Honeywell WEBs-AXTM BACNET PICS

BACnet Protocol Implementation Conformance Statement

Date: Feb 17, 2016

Vendor Name: Honeywell International, Inc.

Product Name: Honeywell WEBs-AXTM Building Controller

Product Model Numbers: WEB-300E

Application Software Version: 3.7.106.1 or higher

Firmware Revision: 3.7.106.9 or higher

BACnet Protocol Revision: 7

Product Description:

WEBs- AX provides the ability to view, monitor, and control BACnet devices over IP, raw Ethernet, or MS/TP media. Devices, points, schedules, alarms, and logs can be learned and managed from WEBs- AX. In addition, points, schedules, histories, and alarming can be exposed to BACnet for monitor and control by foreign BACnet clients.

BACnet Standardized Device Profile (Annex L):

Ш	BACnet Advanced Operator Workstation (B-AWS)
	BACnet Operator Workstation (B-OWS)
	BACnet Operator Display (B-OD)
X	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)

Additional BACnet Interoperability Building Blocks Supported (Annex K):

Data Sharing	Device & Network
DS-RP-A, B	Management
DS-RPM-A, B	DM-DDB-A, B
DS-WP-A, B	DM-DOB-A, B
DS-WPM-A, B	DM-DCC-B
DS-COV-A, B	DM-RD-B
DS-COVU-A, B	DM-TS-B
DS-V-A	DM-UTC-B
DS-M-A	DM-LM-A, B
DS-COVP-B	DM-BR-B
	DM-ANM-A
	DM-ADM-A
	DM-ATS-A
	DM-MTS-A
Alarm & Event Management	Trending
AE-N-A, -I-B	T-VMT-A, I-B, -E-B
AE-ACK-A, B	T-ATR-A, B
AE-ASUM-B	T-V-A

AE-ESUM-B AE-INFO-B AE-VN-A AE-VM-A	
Scheduling	Network Management
Scheduling SCHED-A, I-B, -E-B	Network Management NM-CE-A
S	8

Segmentation Capability:

Feature	Supported	Window size
Transmit Segmented Messages	yes	10
Receive Segmented Messages	yes	any

Standard Object Types Supported:

- The CreateObject and DeleteObject services are not supported, so no objects are dynamically creatable or deletable through BACnet service requests, although these objects are dynamically creatable and deletable through Niagara.
- No general range restrictions exist; however, certain specific applications may have specific range restrictions.
- All potentially available properties are listed for each object type.
- Optional properties are listed in *italics*. Not all instances support all optional properties.
- Writable properties are listed in **bold**. Any range limitations are expressed in parentheses following the property name.

Notes from Table

- 1. The File Size property of File objects is only writable if the underlying system file is changeable.
- 2. The Setpoint property of Loop objects is writable only if the setpoint is not linked from within Niagara.
- 3. The Recipient_List property of the Notification Class object will maintain entries that are internally configured within Niagara.
- 4. The List_Of_Object_Property_References property of the Schedule object will maintain entries that are internally configured within Niagara.
- 5. The Priority_For_Writing property of Schedule objects is not important for internal Niagara operation, as the priority at which a point is commanded is determined by the input to which the Schedule output is linked.
- 6. These Trend Log object properties are not writable if the backing history for the exported Trend Log is a Niagara-generated history. If the history is created as a BACnet Trend Log, then they are writable.
- 7. Trend Logs in Niagara are either COV or Interval. So the Log_Interval property cannot be written to a value other than 0 for COV logs, or to 0 for interval logs.

Object Type	Properties	
	Object_Identifier Object_Name	Resolution COV Increment
	Object Type	Time Delay
Analog Input	Present Value	Notification Class
	Description	High Limit
	_	
	Device_Type	Low_Limit
	Status_Flags	Deadband
	Event_State	Limit_Enable
	Reliability	Event_Enable
	Out_Of_Service	Acked_Transitions
	Units	Notify_Type
	Min_Pres_Value	Event_Time_Stamps
	Max_Pres_Value	D
	Object_Identifier	Priority_Array
	Object_Name	Relinquish_Default
	Object_Type	COV_Increment
	Present_Value	Time_Delay
	Description	Notification_Class
	Device_Type	High_Limit
Analog Output	Status_Flags	Low_Limit
Analog Output	Event_State	Deadband
	Reliability	Limit_Enable
	Out_Of_Service	Event_Enable
	Units	$Acked_Transitions$
	Min_Pres_Value	Notify_Type
	Max_Pres_Value	Event_Time_Stamps
	Resolution	
	Object_Identifier	COV_Increment
	Object_Name	Time_Delay
	Object_Type	Notification_Class
	Present_Value	High_Limit
	Description	Low_Limit
Analog Value	Status_Flags	Deadband
Analog value	Event_State	Limit_Enable
	Reliability	Event_Enable
	Out_Of_Service	$Acked_Transitions$
	Units	Notify_Type
	Priority_Array	Event_Time_Stamps
	Relinquish_Default	

Object Type	Properties	
	Object_Identifier	Change_Of_State_Time
	Object_Name	Change_Of_State_Count (0)
	Object_Type	Time_Of_State_Count_Reset
Binary Input	Present Value	Elapsed_Active_Time (0)
	Description	Time_Of_Active_Time_Reset
	Device Type	Time Delay
	Status_Flags	Notification_Class
	Event_State	Alarm_Value
	Reliability	Event_Enable
	Out_Of_Service	$Acked_\overline{T}ransitions$
	Polarity	Notify_Type
	Inactive_Text	Event_Time_Stamps
	Active_Text	
	Object_Identifier	Time_Of_State_Count_Reset
	Object_Name	Elapsed_Active_Time (0)
	Object_Type	Time_Of_Active_Time_Reset
	Present_Value	Minimum_Off_Time
	Description	Minimum_On_Time
	Device_Type	Priority_Array
	Status_Flags	Relinquish_Default
Binary Output	Event_State	Time_Delay
	Reliability	Notification_Class
	Out_Of_Service	Feedback_Value
	Polarity	Event_Enable
	Inactive_Text	$Acked_Transitions$
	Active_Text	Notify_Type
	Change_Of_State_Time	Event_Time_Stamps
	Change_Of_State_Count (0)	
	Object_Identifier	Elapsed_Active_Time (0)
	Object_Name	Time_Of_Active_Time_Reset
	Object_Type	Minimum_Off_Time
	Present_Value	Minimum_On_Time
	Description	Priority_Array
	Status_Flags	Relinquish_Default
Rinary Value	Event_State	Time_Delay
Binary Value	Reliability	Notification_Class
	Out_Of_Service	Alarm_Value
	Inactive_Text	Event_Enable
	Active_Text	$Acked_Transitions$
	Change_Of_State_Time	Notify_Type
	Change_Of_State_Count (0)	Event_Time_Stamps
	Time_Of_State_Count_Reset	

Object Type	Properties	
	Object_Identifier	Description
Calendar	Object_Name	Present_Value
	Object_Type	Date_List
	Object_Identifier	Segmentation_Supported
	Object_Name	Max_Segments_Accepted
	Object_Type	$Local_Time$
	System_Status	Local_Date
	Vendor_Name	UTC_Offset
	Vendor_Identifier	Daylight_Savings_Status
	Model_Name	$APDU_Segment_Timeout$
	Firmware_Revision	APDU_Timeout
Device	Application_Software_Revision	Number_Of_APDU_Retries
	Location	Max_Master
	Description	Max_Info_Frames
	Protocol_Version	Device_Address_Binding
	Protocol_Revision	Database_Revision
	Protocol_Services_Supported	Configuration_Files
	Protocol_Object_Types_Supported	Last_Restore_Time
	Object_List	Backup_Failure_Timeout
	Max_APDU_Length_Accepted	Active_COV_Subsriptions
	Object_Identifier	File_Size1
File	Object_Name	Modification_Date
(Stream Access Only)	Object_Type	Archive
(Sucam Access Only)	Description	Read_Only
	File_Type	File_Access_Method

Object Type	Properties	
	Object_Identifier	Proportional_Constant_Units
	Object_Name	Integral_Constant
	Object Type	Integral Constant Units
	Present_Value	Derivative_Constant
	Description	Derivative_Constant_Units
	Status_Flags	Bias
	Event_State	Maximum_Output
	Reliability	Minimum_Output
Loon	Out_Of_Service	Priority_For_Writing
Loop	Output_Units	COV_Increment
	Manipulated_Variable_Reference	Time_Delay
	Controlled_Variable_Reference	Notification_Class
	Controlled_Variable_Value	Error_Limit
	Controlled_Variable_Units	Event_Enable
	Setpoint_Reference	Acked_Transitions
	Setpoint2	Notify_Type
	Action	Event_Time_Stamps
	Proportional_Constant	
	Object_Identifier	Number_Of_States
	Object_Name	State_Text
	Object_Type	Time_Delay
	Present_Value	Notification_Class
Multi-state Input	Description	Alarm_Values
	Device_Type	Fault_Values
	Status_Flags	Event_Enable
	Event_State	$Acked_Transitions$
	Reliability	Notify_Type
	Out_Of_Service	Event_Time_Stamps
	Object_Identifier	State_Text
	Object_Name	Priority_Array
	Object_Type	Relinquish_Default
	Present_Value	Time_Delay
	Description	Notification_Class
Multi-state Output	Device_Type	Feedback_Value
	Status_Flags	Event_Enable
	Event_State	Acked_Transitions
	Reliability	Notify_Type
	Out_Of_Service	Event_Time_Stamps
	Number_Of_States	

Object Type	Properties	
	Object_Identifier	State_Text
	Object_Name	Priority_Array
	Object_Type	Relinquish_Default
	Present_Value	Time_Delay
	Description	Notification_Class
Multi-state Value	Status_Flags	Alarm_Values
	Event_State	Fault_Values
	Reliability	Event_Enable
	Out_Of_Service	$Acked_Transitions$
	Number_Of_States	Notify_Type
		Event_Time_Stamps
	Object_Identifier	Notification_Class
Notification Class	Object_Name	Priority
Notification Class	Object_Type	Ack_Required
	Description	Recipient_List3
	Object_Identifier	Schedule_Default
	Object_Name	List_Of_Object_Property_Refe
	Object_Type	rences4
Schedule	Description	Priority_For_Writing5
	Effective_Period	Status_Flags
	Weekly_Schedule	Reliability
	Exception_Schedule	Out_Of_Service
	Object_Identifier	Log_Buffer
	Object_Name	Record_Count (0)6
	Object_Type	Total_Record_Count
	Description	Notification_Threshold
	Log_Enable6	Records_Since_Notification
	Start_Time	Last_Notify_Record
Trend Log	Stop_Time	Event_State
	Log_DeviceObjectProperty	Notification_Class
	Log_Interval6, 7	Event_Enable
	COV_Resubscription_Interval	Acked_Transitions
	Client_COV_Increment	Notify_Type
	Stop_When_Full	Event_Time_Stamps
	Buffer_Size	

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) MS/TP master (Clause 9), baud rate(s): 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: 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.) \boxtimes Yes \square No
Networking Options:
 Router, Clause 6 – Routing configurations: Ethernet-IP, Ethernet-MS/TP, IP-MS/TP □ 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.
☒ ANSI X3.4 ☐ IBM /Microsoft DBCS ☒ ISO 8859-1 ☒ 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:

at

This product supports communications between BACnet and any third-party system to which WEBs can connect. Contact Honeywell for a list of supported protocols.