BACnet Protocol Implementation Conformance Statement

Date: Nov 21, 2014 (updated November 25, 2016)
Vendor Name: Honeywell International, Inc
Product Name: a1 series BACnet controller
Product Model Numbers: UC5533, UC6002, PUC5533, PUC6002
Application Software Version: Application xxxx **Firmware Revision:** HIMA 00.09.13 **BACnet Protocol Revision:** 4

Product Description:
The a1 series BACnet controller is a Pre-programmed and Configurable controller working with the portable HMI tool and designed for common used HVAC applications. The controller may be used in stand alone 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)
X 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):

BIBB	*Service*	*Initiates*	*Responds to*
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	SubscribeCOV		X
DS-COV-B	ConfirmedCOVNotification	X	
DS-COV-B	UnconfirmedCOVNotification	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

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="operational"
Vendor_Name	R	R/O
Vendor_Identifier	R	R/O
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=4
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=206
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=empty list
Database_Revision	R	R/O=0
Max_Master	O	R/W
Max_Info_Frames	O	R/W
location	O	R/W
description	O	R/W
Active_COV_Subscriptions	O	R/O

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="all normal"
Out_Of_Service	R	R/O=FALSE

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="" (empty string)
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

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="all normal"
Event_State	R	R/O="normal"
Out_Of_Service	R	R/O=FALSE
Units	R	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="all normal"
Event_State	R	R/O="normal"
Out_Of_Service	R	R/O=FALSE
Units	R	R/O
Priority_Array	R	R/O
Relinquish_Default	R	R/W

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="all normal"

Event_State	R	R/O="normal"
Out_Of_Service	R	R/O=FALSE
Units	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="all normal"
Event_State	R	R/O="normal"
Out_Of_Service	R	R/O=FALSE
Polarity	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="all normal"
Event_State	R	R/O="normal"
Out_Of_Service	R	R/O=FALSE
Polarity	R	R/O
Priority_Array	R	R/O
Relinquish_Default	R	R/W

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/W
Status_Flags	R	R/O="all normal"
Event_State	R	R/O="normal"
Out_Of_Service	R	R/O=FALSE

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

Data Link Layer Options:

☐ BACnet IP, (Annex J)
☐ 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) _____
X MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 76800, 115200
☐ 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 X 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:

_____
_____
_____