

ALERTON VLD

BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Date: 02/01/2016

Vendor Name: Alerton

Product Name: Visual Logic Display

Product Model Number: VLD-362 (-W), VLD-362-FF (-W)

Applications Software Version: 5.10

Firmware Revision: RL 5.00 **BACnet Protocol Revision:** 4.

Product Description:

The Alerton BACtalk VLD controllers are high performance programmable logic controllers with a digital display designed for control of HVAC equipment. The VLD features three universal inputs, six binary outputs, and two analog outputs. VLD applications include controlling roof-top units, fan-coil units, and heat pumps.

The controllers operate either as a stand-alone controller or as part of a site-wide system on a BACnet MS/TP LAN. All communication is via BACnet standard protocols.

BACnet Standardized Device Profile (Annex L):

- BACnet Advanced 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)

List all BACnet Interoperability Building Blocks Supported (see Annex K):

DS-RP-A,B	SCHED-I-B	DM-DDB-A,B
DS-RPM-B		DM-DOB-B
DS-WP-A,B		DM-DCC-B
DS-WPM-B		DM-PT-A,B
		DM-TS-B
		DM-UTC-B
		DM-RD-B

Segmentation Capability:

- Able to transmit segmented messages Window Size _____
- Able to receive segmented messages Window Size _____

Standard Object Types Supported:**Device**

Dynamically Creatable: No
 Dynamically Deletable: No
 Optional Properties Supported: Location
 Description
 Local_Time
 Local_Date
 Daylight_Saving_Status
 UTC_Offset
 Max_Master
 MAX_Info_Frames

Writable Properties: Object_Name Limit: 30 Characters
 Location Limit: 30 Characters
 Description Limit: 30 Characters
 UTC_Offset Range: -780...780
 APDU_Timeout Range: 1000...60000
 Number_Of_APDU_Retries Range: 0...16
 MAX_Info_Frames Range: 1...60

Proprietary Properties: aler-devinfo (512) Datatype: Octet String
 Purpose: Diagnostics.

Analog Input

Dynamically Creatable: No
 Dynamically Deletable: No
 Optional Properties Supported: Description

Writable Properties: Description Limit: 30 Characters

Proprietary Properties: n/a

Analog Output

Dynamically Creatable: No
 Dynamically Deletable: No
 Optional Properties Supported: Description

Supported:

Writable Properties:	Present_Value Description	Range: 0...102.4 Limit: 30 Characters
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Proprietary Properties:	n/a
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Analog Value

Dynamically Creatable:	No
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Dynamically Deletable:	No
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Optional Properties	Description
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Supported:

Writable Properties:	Present_Value Description	Range: REAL Limit: 30 Characters
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Proprietary Properties:	n/a
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Binary Input

Dynamically Creatable:	No
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Dynamically Deletable:	No
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Optional Properties	Description
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Supported:

Writable Properties:	Description	Limit: 30 Characters
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Proprietary Properties:	n/a
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Binary Output

Dynamically Creatable:	No
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Dynamically Deletable:	No
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Optional Properties	Description
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Supported:

Writable Properties:	Present_Value Description	Limit: 30 Characters
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Proprietary Properties:	n/a
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Binary Value

Dynamically Creatable:	No	
Dynamically Deletable:	No	
Optional Properties Supported:	Description	
	Priority_Array	(only on BV40)
	Relinquish_Default	(only on BV40)
Writable Properties:	Present_Value	
	Description	Limit: 30 Characters
	Relinquish_Default	
Proprietary Properties:	n/a	

Calendar

Dynamically Creatable:	No
Dynamically Deletable:	No
Optional Properties Supported:	Description
Writable Properties:	Date_List
Proprietary Properties:	n/a

Multistate Value

Dynamically Creatable:	No	
Dynamically Deletable:	No	
Optional Properties Supported:	State_Text	
Writable Properties:	Present_Value	Limit: Preset Values
Proprietary Properties:	n/a	

File

Dynamically Creatable:	No
Dynamically Deletable:	No
Optional Properties Supported:	Description

Writable Properties: n/a

Proprietary Properties: n/a

Program

Dynamically Creatable: No

Dynamically Deletable: No

Optional Properties Supported: Description
Reson_for_Halt
Description_of_Halt
Program_Location
Instance_of

Writable Properties: Program_Change

Proprietary Properties: n/a

Schedule

Dynamically Creatable: No

Dynamically Deletable: No

Optional Properties Supported: Description
Weekly_Schedule
Exception-Schedule

Writable Properties: Weekly_Schedule
Priority-for-Writing

Proprietary Properties: n/a

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, EIA-485 ARCNET (Clause 8), baud rate(s) _____
- MS/TP master (Clause 9), baud rate(s): 9.6K, 19.2K, 38.4K, 76.8K, 115.2K
- 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 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.
 - BACnet IP to/from Ethernet
 - BACnet IP to/from MS/TP
 - Ethernet to/from MS/TP
- 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.

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|---|---|-------------------------------------|
| <input checked="" type="checkbox"/> ANSI X3.4 | <input type="checkbox"/> IBM™/Microsoft™ DBCS | <input type="checkbox"/> ISO 8859-1 |
| <input type="checkbox"/> ISO 10646 (UCS-2) | <input type="checkbox"/> ISO 10646 (UCS-4) | <input type="checkbox"/> JIS C 6226 |

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports:

Not a gateway

