BACnet

Protocol Implementation Conformance Statement (PICS)

Version 1.28.08

1.   Contents

1.1 Document Revision

18.03.2016	Initial Version
13.10.2016	Update PICS for 1.28.xx version
19.10.2016	Set final version to 1.28.03
01.11.2016	Update chapter 2 (product names and description)
20.12.2016	Update to FW version 1.28.07
20.01.2017	Update to FW version 1.28.08
02.03.2017	Update Product Name list

2.   PICS

BACnet Protocol Implementation Conformance Statement (PICS)

Date:	02.03.2017
Vendor Name:	SBC Saia Burgess Controls (Vendor ID = 89)
Product Names:	BACnet for PCD1.M2xx0, PCD2.M4x60, PCD3.Mxx60
Product Model Number:	PCD7.R562, PCD3.R562
Applications Software Version:	-
Firmware Revision:	BACnetV2_1.28.08.blk
BACnet Protocol Revision:	1.14 (ISO 16484-5:2014, BACnet ANSI/ASHRAE 135-2012)

2.1   Product Description

The Saia PCD BACnet Memory Flash Card is a Plugin into the PCD1.M, PCD2.M and PCD3.M controller hardware extending its communication capabilities to a BACnet Building Controller (B-BC).
The Saia PCD BACnet solution can be used for the following Controllers to support the B-BC profile:

PCD1
- PCD1.M2160
- PCD1.M2220-C15 [2]

PCD2
- PCD2.M4160
- PCD2.M4560 [2]

PCD3
- PCD3.M3160
- PCD3.M3360
- PCD3.M5360 [2]
- PCD3.M5560
- PCD3.M6360
- PCD3.M6560
- PCD3.M6860 [2]
- PCD3.M6880

[2] Certified Products

2.2   BACnet Standardized Device Profile (Annex L)

☐ BACnet Operator Workstation (B-OWS)
☑ BACnet Building Controller (B-BC)
☐ BACnet Advanced Application Controller (B-AAC)
☐ BACnet Application Specific Controller (B-ASC)
☐ BACnet Smart Sensor (B-SS)
☐ BACnet Smart Actuator (B-SA)
☐ BACnet Gateway (B-GW)

2.3   BACnet Interoperability Building Blocks Supported (Annex K):

2.3.1   Data Sharing BIBBs

Data Sharing Read-Property-A	DS-RP-A
Data Sharing Read-Property-B	DS-RP-B
Data Sharing Read-Property-Multiple-A	DS-RPM-A
Data Sharing Read-Property-Multiple-B	DS-RPM-B
Data Sharing Write-Property-A	DS-WP-A
Data Sharing Write-Property-B	DS-WP-B
Data Sharing Write-Property-Multiple-B	DS-WPM-B
Data Sharing COV-A	DS-COV-A
Data Sharing COV-B	DS-COV-B
Data Sharing COV-Unsolicited-A	DS-COVU-A
Data Sharing COV-Unsolicited-B	DS-COVU-B
Data Sharing COV-Property-A	DS-COVP-A
Data Sharing COV-Property-B	DS-COVP-B

2.3.2   Alarm / Event BIBBs

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

2.3.3   Scheduling BIBBs

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

2.3.4   Trending BIBBs

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-Viewing and Modifying Multiple Values External-B	T-VMMV-E-B

Trending-Automated Multiple Value Retrieval-B   T-AMVR-B

2.3.5   Device Management BIBBs

Device Management-Dynamic Device Binding-A	DM-DDB-A
Device Management-Dynamic Device Binding-B	DM-DDB-B
Device Management-Dynamic Object Binding-A	DM-DOB-A
Device Management-Dynamic Object Binding-B	DM-DOB-B
Device Management-DeviceCommunicationControl-B	DM-DCC-B
Device Management-TimeSynchronization-A	DM-TS-A
Device Management-TimeSynchronization-B	DM-TS-B
Device Management-UTCTimeSynchronization-A	DM-UTC-A
Device Management-UTCTimeSynchronization-B	DM-UTC-B
Device Management-Automated Time Synchronization-A	DM-ATS-A
Device Management-ReinitializeDevice-B	DM-RD-B
Device Management-Backup and Restore-B	DM-BR-B
Device Management-Restart-A	DM-R-A
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

2.3.6   Network Management BIBBs

Network Management-Connection Establishment-A	NM-CE-A
Network Management-Router Configuration-B	NM-RC-B

2.4   Segmentation Capability:

☑ Segmented requests supported Window Size 16
☑ Segmented responses supported Window Size 16

2.5　Standard Object Types Supported Overview

Data Objects

Analog Input Object

Analog Output Object

Analog Value Object

Averaging Object

Binary Input Object

Binary Output Object

Binary Value Object

Multistate Input Object

Multistate Output Object

Multistate Value Object

Loop Object

Accumulator Object

Pulse Converter

Command Object

Group Object

Management Objects

Device Object

Program

File Object

Structured View Object

Alarm / Event Objects

Event Enrolment Object

Notification Class Object

Schedule Objects

Schedule Object

Calendar Object

Logging Objects

Trend-Log

Trend-Log Multiple

Event Log Object

2.6   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

2.7   Data Link Layer Options:

☑ BACnet IP, (Annex J)

☑ BACnet IP, (Annex J), Foreign Device

☐ ISO 8802-3, Ethernet (Clause 7)

☐ ASTM 878.1, 2.5 Mb. ARCNET (Clause 8)

☐ ASTM 878.1, RS-485 ARCNET (Clause 8) baud rate(s) _____

☑ MS/TP*1 master (Clause 9), baud rate(s): 9600, 19200, 38400, 57600, 115200

☐ MS/TP slave (Clause 9), baud rate(s):

☐ Point-To-Point, EIA 232 (Clause 10), baud rate(s): max. EIA 232

☐ Point-To-Point, modem, (Clause 10), baud rate(s): 115200 baud / max. modem

☐ LonTalk, (Clause 11), medium: _____

☐ Other:

(*1Without MS/TP Option)

2.8   Networking Options:

☑ Router, Clause 6

- BACnet/IP – BACnet/MSTP

- BACnet/MSTP – BACnet/MSTP

☐ Annex H, BACnet Tunneling Router over IP

☑ BACnet Broadcast Management Device (BBMD)

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

2.9   Character Sets Supported:

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

☑ ANSI X3.4/UTF8	☐ IBM☐/Microsoft DBCS	☑ ISO 8859-1
☐ ISO 10646 (UCS-2)	☐ ISO 10646 (ICS-4)	☐ JIS C 6226

3.   Standard Object Types Supported

3.1   Accumulator-Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Device_Type	Present_Value
Reliability	Out_Of_Service
Prescale	Scale
Value_Change_Time	Units
Value_Before_Change	Max_Pres_Value
Value_Set	
Logging Record	**Optional Properties**
Logging_Object	Description
Time_Delay	Device_Type
Time_Delay_Normal	Reliability
Notification_Class	Prescale
Pulse_Rate	Value_Set
High_Limit	Logging_Object
Low_Limit	Time_Delay
Limit_Monitoring_Interval	Time_Delay_Normal
Limit_Enable	High_Limit
Event_Enable	Low_Limit
Acked_Transitions	Limit_Monitoring_Interval
Notify_Type	Notification_Class
Event_Time_Stamps	Limit_Enable
Event_Message_Texts	Event_Enable
Event_Message_Texts_Config	Notify_Type
Event_Detection_Enable	Event_Message_Texts_Config
Event_Algorithm_Inhibit_Ref	Event_Algorithm_Inhibit_Ref
Event_Algorithm_Inhibit	Event_Algorithm_Inhibit
Reliability_Evaluation_Inhibit	Reliability_Evaluation_Inhibit
Profile_Name	

3.2   Analog Input Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Device_Type	Present_Value
Reliability	Out_Of_Service
Update_Interval	Units
Min_Pres_Value	
Max_Pres_Value	**Optional Properties**
Resolution	Description
COV_Increment	Device_Type
	Reliability
Time_Delay	COV_Increment
Time_Delay_Normal	
Notification_Class	Time_Delay
High_Limit	Time_Delay_Normal
Low_Limit	Notification_Class
Deadband	High_Limit
Limit_Enable	Low_Limit
Event_Enable	Deadband
Acked_Transitions	Limit_Enable
Notify_Type	Event_Enable
Event_Time_Stamps	Notify_Type
Event_Message_Texts	Event_Message_Texts_Config
Event_Message_Texts_Config	Event_Algorithm_Inhibit_Ref
Event_Detection_Enable	Event_Algorithm_Inhibit
Event_Algorithm_Inhibit_Ref	Reliability_Evaluation_Inhibit
Event_Algorithm_Inhibit	
Reliability_Evaluation_Inhibit	
Profile_Name	

3.3   Analog Output Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Device_Type	Present_Value
Reliability	Relinquish_Default
Update_Interval	Out_Of_Service
Min_Pres_Value	Units
Max_Pres_Value	
Resolution	**Optional Properties**
COV_Increment	Description
	Device_Type
Time_Delay	Reliability
Time_Delay_Normal	COV_Increment
Notification_Class	
High_Limit	Time_Delay
Low_Limit	Time_Dely_Normal
Deadband	Notification_Class
Limit_Enable	High_Limit
Event_Enable	Low_Limit
Acked_Transitions	Deadband
Notify_Type	Limit_Enable
Event_Time_Stamps	Event_Enable
Event_Message_Texts	Notify_Type
Event_Message_Texts_Config	Event_Message_Texts_Config
Event_Detection_Enable	Event_Algorithm_Inhibit_Ref
Event_Algorithm_Inhibit_Ref	Event_Algorithm_Inhibit
Event_Algorithm_Inhibit	Reliability_Evaluation_Inhibit
Reliability_Evaluation_Inhibit	
Profile_Name	

3.4   Analog Value Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Reliability	Present_Value
COV_Increment	Out_Of_Service
	Units
Priority_Array	
Relinquish_Default	**Optional Properties**
	Description
Time_Delay	Reliability
Time_Delay_Normal	COV_Increment
Notification_Class	
High_Limit	Relinquish_Default
Low_Limit	
Deadband	Time_Delay
Limit_Enable	Time_Delay_Normal
Event_Enable	Notification_Class
Acked_Transitions	High_Limit
Notify_Type	Low_Limit
Event_Time_Stamps	Deadband
Event_Message_Texts	Limit_Enable
Event_Message_Texts_Config	Event_Enable
Event_Detection_Enable	Notify_Type
Event_Algorithm_Inhibit_Ref	Event_Message_Texts_Config
Event_Algorithm_Inhibit	Event_Algorithm_Inhibit_Ref
Reliability_Evaluation_Inhibit	Event_Algorithm_Inhibit
	Reliability_Evaluation_Inhibit
Profile_Name	

3.5   Averaging Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Minimum_Value_Timestamp	Attempted_Samples
Maximum_Value_Timestamp	Valid_Samples (0)
Variance_Value	Object_Property_Reference
Profile_Name	Window_Interval
	Window_Samples
	Optional Properties
	Description

3.6   Binary Input Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Device_Type	Present_Value
Reliability	Out_Of_Service
Inactive_Text	Polarity
Active_Text	
Change_Of_State_Time	**Optional Properties**
Change_Of_State_Count	Description
Time_Of_State_Count_Reset	Device_Type
Elapsed_Active_Time	Reliability
Time_Of_Active_Time_Reset	Inactive_Text
	Active_Text
Time_Delay	Change_Of_State_Count (0)
Time_Delay_Normal	Elapsed_Active_Time (0)
Notification_Class	
Alarm_Value	Time_Delay
Event_Enable	Time_Delay_Normal
Acked_Transitions	Notification_Class
Notify_Type	Alarm_Value
Event_Time_Stamps	Event_Enable
Event_Message_Texts	Notify_Type
Event_Message_Texts_Config	Event_Message_Texts_Config
Event_Detection_Enable	Event_Algorithm_Inhibit_Ref
Event_Algorithm_Inhibit_Ref	Event_Algorithm_Inhibit
Event_Algorithm_Inhibit	Reliability_Evaluation_Inhibit
Reliability_Evaluation_Inhibit	
Profile_Name	

3.7   Binary Output Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Device_Type	Present_Value
Reliability	Relinquish_Default
Inactive_Text	Out_Of_Service
Active_Text	Polarity
Change_Of_State_Time	
Change_Of_State_Count	**Optional Properties**
Time_Of_State_Count_Reset	Description
Elapsed_Active_Time	Device_Type
Time_Of_Active_Time_Reset	Reliability
Minimum_Off_Time	Inactive_Text
Minimum_On_Time	Active_Text
	Change_Of_State_Count (0)
Time_Delay	Elapsed_Active_Time (0)
Time_Delay_Normal	Minimum_Off_Time
Notification_Class	Minimum_On_Time
Feedback_Value	
Event_Enable	Time_Delay
Acked_Transitions	Time_Delay_Normal
Notify_Type	Notification_Class
Event_Time_Stamps	Feedback_Value
Event_Message_Texts	Event_Enable
Event_Message_Texts_Config	Notify_Type
Event_Detection_Enable	Event_Message_Texts_Config
Event_Algorithm_Inhibit_Ref	Event_Algorithm_Inhibit_Ref
Event_Algorithm_Inhibit	Event_Algorithm_Inhibit
Reliability_Evaluation_Inhibit	Reliability_Evaluation_Inhibit
Profile_Name	

3.8 Binary Value Object

☐ Dynamically creatable
☐ Dynamically deleteable
☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Reliability	Present_Value
Inactive_Text	Out_Of_Service
Active_Text	Polarity
Change_Of_State_Time	
Change_Of_State_Count	**Optional Properties**
Time_Of_State_Count_Reset	Description
Elapsed_Active_Time	Reliability
Time_Of_Active_Time_Reset	Inactive_Text
Minimum_Off_Time	Active_Text
Minimum_On_Time	Change_Of_State_Count (0)
	Elapsed_Active_Time (0)
	Minimum_Off_Time
Priority_Array	Minimum_On_Time
Relinquish_Default	
	Relinquish_Default
Time_Delay	
Time_Delay_Normal	Time_Delay
Notification_Class	Time_Delay_Normal
Alarm_Value	Notification_Class
Event_Enable	Alarm_Value
Acked_Transitions	Event_Enable
Notify_Type	Notify_Type
Event_Time_Stamps	Event_Message_Texts_Config
Event_Message_Texts	Event_Algorithm_Inhibit_Ref
Event_Message_Texts_Config	Event_Algorithm_Inhibit
Event_Detection_Enable	Reliability_Evaluation_Inhibit
Event_Algorithm_Inhibit_Ref	
Event_Algorithm_Inhibit	
Reliability_Evaluation_Inhibit	
Profile_Name	

3.9 Calendar Object

☑ Dynamically creatable

☑ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Profile_Name	Date_List
	Optional Properties
	Description

3.10   Command Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Action_Text	Present_Value
Profile_Name	Action
	Optional Properties
	Description
	Action_Text

3.11   Device Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Location	Object_Name
Description	APDU_Timeout
Structured_Object_List	Number_Of_APDU_Retries
Active_COV_Subscriptions	
	Optional Properties
Local_Time Time	Location
Local_Date Date	Description
UTC_Offset	
Daylight_Savings_Status	Time_Synchronization_Recipients
Time_Synchronization_Recipients	UTC_Time_Synchronization_Recipients
UTC_Time_Synchronization_Recipients	Time_Synchronization_Interval
Time_Synchronization_Interval	Align_Intervals
Align_Intervals	Interval_Offset
Interval_Offset	
	APDU_Segment_Timeout
Max_Segments_Accepted	
APDU_Segment_Timeout	Backup_Failure_Timeout
	UTC_Time_Synchronization_Recipients
Max_Master	
Max_Info_Frames	Max_Master
Slave_Proxy-Enable	Manual_Slave_Address_Binding
Manual_Slave_Address_Binding	
Auto_Slave_Discovery	Backup_Failure_Timeout
Slave_address_Binding	
	Restart_Notification_Recipients
Configuration_Files	
Last_Restore_Time	
Backup_Failure_Timeout	
Backup_Preparation_Time	
Restore_Preparation_Time	
Backup_Completition_Time	
Backup_And_Restore_State	

Last_Restart_Reason	
Time_Of_Device_Restart	
Restart_Notification_Recipients	
Serial_Number	
Profile_Name	

3.12   Event Enreollment Object

☑ Dynamically creatable

☑ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Time_Delay_Normal	Event_Type ????
Event_Message_Texts	Notify_Type
Event_Message_Texts_Config	Event_Parameters
Event_Algorithm_Inhibit_Ref	Object_Property_Reference
Event_Algorithm_Inhibit	Event_Enable
Fault_Type	Notification_Class
Fault_Parameters	Reliability
Reliability_Evaluation_Inhibit	
	Optional Properties
Profile_Name	Description
	Time_Delay_Normal
	Event_Message_Texts_Config
	Event_Algorithm_Inhibit_Ref
	Event_Algorithm_Inhibit
	Fault_Parameters
	Reliability_Evaluation_Inhibit

3.13   Event Log Object

☑ Dynamically creatable

☑ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Reliability	Enable
Start_Time	Stop_When_Full
Stop_Time	Buffer_Size
Notification_Threshold	Record_Count (0)
Records_Since_Notification	Logging_Type
Last_Notify_Record	
Notification_Class	**Optional Properties**
Event_Enable	Description
Acked_Transitions	Start_Time
Notify_Type	Stop_Time
Event_Time_Stamps	
Event_Message_Texts	Notification_Threshold
Event_Message_Texts_Config	Notification_Class
Event_Detection_Enable	Event_Enable
Event_Algorithm_Inhibit_Ref	Notify_Type
Event_Algorithm_Inhibit	Event_Message_Texts_Config
Reliability_Evaluation_Inhibit	Event_Algorithm_Inhibit_Ref
	Event_Algorithm_Inhibit
Profile_Name	Reliability_Evaluation_Inhibit

3.14 File Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Profile_Name	Archive
	Optional Properties
	Description

3.15 Group Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Profile_Name	List_Of_Group_Members
	Optional Properties
	Description

3.16 Loop Object

☐ Dynamically creatable   ☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Reliability	Present_Value
Update_Interval	Out_Of_Service
Proportional_Constant	Output_Units
Proportional_Constant_Units	Manipulated_Variable_Reference
Integral_Constant	Controlled_Variable_Reference
Integral_Constant_Units	Controlled_Variable_Units
Derivative_Constant	Setpoint_Reference
Derivative_Constant_Units	Setpoint
Bias	Action (direct, reverse)
Maximum_Output	Priority_For_Writing (1..16)
Minimum_Output	
COV_Increment	**Optional Properties**
	Description
Time_Delay	Reliability
Time_Delay_Normal	Proportional_Constant
Notification_Class	Integral_Constant
Error_Limit	Derivative_Constant
Deadband	Bias
Event_Enable	Maximum_Output
Acked_Transitions	Minimum_Output
Notify_Type	COV_Increment
Event_Time_Stamps	
Event_Message_Texts	Time_Delay
Event_Message_Texts_Config	Time_Delay_Normal
Event_Detection_Enable	Notification_Class
Event_Algorithm_Inhibit_Ref	Error_Limit
Event_Algorithm_Inhibit	Deadband
Reliability_Evaluation_Inhibit	Event_Enable
	Notify_Type
Profile_Name	Event_Message_Texts_Config
	Event_Algorithm_Inhibit_Ref
	Event_Algorithm_Inhibit
	Reliability_Evaluation_Inhibit

3.17   Multi State Input Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Device_Type	Present_Value
Reliability	Out_Of_Service
State_Text	Number_Of_States
Time_Delay	**Optional Properties**
Time_Delay_Normal	Description
Notification_Class	Reliability
Alarm_Values	Device_Type
Fault_Values	State_Text
Event_Enable	
Acked_Transitions	Time_Delay
Notify_Type	Time_Delay_Normal
Event_Time_Stamps	Notification_Class
Event_Message_Texts	Alarm_Values
Event_Message_Texts_Config	Fault_Values
Event_Detection_Enable	Event_Enable
Event_Algorithm_Inhibit_Ref	Notify_Type
Event_Algorithm_Inhibit	Event_Message_Texts_Config
Reliability_Evaluation_Inhibit	Event_Algorithm_Inhibit_Ref
	Event_Algorithm_Inhibit
Profile_Name	Reliability_Evaluation_Inhibit

3.18 Multi State Output Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Device_Type	Present_Value
Reliability	Relinquish_Default
State_Text	Out_Of_Service
	Number_Of_States
Time_Delay	
Time_Delay_Normal	**Optional Properties**
Notification_Class	Description
Feedback_Value	Device_Type
Event_Enable	Reliability
Acked_Transitions	State_Text
Notify_Type	
Event_Time_Stamps	Time_Delay
Event_Message_Texts	Time_Delay_Normal
Event_Message_Texts_Config	Notification_Class
Event_Detection_Enable	Feedback_Value
Event_Algorithm_Inhibit_Ref	Event_Enable
Event_Algorithm_Inhibit	Notify_Type
Reliability_Evaluation_Inhibit	Event_Message_Texts_Config
	Event_Algorithm_Inhibit_Ref
Profile_Name	Event_Algorithm_Inhibit
	Reliability_Evaluation_Inhibit

3.19   Multi State Value Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Reliability	Present_Value
State_Text	Out_Of_Service
	Number_Of_States
Priority_Array	
Relinquish_Default	**Optional Properties**
	Description
	Reliability
Time_Delay	State_Text
Time_Dely_Normal	
Notification_Class	
Alarm_Values	Relinquish_Default
Fault_Values	
Event_Enable	
Acked_Transitions	Time_Delay
Notify_Type	Time_Delay_Normal
Event_Time_Stamps	Notification_Class
Event_Message_Texts	Alarm_Values
Event_Message_Texts_Config	Fault_Values
Event_Detection_Enable	Event_Enable
Event_Algorithm_Inhibit_Ref	Notify_Type
Event_Algorithm_Inhibit	Event_Message_Texts_Config
Reliability_Evaluation_Inhibit	Event_Algorithm_Inhibit_Ref
	Event_Algorithm_Inhibit
	Reliability_Evaluation_Inhibit
Profile_Name	

3.20   Notification Class Object

☑ Dynamically creatable

☑ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Profile_Name	Priority
	Ack_Required
	Recipient_List
	Optional Properties
	Description

3.21   Program Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Program_Location	Out_Of_Service
Instance_Of	Program_Change
Reason_For_Halt	
Description_Of_Halt	**Optional Properties**
Reliability	Description
	Program_Location
Notification_Class	Instance_Of
Event_Enable	
Event_State	Notification_Class
Acked_Transitions	Event_Enable
Notify_Type	Notify_Type
Event_Time_Stamps	Event_Message_Texts_Config
Event_Message_Texts	Reliability_Evaluation_Inhibit
Event_Message_Texts_Config	
Event_Detection_Enable	
Reliability_Evaluation_Inhibit	
Profile_Name	

3.22   Pulse Converter Object

☐ Dynamically creatable

☐ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Input_Reference	Out_Of_Service
Reliability	Units
COV_Increment	Scale_Factor
COV_Period	Adjust_Value
Time_Delay	**Optional Properties**
Time_Delay_Normal	Description
Notification_Class	Present_Value
High_Limit	Input_Reference
Low_Limit	Reliability
Deadband	COV_Increment
Limit_Enable	COV_Period
Event_Enable	
Acked_Transitions	Time_Delay
Notify_Type	Time_Delay _Normal
Event_Time_Stamps	Notification_Class
Event_Message_Texts	High_Limit
Event_Message_Texts_Config	Low_Limit
Event_Detection_Enable	Deadband
Event_Algorithm_Inhibit_Ref	Limit_Enable
Event_Algorithm_Inhibit	Event_Enable
Reliability_Evaluation_Inhibit	Notify_Type
	Event_Message_Texts_Config
Profile_Name	Event_Algorithm_Inhibit_Ref
	Event_Algorithm_Inhibit
	Reliability_Evaluation_Inhibit

3.23   Schedule Object

☑ Dynamically creatable

☑ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Weekly_Schedule	Effective_Period
Exception_Schedule	Schedule_Default
	List_Of_Object_Property_References
Notification_Class	Priority_For_Writing
Event_Enable	Reliability
Event_State	Out_Of_Service
Acked_Transitions	
Notify_Type	**Optional Properties**
Event_Time_Stamps	Description
Event_Message_Texts	Weekly_Schedule
Event_Message_Texts_Config	Exception_Schedule
Event_Detection_Enable	
Reliability_Evaluation_Inhibit	Notification_Class
	Event_Enable
Profile_Name	Notify_Type
	Event_Message_Texts_Config
	Reliability_Evaluation_Inhibit

3.24   Structured View Object

☑ Dynamically creatable

☑ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Node_Sub_Type	Node_Type
Subordinate_Annotations	Subordinate_List
Profile_Name	
	Optional Properties
	Description
	Node_Sub_Type
	Subordinate_Annotations

3.25 Trend Log Object

☑ Dynamically creatable
☑ Dynamically deleteable
☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Reliability	Enable
Start_Time	Stop_When_Full
Stop_Time	Buffer_Size
Log_DeviceObjectProperty	Record_Count (0)
Log_Interval	Logging_Type
COV_Resubscription_Interval	
Client_COV_Increment	**Optional Properties**
Align_Intervals	Description
Interval_Offset	Start_Time
Trigger	Stop_Time
	Log_DeviceObjectProperty
Notification_Threshold	Log_Interval
Records_Since_Notification	COV_Resubscription_Interval
Last_Notify_Record	Client_COV_Increment
Notification_Class	Align_Intervals
Event_Enable	Interval_Offset
Acked_Transitions	Trigger
Notify_Type	
Event_Time_Stamps	Notification_Threshold
Event_Message_Texts	Notification_Class
Event_Message_Texts_Config	Event_Enable
Event_Detection_Enable	Notify_Type
Event_Algorithm_Inhibit_Ref	Event_Message_Texts_Config
Event_Algorithm_Inhibit	Event_Algorithm_Inhibit_Ref
Reliability_Evaluation_Inhibit	Event_Algorithm_Inhibit
	Reliability_Evaluation_Inhibit
Profile_Name	

3.26   Trend Log Multiple Object

☑ Dynamically creatable

☑ Dynamically deleteable

☐ Contains Propriatry Properties

Optional properties	Writeable properties
Description	Object_Name
Reliability	Enable
Start_Time	Log_DeviceObjectProperty
Stop_Time	Stop_When_Full
Align_Intervals	Buffer_Size
Interval_Offset	Record_Count (0)
Trigger	Logging_Type
	Log_Interval
Notification_Threshold	
Records_Since_Notification	**Optional Properties**
Last_Notify_Record	Description
Notification_Class	Start_Time
Event_Enable	Stop_Time
Acked_Transitions	Align_Intervals
Notify_Type	Interval_Offset
Event_Time_Stamps	Trigger
Event_Message_Texts	
Event_Message_Texts_Config	Notification_Threshold
Event_Detection_Enable	Notification_Class
Event_Algorithm_Inhibit_Ref	Event_Enable
Event_Algorithm_Inhibit	Notify_Type
Reliability_Evaluation_Inhibit	Event_Message_Texts_Config
	Event_Algorithm_Inhibit_Ref
Profile_Name	Event_Algorithm_Inhibit
	Reliability_Evaluation_Inhibit

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