

DESCRIPTION

ANNEX A - PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (NORMATIVE)

(This annex is part of this standard and is required for its use.)

BACnet Protocol Implementation Conformance Statement

Date:

June 18, 2025

Vendor Name:

Antrum

Product Name:

AntrumX Gateway

Product Model Number:

V3

Application Software Version:

5.0

Firmware Revision:

1.0

BACnet Protocol Revision:

24

Product Description:

The AntrumX Gateway BACnet Device provides access to sensor data and functionality in a network of AntrumX panels through BACnet objects and services.

BACnet Standardized Device Profiles Supported (Annex L):

BACnet Gateway (B-GW)

BACnet Interoperability Building Blocks Supported (Annex K):

DS-RP-A DS-RP-B DS-RPM-A DS-RPM-B DS-WP-A DS-WP-B DS-WPM-A DS-WPM-B
DS-COV-A DS-COV-B DS-COVP-A DS-COVU-A DS-COVU-B
AE-N-I-B AE-ACK-B AE-INFO-B AE-CRL-B
DM-DDB-A DM-DDB-B DM-DOB-B DM-DCC-B DM-TS-B DM-UTC-B DM-RD-B
GW-EO-B

Segmentation Capability:

N/A

Standard Object Types Supported:

An object type is supported if it may be present in the device. For each standard Object Type supported provide the following data:

- 1) Whether objects of this type are dynamically creatable using the CreateObject service

2) Whether objects of this type are dynamically deletable using the DeleteObject service

3) List of the optional properties supported

4) List of all properties that are writable where not otherwise required by this standard

5) List of all properties that are conditionally writable where not otherwise required by this standard

6) List of proprietary properties and for each its property identifier, datatype, and meaning

7) List of any property range restrictions

Device

1. Not dynamically creatable

2. Not dynamically deletable

3. Location, Description, Local_Time, Local_Date, UTC_Offset, Daylight_Savings_Status, Max_Master, Max_Info_Frames, Serial_Number, Status_Flags, Event_State, Reliability, Event_Detection_Enable, Notification_Class, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Device_UUID

4. APDU_Timeout, Number_Of_APDU_Retries

5. Max_Master, Max_Info_Frames

6. N/A

7. N/A

Network Port

1. Not dynamically creatable

2. Not dynamically deletable

3. Description, Network_Number, Network_Number_Quality, MAC_Address, APDU_Length, Link_Speeds, BACnet_IP_Mode, IP_Address, BACnet_IP_UDP_Port, IP_Subnet_Mask, IP_Default_Gateway, BACnet_IP_Multicast_Address, IP_DNS_Server, IP_DHCP_Enable, FD_BBMD_Address, FD_Subscription_Lifetime, Max_Master, Max_Info_Frames, Event_Detection_Enable, Notification_Class, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps

4. N/A

5. MAC_Address, Link_Speed, IP_Address, BACnet_IP_UDP_Port, IP_Subnet_Mask, IP_Default_Gateway, BACnet_IP_Multicast_Address, IP_DNS_Server, IP_DHCP_Enable, FD_BBMD_Address, FD_Subscription_Lifetime, Max_Master, Max_Info_Frames

6. N/A

7. N/A

Analog Input

1.

Not dynamically creatable
2.

Not dynamically deletable
3.

Description, Reliability, Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Detection_Enable,
4.

N/A
5.

N/A
6.

N/A
7.

N/A

Notification Class

1.

Not dynamically creatable
2.

Not dynamically deletable
3.

Description, Status_Flags, Event_State, Reliability, Event_Detection_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps
4.

N/A
5.

N/A
6.

N/A
7.

N/A

Binary Value

1.

Not dynamically creatable
2.

Not dynamically deletable
3.

Description, Reliability, Inactive_Text, Active_Text, Priority_Array, Relinquish_Default, Time_Delay, Notification_Class, Alarm_Value, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Detection_Enable, Current_Command_Priority
4.

N/A
5.

N/A
6.

N/A
7.

N/A

BACnet Data Link Layer Options:

BACnet IP, (Annex J)
MS/TP master (Clause 9)
 Master
 Non-isolated transceiver
 Local 47K ohms bias resistors
 Transceiver unit loading: 1/5
 Data rates: 9600, 19200, 38400, 57600, 76800, 115200

Device Address Binding:

Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.):

No

Networking Options:

None

Character Sets Supported:

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

ISO 10646 (UTF-8)

Gateway Options:

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports:

AntrumX Panel Networks

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.