

# BACnet Protocol Implementation Conformance Statement

Date: Feb 27, 2015

Vendor Name: Delta Controls Inc.

Product Name: enteliBUS

Product Model Number: eBCON, eBMGR

Product Version: 4.0

BACnet Protocol Revision: 14

## Product Description

The enteliBUS CPU Engine (eB-Eng) and associated firmware provides fully programmable capabilities to a range of Delta controller products. Although hardware features (Ports, I/O) may vary in each product, they all use the same BACnet firmware and communicate on a BACnet network (Ethernet, IP, and MS/TP supported). All products support all the BACnet capabilities indicated unless otherwise noted.

## BACnet Standardized Device Profile (Annex L)

Product Model Name	Product Model Number	BACnet Device Profile
enteliBUS	eBCON, eBMGR	BACnet Building Controller (B-BC)

## BACnet Interoperability Building Blocks (Annex K)

Data Sharing	DS-RP-A	Data Sharing-ReadProperty-A
	DS-RP-B	Data Sharing-ReadProperty-B
	DS-RPM-A	Data Sharing-ReadPropertyMultiple-A
	DS-RPM-B	Data Sharing-ReadPropertyMultiple-B
	DS-WP-A	Data Sharing-WriteProperty-A
	DS-WP-B	Data Sharing-WriteProperty-B
	DS-WPM-A	Data Sharing-WritePropertyMultiple-A
	DS-WPM-B	Data Sharing-WritePropertyMultiple-B
	DS-COV-A	Data Sharing-COV-A
	DS-COV-B	Data Sharing-COV-B
	DS-COVU-A	Data Sharing-COV-Unsolicited-A
	DS-COVU-B	Data Sharing-COV-Unsolicited-B
	DS-COVP-A	Data Sharing – COVP-A
	DS-COVP-B	Data Sharing – COVP-B

<b>Alarm and Event Management</b>	AE-N-I-B	Alarm and Event-Notification Internal-B
	AE-N-E-B	Alarm and Event-Notification External-B
	AE-ACK-B	Alarm and Event-ACK-B
	AE-ASUM-B	Alarm and Event-Alarm Summary-B
	AE-ESUM-B	Alarm and Event-Enrollment Summary-B
	AE-INFO-B	Alarm and Event-Information-B

<b>Scheduling</b>	SCHED-I-B	Scheduling-Internal-B
	SCHED-E-B	Scheduling-External-B

<b>Trending</b>	T-VMT-I-B	Trending-Viewing and Modifying Trends-Internal-B
	T-VMT-E-B	Trending-Viewing and Modifying Trends-External-B
	T-ATR-B	Trending-Automated Trend Retrieval-B

<b>Device and Network Management</b>	DM-DDB-A	Device Management-Dynamic Device Binding-A
	DM-DDB-B	Device Management-Dynamic Device Binding-B
	DM-DOB-A	Device Management-Dynamic Object Binding-A
	DM-DOB-B	Device Management-Dynamic Object Binding-B
	DM-DCC-B	Device Management-DeviceCommunicationControl-B
	DM-PT-A	Device Management-Private Transfer-A
	DM-PT-B	Device Management-Private Transfer-B
	DM-TS-A	Device Management-TimeSynchronization-A <sup>1</sup>
	DM-TS-B	Device Management-TimeSynchronization-B <sup>2</sup>
	DM-UTC-A	Device Management-UTC TimeSynchronization-A <sup>1</sup>
	DM-UTC-B	Device Management-UTC TimeSynchronization-B <sup>2</sup>
	DM-RD-B	Device Management-ReinitializeDevice-B
	DM-BR-B	Device Management-Backup and Restore-B

	DM-LM-B	Device Management-List Manipulation-B
	DM-OCD-B	Device Management-Object Creation and Deletion-B
	DM-R-B	Device Management – Reset -B

<sup>1</sup> Based on the UTC settings in the Device object. When UTC is enabled, both DM-TS-A and DM-UTC-A is supported, otherwise only DM-TS-A is supported.

<sup>2</sup> Based on the UTC setting in the Device object. When UTC is enabled, DM-UTC-B is supported. When UTC is disabled DM-TS-B is supported. Dates before January 1, 2000 or after December 31, 2099 will be ignored.

### Segmentation Capability

- Able to transmit segmented message      Window Size is 1
- Able to receive segmented message      Window Size is 1

## Standard Object Types Supported

- Dynamically creatable using the CreateObject service, except Device or File object.
- Dynamically deletable using the DeleteObject service, except Device or File object.

### Standard Properties Summary

Object Type	Property Identifier	Writable	Optional	
<b>Analog Input</b>	Acked_Transitions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	COV_Increment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Deadband	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Device_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Event_Algorithm_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Event_Algorithm_Inhibit_Ref	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Event_Message_Texts	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Event_Time_Stamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	High_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Limit_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Low_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Max_Pres_Value	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Min_Pres_Value	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Resolution	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Time_Delay_Normal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Update_Interval	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Out_Of_Service	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Present_Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>Analog Output</b>	Acked_Transitions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		COV_Increment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Deadband		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Description		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Device_Type		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Algorithm_Inhibit		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Algorithm_Inhibit_Ref		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Detection_Enable		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Enable		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Message_Texts		<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Object Type	Property Identifier	Writable	Optional
<b>Analog</b>	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<b>Output</b>		
	Event_Time_Stamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	High_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Limit_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Low_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Max_Pres_Value	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Min_Pres_Value	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Resolution	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay_Normal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Present_Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Analog Value</b>	Acked_Transitions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	COV_Increment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Deadband	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit_Ref	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Time_Stamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	High_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Limit_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Low_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Max_Pres_Value	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Min_Pres_Value	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Priority_Array	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Relinquish_Default	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Resolution	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Analog Value</b>	Time_Delay_Normal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Present_Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Object Type	Property Identifier	Writable	Optional
	Units	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Binary Input</b>	Acked_Transitions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Active_Text	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Alarm_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Change_Of_State_Count	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Change_Of_State_Time	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Device_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Elapsed_Active_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit_Ref	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Time_Stamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Inactive_Text	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay_Normal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Of_Active_Time_Reset	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Of_State_Count_Reset	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Out_Of_Service	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Polarity	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Present_Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Binary Output</b>	Acked_Transitions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Active_Text	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Change_Of_State_Count	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Change_Of_State_Time	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Device_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Elapsed_Active_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit_Ref	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Time_Stamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Feedback_Value	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Object Type	Property Identifier	Writable	Optional
	Inactive_Text	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Minimum_Off_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Minimum_On_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay_Normal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Of_Active_Time_Reset	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Of_State_Count_Reset	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Polarity	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Present_Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Relinquish_Default	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Binary Value</b>	Acked_Transitions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Active_Text	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Alarm_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Change_Of_State_Count	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Change_Of_State_Time	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Elapsed_Active_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit_Ref	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Time_Stamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Inactive_Text	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Minimum_Off_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Minimum_On_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Priority_Array	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Relinquish_Default	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay_Normal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Object Type	Property Identifier	Writable	Optional
	Time_Of_Active_Time_Reset	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Of_State_Count_Reset	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Present_Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Relinquish_Default	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Calendar</b>	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Date_List	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Present_Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Device</b>	APDU_Segment_Timeout	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Active_COV_Subscriptions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Active_VT_Sessions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Align_Intervals	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Auto_Slave_Discovery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Backup_And_Restore_State	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Backup_Failure_Timeout	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Backup_Preparation_Time	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Configuration_Files	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Daylight_Savings_Status	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Interval_Offset	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Last_Restart_Reason	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Last_Restore_Time	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Local_Date	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Local_Time	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Location	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Manual_Slave_Address_Binding	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Max_Info_Frames	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Max_Master	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Max_Segments_Accepted	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Restart_Notification_Recipients	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Restore_Completion_Time	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Restore_Preparation_Time	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Serial_Number	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Slave_Address_Binding	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Slave_Proxy_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Structured_Object_List	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Of_Device_Restart	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Synchronization_Interval	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Synchronization_Recipients	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	UTC_Offset	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



Object Type	Property Identifier	Writable	Optional
	UTC_Time_Synchronization_Recipients	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	VT_Classes_Supported	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	APDU_Timeout	<input type="checkbox"/>	<input type="checkbox"/>
	Align_Intervals	<input type="checkbox"/>	<input type="checkbox"/>
<b>Event</b>	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Enrollment</b>	Event_Algorithm_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit_Ref	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fault_Parameters	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fault_Type	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay_Normal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Acked_Transitions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Event_Parameters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Notification_Class	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Object_Property_Reference	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>File Object</b>	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Record_Count	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	FIL.Archive	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	FIL.File_Access_Method	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	FIL.File_Size	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	FIL.File_Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	FIL.Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Loop Object</b>	Acked_Transitions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Bias	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	COV_Increment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Deadband	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Derivative_Constant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Derivative_Constant_Units	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Error_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit_Ref	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Time_Stamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Object Type	Property Identifier	Writable	Optional
	Integral_Constant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Integral_Constant_Units	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Maximum_Output	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Minimum_Output	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Proportional_Constant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Proportional_Constant_Units	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay_Normal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Update_Interval	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Action	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Controlled_Variable_Reference	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Out_Of_Service	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Present_Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Priority_For_Writing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Setpoint	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Setpoint_Reference	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Multi-State Value</b>	Acked_Transitions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Alarm_Values	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit_Ref	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Time_Stamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fault_Values	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Priority_Array	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Relinquish_Default	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	State_Text	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay_Normal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Object Type	Property Identifier	Writable	Optional
	Out_Of_Service	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Present_Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Notification Class</b>	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Ack_Required	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Priority	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Recipient_List	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Program Object</b>	ACKed_Transitions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Description_Of_Fault	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Text	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_State	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Time_Stamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Instance_Of	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Program_Location	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reason_For_Halt	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Program_Change	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Schedule</b>	Acked_Transitions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_State	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Time_Stamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Exception_Schedule	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Weekly_Schedule	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Effective_Period	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Object Type	Property Identifier	Writable	Optional
	List_Of_Object_Property_References	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Out_Of_Service	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Present_Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Priority_For_Writing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Reliability	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Schedule_Default	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Weekly_Schedule	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Trend Log</b>	Acked_Transitions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Align_Intervals	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	COV_Resubscription_Interval	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Client_COV_Increment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit_Ref	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Time_Stamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Interval_Offset	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Last_Notify_Record	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Log_DeviceObjectProperty	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Log_Interval	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notification_Threshold	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Records_Since_Notification	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Start_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Stop_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Trigger	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Enable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Logging_Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Record_Count	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Stop_When_Full	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Multi State</b>	Acked_Transitions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Input</b>	Alarm_Values	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Object Type	Property Identifier	Writable	Optional
	Device_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit_Ref	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Enable	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Time_Stamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Fault_Values	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	State_Text	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay_Normal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Out_Of_Service	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Present_Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Multi State</b>	Acked_Transitions	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Output</b>	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Device_Type	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Algorithm_Inhibit_Ref	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Event_Time_Stamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Feedback_Value	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Profile_Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Reliability_Evaluation_Inhibit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	State_Text	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Time_Delay_Normal	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Present_Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Relinquish_Default	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Object Type	Property Identifier	Writable	Optional
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### **Proprietary Properties Summary**

Proprietary properties are supported.

### **Data Link Layer Options**

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7) 10Base2, 10Base5, 10BaseT, Fiber
- MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 76800

### **Device Address Binding**

Is static device binding supported?  Yes  No

(Necessary for two-way communication with MS/TP slaves and certain other devices.)

### **Networking Options**

- eBMGR: Router between 1 Ethernet network, 2 BACnet/IP networks, 2 MS/TP networks
- eBCON: Router between 1 Ethernet network, 1 BACnet/IP network, and 1 MS/TP network
- Annex H, BACnet Tunneling
- BACnet/IP Broadcast Management Device (BBMD)  
Does the BBMD support registrations by Foreign Devices?  Yes  No

### **Character Set Supported**

- UTF-8

### **Communication Gateway**

Not Applicable