

October 2010

EBI R410 BACnet Direct Protocol Implementation Conformance Statement (PICS)

Topic: BACnet Protocol Implementation
Conformance Statement (PICS)
Date: October 2010
Version: 1.7
Applicable Products: Honeywell Enterprise Buildings Integrator
R410 with the following interfaces.
• BACnet Direct (Point Server)
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BACnet Protocol Implementation Conformance Statement (PICS)

Annex A - Protocol Implementation Conformance Statement

Date: 15th October 2010
Vendor ID: 17
Vendor Name: Honeywell International, Inc.
Product Name: Honeywell Enterprise Buildings Integrator (EBI)
Product Model Number: R410
Applications Software Version: 410.x.x.x
Firmware Revision: 410.x.x.x
BACnet Protocol Revision: 1.4

Product Description and Intended Use:

The Honeywell Enterprise Buildings Integrator BACnet Workstation.

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)
- BACnet Gateway (B-GW)

BACnet Interoperability Building Blocks Supported (Annex K):

| | | |
|-------------------------------------|--|-----------|
| Data Sharing | Data Sharing - Read Property-A | DS-RP-A |
| | Data Sharing - Read Property-B | DS-RP-B |
| | Data Sharing - Read Property Multiple-A | DS-RPM-A |
| | Data Sharing - Write Property-A | DS-WP-A |
| | Data Sharing - Write Property Multiple-A | DS-WPM-A |
| | Data Sharing - COV-A | DS-COV-A |
| | Data Sharing - COVP-A | DS-COVP-A |
| | Data Sharing – View-A | DS-V-A |
| | Data Sharing – Modify-A | DS-M-A |
| Alarm & Event Management | Alarm and Event - Notification-A | AE-N-A |
| | Alarm and Event - ACK-A | AE-ACK-A |
| | Alarm and Event - Alarm Summary View-A | AE-AS-A |
| | Alarm and Event – Alarm Summary-A | AE-ASUM-A |
| | Alarm and Event – Alarm and Event-Enrolment Summary -A | AE-ESUM-A |

| | | |
|--|--|------------|
| | Alarm and Event – Information-A | AE-INFO-A |
| | Alarm and Event – View and Modify-A | AE-VM-A |
| | Alarm and Event – View Notifications-A | AE-VN-A |
| | Alarm and Event - LifeSafety-A | AE-LS-A |
| Scheduling | Scheduling – View and Modify-A | SCHED-VM-A |
| | Scheduling – Weekly Schedule-A | SCHED-WS-A |
| Trending | Trending-View-A | T-V-A |
| | Trending – Automated Trend Retrieval-A | T-ATR-A |
| Device & Network Management | Device Management - Automatic Device Mapping-A | DM-ADM-A |
| | Device Management - Dynamic Device Binding-A | DM-DDB-A |
| | Device Management - Dynamic Device Binding-B | DM-DDB-B |
| | Device Management - Dynamic Object Binding-A | DM-DOB-A |
| | Device Management - Dynamic Object Binding-B | DM-DOB-B |
| | Device Management - Device Communication Control-A | DM-DCC-A |
| | Device Management – Manual Time Synchronization-A | DM-MTS-A |
| | Device Management - Reinitialise Device-A | DM-RD-A |
| | Device Management - TimeSynchronization-A | DM-TS-A |
| | Device Management - Backup and Restore-A | DM-BR-A |
| | Device Management - List Manipulation-A | DM-LM-A |
| | Device Management - Connection Establishment-A | NM-CE-A |
| | Device Management - UTCTimeSynchronization-A | DM-UTC-A |

Segmentation Capability:

Able to transmit segmented messages yes no Window Size 16
Able to receive segmented messages yes no Window Size 16

Standard Object Types Supported:

Device Properties:

| Required Properties | Optional Properties | Proprietary Properties |
|------------------------------|----------------------------|------------------------|
| Object_Identifier | | |
| Object_Name | | |
| Object_Type | | |
| System_Status | | |
| Vendor_Name | | |
| Vendor_Identifier | | |
| Model_Name | | |
| Firmware_Revision | | |
| Application_Software_Version | | |
| | Location | |
| | Description | |
| | Protocol_Conformance_Class | |
| Protocol_Version | | |
| Protocol_Revision | | |
| Protocol_Services_Supported | | |

| | | |
|---------------------------------|-----------------------|--|
| Protocol_Object_Types_Supported | | |
| Object_List | | |
| Max_APDU_Length_Accepted | | |
| Segmentation_Supported | | |
| | Max_Segments_Accepted | |
| | APDU_Segment_Timeout | |
| APDU_Timeout | | |
| Number_Of_APDU_Retries | | |
| Database_Revision | | |
| Device_Address_Binding | | |

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):
- 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.

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

Additional Information:

The Honeywell Enterprise Building Integrator BACnet Workstation supports devices which implement either algorithmic or intrinsic alarming methodologies.

Standard Objects and Properties Supported:**Accumulator Object:**

| Readable Properties | Writable Properties |
|---------------------------|---------------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | Present_Value |
| Description | |
| Device_Type | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | |
| Scale | |
| Units | Units |
| Prescale | |
| Max_Pres_Value | |
| Value_Change_Time | |
| Value_Before_Change | |
| Value_Set | Value_Set |
| Logging_Record | |
| Logging_Object | |
| Pulse_Rate | Pulse_Rate |
| High_Limit | High_Limit |
| Low_Limit | Low_Limit |
| Limit_Monitoring_Interval | Limit_Monitoring_Interval |
| Notification_Class | |
| Time_Delay | Time_Delay |
| Limit_Enable | Limit_Enable |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |

Analog Input Object:

| Readable Properties | Writable Properties |
|---------------------|---------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | Present_Value |
| Description | |
| Device_Type | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |
| Update_Interval | Update_Interval |
| Units | Units |
| Min_Pres_Value | Min_Pres_Value |
| Max_Pres_Value | Max_Pres_Value |
| Resolution | Resolution |
| COV_Increment | COV_Increment |

| | |
|--------------------|--------------|
| Time_Delay | Time_Delay |
| Notification_Class | |
| High_Limit | High_Limit |
| Low_Limit | Low_Limit |
| Deadband | Deadband |
| Limit_Enable | Limit_Enable |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |

Analog Output Object:

| Readable Properties | Writable Properties |
|----------------------------|----------------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | Present_Value |
| Description | |
| Device_Type | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |
| Units | Units |
| Min_Pres_Value | Min_Pres_Value |
| Max_Pres_Value | Max_Pres_Value |
| Resolution | Resolution |
| Priority_Array | |
| Relinquish_Default | Relinquish_Default |
| COV_Increment | COV_Increment |
| Time_Delay | Time_Delay |
| Notification_Class | |
| High_Limit | High_Limit |
| Low_Limit | Low_Limit |
| Deadband | Deadband |
| Limit_Enable | Limit_Enable |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |

Analog Value Object:

| Readable Properties | Writable Properties |
|----------------------------|----------------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | Present_Value |
| Description | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |
| Units | Units |
| Priority_Array | |
| Relinquish_Default | Relinquish_Default |
| COV_Increment | COV_Increment |
| Time_Delay | Time_Delay |
| Notification_Class | |
| High_Limit | High_Limit |
| Low_Limit | Low_Limit |

| | |
|-------------------|--------------|
| Deadband | Deadband |
| Limit_Enable | Limit_Enable |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |

Averaging Object:

| Readable Properties | Writable Properties |
|---------------------------|---------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Minimum_Value | |
| Minimum_Value_Timestamp | |
| Average_Value | |
| Variance_Value | |
| Maximum_Value | |
| Maximum_Value_Timestamp | |
| Description | |
| Attempted_Samples | Attempted_Samples |
| Valid_Samples | |
| Object_Property_Reference | |
| Window_Interval | Window_Interval |
| Window_Samples | Window_Samples |

Binary Input Object:

| Readable Properties | Writable Properties |
|---------------------------|---------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | Present_Value |
| Description | |
| Device_Type | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |
| Polarity | Polarity |
| Inavtive_Text | Inavtive_Text |
| Active_Text | Active_Text |
| Change_Of_State_Time | |
| Change_Of_State_Count | |
| Time_Of_State_Count_Reset | |
| Elapsed_Active_Time | |
| Time_Of_Active_Time_Reset | |
| Time_Delay | Time_Delay |
| Notification_Class | |
| Alarm_Value | Alarm_Value |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |

Binary Output Object:

| Readable Properties | Writable Properties |
|---------------------|---------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | Present_Value |
| Description | |

| | |
|---------------------------|--------------------|
| Device_Type | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |
| Polarity | Polarity |
| Inavtive_Text | Inavtive_Text |
| Active_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_Off_Time |
| Minimum_On_Time | Minimum_On_Time |
| Priority_Array | |
| Relinquish_Default | Relinquish_Default |
| Time_Delay | Time_Delay |
| Notification_Class | |
| Feedback_Value | Feedback_Value |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |

Binary Value Object:

| Readable Properties | Writable Properties |
|---------------------------|---------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | Present_Value |
| Description | |
| Device_Type | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |
| Inavtive_Text | Inavtive_Text |
| Active_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_Off_Time |
| Minimum_On_Time | Minimum_On_Time |
| Priority_Array | |
| Relinquish_Default | Relinquish_Default |
| Time_Delay | Time_Delay |
| Notification_Class | |
| Alarm_Value | Alarm_Value |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | |
| Event_Time_Stamps | |

Calendar Object:

| Readable Properties | Writable Properties |
|---------------------|---------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Description | Description |
| Date_List | Date_List |

Command Object:

| Readable Properties | Writable Properties |
|-----------------------|---------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Description | |
| Present_Value | Present_Value |
| In_Process | |
| All_Writes_Successful | |
| Action_Text | Action_Text |

Device Object:

| Readable Properties | Writable Properties |
|---------------------------------|------------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| System_Status | |
| Vendor_Name | |
| Vendor_Identifier | |
| Model_Name | |
| Firmware_Revision | |
| Application_Software_Version | |
| Location | |
| Description | |
| Protocol_Version | |
| Protocol_Revision | |
| Protocol_Services_Supported | |
| Protocol_Object_Types_Supported | |
| Object_List | |
| Max_APDU_Length_Accepted | |
| Segmentation_Supported | |
| Local_Time | |
| Local_Date | |
| UTC_Offset | UTC_Offset |
| Daylight_Saving_Status | Daylight_Saving_Status |
| APDU_Segment_Timeout | APDU_Segment_Timeout |
| Number_Of_APDU_Retries | Number_Of_APDU_Retries |

Event Enrollment Object:

| Readable Properties | Writable Properties |
|---------------------------|---------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Description | |
| Event_Type | |
| Notify_Type | |
| Object_Property_Reference | |
| Event_State | |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notification_Class | |
| Event_Time_Stamp | Event_Time_Stamp |

File Object:

| Readable Properties | Writable Properties |
|---------------------|---------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Description | |
| File_Type | |
| File_Size | File_Size |

| | |
|--------------------|---------|
| Modification_Date | |
| Archive | Archive |
| Read_Only | |
| File_Access_Method | |

Group Object:

| Readable Properties | Writable Properties |
|-----------------------|---------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Description | |
| List_Of_Group_Members | |
| Present_Value | |

Life Safety Point Object:

| Readable Properties | Writable Properties |
|--------------------------|--------------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | Present_Value |
| Tracking_Value | |
| Description | |
| Device_Type | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |
| Notification_Class | |
| Life_Safety_Alarm_Values | Life_Safety_Alarm_Values |
| Alarm_Values | Alarm_Values |
| Fault_Values | Fault_Values |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |
| Silenced | |
| Operation_Expected | |
| Maintenance_Required | |
| Setting | |
| Direct_Reading | |
| Units | |
| Member_Of | |

Life Safety Zone Object:

| Readable Properties | Writable Properties |
|--------------------------|--------------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | Present_Value |
| Tracking_Value | |
| Description | |
| Device_Type | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |
| Notification_Class | |
| Life_Safety_Alarm_Values | Life_Safety_Alarm_Values |
| Alarm_Values | Alarm_Values |
| Fault_Values | Fault_Values |
| Event_Enable | Event_Enable |
| Acked_Transitions | |

| | |
|----------------------|-------------|
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |
| Silenced | |
| Operation_Expected | |
| Maintenance_Required | |
| Zone_Members | |

Loop Object:

| Readable Properties | Writable Properties |
|--------------------------------|--------------------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | Present_Value |
| Description | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |
| Update_Interval | |
| Output_Units | |
| Manipulated_Variable_Reference | Manipulated_Variable_Reference |
| Controlled_Variable_Reference | Controlled_Variable_Reference |
| Controlled_Variable_Value | Controlled_Variable_Value |
| Controlled_Variable_Units | Controlled_Variable_Units |
| Setpoint_Reference | Setpoint_Reference |
| Setpoint | Setpoint |
| Action | Action |
| Proportional_Constant | Proportional_Constant |
| Proportional_Constant_Units | Proportional_Constant_Units |
| Integral_Constant | Integral_Constant |
| Integral_Constant_Units | Integral_Constant_Units |
| Derivative_Constant | Derivative_Constant |
| Derivative_Constant_Units | Derivative_Constant_Units |
| Bias | Bias |
| Maximum_Output | Maximum_Output |
| Minimum_Output | Minimum_Output |
| Priority_For_Writing | Priority_For_Writing |
| COV_Increment | COV_Increment |
| Time_Delay | Time_Delay |
| Notification_Class | |
| Error_Limit | Error_Limit |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |

Multi-State Input Object:

| Readable Properties | Writable Properties |
|---------------------|---------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | Present_Value |
| Description | |
| Device_Type | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |
| Number_Of_States | Number_Of_States |
| State_Text | |
| Notification_Class | |
| Alarm_Values | Alarm_Values |
| Fault_Values | Fault_Values |

| | |
|-------------------|--------------|
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |

Multi-State Output Object:

| Readable Properties | Writable Properties |
|----------------------------|----------------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | Present_Value |
| Description | |
| Device_Type | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |
| Number_Of_States | Number_Of_States |
| State_Text | |
| Priority_Array | |
| Relinquish_Default | Relinquish_Default |
| Time_Delay | Time_Delay |
| Notification_Class | |
| Feedback_Values | Feedback_Values |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |

Multi-State Value Object:

| Readable Properties | Writable Properties |
|----------------------------|----------------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | Present_Value |
| Description | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |
| Number_Of_States | Number_Of_States |
| State_Text | |
| Priority_Array | |
| Relinquish_Default | Relinquish_Default |
| Notification_Class | |
| Alarm_Values | Alarm_Values |
| Fault_Values | Fault_Values |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |

Notification Class Object:

| Readable Properties | Writable Properties |
|----------------------------|----------------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Description | |
| Notification_Class | |
| Priority | Priority |
| Ack_Required | Ack_Required |

Program Object:

| Readable Properties | Writable Properties |
|---------------------|---------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Program_State | |
| Program_Change | Program_Change |
| Reason_For_Halt | |
| Description_Of_Halt | |
| Program_Location | |
| Description | |
| Instance_Of | |
| Status_Flags | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |

Pulse Converter Object:

| Readable Properties | Writable Properties |
|---------------------|---------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Description | |
| Present_Value | Present_Value |
| Input_Reference | |
| Status_Flags | |
| Event_State | |
| Reliability | |
| Out_Of_Service | Out_Of_Service |
| Units | Units |
| Scale_Factor | Scale_Factor |
| Adjust_Value | Adjust_Value |
| Count | |
| Update_Time | |
| Count_Change_Time | |
| Count_Before_Change | |
| COV_Increment | COV_Increment |
| COV_Period | COV_Period |
| Notification_Class | |
| Time_Delay | Time_Delay |
| High_Limit | High_Limit |
| Low_Limit | Low_Limit |
| Deadband | Deadband |
| Limit_Enable | Limit_Enable |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |

Schedule Object:

| Readable Properties | Writable Properties |
|------------------------------------|------------------------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Present_Value | |
| Description | |
| Effective_Period | Effective_Period |
| Weekly_Schedule | Weekly_Schedule |
| Exception_Schedule | Exception_Schedule |
| List_Of_Object_Property_References | List_Of_Object_Property_References |
| Priority_For_Writing | Priority_For_Writing |
| Status_Flags | |
| Reliability | |

| | |
|------------------|--|
| Out_Of_Service | |
| Schedule_Default | |

Trend Log Object:

| Readable Properties | Writable Properties |
|-----------------------------|-----------------------------|
| Object_Identifier | |
| Object_Name | |
| Object_Type | |
| Description | |
| Log_Enable | Log_Enable |
| Start_Time | Start_Time |
| Stop_Time | Stop_Time |
| Log_DeviceObjectProperty | |
| Log_Interval | Log_Interval |
| COV_Resubscription_Interval | COV_Resubscription_Interval |
| Client_COV_Increment | |
| Stop_When_Full | Stop_When_Full |
| Buffer_Size | |
| Record_Count | |
| Total_Record_Count | |
| Notification_Threshold | Notification_Threshold |
| Records_Since_Notification | |
| Last_Notify_Record | |
| Event_State | |
| Notification_Class | |
| Event_Enable | Event_Enable |
| Acked_Transitions | |
| Notify_Type | Notify_Type |
| Event_Time_Stamps | |