

SAMSON



Protocol Implementation Conformance Statement

PICS

TROVIS 6610 Automation Station Model 6610-0002

Software Version SAMSON BACstack V2.0



TROVIS 6610

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DOCUMENT REVISION

Version	Date	Author	Revision Information
0.1	2007-04-19	gkr	Start
1.0	2007-09-25	gkr	Event Enrollment / Event Type / only readable
1.1	2007-09-27	gkr	Puls Converter / Update_Time / only readable Binary Value / Minimum_Off_Time / not supported Binary Value / Minimum_On_Time / not supported Binary Input / Polarity writable Binary Output / Polarity writable
1.2	2008-02-25	gkr	All objects / Object_Name writable Analog Output / Relinquish_Default / only readable Analog Output / High_Limit supported Binary Output / Relinquish_Default only readable Multistate Output / Relinquish_Default only readable Schedule / List_Of_Obj_Prop_References writable Trendlog / Notification_Threshold writable
1.3	2008-03-06	big	Object File / Line Record_Count removed All Objects / Property Profile_Name removed SAMSON BACstack v 1.3
1.4	2008-04-07	gkr	Analog Value / Out_Of_Service / writable Analog Value / Reliability / writable Binary Value / Out_Of_Service / writable Binary Value / Reliability / writable Binary Value / Change_Of_State_Count / writable Binary Value / Elapsed_Active_Time / writable Multistate Value / Out_Of_Service / writable Multistate Value / Reliability / writable SAMSON BACstack v 1.6
1.5	2009-02-19	gkr	Multistate Value / complement Priority_Array Multistate Value / complement Relinquish_Default Firmware Revision / complement BACnet Protocol Revision / complement
1.6	2011-02-22	gkr	Device / VT_Classes_Supported removed Active_VT_Sessions removed List_Of_Session_Keys removed Max_Master removed Max_Info_Frames removed Slave_Proxy_Enable removed Man_Slave_Addr_Binding removed Auto_Slave_Discovery removed Slave_Address_Binding removed



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1.7	2013-06-11	gkr	Supplements AMEV/Certification BACnet Standard 12 (DIN EN ISO 16484-5:2007)
1.8	2013-09-02	gkr	Multistate Value Number_Of_States added
1.9	2013-09-17	gkr	Trendlog Logging_Type added Align_Intervals added Interval_Offset added



1. BACnet Protocol Implementation Conformance Statement (PICS)

Date: 2013-09-17
Vendor Name: SAMSON AG (BACnet Vendor ID 51)
Product Name: TROVIS 6610 Automation Station
Product Model Number: 6610-0002
Application Software Version: 2.0
Firmware Revision: 2.0 (SAMSON BACstack 2.0)
BACnet Protocol Revision: BACnet Standard 135-2010 Rev 12

1.1. Product Description

Autonomous automation station for control and monitoring purposes

1.2. BACnet standardized device profile (Annex L)

- BACnet Operator Workstation (B-OWS)
- BACnet Advanced Operator Workstation (B-AWS)
- BACnet Operator Display (B-OD)
- 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)



1.3. BACnet interoperability building blocks supported (Annex K)

1.3.1. Data Sharing BIBBs

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

1.3.2. Alarm and event management 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 - AlarmSummary-B	AE-ASUM-B
Alarm and Event - EnrollmentSummary-B	AE-ESUM-B
Alarm and Event - Information-B	AE-INFO-B

1.3.3. Sheduling BIBBs

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

1.3.4. 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



1.3.5. 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-B	DM-DOB-B
Device Management - Device Communication Control	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 - Automatic 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

1.3.6. Network management BIBBs

Network Management - ConnectionEstablishment-A	NM-CE-A
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1.4. Segmentation capability

- Able to transmit segmented messages Window size : 16
- Able to receive segmented messages Window size : 16



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1.5. Standard object types supported

Object	Supported	Create	Delete
Accumulator			
Analog Input	<input checked="" type="checkbox"/>		
Analog Output	<input checked="" type="checkbox"/>		
Analog Value	<input checked="" type="checkbox"/>		
Averaging			
Binary Input	<input checked="" type="checkbox"/>		
Binary Output	<input checked="" type="checkbox"/>		
Binary Value	<input checked="" type="checkbox"/>		
Calendar	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Command			
Device	<input checked="" type="checkbox"/>		
Event Enrollment (Event Log)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
File	<input checked="" type="checkbox"/>		
(Global Group)			
Group			
Life Safety Point			
Life Safety Zone			
Loop	<input checked="" type="checkbox"/>		
Multistate Input	<input checked="" type="checkbox"/>		
Multistate Output	<input checked="" type="checkbox"/>		
Multistate Value	<input checked="" type="checkbox"/>		
Notification Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Programm			
Pulse Converter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Schedule	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Trendlog (Trendlog Multiple)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



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1.5.1. Analog Input

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Present_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Device_Typ	<input checked="" type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>		
Event_State	<input checked="" type="checkbox"/>		
Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Out_Of_Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Update_Interval	<input checked="" type="checkbox"/>		
Units	<input checked="" type="checkbox"/>		
Min_Pres_Value	<input checked="" type="checkbox"/>		
Max_Pres_Value	<input checked="" type="checkbox"/>		
Resolution	<input checked="" type="checkbox"/>		
COV_Increment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
High_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Low_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Deadband	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Limit_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transition	<input checked="" type="checkbox"/>		
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps	<input checked="" type="checkbox"/>		
Event_Message_Texts	<input checked="" type="checkbox"/>		

* These properties are writable when Out_Of_Service is TRUE



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1.5.2. Analog Output

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Present_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Device_Type	<input checked="" type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>		
Event_State	<input checked="" type="checkbox"/>		
Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Out_Of_Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Units	<input checked="" type="checkbox"/>		
Min_Pres_Value	<input checked="" type="checkbox"/>		
Max_Pres_Value	<input checked="" type="checkbox"/>		
Resolution	<input checked="" type="checkbox"/>		
Priority_Array	<input checked="" type="checkbox"/>		
Relinquish_Default	<input checked="" type="checkbox"/>		
COV_Increment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
High_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Low_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Deadband	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Limit_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transitions	<input checked="" type="checkbox"/>		
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps	<input checked="" type="checkbox"/>		
Event_Message_Texts	<input checked="" type="checkbox"/>		

* This property is writable when Out_Of_Service is TRUE



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1.5.3. Analog Value

Optional properties	supported	Writable properties	roperty range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Present_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Status_Flags	<input checked="" type="checkbox"/>		
Event_State	<input checked="" type="checkbox"/>		
Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> **	
Out_Of_Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Units	<input checked="" type="checkbox"/>		
Priority_Array	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ***	
Relinquish_Default	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ***	
COV_Increment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
High_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Low_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Deadband	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Limit_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transitions	<input checked="" type="checkbox"/>		
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps	<input checked="" type="checkbox"/>		
Event_Message_Texts	<input checked="" type="checkbox"/>		

* This property is writable when "parameter"

** This property is writable when Out_Of_Service is TRUE

*** These properties are commandable with FB BAC-A



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1.5.4. Binary Input

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Present_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Device_Type	<input checked="" type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>		
Event_State	<input checked="" type="checkbox"/>		
Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Out_Of_Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Polarity	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Inactive_Text	<input checked="" type="checkbox"/>		
Active_Text	<input checked="" type="checkbox"/>		
Change_Of_State_Time	<input checked="" type="checkbox"/>		
Change_Of_State_Count	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T_Of_State_Count_Reset	<input checked="" type="checkbox"/>		
Elapsed_Active_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T_Of_Active_Time_Reset	<input checked="" type="checkbox"/>		
Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarm_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transitions	<input checked="" type="checkbox"/>		
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps	<input checked="" type="checkbox"/>		
Event_Message_Texts	<input checked="" type="checkbox"/>		

* These properties are writable when Out_Of_Service is TRUE



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1.5.5. Binary Output

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Present_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Device_Type	<input checked="" type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>		
Event_State	<input checked="" type="checkbox"/>		
Reliability	<input checked="" type="checkbox"/>		
Out_Of_Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Polarity	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Inactive_Text	<input checked="" type="checkbox"/>		
Active_Text	<input checked="" type="checkbox"/>		
Change_Of_State_Time	<input checked="" type="checkbox"/>		
Change_Of_State_Count	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T_Of_State_Count_Reset	<input checked="" type="checkbox"/>		
Elapsed_Active_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T_Of_Active_Time_Reset	<input checked="" type="checkbox"/>		
Minimum_Off_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Minimum_On_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Priority_Array	<input checked="" type="checkbox"/>		
Relinquish_Default	<input checked="" type="checkbox"/>		
Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Feedback_Value	<input checked="" type="checkbox"/>		
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transitions	<input checked="" type="checkbox"/>		
Notify_Type	<input checked="" type="checkbox"/>		
Event_Time_Stamps	<input checked="" type="checkbox"/>		
Event_Message_Texts	<input checked="" type="checkbox"/>		



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1.5.6. Binary Value

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Present_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Status_Flags	<input checked="" type="checkbox"/>		
Event_State	<input checked="" type="checkbox"/>		
Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> **	
Out_Of_Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Inactive_Text	<input checked="" type="checkbox"/>		
Active_Text	<input checked="" type="checkbox"/>		
Change_Of_State_Time	<input checked="" type="checkbox"/>		
Change_Of_State_Count	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T_Of_State_Count_Reset	<input checked="" type="checkbox"/>		
Elapsed_Active_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
T_Of_Active_Time_Reset	<input checked="" type="checkbox"/>		
Minimum_Off_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ***	
Minimum_On_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ***	
Priority_Array	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ***	
Relinquish_Default	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ***	
Time_Delay	<input checked="" type="checkbox"/>		
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarm_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transitions	<input checked="" type="checkbox"/>		
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps	<input checked="" type="checkbox"/>		
Event_Message_Texts	<input checked="" type="checkbox"/>		

* This property is writable when "parameter"

** This property is writable when Out_Of_Service is TRUE

*** These properties are commandable with FB BAC-B



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1.5.7. Calendar

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Present_Value	<input checked="" type="checkbox"/>		
Date_List	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

1.5.8. Device

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
System_Status	<input checked="" type="checkbox"/>		
Vendor_Name	<input checked="" type="checkbox"/>		
Vendor_Identifier	<input checked="" type="checkbox"/>		
Model_Name	<input checked="" type="checkbox"/>		
Firmware_Revision	<input checked="" type="checkbox"/>		
App_Software_Version	<input checked="" type="checkbox"/>		
Location	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Protocol_Version	<input checked="" type="checkbox"/>		
Protocol_Revision	<input checked="" type="checkbox"/>		
Prot_Services_Supported	<input checked="" type="checkbox"/>		
Prot_Obj_Types_Supp	<input checked="" type="checkbox"/>		
Object_List	<input checked="" type="checkbox"/>		
Max_APDU_Length_Acc	<input checked="" type="checkbox"/>		
Segmentation_Supported	<input checked="" type="checkbox"/>		
Max_Segments_Accepted	<input checked="" type="checkbox"/>		
Local_Time	<input checked="" type="checkbox"/>		
Local_Date	<input checked="" type="checkbox"/>		
UTC_Offset	<input checked="" type="checkbox"/>		
Daylight_Savings_Status	<input checked="" type="checkbox"/>		
APDU_Segment_Timeout	<input checked="" type="checkbox"/>		
APDU_Timeout	<input checked="" type="checkbox"/>		
Nu_Of_APDU_Retries	<input checked="" type="checkbox"/>		
Time_Synch_Intervall	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	****



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T_Synch_Recipients	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ****
UTC_Time_Synch_Recipients	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ****
Align_Intervals	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ****
Interval_Offset	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ****
Device_Address_Binding	<input checked="" type="checkbox"/>	
Database_Revision	<input checked="" type="checkbox"/>	
Configuration_Files	<input checked="" type="checkbox"/>	
Last_Restore_Time	<input checked="" type="checkbox"/>	
Backup_Failure_Timeout	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Backup_Preparation_Time	<input checked="" type="checkbox"/>	
Restore_Preparation_Time	<input checked="" type="checkbox"/>	
Restore_Completion_Time	<input checked="" type="checkbox"/>	
Active_COV_Subscriptions	<input checked="" type="checkbox"/>	
Restart_Notification_Recipients	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**** This property is writable when device is Time_Master



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1.5.9. Event Enrollment

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Type	<input checked="" type="checkbox"/>		
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Parameters	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Obj_Property_Reference	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_State	<input checked="" type="checkbox"/>		
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transitions	<input checked="" type="checkbox"/>		
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps	<input checked="" type="checkbox"/>		
Event_Message_Texts	<input checked="" type="checkbox"/>		

1.5.10. File

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
File_Type	<input checked="" type="checkbox"/>		
File_Size	<input checked="" type="checkbox"/>		
Modification_Date	<input checked="" type="checkbox"/>		
Archive	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Read_Only	<input checked="" type="checkbox"/>		
File_Access_Method	<input checked="" type="checkbox"/>		



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1.5.11. Loop

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Present_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Status_Flag	<input checked="" type="checkbox"/>		
Event_State	<input checked="" type="checkbox"/>		
Reliability	<input checked="" type="checkbox"/>		
Out_Of_Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Update_Interval	<input checked="" type="checkbox"/>		
Output_Units	<input checked="" type="checkbox"/>		
Manipulated_Variable_Reference	<input checked="" type="checkbox"/>		
Controlled_Variable_Reference	<input checked="" type="checkbox"/>		
Controlled_Variable_Value	<input checked="" type="checkbox"/>		
Controlled_Variable_Units	<input checked="" type="checkbox"/>		
Setpoint_Reference	<input checked="" type="checkbox"/>		
Setpoint	<input checked="" type="checkbox"/>		
Action	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Proportional_Constant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> **	
Proportional_Constant_Units	<input checked="" type="checkbox"/> **		
Integral_Constant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ***	
Integral_Constant_Units	<input checked="" type="checkbox"/> ***		
Derivative_Constant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ****	
Derivative_Constant_Units	<input checked="" type="checkbox"/> ****		
Bias	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Maximum_Output	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Minimum_Output	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Priority_For_Writing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
COV_Increment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *****	
Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *****	
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *****	
Error_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *****	



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Optional properties	supported	Writable properties	Property range restrictions
Deadband	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *****	
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *****	
ACK_Transitions	<input checked="" type="checkbox"/> *****		
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *****	
Event_Time_Stamps	<input checked="" type="checkbox"/> *****		
Event_Message_Texts	<input checked="" type="checkbox"/> *****		
Profile_Name	<input checked="" type="checkbox"/>		

* These properties are writable when Out_Of_Service is TRUE

** If one of these optional properties is present, then both of these properties shall be present

*** If one of these optional properties is present, then both of these properties shall be present

**** If one of these optional properties is present, then both of these properties shall be present

***** This property is required if the object supports COV reporting

***** These properties are required if the object supports intrinsic reporting

***** This property, if present, is required to be read only



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1.5.12. Multistate Input

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Present_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Device_Type	<input checked="" type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>		
Event_State	<input checked="" type="checkbox"/>		
Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Out_Of_Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Number_Of_States	<input checked="" type="checkbox"/>		
State_Text	<input checked="" type="checkbox"/>		
Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarm_Values	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Fault_Values	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transitions	<input checked="" type="checkbox"/>		
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps	<input checked="" type="checkbox"/>		
Event_Message_Texts	<input checked="" type="checkbox"/>		

* These properties are writable when Out_Of_Service is TRUE



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1.5.13. Multistate Output

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Present_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Device_Type	<input checked="" type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>		
Event_State	<input checked="" type="checkbox"/>		
Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Out_Of_Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Number_Of_States	<input checked="" type="checkbox"/>		
State_Text	<input checked="" type="checkbox"/>		
Priority_Array	<input checked="" type="checkbox"/>		
Relinquish_Default	<input checked="" type="checkbox"/>		
Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Feedback_Value	<input checked="" type="checkbox"/>		
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transitions	<input checked="" type="checkbox"/>		
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps	<input checked="" type="checkbox"/>		
Event_Message_Texts	<input checked="" type="checkbox"/>		

* This property is writable when Out_Of_Service is TRUE



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1.5.14. Multistate Value

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Present_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Status_Flags	<input checked="" type="checkbox"/>		
Event_State	<input checked="" type="checkbox"/>		
Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> **	
Out_Of_Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Number_Of_States	<input checked="" type="checkbox"/>		
Update_Interval	<input checked="" type="checkbox"/>		
State_Text	<input checked="" type="checkbox"/>		
Priority_Array	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ***	
Relinquish_Default	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ***	
Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarm_Values	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Fault_Values	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transitions	<input checked="" type="checkbox"/>		
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps	<input checked="" type="checkbox"/>		
Event_Message_Texts	<input checked="" type="checkbox"/>		

* This property is writable when "parameter"

** This property is writable when Out_Of_Service is TRUE

*** These properties are commandable with FB BAC-M



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1.5.15. Notification Class

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification_Class	<input checked="" type="checkbox"/>		
Priority	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Ack_Required	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Recipient_List	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	



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1.5.16. Pulse Converter

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Present_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Input_Reference	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Status_Flags	<input checked="" type="checkbox"/>		
Event_State	<input checked="" type="checkbox"/>		
Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Out_Of_Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Units	<input checked="" type="checkbox"/>		
Scale_Factor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Adjust_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Count	<input checked="" type="checkbox"/>		
Update_Time	<input checked="" type="checkbox"/>		
Count_Change_Time	<input checked="" type="checkbox"/>		
Count_Before_Change	<input checked="" type="checkbox"/>		
COV_Increment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
COV_Period	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
High_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Low_Limit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Deadband	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Limit_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transitions	<input checked="" type="checkbox"/>		
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps	<input checked="" type="checkbox"/>		
Event_Message_Texts	<input checked="" type="checkbox"/>		

* These properties are writable when Out_Of_Service is TRUE



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1.5.17. Schedule

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Present_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Effective_Period	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Weekly_Schedule	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Exception_Schedule	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Schedule_Default	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
List_Of_Obj._Prop._References	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Priority_For_Writing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Status_Flags	<input checked="" type="checkbox"/>		
Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> *	
Out_Of_Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

* These properties are writable when Out_Of_Service is TRUE



BACnet Protocol Implementation Conformance Statement (PICS)

1.5.18. Trendlog

Optional properties	supported	Writable properties	Property range restrictions
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Object_Type	<input checked="" type="checkbox"/>		
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Log_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Start_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Stop_Time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Log_DeviceObjectProperty	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Log_Interval	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
COV_Resubscription_Interval	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Client_COV_Increment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Stop_When_Full	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Buffer_Size	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	*
Log_Buffer	<input checked="" type="checkbox"/>		
Record_Count	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Logging_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Align_Intervals	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Interval_Offset	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Trigger	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Status_Flags	<input checked="" type="checkbox"/>		
Reliability	<input checked="" type="checkbox"/>		
Total_Record_Count	<input checked="" type="checkbox"/>		
Notification_Threshold	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Records_Since_Notification	<input checked="" type="checkbox"/>		
Last_Notify_Record	<input checked="" type="checkbox"/>		
Event_State	<input checked="" type="checkbox"/>		
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transitions	<input checked="" type="checkbox"/>		
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps	<input checked="" type="checkbox"/>		
Event_Message_Texts	<input checked="" type="checkbox"/>		

* This property is writable when Log_Enable is FALSE



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1.6. Data Link Layer Options

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ANSI/ATA 878.1, RS-485 ARCNET (Clause 8)
- MS/TP master (Clause 9), baud rate(s):
- MS/TP slave (Clause 9), baud rate(s):
- Point-To-Point, EIA 232 (Clause 10), baud rate(s): 115200 bit/s
- Point-To-Point, modem, (Clause 10), baud rate(s): max. Modem
- LonTalk, (Clause 11), medium:
- Other:

1.7. Device Address Binding

Is static device binding supported? Yes No

1.8. Network Options

- Router, Clause 6, BACnet IP / BACnet PTP)
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)

Does the BBMD support registrations by foreign devices? Yes No
(Max. list foreign devices = 128)

Does the BBMD support network address translation)? Yes No

1.9. Character Sets Supported

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

- | | |
|---|---|
| <input checked="" type="checkbox"/> ISO 10646 (UTF-8) | <input checked="" type="checkbox"/> ISO 10646 (UCS-2) |
| <input type="checkbox"/> IBM / Microsoft DBCS | <input checked="" type="checkbox"/> ISO 10646 (UCS-4) |
| <input checked="" type="checkbox"/> ISO 8859-1 | <input type="checkbox"/> JIS C 6226 |