Honeywell

June 2017

Enterprise Buildings Integrator R500 Protocol Implementation Conformance Statement (PICS)

Topic:BACnet Protocol Implementation
Conformance Statement (PICS)Date:June 2017
VersionApplicable ProductsHoneywell Enterprise Buildings Integrator

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Honeywell Enterprise Buildings Integrator

BACnet Protocol Implementation Conformance Statement

Date: 15 June 2017 Vendor ID: 17 Vendor Name: Honeywell International, Inc. Product Name: Honeywell Enterprise Buildings Integrator[™] Product Model Number: R500 Applications Software Version: 1012.0.0 Firmware Revision: R500.1 BACnet Protocol Revision:1.12

Product Description: Honeywell Enterprise Buildings Integrator[™] BACnet Workstation. Note: this product cannot be used to modify BACnet objects on sites requiring UL Classification.

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)

BACnet Interoperability Building Blocks Supported (Annex K):

Data Sharing	Data Sharing - ReadProperty-A	DS-RP-A
Dula onanig	Data Sharing - ReadProperty-B	DS-RP-B
	Data Sharing - ReadPropertyMultiple-A	DS-RPM-A
	Data Sharing - WriteProperty-A	DS-WP-A
	Data Sharing - WriteProperty-B	DS-WP-B
	Data Sharing - WritePropertyMultiple-A	DS-WPM-A
	Data Sharing - COV-A	DS-COV-A
	Data Sharing - COVP-A	DS-COVP-A
	Data Sharing - COV-Unsubscribed-A	DS-COVU-A
	Data Sharing - View-A	DS-V-A
	Data Sharing - Advanced View-A	DS-AV-A
	Data Sharing - Modify-A	DS-M-A
	Data Sharing - Advanced Modify - A	DS-AM-A
Alarm & Event	Alarm and Event - Notification-A	AE-N-A
Management		
	Alarm and Event - ACK-A	AE-ACK-A

	Alarm and Event - Alarm Summary View-A	AE-AS-A
	Alarm and Event - LifeSafety - A	AE-LS-A
	Alarm and Event Management - View Notifications-A	AE-VN-A
	Alarm and Event Management - Advanced View Notifications-A	AE-AVN-A
	Alarm and Event Management - View and Modify-A	AW-VM-A
	Alarm and Event Management - Advanced View and Modify-A	AE-AVM-A
	Alarm and Event Management - Alarm Summary View-A	AE-AS-A
	Alarm and Event Management - Event Log View-	AE-ELV-A
	Alarm and Event Management - Event Log View and Modify-A	AE-ELVM-A
Scheduling	Scheduling - Advanced View and Modify-A	SCHED-AVM-A
J J	Scheduling - View and Modify-A	SCHED-VM-A
	Scheduling - Weekly Schedule-A	SCHED-WS-A
Trending	Trending - Automated Trend Retrieval-A	T-ATR-A
g	Trending - Automated Multiple Value Retrieval-A	T-AMVR-A
	Trending - View-A	T-V-A
	Trending - Advanced View and Modify-A	T-AVM-A
	Trending - Archival-A	T-A-A
Device &	Device Management - Dynamic Device Binding-A	DM-DDB-A
Network Management		DIVI-DDD-A
management	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	DM-DCC-A
	Control-A	DIVI-DCC-A
	Device Management - TimeSynchronization-A	DM-TS-A
	Device Management - UTCTimeSynchronization-	DM-UTC-A
	Device Management - ReinitializeDevice-A	DM-RD-A
	Device Management - Backup and Restore-A	DM-BR-A
	Device Management - Restart-A	DM-R-A
	Device Management - List Manipulation-A	DM-LM-A
	Device Management - Object Creation and Deletion-A	DM-OCD-A
	Network Management - Connection Establishment-A	NM-CE-A
	Device Management - Automated Network Mapping-A	DM-ANM-A
	Device Management - Automatic Device Mapping-A	DM-ADM-A
	Device Management - Automatic Time Synchronization-A	DM-ATS-A
	Device Management - Manual Time Synchronization-A	DM-MTS-A

Segmentation Capability:

Able to transmit segmented messages	\checkmark	yes 🛛 no	Window Size <u>16</u>
Able to receive segmented messages	\checkmark	yes 🛛 no	Window Size <u>16</u>

Standard Object Types Supported:

Device Object:

Dynamically creatable? No Dynamically deletable? No

Property	Required	Required by BIBB	Optional	Writable
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		✓		
Max_Segments_Accepted		✓		
Local_Time		✓		
Local_Date		~		
UTC_Offset		✓		
Daylight_Savings_Status		✓		
APDU_Segment_Timeout		✓		
APDU_Timeout	✓			
Number_Of_APDU_Retries	✓			
Time_Synchronization_Recipients		✓		✓
Device_Address_Binding	✓			
Database Revision	✓			
Backup_Failure_Timeout	✓			✓
UTC_Time_Synchronization_Recipients		✓		✓
Time_Synchronization_Interval		✓		✓
Align_Intervals		✓		✓
Interval_Offset		✓		✓

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:
- 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

Character Sets Supported:

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

\checkmark	ISO 10646 (UTF-8)	IBM™/Microsoft™ DBCS	\checkmark	ISO 8859-1
\checkmark	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/network(s) that the gateway supports:

Not a gateway

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 Kevs
 - □ Supports encryption (NS-ED BIBB)
 - □ Key Server (NS-KS BIBB)

Object Types Viewable and Modifiable from EBI

Object type	Viewable	Modifiable
Analog Input		
Analog Output		
Analog Value		
Binary Input		
Binary Output		<u> </u>
Binary Value		<u> </u>
Calendar		
Command		
Device		
Event Enrollment		
File		
Group		
Loop		
-		
Multi State Input		
Multi State Output Notification Class		
Program		
Schedule		
Averaging		
Multi State Value		
Trend Log		
Life Safety Point		
Life Safety Zone		Image: Second se
Accumulator		
Pulse Converter		
Event Log		
Global Group		<u> </u>
Trend Log Multiple		
Load Control		
Structured View		
Access Door		
Access Credential		
Access Point		
Access Rights		
Access User		
Access Zone		
Credential Data Input		
Network Security		
Bitstring Value	$\mathbf{\nabla}$	
Characterstring Value	V	V
Data Pattern Value	V	V
Date Value	$\mathbf{\nabla}$	$\overline{\mathbf{A}}$
Datetime Pattern Value	$\mathbf{\nabla}$	\checkmark
Datetime Value	$\mathbf{\nabla}$	\square
Integer Value	V	V
Large Analog Value	V	\checkmark
Octetstring Value	V	\checkmark
Positive Integer Value	V	\checkmark
Time Pattern Value	M	$\mathbf{\nabla}$
Time Value	M	\checkmark