

BACnet Protocol Implementation Conformance Statement

Date: November 5, 2020

Vendor Name: Honeywell International, Inc

Product Name: Programmable Enhanced BACnet IP Controller

Product Model Numbers: PEC BACnet

Application Software Version: 11.05 (build 10) **Firmware Revision:** 11.01 (build 01) **BACnet Protocol Revision:** 15

Product Description:

The controller is an IP based freely programmable controller for BACnet network, designed for multi-applications in building management system control. Controller may be used in standalone or networked applications where a BACnet network is required.

BACnet Standardized Device Profile (Annex L):

- BACnet Operator Workstation (B-OWS)
- 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):

<i>BIBB</i>	<i>Service</i>	<i>Initiates</i>	<i>Responds to</i>
DS-RP-A/B	ReadProperty	X	X
DS-RPM-B	ReadPropertyMultiple		X
DS-WP-A/B	WriteProperty	X	X
DS-WPM-B	WritePropertyMultiple		X
DS-COV-B	Change Of Value		X
DM-DDB-A/B	Who-Is	X	X
DM-DDB-A/B	I-Am	X	X
DM-DOB-B	Who-Has		X
DM-DOB-B	I-Have	X	
DM-DCC-B	DeviceCommunicationControl		X
DM-TS-B	TimeSynchronization		X
DM-UTC-B	UTCTimeSynchronization		X
DM-RD-B	ReinitializeDevice		X
AE-N-I-B	ConfirmedEventNotification or UnconfirmedEventNotification	X	
AE-ACK-B	AcknowledgeAlarm		X
AE-INFO-B	GetEventInformation		X
SCHED-I-B			

Segmentation Capability:

- Segmented requests supported Window Size _____
- Segmented responses supported Window Size _____



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 proprietary properties and for each its property identifier, datatype, and meaning
- 6) List of any property range restrictions

Note: none of the object types listed in this section is dynamically creatable or dynamically deletable.

Note: the BACnet conformance codes are as follows:

- O - Optional (may be required under some conditions)
- R - Required, but not required to be writable (may be required to be writable under some conditions)
- W - Not only required, but also required to be writable

The following codes are used in this document to describe how the properties are implemented:

- R/W - Read/write
- R/O - Read-only
- R/O=value - Implemented as a read-only with the indicated value

Device Object

Property	BACnet Conf Code	Implementation
Object_Identifier	R	R/W
Object_Name	R	R/W
Object_Type	R	R/O="device"
System_Status	R	R/O
Vendor_Name	R	R/O
Vendor_Identifier	R	R/O="17"
Model_Name	R	R/O
Firmware_Revision	R	R/O
Application_Software_Version	R	R/O
Protocol_Version	R	R/O=1
Protocol_Revision	R	R/O=15
Protocol_Services_Supported	R	R/O
Protocol_Object_Types_Supported	R	R/O
Object_List	R	R/O
Max_APDU_Length_Accepted	R	R/O="1476"
Segmentation_Supported	R	R/O="none"
Local_Time	O	R/O
Local_Date	O	R/O
UTC_Offset	O	R/W
Daylight_Savings_Status	O	R/O
APDU_Timeout	R	R/W
Number_Of_APDU_Retries	R	R/W
Device_Address_Binding	R	R/O
Database_Revision	R	R/O
location	O	R/W
Description	O	R/W
Property-list	R	R/O
Active_COV_Subscriptions	O	R/O

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Program Object

Property	BACnet Conf Code	Implementation
Object_Identifier	R	R/O
Object_Name	R	R/O
Object_Type	R	R/O="program"
Description	O	R/O
Program_Change	W	R/W
Program_State	R	R/O
Status_Flags	R	R/O
Out_Of_Service	R	R/O=FALSE
Property-list	R	R/O
Reason_For_Halt	O	R/O="normal"
Description_Of_Halt	O	R/O
Program_Location	O	R/O
Instance_Of	O	R/O

File Object

Property	BACnet Conf Code	Implementation
Object_Identifier	R	R/O
Object_Name	R	R/O
Object_Type	R	R/O="file"
Description	O	R/O
File_Type	R	R/O="bin"
File_Size	R	R/O
Modification_Date	R	R/O
Archive	W	R/O=FALSE
Read_Only	R	R/O
File_Access_Method	R	R/O=stream access
Property-list	R	R/O

Analog Input

Property	BACnet Conf Code	Implementation
Object_Identifier	R	R/O
Object_Name	R	R/O
Object_Type	R	R/O="analog-input"
Present_Value	R	R/O
Status_Flags	R	R/O
Event_State	R	R/O
Out_Of_Service	R	R/O=FALSE
Units	R	R/O
Property-list	R	R/O
COV_Increment	O	R/O

Analog Output

Property	BACnet Conf Code	Implementation
Object_Identifier	R	R/O
Object_Name	R	R/O
Object_Type	R	R/O="analog-output"
Present_Value	W	R/W
Status_Flags	R	R/O
Event_State	R	R/O
Out_Of_Service	R	R/O=FALSE
Units	R	R/O
Priority_Array	R	R/O
Relinquish_Default	R	R/W
Property-list	R	R/O

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COV_Increment	R	R/O
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Analog Value

Property	BACnet Conf Code	Implementation
Object_Identifier	R	R/O
Object_Name	R	R/O
Object_Type	R	R/O="analog-value"
Present_Value	R	R/W
Status_Flags	R	R/O
Event_State	R	R/O
Out_Of_Service	R	R/O=FALSE
Units	R	R/O
Property-list	R	R/O
COV_Increment	R	R/O

Binary Input

Property	BACnet Conf Code	Implementation
Object_Identifier	R	R/O
Object_Name	R	R/O
Object_Type	R	R/O="binary-input"
Present_Value	R	R/O
Status_Flags	R	R/O
Event_State	R	R/O
Out_Of_Service	R	R/O=FALSE
Polarity	R	R/O
Property-list	R	R/O

Binary Output

Property	BACnet Conf Code	Implementation
Object_Identifier	R	R/O
Object_Name	R	R/O
Object_Type	R	R/O="binary-output"
Present_Value	W	R/W
Status_Flags	R	R/O
Event_State	R	R/O
Out_Of_Service	R	R/O=FALSE
Polarity	R	R/O
Priority_Array	R	R/O
Relinquish_Default	R	R/W
Property-list	R	R/O

Binary Value

Property	BACnet Conf Code	Implementation
Object_Identifier	R	R/O
Object_Name	R	R/O
Object_Type	R	R/O="binary-value"
Present_Value	R	R/O
Status_Flags	R	R/O
Event_State	R	R/O
Out_Of_Service	R	R/O=FALSE
Property-list	R	R/O
Time_Delay	O	R/O
Notification_Class	O	R/O
Alarm_Value	O	R/O
Event_Enable	O	R/O
Acked_Transitions	O	R/O

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Notify_Type	O	R/O
Event_Time_Stamps	O	R/O
Event_Detection_Enable	O	R/O

Multi-state Value

Property	BACnet Conf Code	Implementation
Object_Identifier	R	R/O
Object_Name	R	R/O
Object_Type	R	R/O="multi-state-value"
Present_Value	R	R/W
Status_Flags	R	R/O="all normal"
Event_State	R	R/O="normal"
Out_Of_Service	R	R/O=FALSE
Number_Of_States	R	R/O
Property-list	R	R/O
State_Text	O	R/O

Schedule Object

Property	BACnet Conf Code	Implementation
Object_Identifier	R	R/O
Object_Name	R	R/O
Object_Type	R	R/O="schedule"
Present_Value	R	R/O
Description	O	R/O
Effective_Period	R	R/W
Weekly_Schedule	O	R/W
Exception_Schedule	O	R/W
Schedule_Default	R	R/O
List_Of_Object_Property_References	R	R/O
Priority_For_Writing	R	R/W
Status_Flags	R	R/O
Reliability	R	R/O
Out_Of_Service	R	R/O=FALSE
Property_List	R	R/O

Calendar Object

Property	BACnet Conf Code	Implementation
Object_Identifier	R	R/O
Object_Name	R	R/O
Object_Type	R	R/O="calendar"
Description	O	R/O
Present_Value	R	R/O
Date_List	R	R/W
Property_List	R	R/O

Notification Class

Property	BACnet Conf Code	Implementation
Object_Identifier	R	R/O
Object_Name	R	R/O
Object_Type	R	R/O="notification-class"
Description	O	R/O
Notification_Class	R	R/O
Priority	R	R/O
Ack_Required	R	R/W

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Recipient_List	R	R/W
Property_List	R	R/O



Data Link Layer Options:

- BACnet IP, (Annex J)
- X BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ANSI/ATA 878.1, RS-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: _____
- 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

Character Sets Supported:

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

- X ANSI X3.4 IBM™/Microsoft™ DBCS ISO 8859-1
- X ISO 10646 (UCS-2) ISO 10646 (UCS-4) JIS C 6226

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