

ALERTON® VLC-444

BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Date: 04/05/2010

Vendor Name: Alerton

Product Name: VLC

Product Model Number: VLC-444

Applications Software Version: 5.00

Firmware Revision: RL 5.00 **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-444 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 Location Description APDU_Timeout Number_Of_APDU_Retries	Limit: 60 characters Limit: 60 characters Limit: 60 characters Range: 1000...60000 Range: 0...16
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: 60 Characters
Proprietary Properties:	NA	

Analog Output

Dynamically Creatable:	No	
Dynamically Deletable:	No	
Optional Properties Supported:	Description	
Writable Properties:	Present_Value	Range: 0...102.4

Description

Limit: 60 Characters

Proprietary Properties: NA

Analog Value

Dynamically Creatable: No

Dynamically Deletable: No

Optional Properties Description
Supported:Writable Properties: Present_Value
Description

Range: REAL

Limit: 60 Characters

Proprietary Properties: NA

Binary Input

Dynamically Creatable: No

Dynamically Deletable: No

Optional Properties Description
Supported:

Writable Properties: Description

Limit: 60 Characters

Proprietary Properties: NA

Binary Output

Dynamically Creatable: No

Dynamically Deletable: No

Optional Properties Description
Supported:Writable Properties: Present_Value
Description

Range: BACnetBinaryPV

Limit: 60 Characters

Proprietary Properties: NA

Binary Value

Dynamically Creatable: No
 Dynamically Deletable: No
 Optional Properties Description
 Supported: Priority_Array (BV 40 ONLY)
 Relinquish_Default (BV 40 ONLY)

Writable Properties: Present_Value Range: BACnetBinaryPV
 Description Limit: 60 Characters
 Relinquish_Default Range: BACnetBinaryPV

Proprietary Properties: NA

File

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

Writable Properties: Archive Range: Boolean

Proprietary Properties: n/a

Program

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

- | | | |
|---|--|-------------------------------------|
| <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

