*List of optional properties supported:* Description, Device\_Type, Reliability, Inactive\_Text, Active\_Text, Profile\_Name

**Binary Output**

*List of optional properties supported:* Description, Device\_Type, Reliability, Inactive\_Text, Active\_Text, Profile\_Name

**Binary Value**

*List of optional properties supported:* Description, Reliability, Inactive\_Text, Priority\_Array, Relinquish\_Default, Active\_Text, Profile\_Name

**Multistate Input**

*List of optional properties supported:* Description, Device\_Type, Reliability, State\_Text, Profile\_Name

**Multistate Output**

*List of optional properties supported:* Description, Device\_Type, Reliability, State\_Text, Profile\_Name

**Multistate Value**

*List of optional properties supported:* Description, Device\_Type, Reliability, State\_Text, Priority\_Array, Relinquish\_Default, Profile\_Name

**Pulse Convert**

*List of optional properties supported:* Description, Input\_Reference, Reliability, COV\_Increment, COV\_Period, Profile\_Name

**Device**

*List of optional properties supported:* Location, Description, Local\_Time, Local\_Date, UTC\_Offset

**Life Safety Zone**

*List of optional properties supported:* Description, Device\_Type, Profile\_Name

**Life Safety Point**

*List of optional properties supported:* Description, Device\_Type, Profile\_Name

**Schedule**

*List of optional properties supported:* Description, Profile\_Name

**CharacterString Value**

*List of optional properties supported:* Description, Event\_State, Reliability, Out\_Of\_Service, Priority\_Array, Relinquish\_Default

**DateTime Value**

*List of optional properties supported:* Description, Event\_State, Reliability, Out\_Of\_Service, Priority\_Array, Relinquish\_Default, Is\_UTC

**Date Value**

*List of optional properties supported:* Description, Event\_State, Reliability, Out\_Of\_Service, Priority\_Array, Relinquish\_Default

**Time Value**

*List of optional properties supported:* Description, Event\_State, Reliability, Out\_Of\_Service, Priority\_Array, Relinquish\_Default

**Large Analog Value**

*List of optional properties supported:* Description, Event\_State, Reliability, Out\_Of\_Service, Priority\_Array, Relinquish\_Default, COV\_Increment

**Integer Value**

*List of optional properties supported:* Description, Event\_State, Reliability, Out\_Of\_Service, Priority\_Array, Relinquish\_Default, COV\_Increment

**Positive Integer Value**

*List of optional properties supported:* Description, Event\_State, Reliability, Out\_Of\_Service, Priority\_Array, Relinquish\_Default, COV\_Increment

**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): \_\_\_\_\_
- 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:**

NETx BMS Platform provides following interfaces to non-BACnet systems:

- KNX
- Modbus/TCP
- JSON
- Fidelio/Opera
- Protel
- OPC DA

**Further information and contact:**

More information can be found at our website [www.netxautomation.com](http://www.netxautomation.com) or can be requested via [info@netxautomation.com](mailto:info@netxautomation.com)