

ALERTON® BCM-MSTP

BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Date: 2/11/2013

Vendor Name: Alerton

Product Name: BCM-MSTP Controller

Product Model Number: BCM-MSTP 3.0

Applications Software Version: BCM-MSTP Controller 3.0

Firmware Revision: BCM-MSTP Loader 3.0 **BACnet Protocol Revision:** 9

Product Description:

The Alerton BCM-MSTP is a high-performance BACnet-compliant router and global controller that supports a BACnet MS/TP network connection.

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	AE-N-I-B	SCHED-I-B	T-VMT-I-B	DM-DDB-A,B
DS-RPM-A,B	AE-N-E-B	SCHED-E-B	T-VMT-E-B	DM-DOB-B
DS-WP-A,B	AE-ACK-B		T-ATR-B	DM-DCC-B
DS-WPM- B	AE-ASUM-B			DM-TS-B
DS-COV-A, B	AE-ESUM-B			DM-UTC-B
	AE-INFO-B			DM-RD-B
				DM-BR-B
				DM-OCD-B

Segmentation Capability:

- Able to transmit segmented messages Window Size 1
- Able to receive segmented messages Window Size 1

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
- APDU_Segment_Timeout
- Max_Segments_Accepted
- Max_Master
- Max_Info_Frames
- Configuration_Files
- Last_Restore_Time
- Backup_Failure_Timeout
- Active_COV_Subscriptions
- Slave_Proxy_Enable
- Manual_Slave_Address_Bindings
- Auto_Slave_Discovery
- Slave_Address_Bindings
- Writable Properties: Object_Name
- Location
- Description
- UTC_Offset
- APDU_Segment_Timeout
- APDU_Timeout
- Number_Of_APDU_Retries
- Max_Info_Frames
- Backup_Failure_Timeout
- Slave_Proxy_Enable
- Manual_Slave_Address_Bindings
- Auto_Slave_Discovery
- Proprietary Properties: Proprietary 1115..1119

- 512 Datatype: Octet String
 Purpose: Diagnostics.
- 1115 Datatype: Unsigned
 Purpose: DST mode.
- 1116 Datatype: BACnetCalendarEntry
 Purpose: DST start date.
- 1117 Datatype: Time
 Purpose: DST start time.
- 1118 Datatype: BACnetCalendarEntry
 Purpose: DST end date.
- 1119 Datatype: Time
 Purpose: DST end time.

Property Range Restrictions:	UTC_Offset	Range: -720..720
	APDU_Segment_Timeout	Range: 1000..60000
	APDU_Timeout	Range: 1000..60000
	Number_Of_APDU_Retries	Range: 0..16
	Max_Info_Frames	Range: 1..100

Analog Value

Dynamically Creatable:	No
Dynamically Deletable:	No
Optional Properties Supported:	Description
Writable Properties:	Present_Value Description Units COV_Increment
Proprietary Properties:	n/a
Property Range Restrictions:	n/a

Binary Value

Dynamically Creatable:	No
Dynamically Deletable:	No
Optional Properties Supported:	Description Priority_Array Relinquish_Default
Writable Properties:	Present_Value Description
Proprietary Properties:	n/a
Property Range Restrictions:	n/a

Calendar

Dynamically Creatable:	Yes
Dynamically Deletable:	Yes
Optional Properties Supported:	Description
Writable Properties:	Object_Name Description
Proprietary Properties:	n/a
Property Range Restrictions:	n/a

Event Enrollment

Dynamically Creatable:	Yes
Dynamically Deletable:	Yes
Optional Properties Supported:	Description
Writable Properties:	Object_Name Description
Proprietary Properties:	n/a
Property Range Restrictions:	n/a

File

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

Writable Properties:	File_Size (Files 5, 1024, 2048)
Proprietary Properties:	n/a
Property Range Restrictions:	n/a

Notification Class

Dynamically Creatable:	Yes
Dynamically Deletable:	Yes
Optional Properties Supported:	Description Object_Name Description Priority Recipient_List ACK_Required
Writable Properties:	
Proprietary Properties:	n/a
Property Range Restrictions:	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:	n/a
Proprietary Properties:	n/a
Property Range Restrictions:	n/a

Schedule

Dynamically Creatable:	Yes
Dynamically Deletable:	Yes
Optional Properties Supported:	Description Weekly_Schedule Exception_Schedule
Writable Properties:	Object_Name Description Weekly_Schedule Exception_Schedule Schedule_Default List_of_Object_Prop_Ref Priority_for_Writing
Proprietary Properties:	1021 Datatype: DateTime Purpose: next non-null cmd 1022 Datatype: DateTime Purpose: next active cmd 1027 Datatype: DateTime Purpose: next cmd
Property Range Restrictions:	Priority_for_Writing Range: 1..16

Trend Log

Dynamically Creatable:	Yes
Dynamically Deletable:	Yes
Optional Properties Supported:	Description Start_Time Stop_Time Log_Device_Object_Property Log_Interval Notification_Threshold Records_Since_Notification Last_Notify_Record Notification_Class Event_Enable ACKed_Transitions Notify_Type Event_Time_Stamps Trigger Reliability
Writable Properties:	Object_Name Description Start_Time Stop_Time Log_Device_Object_Property Log_Interval Notification_Threshold Notification_Class Event_Enable Notify_Type Logging_Type Trigger
Proprietary Properties:	n/a
Property Range Restrictions:	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): 38.4K
- 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 _____

