

## BACnet Protocol Implementation Conformance Statement

Date:	January 21, 2020
Vendor Name:	DEOS AG (Vendor ID: 142)
Product Name:	OPEN 600 EMS, OPEN 810 EMS, OPEN 4100 EMS
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,
Applications Software Version:	n. a.
Firmware Revision:	1.082.0
BACnet Protocol Revision:	16

### Product Description:

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

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

BACnet Building Controller (B-BC)

### 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

## Network Management

Network Management-Router Configuration-B	NM-RC-B
Network Management-Foreign Device Registration-A	NM-FDR-A

### 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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
Object_Type	R	
Description	O	W
Notification_Class	R	W
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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):4800,9600,19200,38400,57600, 76800

### 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.

- ANSI X3.4
- UTF-8

### 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: