

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: Nov. 16, 2016

Vendor Name: Johnson Controls, Inc

Product Name: T8800

Product Model Number: T8800-TB20-9JS0-B0, T8800-TB21-9JS0-B0, T8800-TF20-9JS0-B0

Application Software Version: 1.0 **Firmware Revision:** 7.0.0.58 **BACnet Protocol Revision:** 12

Product Description:

The T8000 series touch screen thermostats are designed to control a heating and cooling air conditioning unit in commercial, industrial and residential installation. Typical applications include the control of fan coil unit, packaged terminal air conditioners and combination of heating and cooling equipment.

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):

BACnet B-ASC BIBBs Support

Application Service (B-ASC)	Designation	Supported
Required for B-ASC Profile		
Data Sharing - Read Property - B	DS-RP-B	<input checked="" type="checkbox"/>
Data Sharing - Write Property - B	DS-WP-B	<input checked="" type="checkbox"/>
Device Management - Dynamic Device Binding - B	DM-DDB-B	<input checked="" type="checkbox"/>
Device Management - Dynamic Object Binding - B	DM-DOB-B	<input checked="" type="checkbox"/>
Device Management - Device Communication Control - B	DM-DCC-B	<input checked="" type="checkbox"/>
Not Required for B-ASC Profile		
Data Sharing-ReadPropertyMultiple-B	DS-RPM-B	<input checked="" type="checkbox"/>
Data Sharing-WritePropertyMultiple-B	DS-WPM-B	<input checked="" type="checkbox"/>
Data Sharing-COV-B	DS-COV-B	<input checked="" type="checkbox"/>
Data Sharing-COVP-B	DS-COVP-B	<input checked="" type="checkbox"/>
Device Management-TimeSynchronization-B	DM-TS-B	<input checked="" type="checkbox"/>
Device Management-UTCTimeSynchronization-B	DM-UTC-B	<input checked="" type="checkbox"/>
Device Management-ReinitializeDevice-B	DM-RD-B	<input checked="" type="checkbox"/>

Segmentation Capability:

- Able to transmit segmented messages Window Size 1

Able to receive segmented messages Window Size 1

Standard Object Types Supported:

The following is a list of the standard object types as defined by ASHRAE. The objects checked are currently supported by this product. See the section in this document for the supported object type for details.

- Accumulator
- Analog Input
- Analog Output
- Analog Value
- Averaging
- Binary Input
- Binary Output
- Binary Value
- Calendar
- Command
- Device
- Event Enrollment
- File
- Group
- Life Safety Point
- Life Safety Zone
- Loop
- Multistate Input
- Multistate Output
- Multistate Value
- Notification Class
- Program
- Pulse Converter
- Schedule
- Trend Log

Analog Value

Dynamically Creatable: No
 Dynamically Delectable: No

Property Name	Required	Optional	Writable	Data Type	Range
Object_Identifier	√				
Object_Name	√				
Object_Type	√				
Present_Value	√		√		
Description		√			
Status_Flags	√				
Event_State	√				
Reliability		√			
Out_Of_Service	√				
Units	√				
Priority_Array		√			
Relinquish_Default		√	√		
COV_Increment		√			

Binary Value

Dynamically Creatable: No
 Dynamically Delectable: No

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Property Name	Required	Optional	Writable	Data Type	Range
Object_Identifier	√				
Object_Name	√				
Object_Type	√				
Present_Value	√		√		0-1
Description		√			
Status_Flags	√				
Event_State	√				
Reliability		√			
Out_Of_Service	√				
Inactive_Text		√			
Active_Text		√			
Change_Of_State_Time		√			
Change_Of_State_Count		√	√		
Time_Of_State_Count_Reset		√			
Elapsed_Active_Time		√	√		
Time_Of_Active_Time_Reset		√			
Minimum_Off_Time		√			
Minimum_On_Time		√			
Priority_Array		√			
Relinquish_Default		√	√		0-1

Device

Dynamically Creatable: No
Dynamically Delectable: No

Property Name	Required	Optional	Writable	Data Type	Range
Object_Identifier	√				
Object_Name	√		√		128 characters
Object_Type	√				
System_Status	√				
Vendor_Name	√				
Vendor_Identifier	√				
Model_Name	√				
Firmware_Revision	√				
Application_Software_Version	√				
Location	√		√		57 characters
Description		√			
Protocol_Version	√				
Protocol_Revision	√				
Protocol_Services_Supported	√				
Protocol_Object_Types_Supported	√				
Object_List	√				
Max_APDU_Length_Accepted	√				
Segmentation_Supported	√				
Max_Segments_Accepted		√			
Local_Time		√			
Local_Date		√			
UTC_Offset		√	√		-780-780
Daylight_Savings_Status		√			
APDU_Segment_Timeout		√			1000-65535

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APDU_Timeout	√			1000-65535
Number_Of_APDU_Retries	√			2-10
Max_Master		√	√	4-127
Max_Info_Frames		√	√	1-255
Device_Address_Binding	√			
Database_Revision	√			
Active_COV_Subscriptions		√		

Multistate Value

Dynamically Creatable: No
 Dynamically Delectable: No

Property Name	Required	Optional	Writable	Data Type	Range
Object_Identifier	√				
Object_Name	√				
Object_Type	√				
Present_Value	√		√		
Description		√			
Status_Flags	√				
Event_State	√				
Reliability		√			
Out_Of_Service	√				
Number_Of_States	√				
Priority_Array		√			
Relinquish_Default		√	√		

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): Auto (default), 1200, 9600, 19200, 38400, 76800
- 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:

None.