

1. BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Date: 28-Aug-2018
Vendor Name: Trend Control Systems Ltd.
Product Name: IQVISION
Product Model Number: IQVISION with DR-S-BAC-AWS driver
Applications Software Version: v4.3.58.22.3 or higher
Firmware Revision: v4.3.58.22.3 or higher
BACnet Protocol Revision: 14

1.1. PRODUCT DESCRIPTION

IQVISION comprises the Niagara4 framework plus the Trend IP Driver. It 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 IQVISION. Advanced management tasks such as backup and restore and object creation and deletion are also possible with IQVISION.

1.2. BACNET STANDARDISED 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)

1.3. 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, B
DS-COVU-A, B
DS-V-A
DS-AV-A
DS-M-A
DS-AM-A

Device and Network Management

DM-DDB-A, B
DM-DOB-A, B
DM-DCC-A, B
DM-RD-A, B
DM-TS-B
DM-UTC-B
DM-LM-A, B
DM-BR-A, B
DM-ANM-A
DM-ADM-A

DM-ATS-A
DM-MTS-A
DM-OCD-A

Alarm and Event Management

AE-N-A
AE-ACK-A
AE-VN-A
AE-AVN-A
AE-VM-A
AE-AVM-A
AE-AS-A
AE-ELVM-A

Trending

T-ATR-A
T-V-A
T-AVM-A
T-A-A

Scheduling

SCHED-VM-A
SCHED-AVM-A

Network Management

NM-CE-A

1.4. SEGMENTATION CAPABILITY

- Able to transmit segmented messages Window Size = 10
- Able to receive segmented messages Window Size = 27

1.5. 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.

The Backup and Restore properties from Addendum 135-2008n are included as proprietary properties with proprietary property identifiers. Their behaviour is identical to the behaviour described in the addendum.

Writable properties are listed in **bold**. Any range limitations are expressed in parentheses () following the property name.

Object	Parameters	
Device	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 <i>Local_Time</i> <i>Local_Date</i> <i>UTC_Offset</i> <i>Daylight_Savings_Status</i> <i>APDU_Segment_Timeout</i>	APDU_Timeout Number_Of_APDU_Retries Time_Synchronization_Recipients <i>Max_Master</i> <i>Max_Info_Frames</i> Device_Address_Binding Database_Revision Configuration_Files Last_Restore_Time Backup_Failure_Timeout Active_COV_Subscriptions UTC_Time_Synchronization_Recipients Time_Synchronization_Interval Align_Intervals Interval_Offset Backup_Preparation_Time_proprietary Restore_Completion_Time_proprietary Restore_Preparation_Time_proprietary Backup_And_Restore_State_proprietary Last_Restart_Reason Time_Of_Device_Restart Restart_Notification_Recipients Serial_Number Property_List

1.6. 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)

1.7. 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.

1.8. NETWORKING OPTIONS

- Router, Clause 6 - Routing configurations: Ethernet-IP.
- Annex H, BACnet Tunneling Router over IP

1.9. CHARACTER SETS SUPPORTED

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

- ISO 10646 (UTF8)
- 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 IQVISION can connect. Contact Trend for a list of supported protocols.

Please send any comments about this or any other Trend technical publication to techpubs@trendcontrols.com

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