ANNEX A - PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (NORMATIVE)
(This annex is part of this Standard and is required for its use.)

BACnet Protocol Implementation Conformance Statement

Date: 2017-07-07
Vendor Name: ABB
Product Name: AC/S1.2.1 Application Controller, Premium, MDRC
Product Model Number: _____
Application Software Version: 1.0   **Firmware Revision:** 14.1.29   **BACnet Protocol Revision:** 14

Product Description:
Application controller for Fahrenheit family products.
_____
_____
_____
_____
_____
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_____

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)**

X **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): DS-RP-B, DS-RPM-B, DS-WP-B,
DS-WPM-B, DS-COV-B, DS-COVP-B, AE-N-I-B, AE-ACK-B, AE-INFO-B, AE-ASUM-B, AE-ESUM-B,
SCHED-I-B, DM-DDB-A, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-UTC-B, DM-RD-B,
_____

_____

Segmentation Capability:

X Able to transmit segmented messages   Window Size 8
X Able to receive segmented messages   Window Size 8

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 all properties that are conditionally writable where not otherwise required by this standard
6) List of proprietary properties and for each its property identifier, datatype, and meaning
7) List of any property range restrictions

1) CreateObject is not supported
2) DeleteObject is not supported
3) The following tables list of the optional properties
4) The following tables list of all properties that are writable
5) The following tables list of all properties that are conditionally writable

Property Identifier	Device Object
OBJECT_IDENTIFIER	R
OBJECT_NAME	R/W
OBJECT_TYPE	R
SYSTEM_STATUS	R
VENDOR_NAME	R
VENDOR_IDENTIFIER	R
MODEL_NAME	R
FIRMWARE_REVISION	R
APP_SOFTWARE_VERSION	R
PROT_VERSION	R
PROTOCOL_REVISION	R
PROT_SERVICES_SUPPORTED	R
PROT_OBJ_TYPES_SUPPORTED	R
OBJECT_LIST	R
MAX_APDU_LENGTH_ACCEPTED	R
SEGMENTATION_SUPPORTED	R
MAX_SEGMENTS_ACCEPTED	R
LOCAL_TIME	R
LOCAL_DATE	R
APDU_SEGMENT_TIMEOUT	R
APDU_TIMEOUT	R
NUMBER_OF_APDU_RETRIES	R
DEVICE_ADDRESS_BINDING	R
DATABASE_REVISION	R
ACTIVE_COV_SUBSCRIPTIONS	R
LAST_RESTART_REASON	R
TIME_OF_DEVICE_RESTART	R
RESTART_NOTIFICATION_RECIPIENTS	R
PROPERTY_LIST	R

Property Identifier	Object		
	Binary Value	**Multi-State Value**	**Analog Value Integer Value Positive Integer Value**
PRESENT_VALUE	R/W*	R/W*	R/W*
INACTIVE_TEXT	R		
ACTIVE_TEXT	R		
ALARM_VALUE	R/W	R/W	
EVENT_ENABLE	R/W	R/W	R/W
EVENT_STATE	R	R	R
TIME_DELAY	R/W	R/W	R/W
TIME_DELAY_NORMAL	R/W	R/W	R/W
NOTIFICATION_CLASS	R/W	R/W	R/W
ACKED_TRANSITIONS	R	R	R
NOTIFY_TYPE	R/W	R/W	R/W
EVENT_TIME_STAMPS	R	R	R
EVENT_DETECTION_ENABLE	R	R	R
EVENT_ALGORITHM_INHIBIT	R/W	R/W	R/W
EVENT_ALGORITHM_INHIBIT_REF	R/W	R/W	R/W
OBJECT_IDENTIFIER	R	R	R
OBJECT_NAME	R	R	R
OBJECT_TYPE	R	R	R
STATUS_FLAGS	R	R	R
OUT_OF_SERVICE	R/W	R/W	R/W
NUMBER_OF_STATES		R	
STATE_TEXT		R	
UNITS			R
LOW_LIMIT			R/W
HIGH_LIMIT			R/W
DEADBAND			R/W
LIMIT_ENABLE			R/W
COV_INCREMENT			R/W
	R/W* - optionally editable (based on configuration)		

Property Identifier	Object			
	Date Time Pattern Value	**Schedule**	**Calendar**	**Notification Class**
PRESENT_VALUE	R/W*	R	R	
EVENT_STATE	R			
OBJECT_IDENTIFIER	R	R	R	R
OBJECT_NAME	R	R	R	R/W
OBJECT_TYPE	R	R	R	R
STATUS_FLAGS	R	R		
OUT_OF_SERVICE	R/W	R/W		
EFFECTIVE_PERIOD		R		
WEEKLY_SCHEDULE		R/W*		
EXCEPTION_SCHEDULE		R/W*		
SCHEDULE_DEFAULT		R/W*		
OBJ_REFERENCES_LIST		R/W		
PRIORITY_FOR_WRITING		R/W		
RELIABILITY		R		
DATELIST			R/W	
NOTIFICATION_CLASS				R
PRIORITY				R/W
ACK_REQUIRED				R/W
RECIPIENT_LIST				R/W
	R/W* - optionally editable (based on configuration)			

6) None
7) See details:
   - Based On configuration, Date Time Pattern Value Object handles only specific fields (related to date vs. related to time) while others must remain undefined.
   - Schedule Object requires date specification according to BACnet Addendum

Data Link Layer Options:

X BACnet IP, (Annex J)

X BACnet IP, (Annex J), Foreign Device

☐ ISO 8802-3, Ethernet (Clause 7)

☐ ATA 878.1, 2.5 Mb. ARCNET (Clause 8)

☐ ATA 878.1, EIA-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   X 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

Network Security Options:

X 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 Keys:
　　　☐ Supports encryption (NS-ED BIBB)
　　　☐ Key Server (NS-KS BIBB)

Character Sets Supported:

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

X ISO 10646 (UTF-8)　　　☐ IBM™/Microsoft™ DBCS　　☐ ISO 8859-1
☐ 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/networks(s) that the gateway supports:
_____
_____
_____
_____
_____
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