



TRIDIUM NIAGARA 4 BACNET SUPERVISOR PICS

BACnet Protocol Implementation Conformance Statement

Date: July 16, 2021 **Vendor Name:** <u>Tridium</u>

Product Name: Niagara 4 BACnet Advanced Workstation

Product Model Number: SUP

Application Software Version: 4.10.1.18

Firmware Revision: 4.10.1.18 BACnet Protocol Revision: 14

Product Description:

The Niagara4 BACnet Supervisor provides the ability to view, monitor, and control BACnet devices and objects over IP or raw Ethernet, or through a BACnet router to any BACnet media. Devices, points, schedules, alarms, and logs can be learned and managed from Niagara4. Advanced management tasks such as backup and restore and object creation and deletion are also possible with the BACnet Supervisor.

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)





☐ 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):

Additional BACnet Interoperat	oility Building Blocks Supported (Anno
Data Sharing	Device & Network Management
DS-RP-A, B	DM-DDB-A, B
DS-RPM-A, B	DM-DOB-A, B
DS-WP-A, B	DM-DCC-A, B
DS-WPM-A,B	DM-RD-A, B
DS-COV-A,B	DM-TS-A
DS-COVP-B	DM-UTC-A
DS-V-A	DM-LM-A, B
DS-AV-A	DM-BR-A, B
DS-M-A	DM-R-B
DS-AM-A	DM-ANM-A
	DM-ADM-A
	DM-ATS-A
	DM-MTS-A
	DM-OCD-A
Alarm & Event Management	Trending
AE-N-A	T-ATR-A
AE-N-I-B	T-VMMV-A
AE-ACK-A, B	T-V-A
AE-INFO-A, B	T-AVM-A
AE-ELV-A	T-A-A
AE-VN-A	T-AMVR-A
AE-AVN-A	
AE-VM-A	
AE-AVM-A	
AE-AS-A	
AE-ELVM-A	
AE-ASUM-B	
AE-ESUM-B	
Scheduling	Network Management
SCHED-VM-A	NM-RC-B
SCHED-AVM-A	
SCHED-WS-A	





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			
	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		
Device	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			
1	APDU_Timeout			





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) ISO 318 X 0280
If this product is a communication gateway, describe the types of non-BACnet

This product supports communications between BACnet and any third-party system to

which Niagara can connect. Contact Tridium for a list of supported protocols.

equipment/networks(s) that the gateway supports:

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