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| Honeywell International Automation & Control Solutions | StrykerBACnetVAV Protocol Implementation Conformance Statement Project: 723325 | |
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CHANGE CONTROL HISTORY

| Version | Date | Author | Change Description |
|----------------|-------------|-----------------|--|
| 1 | 5/20/2015 | Ralph Brindle | Initial draft |
| 2 | 5/21/2015 | Ralph Brindle | Incorporating feedback from Jeff Jones |
| 3 | 5/21/2015 | Ralph Brindle | Added COV related services |
| 4 | 5/21/2015 | Ralph Brindle | Corrected service associated with DS-COV-B to be SubscribeCOV, not SubscribeCOVProperty |
| 5 | 5/22/2015 | Ralph Brindle | Corrected BIBB and service for COV from DS-COV-B/ SubscribeCOV to DS-COVP-B/SubscribeCOVProperty. |
| 6 | 5/22/2015 | Ralph Brindle | Removed COV_Increment properties from AI,AO,AV objects. These are not needed when supporting DS-COVP-B. |
| 7 | 5/28/2015 | Ralph Brindle | Added program object properties reason-for-halt, description-of-halt, program-location, and instance-of. |
| 8 | 6/2/2015 | Ralph Brindle | Added support for DM-RD-B BIBB and ReinitializeDevice service. Changed from DS-COVP-B/SubscribeCOVProperty to DS-COV-B/SubscribeCOV after the realization that Niagara does not support DS-COVP-A. Added read only COV_Increment properties to AI,AO,AV objects. |
| 9 | 6/8/2015 | Aaron Dsouza | Corrected the spelling of DS-COV-B |
| 10 | 7/27/2015 | Ralph Brindle | Removed support for UCS-2 character set. |
| 11 | 8/5/2015 | Aaron Dsouza | Removed support for DS-RP-A, DS-WP-A, DM-DDB-A BIBBs Removed support for ReadProperty – Initiates, WriteProperty – Initiates and Who-is – Initiates. |
| 12 | 8/9/2015 | Arunkumar Anand | Added back the support for DS-RP-A, DS-WP-A, DM-DDB-A BIBBs support for ReadProperty – Initiates, WriteProperty – Initiates and Who-is – Initiates Updated build number of Application Software version to 15 Firmware build number to 11 |



BACnet Protocol Implementation Conformance Statement

Vendor Name: Honeywell International, Inc

Product Name: Stryker BACnet VAV

Product Model Numbers: CVB4024NS-VAV1/U and CVB4022AS-VAV1/U

Application Software Version: 28.00 (build 18) **Firmware Revision:** 1.00 (build 11) **BACnet Protocol Revision:** 15

Product Description:

The Stryker BACnet VAV controller is a configurable controller designed for HVAC variable air volume applications. The Stryker BACnet VAV 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)
- 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):

| <i>BIBB</i> |
|--------------------|
| DS-RP-A/B |
| DS-RPM-B |
| DS-WP-A/B |
| DS-WPM-B |
| DM-DDB-A/B |
| DM-DOB-B |
| DM-DCC-B |
| DM-TS-B |
| DM-RD-B |
| DM-UTC-B |
| DS-COV-B |



List all BACnet Interoperability Services Supported:

| <i>Service</i> | <i>Initiates</i> | <i>Responds to</i> |
|----------------------------|------------------|--------------------|
| ReadProperty | X | X |
| ReadPropertyMultiple | | X |
| WriteProperty | X | X |
| WritePropertyMultiple | | X |
| Who-Is | X | X |
| I-Am | X | X |
| Who-Has | | X |
| I-Have | X | |
| DeviceCommunicationControl | | X |
| TimeSynchronization | | X |
| UTCTimeSynchronization | | X |
| AtomicReadFile | | X |
| AtomicWriteFile | | X |
| ConfirmedCOVNotification | X | |
| UnconfirmedCOVNotification | X | |
| SubscribeCOV | | X |
| ReinitializeDevice | | 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" |
| Property_List | R | R/O |
| 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 |
| Location | O | R/W |
| Description | O | R/W |
| Protocol_Version | R | R/O=1 |
| Protocol_Revision | R | R/O=15 |
| 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 |
| Max_Master | O | R/W |
| Max_Info_Frames | O | R/W |
| Device_Address_Binding | R | R/O |
| Database_Revision | R | R/O |
| 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" |
| Property_List | R | R/O |
| Description | O | R/O |
| Program_Change | W | R/W |
| Program_State | R | R/O |
| Status_Flags | R | R/O |
| Out_Of_Service | R | R/O=FALSE |
| Reason_For_Halt | No | R/O |
| Description_Of_Halt | No | R/O |
| Program_Location | No | R/O |
| Instance_Of | No | R/O |



File Object

| Property | BACnet Conf Code | Implementation |
|--------------------|------------------|-------------------|
| Object_Identifier | R | R/O |
| Object_Name | R | R/O |
| Object_Type | R | R/O="file" |
| Property_List | R | R/O |
| Description | O | R/O |
| File_Type | R | R/O="bin" |
| File_Size | R | R/O |
| Modification_Date | R | R/O |
| Archive | W | R/W |
| 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" |
| Property_List | R | R/O |
| Present_Value | R | R/O |
| Status_Flags | R | R/O |
| Event_State | R | R/O |
| Out_Of_Service | R | R/O=FALSE |
| Units | R | R/O |
| COV_Increment | O | 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" |
| Property_List | R | R/O |
| Present_Value | W | R/W |
| Status_Flags | R | R/O |
| Event_State | R | R/O |
| Out_Of_Service | R | R/O=FALSE |
| Units | R | R/O |
| Priority_Array | R | R/O |
| Relinquish_Default | R | R/W |
| COV_Increment | O | R/O |

Analog Value

| Property | BACnet Conf Code | Implementation |
|-------------------|------------------|--------------------|
| Object_Identifier | R | R/O |
| Object_Name | R | R/O |
| Object_Type | R | R/O="analog-value" |
| Property_List | R | R/O |
| Present_Value | R | R/W |
| Status_Flags | R | R/O |
| Event_State | R | R/O |
| Out_Of_Service | R | R/O=FALSE |
| Units | R | R/O |
| COV_Increment | O | 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" |
| Property_List | R | R/O |
| Present_Value | R | R/O |
| Status_Flags | R | R/O |
| Event_State | R | R/O |
| 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" |
| Property_List | R | R/O |
| Present_Value | W | R/W |
| Status_Flags | R | R/O |
| Event_State | R | R/O |
| Out_Of_Service | R | R/O=FALSE |
| Polarity | R | R/O |
| Priority_Array | R | R/O |
| Relinquish_Default | R | R/W |

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 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 ISO 10646 (UTF-8)
 ISO 10646 (UCS-2)

IBM/Microsoft DBCS
 ISO 10646 (UCS-4)

ISO 8859-1
 JIS C 6226

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports:
