


HAWK Integration Controller	PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (PICS)	
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BACnet Protocol Implementation Conformance Statement

Date: Feb 24, 2014

Vendor Name: CentraLine by Honeywell

Product Name: CentraLine HAWK

Product Model Number: CLAXSERIES200, CLAXHAWK220, CLAXHAWK230, CLAXHAWK240, CLAXHAWK250, CLAXSERIES2MGP, CLAXHAWK216MGP, CLAXHAWK236MGP, CLAXHAWK246MGP, CLAXHAWK256MGP, CLAXSERIES600, CLAXHAWK630, CLAXHAWK640, CLAXHAWK650, CLAXHAWK660, CLAXSERIES600E, CLAXHAWK630E, CLAXHAWK640E, CLAXHAWK650E, CLAXHAWK660E

Application Software Version: 3.6.47 or higher

Firmware Revision: 3.6.47 or higher

BACnet Protocol Revision: 7

Product Description:

The CentraLine HAWK 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 the CentraLine HAWK. In addition, HAWK points, schedules, histories, and alarming can be exposed to BACnet for monitor and control by foreign BACnet clients.

BACnet Standardized Device Profile (Annex L):

- BACnet Advanced Operator Workstation (B-AWS)**
- BACnet Operator Workstation (B-OWS)**
- 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)**

Additional BACnet Interoperability Building Blocks Supported (Annex K):

<p>Data Sharing DS-RP-A, B DS-RPM-A, B DS-WP-A, B DS-WPM-A, B DS-COV-A, B DS-COVU-A, B DS-V-A DS-M-A DS-COVP-B</p>	<p>Device & Network Management DM-DDB-A, B DM-DOB-A, B DM-DCC-B DM-RD-B DM-TS-B DM-UTC-B DM-LM-A, B DM-BR-B DM-ANM-A DM-ADM-A DM-ATS-A DM-MTS-A</p>
<p>Alarm & Event Management AE-N-A, -I-B AE-ACK-A, B AE-ASUM-B AE-ESUM-B AE-INFO-B AE-VN-A AE-VM-A</p>	<p>Trending T-VMT-I-B, -E-B T-ATR-A, B T-V-A</p>
<p>Scheduling SCHED-I-B, -E-B SCHED-VM-A</p>	<p>Network Management NM-CE-A</p>

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.

Object Type	Properties	
Analog Input	Object_Identifier Object_Name Object_Type Present_Value Description <i>Device_Type</i> Status_Flags Event_State <i>Reliability</i> Out_Of_Service Units <i>Min_Pres_Value</i> <i>Max_Pres_Value</i>	<i>Resolution</i> COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable <i>Event_Enable</i> <i>Acked_Transitions</i> Notify_Type <i>Event_Time_Stamps</i>
Analog Output	Object_Identifier Object_Name Object_Type Present_Value Description <i>Device_Type</i> Status_Flags Event_State <i>Reliability</i> Out_Of_Service Units <i>Min_Pres_Value</i> <i>Max_Pres_Value</i> <i>Resolution</i>	Priority_Array Relinquish_Default COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable <i>Event_Enable</i> <i>Acked_Transitions</i> Notify_Type <i>Event_Time_Stamps</i>
Analog Value	Object_Identifier	COV_Increment

Object Type	Properties	
	Object_Name Object_Type Present_Value Description Status_Flags Event_State Reliability Out_Of_Service Units Priority_Array Relinquish_Default	Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps
Binary Input	Object_Identifier Object_Name Object_Type Present_Value Description Device_Type Status_Flags Event_State Reliability Out_Of_Service Polarity Inactive_Text Active_Text	Change_Of_State_Time Change_Of_State_Count (0) Time_Of_State_Count_Reset Elapsed_Active_Time (0) Time_Of_Active_Time_Reset Time_Delay Notification_Class Alarm_Value Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps
Binary Output	Object_Identifier Object_Name Object_Type Present_Value Description Device_Type Status_Flags Event_State Reliability Out_Of_Service Polarity Inactive_Text Active_Text Change_Of_State_Time Change_Of_State_Count (0)	Time_Of_State_Count_Reset Elapsed_Active_Time (0) Time_Of_Active_Time_Reset Minimum_Off_Time Minimum_On_Time Priority_Array Relinquish_Default Time_Delay Notification_Class Feedback_Value Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps
Binary Value	Object_Identifier Object_Name Object_Type Present_Value Description Status_Flags Event_State Reliability Out_Of_Service	Elapsed_Active_Time (0) Time_Of_Active_Time_Reset Minimum_Off_Time Minimum_On_Time Priority_Array Relinquish_Default Time_Delay Notification_Class Alarm_Value

Object Type	Properties	
	Inactive_Text Active_Text Change_Of_State_Time Change_Of_State_Count (0) Time_Of_State_Count_Reset	Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps
Calendar	Object_Identifier Object_Name Object_Type	Description Present_Value Date_List
Device	Object_Identifier Object_Name Object_Type System_Status Vendor_Name Vendor_Identifier Model_Name Firmware_Revision Application_Software_Revision Location 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	Daylight_Savings_Status APDU_Segment_Timeout APDU_Timeout Number_Of_APDU_Retries Time_Synchronization_Recipients Max_Master Max_Info_Frames Device_Address_Binding Database_Revision Configuration_Files Last_Restore_Time Backup_Failure_Timeout Active_COV_Subscriptions UTC_Time_Synchronization_Recipients Time_Synchronization_Interval Align_Intervals Interval_Offset proprietary-1338 proprietary-1339 proprietary-1340 proprietary-1341
File (Stream Access Only)	Object_Identifier Object_Name Object_Type Description File_Type	File_Size ¹ Modification_Date Archive Read_Only File_Access_Method
Loop	Object_Identifier Object_Name Object_Type Present_Value Description Status_Flags Event_State Reliability Out_Of_Service Output_Units Manipulated_Variable_Reference Controlled_Variable_Reference Controlled_Variable_Value	Proportional_Constant_Units Integral_Constant Integral_Constant_Units Derivative_Constant Derivative_Constant_Units Bias Maximum_Output Minimum_Output Priority_For_Writing COV_Increment Time_Delay Notification_Class Error_Limit

Object Type	Properties	
	Controlled_Variable_Units Setpoint_Reference Setpoint² Action Proportional_Constant	Deadband <i>Event_Enable</i> <i>Acked_Transitions</i> <i>Notify_Type</i> <i>Event_Time_Stamps</i>
Multi-state Input	Object_Identifier Object_Name Object_Type Present_Value Description <i>Device_Type</i> Status_Flags Event_State <i>Reliability</i> Out_Of_Service	Number_Of_States State_Text Time_Delay Notification_Class Alarm_Values <i>Fault_Values</i> <i>Event_Enable</i> <i>Acked_Transitions</i> Notify_Type <i>Event_Time_Stamps</i>
Multi-state Output	Object_Identifier Object_Name Object_Type Present_Value Description <i>Device_Type</i> Status_Flags Event_State <i>Reliability</i> Out_Of_Service Number_Of_States	State_Text Priority_Array Relinquish_Default Time_Delay Notification_Class <i>Feedback_Value</i> <i>Event_Enable</i> <i>Acked_Transitions</i> Notify_Type <i>Event_Time_Stamps</i>
Multi-state Value	Object_Identifier Object_Name Object_Type Present_Value Description Status_Flags Event_State <i>Reliability</i> Out_Of_Service Number_Of_States	State_Text Priority_Array Relinquish_Default Time_Delay Notification_Class Alarm_Values <i>Fault_Values</i> <i>Event_Enable</i> <i>Acked_Transitions</i> Notify_Type <i>Event_Time_Stamps</i>
Notification Class	Object_Identifier Object_Name Object_Type Description	Notification_Class Priority Ack_Required Recipient_List³
Schedule	Object_Identifier Object_Name Object_Type Present_Value Description Effective_Period <i>Weekly_Schedule</i>	Exception_Schedule Schedule_Default List_Of_Object_Property_References⁴ Priority_For_Writing⁵ Status_Flags Reliability Out_Of_Service

Object Type	Properties	
Trend Log	Object_Identifier Object_Name Object_Type Description Log_Enable ⁶ Start_Time Stop_Time Log_DeviceObjectProperty Log_Interval ⁶ Stop_When_Full Buffer_Size Log_Buffer Record_Count (0) ⁶	Total_Record_Count <i>Notification_Threshold</i> <i>Records_Since_Notification</i> <i>Last_Notify_Record</i> Event_State Notification_Class <i>Event_Enable</i> <i>Acked_Transitions</i> Notify_Type <i>Event_Time_Stamps</i> Logging_Type Status_Flags
Structured View	Object_Identifier Object_Name Object_Type Description	Node_Type <i>Node_Subtype</i> Subordinate_List <i>Subordinate_Annotations</i>

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.) Yes 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:

This product supports communications between BACnet and any third-party system to which CentraLine^{AX} can connect. Contact CentraLine for a list of supported protocols.

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