

Protocol Implementation Conformance Statement: Viper^{AX}

Date: August 8, 2011

Vendor Name: Cylon Controls

Product Name: Viper^{AX}

Product Model Number: Viper^{AX} (Small buildings), Viper^{AX} (Unlimited)

Application Software Version: 3.6.35 or higher

Firmware Revision: 3.6.35 or higher

BACnet Protocol Revision: 7

Product Description:

The Viper^{AX} BACnet OWS 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 Viper^{AX}.

BACnet Standardized Device Profile (Annex L):

- BACnet Advanced Operator Workstation (B-AWS)
- BACnet Operator Workstation (B-OWS)
- 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)

Additional BACnet Interoperability Building Blocks Supported (Annex K):

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-B
DS-WPM-A,B	DM-RD-B
DS-COV-A	DM-TS-B
DS-V-A	DM-UTC-B
DS-M-A	DM-LM-A, B
	DM-ANM-A
	DM-ADM-A
	DM-ATS-A
	DM-MTS-A



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Alarm & Event Management AE-N-A, AE-ACK-A AE-VN-A AE-AVN-A AE-VM-A AE-AS-A	Trending T-ATR-A T-V-A T-A-A
Scheduling SCHED-VM-A	Network Management NM-CE-A



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Segmentation Capability:

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

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 behavior is identical to the behavior described in the addendum.
- Writable properties are listed in **bold**. Any range limitations are expressed in parentheses following the property name.

Object Type	Properties
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
	<i>Max_Segments_Accepted</i>
	<i>Local_Time</i>
<i>Local_Date</i>	
<i>UTC_Offset</i>	
<i>Daylight_Savings_Status</i>	
<i>APDU_Segment_Timeout</i>	
<i>APDU_Timeout</i>	
<i>Number_Of_APDU_Retries</i>	
Time_Synchronization_Recipients	
<i>Max_Master</i>	
<i>Max_Info_Frames</i>	
<i>Device_Address_Binding</i>	
<i>Database_Revision</i>	
<i>Configuration_Files</i>	
<i>Last_Restore_Time</i>	
Backup_Failure_Timeout	
<i>Active_COV_Subscriptions</i>	
UTC_Time_Synchronization_Recipients	
<i>Time_Synchronization_Interval</i>	
<i>Align_Intervals</i>	
<i>Interval_Offset</i>	
<i>Backup_Preparation_Time_proprietary</i>	
<i>Restore_Completion_Time_proprietary</i>	
<i>Restore_Preparation_Time_proprietary</i>	
<i>Backup_And_Restore_State_proprietary</i>	

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: _____
- 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 – Routing configurations: Ethernet-IP
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)
Does the BBMD support registrations by Foreign Devices? Yes No

Character Sets Supported:

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

- ANSI X3.4
- 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.