BACnet Protocol Implementation Conformance Statement

Date	July 22, 2026
Vendor Name	Delta Controls
Product Name	V4 Product Platform
Product Model Number	eBMGR-2 eBCON-2 O3-DIN-CPU O3-DIN-SRC Red5-PLUS-ROOM Red5-EDGE-ROOM Red5-PLUS-1180 Red5-PLUS-1146 Red5-EDGE-1180 Red5-EDGE-1146 Red5-EDGE-634 Red5-EDGE-606 Red5-FIELD-1180 Red5-FIELD-1146 Red5-FIELD-634 Red5-FIELD-606 Red5-EDGE-634-ZNE Red5-FIELD-V440-LNK Red5-FIELD-V100-LNK Red5-EDGE-V440 Red5-EDGE-V100 Red5-EDGE-V440-PoE Red5-FIELD-V440-R5B Red5-FIELD-V100-R5B Red5-EDGE-V440-T1L Red5-EDGE-V100-T1L Red5-FIELD-V100 Red5-FIELD-V440 Red5-EDGE-LIGHT-RELAY O3-EDGE-02 O3-EDGE-02-E8 O3-EDGE-02-E9 O3-SENSE
Product Version	4.21
BACnet Protocol Revision	18

Product Description

The V4 Product Platform and associated firmware provide fully programmable capabilities for a range of Delta Controls products. Although hardware features such as ports and I/O may vary, each product uses the same BACnet firmware and communicates on a BACnet network supporting Ethernet, IP, and/or MS/TP. Each product supports all the BACnet capabilities indicated unless otherwise noted.

BACnet Standardized Device Profile (Annex L)

Product Model Name	Product Model Number	BACnet Device Profile
V4 Product Platform	eBMGR-2 eBCON-2 O3-DIN-CPU O3-DIN-SRC Red5-PLUS-ROOM Red5-EDGE-ROOM Red5-PLUS-1180 Red5-PLUS-1146 Red5-EDGE-1180 Red5-EDGE-1146 Red5-EDGE-634 Red5-EDGE-606 Red5-FIELD-1180 Red5-FIELD-1146 Red5-FIELD-634 Red5-FIELD-606 Red5-EDGE-634-ZNE Red5-FIELD-V440-LNK Red5-FIELD-V100-LNK Red5-EDGE-V440 Red5-EDGE-V100 Red5-EDGE-V440-PoE Red5-FIELD-V440-R5B Red5-FIELD-V100-R5B Red5-EDGE-V440-T1L Red5-EDGE-V100-T1L Red5-FIELD-V100 Red5-FIELD-V440 Red5-EDGE-LIGHT-RELAY O3-EDGE-02 O3-EDGE-02-E8 O3-EDGE-02-E9 O3-SENSE	BACnet Building Controller (B-BC) BACnet Gateway (B-GW)

BACnet Interoperability Building Blocks (Annex K)

V4 supports the following BIBBs:

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-COVP-A	Data Sharing – COVP-A
	DS-COVP-B	Data Sharing – COVP-B

Alarm and Event Management	AE-N-A	Alarm and Event-Notification-A
	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

Scheduling	SCHED-I-B	Scheduling-Internal-B
	SCHED-E-B	Scheduling-External-B

Trending	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

Device and Network Management	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[1]
	DM-TS-B	Device Management-TimeSynchronization-B[2]
	DM-UTC-A	Device Management-UTC TimeSynchronization-A[1]
	DM-UTC-B	Device Management-UTC TimeSynchronization-B[2]
	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

[1] 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.

[2] 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 messages Window Size is 1

☑ Able to receive segmented messages Window Size is 1

Standard Object Types Supported

☑ Dynamically creatable using the CreateObject service, except Device object and Network Port object.

☑ Dynamically deletable using the DeleteObject service, except Device object and Network Port object.

Standard Properties Summary

Object Type	Property Identifier	Writable	Optional
Access Credential[1]	Activation_Time	☑	☐
	Assigned_Access_Rights	☑	☐
	Authentication_Factors	☑	☐
	Authorization_Exemptions	☑	☑
	Belongs_To	☐	☑
	Credential_Disable	☐	☐
	Credential_Status	☐	☐
	Description	☑	☑
	Expiry_Time	☑	☐
	Extended_Time_Enable	☑	☑
	Global Identifier	☑	☐
	Object_Name	☑	☐
	Profile_Name	☐	☑
	Reason_For_Disable	☐	☐
	Reliability	☐	☐
	Reliability_Evaluation_Inhibit	☑	☐
	Threat_Authority	☑	☑
	Trace_Flag	☑	☑
Access Door[2]	Access_Event	☐	☐
	Access_Event_Object	☐	☐
	Access_Event_Tag	☐	☐
	Access_Event_Time	☐	☐
	Description	☑	☑
	Door_Extended_Pulse_Time	☑	☐
	Door_Members	☐	☑
	Door_Open_Too_Long_Time	☑	☐
	Door_Pulse_Time	☑	☐
	Door_Status	☑	☑
	Maintenance_Required	☑	☑

[1] This object type is only supported in the Red5-PLUS-ROOM and Red5-EDGE-ROOM models.
[2] Ibid.

Object Type	Property Identifier	Writable	Optional
	Object_Name	☑	☐
	Out_Of_Service	☑	☐
	Present Value	☑	☐
	Priority_Array	☑	☐
	Profile_Name	☐	☑
	Reliability	☑	☐
	Reliability_Evaluation_Inhibit	☑	☑
	Relinquish_Default	☑	☐
	Secured_Status	☐	☑
Access Point[3]	Access_Doors	☐	☐
	Access_Event	☐	☐
	Access_Event_Authentication_Factor	☐	☑
	Access_Event_Credential	☐	☐
	Access_Event_Tag	☐	☐
	Access_Event_Time	☐	☐
	Accompaniment_Time	☑	☑
	Active_Authentication_Policy	☑	☐
	Authentication_Status	☐	☐
	Authorization_Mode	☑	☐
	Description	☑	☑
	Failed_Attempt_Events	☑	☑
	Failed_Attempts	☐	☑
	Failed_Attempts_Time	☑	☑
	Lockout	☑	☑
	Lockout_Relinquish_Time	☑	☑
	Max_Failed_Attempts	☑	☑
	Number_Of_Authentication_Policies	☐	☐
	Object_Name	☑	☑
	Occupancy_Count_Adjust	☑	☑
	Occupancy_Lower_Limit_Enforced	☑	☑
	Occupancy_Upper_Limit_Enforced	☑	☑
	Out_Of_Service	☐	☐
	Priority_For_Writing	☑	☐
	Profile_Name	☐	☑
	Reliability	☑	☐
	Reliability_Evaluation_Inhibit	☑	☐

[3] This object type is only supported in the Red5-PLUS-ROOM and Red5-EDGE-ROOM models.

Object Type	Property Identifier	Writable	Optional
	Threat_Level	☑	☑
	Zone_From	☐	☑
	Zone_To	☐	☑
Access Rights[4]	Accompaniment	☑	☑
	Description	☑	☑
	Enable	☑	☐
	Global_Identifier	☑	☐
	Negative_Access_Rules	☑	☐
	Object_Name	☑	☐
	Positive_Access_Rules	☑	☐
	Profile_Name	☐	☑
	Reliability	☐	☐
	Reliability_Evaluation_Inhibit	☑	☐
Access User[5]	Credentials	☑	☐
	Description	☑	☑
	Global_Identifier	☑	☐
	Member_Of	☑	☑
	Members	☑	☑
	Object_Name	☑	☐
	Profile_Name	☐	☑
	Reliability	☑	☐
	Reliability_Evaluation_Inhibit	☑	☐
	User_External_Identifier	☑	☑
	User_Information_Reference	☑	☑
	User_Name	☑	☑
	User_Type	☑	☐
Access Zone[6]	Adjust_Value	☑	☑
	Credentials_In_Zone	☐	☑
	Description	☑	☑
	Entry_Points	☑	☐
	Event_State	☐	☐
	Exit_Points	☑	☐
	Global_Identifier	☑	☐
	Last_Credential_Added	☑	☑

[4] This object type is only supported in the Red5-PLUS-ROOM and Red5-EDGE-ROOM models.
[5] Ibid.
[6] Ibid.

Object Type	Property Identifier	Writable	Optional
	Last_Credential_Added_Time	☐	☑
	Last_Credential_Removed	☑	☑
	Last_Credential_Removed_Time	☐	☑
	Object_Name	☑	☐
	Occupancy_Count	☑	☑
	Occupancy_Count_Enable	☑	☑
	Occupancy_Lower_Limit	☑	☑
	Occupancy_State	☐	☐
	Occupancy_Upper_Limit	☑	☑
	Out_Of_Service	☐	☐
	Passback_Mode	☑	☑
	Passback_Timeout	☑	☑
	Profile_Name	☐	☑
	Reliability	☑	☐
	Reliability_Evaluation_Inhibit	☑	☐
Analog Input	Acked_Transitions	☐	☑
	COV_Increment	☑	☑
	Deadband	☑	☑
	Description	☑	☑
	Device_Type	☑	☑
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☐
	Event_Time_Stamps	☐	☑
	High_Limit	☑	☑
	Limit_Enable	☑	☑
	Low_Limit	☑	☑
	Max_Pres_Value	☐	☑
	Min_Pres_Value	☐	☑
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐

Object Type	Property Identifier	Writable	Optional
	Out_Of_Service	☑	☐
	Present_Value	☑	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Resolution	☐	☑
	Status_Flags	☐	☐
	Tags	☑	☑
	Time_Delay	☑	☑
	Time_Delay_Normal	☑	☑
	Units	☐	☐
	Update_Interval	☐	☑
Analog Output	Acked_Transitions	☐	☑
	COV_Increment	☑	☑
	Current_Command_Priority	☐	☐
	Deadband	☑	☑
	Description	☑	☑
	Device_Type	☑	☑
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☐
	Event_Time_Stamps	☐	☑
	High_Limit	☑	☑
	Limit_Enable	☑	☑
	Low_Limit	☑	☑
	Max_Pres_Value	☐	☑
	Min_Pres_Value	☐	☑
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☐	☐

Object Type	Property Identifier	Writable	Optional
	Present_Value	☑	☐
	Priority_Array	☐	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Relinquish_Default	☑	☐
	Resolution	☐	☑
	Status_Flags	☐	☐
	Tags	☑	☑
	Time_Delay	☑	☑
	Time_Delay_Normal	☑	☑
	Units	☐	☐
Analog Value	Acked_Transitions	☐	☑
	COV_Increment	☑	☑
	Current_Command_Priority	☐	☐
	Deadband	☑	☑
	Description	☑	☑
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☐
	Event_Time_Stamps	☐	☑
	High_Limit	☑	☑
	Limit_Enable	☑	☑
	Low_Limit	☑	☑
	Max_Pres_Value	☐	☑
	Min_Pres_Value	☐	☑
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☐	☐
	Present_Value	☑	☐

Object Type	Property Identifier	Writable	Optional
	Priority_Array	☐	☑
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Relinquish_Default	☑	☑
	Resolution	☐	☑
	Status_Flags	☐	☐
	Tags	☑	☑
	Time_Delay	☑	☑
	Time_Delay_Normal	☑	☑
	Units	☑	☐
Binary Input	Acked_Transitions	☐	☑
	Active_Text	☐	☑
	Alarm_Value	☑	☑
	Change_Of_State_Count	☑	☑
	Change_Of_State_Time	☐	☑
	Description	☑	☑
	Device_Type	☑	☑
	Elapsed_Active_Time	☑	☑
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☐
	Event_Time_Stamps	☐	☑
	Inactive_Text	☐	☑
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☑	☐
	Polarity	☑	☐
	Present_Value	☑	☐
	Profile_Name	☐	☑

Object Type	Property Identifier	Writable	Optional
	Property_List	☐	☐
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Status_Flags	☐	☐
	Tags	☑	☐
	Time_Delay	☑	☑
	Time_Delay_Normal	☑	☑
	Time_Of_Active_Time_Reset	☐	☑
	Time_Of_State_Count_Reset	☐	☑
Binary Output	Acked_Transitions	☐	☑
	Active_Text	☐	☑
	Change_Of_State_Count	☑	☑
	Change_Of_State_Time	☐	☑
	Description	☑	☑
	Device_Type	☑	☑
	Elapsed_Active_Time	☑	☑
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☐
	Event_Time_Stamps	☐	☑
	Feedback_Value	☐	☑
	Inactive_Text	☐	☑
	Minimum_Off_Time	☑	☑
	Minimum_On_Time	☑	☑
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☐	☐
	Polarity	☑	☐
	Present_Value	☑	☐
	Profile_Name	☐	☑
	Property_List	☐	☐

Object Type	Property Identifier	Writable	Optional
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Relinquish_Default	☑	☐
	Status_Flags	☐	☐
	Tags	☑	☑
	Time_Delay	☑	☑
	Time_Delay_Normal	☑	☑
	Time_Of_Active_Time_Reset	☐	☑
	Time_Of_State_Count_Reset	☐	☑
Binary Value	Acked_Transitions	☐	☑
	Active_Text	☐	☑
	Alarm_Value	☑	☑
	Change_Of_State_Count	☑	☑
	Change_Of_State_Time	☐	☑
	Description	☑	☑
	Elapsed_Active_Time	☑	☑
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☐
	Event_Time_Stamps	☐	☑
	Inactive_Text	☐	☑
	Minimum_Off_Time	☑	☑
	Minimum_On_Time	☑	☑
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☐	☐
	Present_Value	☑	☐
	Priority_Array	☐	☑
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☑	☑

Object Type	Property Identifier	Writable	Optional
	Reliability_Evaluation_Inhibit	☑	☑
	Relinquish_Default	☑	☑
	Status_Flags	☐	☐
	Tags	☑	☑
	Time_Delay	☑	☑
	Time_Delay_Normal	☑	☑
	Time_Of_Active_Time_Reset	☐	☑
	Time_Of_State_Count_Reset	☐	☑
BitString Value	Acked_Transitions	☐	☑
	Alarm_Values	☑	☑
	Bit_Mask	☑	☑
	Bit_Text	☑	☑
	Description	☑	☑
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☑
	Event_Time_Stamps	☐	☑
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☐	☑
	Present_Value	☑	☐
	Priority_Array	☐	☑
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Relinquish_Default	☑	☑
	Status_Flags	☐	☐
	Tags	☑	☑
	Time_Delay	☑	☑
	Time_Delay_Normal	☑	☑

Object Type	Property Identifier	Writable	Optional
Calendar	Date_List	☑	☐
	Description	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Present_Value	☑	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Tags	☑	☑
Character String Value	Description	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☐	☑
	Present_Value	☑	☐
	Priority_Array	☐	☑
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Relinquish_Default	☑	☑
	Status_Flags	☐	☐
	Tags	☑	☑
Credential Data Input[7]	Description	☑	☑
	Object_Name	☑	☐
	Out_Of_Service	☑	☐
	Present_Value	☑	☐
	Profile_Name	☐	☑
	Reliability	☑	☐
	Reliability_Evaluation_Inhibit	☑	☐
	Supported_Format_Classes	☐	☑
	Supported_Formats	☐	☐
	Update_Time	☐	☐

[7] This option is not supported on eBCON-2 and eBMGR-2 devices.

Object Type	Property Identifier	Writable	Optional
Device	Active_COV_Subscriptions	☐	☑
	Active_VT_Sessions	☐	☑
	Align_Intervals	☑	☑
	APDU_Segment_Timeout	☑	☑
	APDU_Timeout	☑	☐
	Application_Software_Version	☐	☐
	Auto_Slave_Discovery	☑	☑
	Backup_And_Restore_State	☐	☑
	Backup_Failure_Timeout	☑	☑
	Backup_Preparation_Time	☐	☑
	Configuration_Files	☐	☑
	Database_Revision	☐	☐
	Daylight_Savings_Status	☐	☑
	Description	☑	☑
	Device_Address_Binding	☐	☐
	Firmware_Revision	☐	☐
	Interval_Offset	☑	☑
	Last_Restart_Reason	☐	☑
	Last_Restore_Time	☐	☑
	Local_Date	☐	☑
	Local_Time	☐	☑
	Location	☑	☑
	Manual_Slave_Address_Binding	☑	☑
	Max_APDU_Length_Accepted	☐	☐
	Max_Info_Frames	☑	☑
	Max_Master	☐	☑
	Max_Segments_Accepted	☐	☑
	Model_Name	☐	☐
	Number_Of_APDU_Retries	☑	☐
	Object_Identifier	☐	☐
	Object_List	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Profile Name	☐	☑
	Property_List	☐	☐
	Protocol_Object_Types_Supported	☐	☐
	Protocol_Revision	☐	☐
	Protocol_Services_Supported	☐	☐

Object Type	Property Identifier	Writable	Optional
	Protocol_Version	☐	☐
	Restart_Notification_Recipients	☑	☑
	Restore_Completion_Time	☐	☑
	Restore_Preparation_Time	☐	☑
	Segmentation_Supported	☐	☐
	Serial_Number	☐	☑
	Slave_Address_Binding	☑	☑
	Slave_Proxy_Enable	☑	☑
	Structured_Object_List	☑	☑
	System_Status	☐	☐
	Tags	☑	☑
	Time_Of_Device_Restart	☐	☑
	Time_Synchronization_Interval	☑	☑
	Time_Synchronization_Recipients	☑	☑
	UTC_Offset	☑	☑
	UTC_Time_Synchronization_Recipients	☑	☑
	Vendor_Identifier	☐	☐
	Vendor_Name	☐	☐
	VT_Classes_Supported	☐	☑
Event Enrollment	Acked_Transitions	☐	☐
	Description	☑	☑
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑
	Event_Detection_Enable	☑	☐
	Event_Enable	☑	☐
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_Parameters	☑	☐
	Event_State	☐	☐
	Event_Time_Stamps	☐	☐
	Event_Type	☐	☐
	Fault_Parameters	☑	☑
	Fault_Type	☐	☑
	Notification_Class	☑	☐
	Notify_Type	☑	☐
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐

Object Type	Property Identifier	Writable	Optional
	Object_Property_Reference	☑	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☐	☐
	Reliability_Evaluation_Inhibit	☑	☑
	Status_Flags	☐	☐
	Time_Delay_Normal	☑	☑
	Tags	☑	☑
File	Archive	☑	☐
	Description	☑	☑
	File_Access_Method	☑	☐
	File_Size	☑	☐
	File_Type	☑	☐
	Modification_Date	☐	☐
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Read_Only	☐	☐
	Record_Count	☐	☑
	Tags	☑	☑
Large Analog Value	Acked_Transitions	☐	☑
	COV_Increment	☑	☑
	Deadband	☑	☑
	Description	☑	☑
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☐
	Event_Time_Stamps	☐	☑
	High_Limit	☑	☑
	Limit_Enable	☑	☑

Object Type	Property Identifier	Writable	Optional
	Low_Limit	☑	☑
	Max_Pres_Value	☑	☑
	Min_Pres_Value	☑	☑
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☐	☐
	Present_Value	☑	☐
	Priority_Array	☐	☑
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Relinquish_Default	☑	☑
	Resolution	☐	☑
	Status_Flags	☐	☐
	Tags	☑	☑
	Time_Delay	☑	☑
	Time_Delay_Normal	☑	☑
	Units	☑	☐
Life Safety Point	Accepted_Modes	☐	☐
	Description	☑	☑
	Mode	☑	☐
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Operation_Expected	☑	☐
	Out_Of_Service	☐	☐
	Present_Value	☐	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☑	☐
	Reliability_Evaluation_Inhibit	☑	☑
	Status_Flags	☐	☐
	Tags	☑	☑
	Tracking_Value	☑	☐

Object Type	Property Identifier	Writable	Optional
Lighting Output	Blink_Warn_Enable	☑	☐
	COV_Increment	☑	☑
	Default_Fade_Time	☑	☐
	Default_Ramp_Rate	☑	☐
	Default_Step_Increment	☑	☐
	Description	☑	☑
	Egress_Active	☐	☐
	Egress_Time	☑	☐
	Feedback_Value	☐	☑
	In_Progress	☐	☐
	Instantaneous_Power	☐	☑
	Lighting_Command	☑	☐
	Lighting_Command_Default_Priority	☑	☐
	Max_Actual_Value	☑	☑
	Min_Actual_Value	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☐	☐
	Power	☑	☑
	Present_Value	☑	☐
	Priority_Array	☐	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Relinquish_Default	☑	☐
	Status_Flags	☐	☐
	Tags	☑	☑
	Tracking_Value	☐	☐
	Transition	☑	☑
Loop	Acked_Transitions	☐	☑
	Action	☑	☐
	Bias	☑	☑
	Controlled_Variable_Reference	☑	☐
	Controlled_Variable_Value	☐	☐
	COV_Increment	☑	☑

Object Type	Property Identifier	Writable	Optional
	Deadband	☑	☑
	Derivative_Constant	☑	☑
	Derivative_Constant_Units	☑	☑
	Description	☑	☑
	Error_Limit	☑	☑
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☐
	Event_Time_Stamps	☐	☑
	Integral_Constant	☑	☑
	Integral_Constant_Units	☑	☑
	Manipulated_Variable_Reference	☑	
	Maximum_Output	☑	☑
	Minimum_Output	☑	☑
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☑	☐
	Output_Units	☐	☐
	Present_Value	☑	☐
	Priority_For_Writing	☑	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Proportional_Constant	☑	☑
	Proportional_Constant_Units	☑	☑
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Setpoint	☑	☐
	Setpoint_Reference	☑	☐
	Status_Flags	☐	☐
	Tags	☑	☑
	Time_Delay	☑	☑
	Time_Delay_Normal	☑	☑

Object Type	Property Identifier	Writable	Optional
	Update_Interval	☐	☑
Multi-state Input	Acked_Transitions	☐	☑
	Alarm_Values	☑	☑
	Description	☑	☑
	Device_Type	☑	☑
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☐
	Event_Time_Stamps	☐	☑
	Fault_Values	☑	☑
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Number_Of_States	☐	☐
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☑	☐
	Present_Value	☑	☐
	Priority_Array	☐	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	State_Text	☐	☑
	Status_Flags	☐	☐
	Tags	☑	☑
	Time_Delay	☑	☑
	Time_Delay_Normal	☑	☑
Multi-state Output	Acked_Transitions	☐	☑
	Description	☑	☑
	Device_Type	☑	☑
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑

Object Type	Property Identifier	Writable	Optional
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☐
	Event_Time_Stamps	☐	☑
	Feedback_Value	☐	☑
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Number_Of_States	☐	☐
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☐	☐
	Present_Value	☑	☐
	Priority_Array	☐	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Relinquish_Default	☑	☐
	State_Text	☐	☑
	Status_Flags	☐	☐
	Tags	☑	☑
	Time_Delay	☑	☑
	Time_Delay_Normal	☑	☑
Multi-state Value	Acked_Transitions	☐	☑
	Alarm_Values	☑	☑
	Description	☑	☑
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☐
	Event_Time_Stamps	☐	☑
	Fault_Values	☑	☑

Object Type	Property Identifier	Writable	Optional
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Number_Of_States	☐	☐
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☑	☐
	Present_Value	☑	☐
	Priority_Array	☐	☑
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Relinquish_Default	☑	☑
	State_Text	☐	☑
	Status_Flags	☐	☐
	Tags	☑	☑
	Time_Delay	☑	☑
	Time_Delay_Normal	☑	☑
Network Port[8]	APDU_Length	☐	☐
	Auto_Slave_Discovery	☑	☑
	BACnet_IP_Global_Address	☑	☑
	BACnet_IP_Mode	☑	☑
	BACnet_IP_Multicast_Address	☑	☑
	BACnet_IP_NAT_Traversal	☑	☑
	BACnet_IP_UDP_Port	☑	☑
	BACnet_IPv6_Mode	☑	☑
	BACnet_IPv6_Multicast_Address	☑	☑
	BACnet_IPv6_UPD_Port	☑	☑
	BBMD_Accept_FD_Registrations	☑	☑
	BBMD_Broadcast_Distribution_Table	☑	☑
	BBMD_Foreign_Device_Table	☐	☑
	Changes_Pending	☐	☐
	Command	☑	☐
	Description	☑	☑
	FD_BBMD_Address	☑	☑

[8] Red5-PLUS-ROOM and Red5-EDGE-ROOM models do not support BBMD property identifiers.

Object Type	Property Identifier	Writable	Optional
	FD_Subscription_Lifetime	☑	☑
	IP_Address	☑	☑
	IP_Default_Gateway	☑	☑
	IP_DHCP_Enable	☑	☑
	IP_DHCP_Lease_Time	☐	☑
	IP_DHCP_Lease_Time_Remaining	☐	☑
	IP_DHCP_Server	☐	☑
	IP_DNS_Server	☑	☑
	IP_Subnet_Mask	☑	☑
	IPv6_Address	☑	☑
	IPv6_Auto_Addressing_Enable	☑	☑
	IPv6_Default_Gateway	☑	☑
	IPv6_DHCP_Lease_Time	☐	☑
	IPv6_DHCP_Lease_Time_Remaining	☐	☑
	IPv6_DHCP_Server	☑	☑
	IPv6_Prefix_Length	☑	☑
	IPv6_Zone_Index	☐	☑
	Link_Speed	☑	☐
	Link_Speed_Autonegotiate	☑	☑
	Link_Speeds	☐	☑
	MAC_Address	☑	☑
	Manual_Slave_Address_Binding	☑	☑
	Max_Info_Frames	☑	☑
	Max_Master	☑	☑
	Network_Interface_Name	☐	☑
	Network_Number	☑	☐
	Network_Number_Quality	☐	☐
	Network_Type	☐	☐
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☑	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Protocol_Level	☐	☐
	Reference_Port	☐	☑
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Routing Table	☐	☑

Object Type	Property Identifier	Writable	Optional
	Slave_Address_Binding	☑	☑
	Slave_Proxy_Enable	☑	☑
	Status_Flags	☑	☐
	Tags	☑	☑
	Virtual_MAC_Address_Table	☑	☑
Notification Class	Ack_Required	☑	☐
	Description	☑	☑
	Notification_Class	☐	☐
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Priority	☑	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Recipient_List	☑	☐
	Tags	☑	☑
Program	Acked_Transitions	☐	☑
	Description	☑	☑
	Description_Of_Halt	☐	☑
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Text	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☑
	Event_Time_Stamps	☐	☑
	Instance_Of	☐	☑
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☐	☐
	Profile_Name	☐	☑
	Program_Change	☑	☐
	Program_Location	☐	☑
	Program_State	☐	☐
	Property_List	☐	☐

Object Type	Property Identifier	Writable	Optional
	Reason_For_Halt	☐	☑
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Status_Flags	☐	☐
	Tags	☑	☑
Schedule	Acked_Transitions	☐	☑
	Description	☑	☑
	Effective_Period	☑	☐
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☑
	Event_Time_Stamps	☐	☑
	Exception_Schedule	☑	☑
	List_Of_Object_Property_References	☑	☐
	Notification_Class	☑	☑
	Notify_Type	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐
	Out_Of_Service	☑	☐
	Present_Value	☑	☐
	Priority_For_Writing	☑	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Reliability	☑	☐
	Reliability_Evaluation_Inhibit	☑	☑
	Schedule_Default	☑	☐
	Status_Flags	☐	☐
	Tags	☑	☑
	Weekly_Schedule	☑	☑
Structured View	Default_Subordinate_Relationship	☑	☑
	Description	☑	☑
	Node_Subtype	☑	☑
	Node_Type	☑	☐
	Object_Identifier	☐	☐

Object Type	Property Identifier	Writable	Optional
	Object_Name	☑	☐
	Object_Type	☐	☐
	Profile_Name	☐	☑
	Property_List	☐	☐
	Represents	☑	☑
	Subordinate_Annotations	☑	☑
	Subordinate_List	☑	
	Subordinate_Node_Types	☑	☑
	Subordinate_Relationships	☑	☑
	Subordinate_Tags	☑	☑
	Tags	☑	☑
Trend Log	Acked_Transitions	☐	☑
	Align_Intervals	☑	☑
	Buffer_Size	☑	☐
	Client_COV_Increment	☑	☑
	COV_Resubscription_Interval	☑	☑
	Description	☑	☑
	Enable	☑	☐
	Event_Algorithm_Inhibit	☑	☑
	Event_Algorithm_Inhibit_Ref	☑	☑
	Event_Detection_Enable	☑	☑
	Event_Enable	☑	☑
	Event_Message_Texts	☐	☑
	Event_Message_Texts_Config	☑	☑
	Event_State	☐	☐
	Event_Time_Stamps	☐	☑
	Interval_Offset	☑	☑
	Last_Notify_Record	☐	☑
	Log_Buffer	☐	☐
	Log_DeviceObjectProperty	☑	☑
	Log_Interval	☑	☑
	Logging_Type	☑	☐
	Notification_Class	☑	☑
	Notification_Threshold	☑	☑
	Notify_Type	☑	☑
	Object_Identifier	☐	☐
	Object_Name	☑	☐
	Object_Type	☐	☐

Object Type	Property Identifier	Writable	Optional
	Profile_Name	☐	☑
	Property_List	☐	☐
	Record_Count	☑	☐
	Records_Since_Notification	☐	☑
	Reliability	☑	☑
	Reliability_Evaluation_Inhibit	☑	☑
	Start_Time	☑	☑
	Status_Flags	☐	☐
	Stop_Time	☑	☑
	Stop_When_Full	☑	☐
	Tags	☑	☑
	Total_Record_Count	☐	☐
	Trigger	☑	☑

Proprietary Properties Summary

Proprietary properties are supported.

Data Link Layer Options[9]

☑ BACnet IP, (Annex J)

☑ BACnet IP, (Annex J), Foreign Device

☑ ISO 8802-3, Ethernet (Clause 7)

☑ MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 76800, 115200

☑ BACnet Secure Connect Node (Annex YY), direct connections not supported

☑ DNS host name resolution supported (RFC 1123)

Device Address Binding

Is static device binding supported? ☑ Yes ☐ No
(This is currently necessary for two-way communication with MS/TP slaves and certain other devices.)

Networking Options

☑ eBMGR-2: Router between 1 Ethernet network, 2 BACnet/IP networks, 2 MS/TP networks

☑ eBCON-2: Router between 1 Ethernet network, 1 BACnet/IP network, 1 MS/TP network

☑ O3-DIN, Red5 ROOM, Red5-PLUS/EDGE: Router between 2 Ethernet networks, 1 BACnet/IP network, and 3 MS/TP networks

☑ Red5-FIELD: MS/TP device only; does not support Ethernet networks

☑ BACnet/IP Broadcast Management Device (BBMD)[10]

Does the BBMD support registrations by Foreign Devices?	☑ Yes ☐ No
Does the BBMD support network address translation?	☑ Yes ☐ No

Character Sets Supported

☑ ISO 10646 (UTF-8)

Gateway Options

☑ Supports H.1.1.2 Modeling non-BACnet Data as Objects in a Single BACnet Device

☑ Supports Modbus RTU over RS-485

Network Security Options

☑ Non-secure Device – is capable of operating without BACnet Network Security

[9] See Networking Options for specific networks supported for each device
[10] Red5-PLUS-ROOM, Red5-EDGE-ROOM, and Red5-FIELD models do not support BBMD