3951 Westerre Parkway, Suite 350
Richmond, Virginia 23233 USA
1.804.747.4771 Phone
1.804.747.5204 Fax

TRIDIUM NIAGARA 4.4
BACNET WORKSTATION PICS

BACnet Protocol Implementation Conformance Statement

Date: January 29, 2019
Vendor Name: Tridium
Product Name: Niagara 4 BACnet Advanced Workstation
Product Model Number: DR-S-BAC-AWS, DR-S-BAC-OWS with DR-S-BAC-AWS-UP, SUP-0, SUP-1, SUP-2, SUP-3, SUP-10, SUP-100, SUP-UNL
Application Software Version: Tridium 4.4.94.12.3 or higher
Firmware Revision: 4.4.94.12.3
BACnet Protocol Revision: 14

Product Description:
The Niagara 4 BACnet Workstation provides the ability to view, monitor, and control BACnet devices and objects over IP, raw Ethernet or through a BACnet router to any BACnet media. Devices, points, schedules, alarms, and logs can be learned and managed from Niagara 4. Advanced management tasks such as backup, restore, object creation and deletion are also possible with the Niagara 4 BACnet Workstation.

BACnet Standardized Device Profile (Annex L):

☐ **BACnet Cross-Domain Advanced Operator Workstation (B-XAWS)**
☒ **BACnet Advanced Operator Workstation (B-AWS)**
☐ **BACnet Operator Workstation (B-OWS)**
☐ **BACnet Operator Display (B-OD)**
☐ **BACnet Advanced Life Safety Workstation (B-ALSWS)**
☐ **BACnet Life Safety Workstation (B-LSWS)**
☐ **BACnet Life Safety Annunciator Panel (B-LSAP)**
☐ **BACnet Advanced Access Control Workstation (B-AACWS)**
☐ **BACnet Access Control Workstation (B-ACWS)**
☐ **BACnet Access Control Security Display (B-ACSD)**
☐ **BACnet Building Controller (B-BC)**
☐ **BACnet Advanced Application Controller (B-AAC)**
☐ **BACnet Application Specific Controller (B-ASC)**
☐ **BACnet Smart Actuator (B-SA)**
☐ **BACnet Smart Sensor (B-SS)**
☐ **BACnet Advanced Life Safety Controller (B-ALSC)**
☐ **BACnet Life Safety Controller (B-LSC)**
☐ **BACnet Advanced Access Control Controller (B-AACC)**
☐ **BACnet Access Control Controller (B-ACC)**
☐ **BACnet Router (B-RTR)**
☐ **BACnet Gateway (B-GW)**
☐ **BACnet Broadcast Management Device (B-BBMD)**

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☐ **BACnet Access Control Door Controller (B-ACDC)**
☐ **BACnet Access Control Credential Reader (B-ACCR)**
☐ **BACnet General (B-GENERAL)**

Additional BACnet Interoperability Building Blocks Supported (Annex K):

Data Sharing DS-RP-A, B DS-RPM-A, B DS-WP-A, B DS-WPM-A,B DS-COV-A DS-V-A DS-AV-A DS-M-A DS-AM-A	**Device & Network Management** DM-DDB-A, B DM-DOB-B DM-DCC-A DM-RD-A DM-TS-A DM-UTC-A DM-LM-A DM-BR-A DM-ANM-A DM-ADM-A DM-ATS-A DM-MTS-A DM-OCD-A
Alarm & Event Management AE-N-A AE-ACK-A AE – INFO-A AE-ELV-A AE-VN-A AE-AVN-A AE-VM-A AE-AVM-A AE-AS-A AE-ELV-A AE-ELVM-A	**Trending** T-ATR-A T-V-A T-AVM-A T-A-A T-AMVR-A
Scheduling SCHED-VM-A SCHED-AVM-A SCHED-WS-A	**Network Management**

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Segmentation Capability:

Feature	Supported	Window size
Transmit Segmented Messages	yes	10
Receive Segmented Messages	yes	127

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.

Object Type	Properties	
Device	*Object_Identifier*	*Number_Of_APDU_Retries*
	Object_Name	***Time_Synchronization_Recipients***
	Object_Type	*Max_Master*
	System_Status	*Max_Info_Frames*
	Vendor_Name	Device_Address_Binding
	Vendor_Identifier	Database_Revision
	Model_Name	*Configuration_Files*
	Firmware_Revision	*Last_Restore_Time*
	Application_Software_Version	***Backup_Failure_Timeout***
	Location	*Active_COV_Subsriptions*
	Description	***UTC_Time_Synchronization_Recipients***
	Protocol_Version	*Time_Synchronization_Interval*
	Protocol_Revision	*Align_Intervals*
	Protocol_Services_Supported	*Interval_Offset*
	Protocol_Object_Types_Supported	*Backup_Preparation_Time*
	Object_List	*Restore_Completion_Time*
	Max_APDU_Length_Accepted	*Restore_Preparation_Time*
	Segmentation_Supported	*Backup_And_Restore_State*
	Max_Segments_Accepted	*Last_Restart_Reason*
	Local_Time	*Time_Of_Device_Restart*
	Local_Date	*Restart_Notification_Recipients*
	UTC_Offset	*Serial_Number*
	Daylight_Savings_Status	*Property_List*
	APDU_Segment_Timeout	
	APDU_Timeout	

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Data Link Layer Options:

☒ BACnet IP, (Annex J)
☒ BACnet IP, (Annex J), Foreign Device
☒ BACnet IP, (Annex J), BACnet Broadcast Management Device (BBMD)
☒ ISO 8802-3, Ethernet (Clause 7)

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: BACnet/IP-BACnet/IP and Ethernet-BACnet/IP
☐ Annex H, BACnet Tunneling Router over IP

Character Sets Supported:

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

☒ ISO 10646 (UTF-8) ☐ 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 Niagara can connect. Contact Tridium for a list of supported protocols.