

ALERTON VLC-444e

BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Date: 2/1/2016

Vendor Name: Alerton

Product Name: Visual Logic Controller (VLC)

Product Model Number: VLC-444e, VLC-444

Applications Software Version: 6.00 (VLC-444e), 5.10 (VLC-444)

Firmware Revision: RL 6.00 **BACnet Protocol Revision:** 4

Product Description:

The Alerton BACtalk VLC controllers are high performance programmable logic controllers designed for control of HVAC and industrial equipment. The VLC-444e features four universal inputs, four binary outputs, and four analog outputs. VLC applications include electrically commuted motor (ECM) fan-coil units, VFDs, or actuators. 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	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_Savings_Status UTC_Offset Max_Master Max_Info_Frames	
Writable Properties:	Object_Name Object_Identifier Location Description APDU_Timeout Number_Of_APDU_Retries Max_Info_Frames Daylight_Savings_Status UTC_Offset	Limit: 30 characters Limit: 30 characters Limit: 30 characters Range: 1000...60000 Range: 0...16 Range: 1...60 Range: -720...720
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:	NA	

Analog Output

Dynamically Creatable:	No
Dynamically Deletable:	No

Optional Properties Supported:	Description	
Writable Properties:	Present_Value Description	Range: 0...102.4 Limit: 30 Characters
Proprietary Properties:	NA	

Analog Value

Dynamically Creatable:	No	
Dynamically Deletable:	No	
Optional Properties Supported:	Description	
Writable Properties:	Present_Value Description	Range: REAL Limit: 30 Characters
Proprietary Properties:	NA	

Binary Input

Dynamically Creatable:	No	
Dynamically Deletable:	No	
Optional Properties Supported:	Description	
Writable Properties:	Description	Limit: 30 Characters
Proprietary Properties:	NA	

Binary Output

Dynamically Creatable:	No	
Dynamically Deletable:	No	
Optional Properties Supported:	Description	
Writable Properties:	Present_Value Description	Range: BACnetBinaryPV Limit: 30 Characters
Proprietary Properties:	NA	

Binary Value

Dynamically Creatable:	No	
Dynamically Deletable:	No	
Optional Properties Supported:	Description	
	Priority_Array	(BV 40 ONLY)
	Relinquish_Default	(BV 40 ONLY)
Writable Properties:	Present_Value	Range: BACnetBinaryPV
	Description	Limit: 30 Characters
	Relinquish_Default	Range: BACnetBinaryPV
Proprietary Properties:	NA	

File

Dynamically Creatable:	No	
Dynamically Deletable:	No	
Optional Properties Supported:	Description	
Writable Properties:	Archive	Range: Boolean
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	Range: BACnetProgramRequest
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.

- 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:

Not a gateway

