

## BACnet Protocol Implementation Conformance Statement

Date: January 21, 2022  
 Vendor Name: DEOS AG (Vendor ID: 142)  
 Product Name: OPEN 600 EMS, OPEN 810 EMS, OPEN 4100 EMS, OPEN.WRX AS  
 Product Model Number: DS-OPEN 600/0 EMS, DS-OPEN 600/5 EMS, DS-OPEN 600H/0 EMS, DS-OPEN 600H/5 EMS, DS-OPEN 600/0 EMS/N, DS-OPEN 600/5 EMS/N, DS-OPEN 600H/0 EMS/N, DS-OPEN 600H/5 EMS/N, DS-OPEN 810/0 EMS, DS-OPEN 810/5 EMS, DS-OPEN 810/12 EMS, DS-OPEN 810/32 EMS, DS-OPEN 810/0 EMS + DALI, DS-OPEN 810/5 EMS + DALI, DS-OPEN 810/12 EMS + DALI, DS-OPEN 810/32 EMS + DALI, DS-OPEN 810/0 EMS + M-Bus, DS-OPEN 810/5 EMS + M-Bus, DS-OPEN 810/12 EMS + M-Bus, DS-OPEN 810/32 EMS + M-Bus, DS-OPEN 4100 EMS C1, DS-OPEN 4100 EMS C2, DS-OPEN 4100 EMS C1/R, DS-OPEN 4100 EMS C2/R, DS-OPEN.WRX AS  
 Applications Software Version: n. a.  
 Firmware Revision: 3.0.0  
 BACnet Protocol Revision: 16

### Product Description:

OPEN EMS/OPEN.WRX Native BACnet Controllers are freely programmable building automation controllers.

### BACnet Standardized Device Profile (Annex L):

- BACnet Building Controller (B-BC)
- BACnet Router (B-RTR)
- BACnet Secure Connect Hub (B-SCHUB)

### Data Sharing

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

## Alarm / Event

Alarm and Event-Notification Internal-B	AE-N-I-B
Alarm and Event-Notification External-B	AE-N-E-B
Alarm and Event-ACK-B	AE-ACK-B
Alarm and Event-Alarm Summary-B	AE-ASUM-B
Alarm and Event Enrollment Summary-B	AE-ESUM-B
Alarm and Event-Information-B	AE-INFO-B
Alarm and Event Event Log-Internal-B	AE-EL-I-B

## Scheduling

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

## Trending

Trending-Viewing and Modifying Trends Internal-B	T-VMT-I-B
Trending-Viewing and Modifying Trends External-B	T-VMT-E-B
Trending-Automated Trend Retrieval-B	T-ATR-B
Trending-Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B
Trending-Automated Multiple Value Retrieval-B	T-AMVR-B

## Device Management

Device Management-Dynamic Device Binding-A	DM-DDB-A
Device Management-Dynamic Device Binding-B	DM-DDB-B
Device Management-Dynamic Object Binding-B	DM-DOB-B
Device Management-Device Communication Control-B	DM-DCC-B
Device Management-Private Transfer-A	DM-PT-A
Device Management-Private Transfer-B	DM-PT-B
Device Management-Time Synchronization-A	DM-TS-A
Device Management-Time Synchronization-B	DM-TS-B
Device Management-UTC Time Synchronization-A	DM-UTC-A
Device Management-UTC Time Synchronization-B	DM-UTC-B
Device Management-Automatic Time Synchronization-A	DM-ATS-A
Device Management-Reinitialize Device-B	DM-RD-B
Device Management-Backup and Restore-B	DM-BR-B
Device Management-Restart-B	DM-R-B
Device Management-List Manipulation-B	DM-LM-B
Device Management-Object Creation and Deletion-B	DM-OCD-B
Device Management-Slave Proxy-B	DM-SP-B

## Network Management

Network Management-Router Configuration-B	NM-RC-B
Network Management-Foreign Device Registration-A	NM-FDR-A
Network Management-Secure Connect Hub-B	NM-SCH-B
Network Management-Secure Connect Direct Connect A	NM-SCDC-A
Network Management-Secure Connect Direct Connect B	NM-SCDC-B

## Segmentation Capability

- Segmented requests supported, window size 5
- Segmented responses supported, window size 5
- Maximum APDU size in octets: 1476

## Standard Object Types Supported:

The following object types are supported and present in the device.

Object Type	Dynamically Creatable/Deleteable
Analog Input	
Analog Output	
Analog Value	
Binary Input	
Binary Output	
Binary Value	
Calendar	<input checked="" type="checkbox"/>
Schedule	<input checked="" type="checkbox"/>
Device	
File	<input checked="" type="checkbox"/>
Loop	
Multi-State Input	
Multi-State Output	
Multi-State Value	
Notification Class	<input checked="" type="checkbox"/>
Event Enrollment	<input checked="" type="checkbox"/>
Structured View	
Trend Log	<input checked="" type="checkbox"/>
Trend Log Multiple	<input checked="" type="checkbox"/>
Event Log	
Command	
Large Analog Value	
Integer Value	
DateTime Pattern Value	
Pulse Converter	
Program	
Accumulator	

**Each standard Object Type is supported with following data:**

- R – Required
- O – Optional
- W - Writable

**Analog Input**

<b>Property</b>	<b>Conformance Code</b>	<b>Writable</b>
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	
Description	O	W
Device_Type	O	
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Update_Interval	O	
Units	R	
Min_Pres_Value	O	
Max_Pres_Value	O	
Resolution	O	
COV_Increment	O	W
Time_Delay	O	W
Notification_Class	O	W
High_Limit	O	W
Low_Limit	O	W
Deadband	O	W
Limit_Enable	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Interface_Value	O	
Fault_High_Limit	O	
Fault_Low_Limit	O	
Profile_Name	O	W

## Analog Output

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	W	W
Description	O	W
Device_Type	O	
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Units	R	
Min_Pres_Value	O	
Max_Pres_Value	O	
Resolution	O	
Priority_Array	R	
Relinquish_Default	R	W
COV_Increment	O	W
Time_Delay	O	W
Notification_Class	O	W
High_Limit	O	W
Low_Limit	O	W
Deadband	O	W
Limit_Enable	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Interface_Value	O	
Fault_High_Limit	O	
Fault_Low_Limit	O	
Profile_Name	O	W

## Analog Value

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	W
Description	O	W
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Units	R	
Min_Pres_Value	O	
Max_Pres_Value	O	
Resolution	O	
Priority_Array	O	
Relinquish_Default	O	W
COV_Increment	O	W
Time_Delay	O	W
Notification_Class	O	W
High_Limit	O	W
Low_Limit	O	W
Deadband	O	W
Limit_Enable	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Fault_High_Limit	O	
Fault_Low_Limit	O	
Profile_Name	O	W

## Binary Input

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	
Description	O	W
Device_Type	O	
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Polarity	R	
Inactive_Text	O	W
Active_Text	O	W
Change_Of_State_Time	O	
Change_Of_State_Count	O	W
Time_Of_State_Count_Reset	O	
Elapsed_Active_Time	O	W
Time_Of_Active_Time_Reset	O	
Time_Delay	O	W
Notification_Class	O	W
Alarm_Value	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Interface_Value	O	
Profile_Name	O	W

## Binary Output

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	W	W
Description	O	W
Device_Type	O	
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Polarity	R	
Inactive_Text	O	W
Active_Text	O	W
Change_Of_State_Time	O	
Change_Of_State_Count	O	W
Time_Of_State_Count_Reset	O	
Elapsed_Active_Time	O	W
Time_Of_Active_Time_Reset	O	
Minimum_Off_Time	O	W
Minimum_On_Time	O	W
Priority_Array	R	
Relinquish_Default	R	W
Time_Delay	O	W
Notification_Class	O	W
Feedback_Value	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Interface_Value	O	
Profile_Name	O	W



## Binary Value

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	W
Description	O	W
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Inactive_Text	O	W
Active_Text	O	W
Change_Of_State_Time	O	
Change_Of_State_Count	O	W
Time_Of_State_Count_Reset	O	
Elapsed_Active_Time	O	W
Time_Of_Active_Time_Reset	O	
Minimum_Off_Time	O	W
Minimum_On_Time	O	W
Priority_Array	O	
Relinquish_Default	O	W
Time_Delay	O	W
Notification_Class	O	W
Alarm_Value	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Profile_Name	O	W

## Calendar

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	
Description	O	W
Date_List	R	W
Property_List	R	
Profile_Name	O	W

## Schedule

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	
Description	O	W
Effective_Period	R	W
Weekly_Schedule	O	W
Exception_Schedule	O	W
Schedule_Default	R	W
List_Of_Object_Property_References	R	W
Priority_For_Writing	R	W
Status_Flags	R	
Reliability	R	
Out_Of_Service	R	W
Event_Detection_Enable	O	
Notification_Class	O	W
Event_Enable	O	W
Event_State	O	
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Profile_Name	O	W

## Device

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
System_Status	R	
Vendor_Name	R	
Vendor_Identifier	R	
Model_Name	R	
Firmware_Revision	R	
Application_Software_Version	R	
Location	O	
Description	O	W
Protocol_Version	R	
Protocol_Revision	R	
Protocol_Services_Supported	R	
Protocol_Object_Types_Supported	R	
Object_List	R	
Structured_Object_List	O	
Max_APDU_Length_Accepted	R	
Segmentation_Supported	R	
Max_Segments_Accepted	O	
Local_Time	O	
Local_Date	O	
UTC_Offset	O	
Daylight_Savings_Status	O	
APDU_Segment_Timeout	O	
APDU_Timeout	R	
Number_Of_APDU_Retries	R	
Time_Synchronization_Recipients	O	W
UTC_Time_Synchronization_Recipients	O	W
Time_Synchronization_Interval	O	W
Align_Interval	O	W
Interval_Offset	O	W
Max_Master	O	
Max_Info_Frames	O	
Device_Address_Binding	R	
Database_Revision	R	
Configuration_Files	O	
Last_Restore_Time	O	
Backup_Failure_Timeout	O	W
Backup_Preparation_Time	O	
Restore_Preparation_Time	O	
Restore_Completion_Time	O	
Backup_And_Restore_State	O	
Active_COV_Subscriptions		
Last_Restart_Reason		
Time_Of_Device_Restart		
Restart_Notification_Recipients		W

Serial_Number		
Property_List	R	
Profile_Name	O	W

## File

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Description	O	W
File_Type	R	W
File_Size	R	
Modification_Date	R	
Archive	W	W
Read_Only	R	
File_Access_Method	R	
Property_List	R	
Profile_Name	O	W

## Notification Class

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Description	O	W
Notification_Class	O	
Status_Flags	O	
Event_State	O	
Reliability	O	
Priority	R	
Ack_Required	R	
Recipient_List	W	W
Property_List	R	
Profile_Name	O	W

## Structured View

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Description	O	W
Node_Type	R	
Node_Subtype	O	
Subordinate_List	R	
Subordinate_Annotations	O	
Property_List	R	
Profile_Name	O	W

## Loop

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	
Description	O	W
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Update_Interval	O	
Output_Unitst	R	
Manipulated_Variable_Reference	R	
Controlled_Variable_Reference	R	
Controlled_Variable_Value	R	
Controlled_Variable_Units	R	
Setpoint_Reference	R	W
Setpoint	R	
Action	R	
Proportional_Constant	O	W
Proportional_Constant_Units	O	
Integral_Constant	O	W
Integral_Constant_Units	O	
Derivative_Constant	O	W
Derivative_Constant_Units	O	
Bias	O	W
Maximum_Output	O	W
Minimum_Output	O	W
Priority_For_Writing	R	W
COV_Increment	O	W
Time_Delay	O	W
Notification_Class	O	W
Error_Limit	O	W
Deadband	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Low_Diff_Limit	O	W
Profile_Name	O	W

## Multi-State Input

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	
Description	O	W
Device_Type	O	
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Number_Of_States	R	
State_Text	O	
Time_Delay	O	W
Notification_Class	O	W
Alarm_Values	O	W
Fault_Values	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Interface_Value	O	
Profile_Name	O	W

## Multi-State Output

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	
Description	O	W
Device_Type	O	
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Number_Of_States	R	
State_Text	O	
Priority_Array	R	
Relinquish_Default	R	W
Time_Delay	O	W
Notification_Class	O	W
Feedback_Values	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Interface_Value	O	
Profile_Name	O	W

## Multi-State Value

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	
Description	O	W
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Number_Of_States	R	
State_Text	O	
Priority_Array	O	
Relinquish_Default	O	W
Time_Delay	O	W
Notification_Class	O	W
Alarm_Values	O	W
Fault_Values	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Profile_Name	O	W



## Event Enrollment

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Description	O	W
Event_Type	R	
Event_Parameters	R	W
Object_Property_Reference	R	W
Status_Flags	R	
Event_State	R	
Reliability	O	
Notification_Class	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Profile_Name	O	W

## Trend Log

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Description	O	W
Enable	W	W
Start_Time	O	W
Stop_Time	O	W
Log_DeviceObjectProperty	O	W
Log_Interval	O	W
COV_Resubscription_Interval	O	W
Client_COV_Increment	O	W
Stop_When_Full	R	W
Buffer_Size	R	W
Log_Buffer	R	
Record_Count	R	W
Total_Record_Count	R	
Logging_Type	R	W
Align_Intervals	O	W
Interval_Offset	O	W
Trigger	O	W
Status_Flags	R	
Event_State	R	
Reliability	O	
Notification_Threshold	O	W
Records_Since_Notification	O	
Last_Notify_Record	O	
Notification_Class	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Profile_Name	O	W

## Trend Log Multiple

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Description	O	W
Enable	W	W
Start_Time	O	W
Stop_Time	O	W
Log_DeviceObjectProperty	O	W
Log_Interval	O	W
Stop_When_Full	R	W
Buffer_Size	R	W
Log_Buffer	R	
Record_Count	R	W
Total_Record_Count	R	
Logging_Type	R	W
Align_Intervals	O	W
Interval_Offset	O	W
Trigger	O	W
Status_Flags	R	
Event_State	R	
Reliability	O	
Notification_Threshold	O	W
Records_Since_Notification	O	
Last_Notify_Record	O	
Notification_Class	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Profile_Name	O	W

## Event Log

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Description	O	W
Enable	W	W
Start_Time	O	W
Stop_Time	O	W
Stop_When_Full	R	W
Buffer_Size	R	W
Log_Buffer	R	
Record_Count	R	W
Total_Record_Count	R	
Status_Flags	R	
Event_State	R	
Reliability	O	
Notification_Threshold	O	W
Records_Since_Notification	O	
Last_Notify_Record	O	
Notification_Class	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Profile_Name	O	W

## Command

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Description	O	W
Present_Value	W	W
In_Process	R	
All_Writes_Successful	R	
Action	R	W
Action_Text	O	W
Status_Flags	R	
Event_State	R	
Reliability	O	
Property_List	R	
Profile_Name	O	W

## Large Analog Value

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	W
Description	O	W
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Units	R	
Min_Pres_Value	O	
Max_Pres_Value	O	
Resolution	O	
Priority_Array	O	
Relinquish_Default	O	W
COV_Increment	O	W
Time_Delay	O	W
Notification_Class	O	W
High_Limit	O	W
Low_Limit	O	W
Deadband	O	W
Limit_Enable	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Fault_High_Limit	O	
Fault_Low_Limit	O	
Profile_Name	O	W

## Integer Value

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	W
Description	O	W
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Units	R	
Min_Pres_Value	O	
Max_Pres_Value	O	
Resolution	O	
Priority_Array	O	
Relinquish_Default	O	W
COV_Increment	O	W
Time_Delay	O	W
Notification_Class	O	W
High_Limit	O	W
Low_Limit	O	W
Deadband	O	W
Limit_Enable	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Fault_High_Limit	O	
Fault_Low_Limit	O	
Profile_Name	O	W

## Pulse Converter

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	
Description	O	W
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Units	R	
Scale_Factor	R	
Adjust_Value	W	W
Count	R	
Update_Time	R	
Count_Change_Time	R	W
Count_Before_Change	R	
COV_Increment	O	W
COV_Period	O	W
Time_Delay	O	W
Notification_Class	O	W
High_Limit	O	W
Low_Limit	O	W
Deadband	O	W
Limit_Enable	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Profile_Name	O	W



### DateTime Pattern Value

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	W
Description	O	W
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Is_UTC	R	
Property_List	R	
Profile_Name	O	W

### Program

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Description	O	W
Program_State	R	
Program_Change	W	W
Reason_For_Halt	O	
Description_Of_Halt	O	
Program_Location	O	
Instance_Of	O	
Status_Flags	R	
Reliability	O	
Out_Of_Service	R	
Property_List	R	
Profile_Name	O	W

## Accumulator

Property	Conformance Code	Writable
Object_Identifier	R	
Object_Name	R	W
Object_Type	R	
Present_Value	R	
Description	O	W
Device_Type	O	
Status_Flags	R	
Event_State	R	
Reliability	O	
Out_Of_Service	R	W
Scale	R	
Units	R	
Prescale	O	
Max_Pres_Value	R	
Value_Change_Time	O	
Value_Before_Change	O	
Value_Set	O	W
Pulse_Rate	O	
Time_Delay	O	W
Notification_Class	O	W
High_Limit	O	W
Low_Limit	O	W
Limit_Monitoring_Interval	O	W
Limit_Enable	O	W
Event_Enable	O	W
Acked_Transitions	O	
Notify_Type	O	W
Event_Time_Stamps	O	
Event_Message_Texts	O	
Event_Message_Texts_Config	O	W
Event_Detection_Enable	O	
Event_Algorithm_Inhibit_Ref	O	
Event_Algorithm_Inhibit	O	W
Time_Delay_Normal	O	W
Reliability_Evaluation_Inhibit	O	W
Property_List	R	
Fault_High_Limit	O	
Fault_Low_Limit	O	
Profile_Name	O	W

### Data Link Layer Options:

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- MS/TP master (Clause 9), baud rate(s): 9600,19200,38400,57600, 76800
- BACnet Secure Connect Node
  - If direct connections are supported:
    - Maximum number of simultaneous direct connections initiated: 30
    - Maximum number of simultaneous direct connections accepted: 30
- BACnet Secure Connect Hub Function
  - Maximum number of simultaneous hub connections accepted: 50
- Additional Transport Layer Security versions other than V1.3 supported
  - The TLS versions other than V1.3 that are supported, including the supported cipher suites for the version beyond those required, using the cipher suite names as defined by the TLS version supported: TLS V1.2
- DNS host name resolution supported (RFC 1123)

### 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) between BACnet/IP network and MS/TP networks
  - Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)
  - Does the BBMD support registrations by Foreign Devices?  Yes  No
  - Does the BBMD support network address translation?  Yes  No

### Character Sets Supported:

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

- ISO 10646 (UTF-8) / ANSI X3.4
- ISO 10646 (UCS-4)
- ISO 10646 (UCS-2)
- ISO 8859-1

### Network Security Options:

- Non-secure Device - is capable of operating without BACnet Network Security
- Secure Device - is capable of using BACnet Network Security (NS-SD BIBB)
  - Multiple Application-Specific Keys
  - Supports encryption (NS-ED BIBB)
  - Key Server (NS-KS BIBB)

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports: