

SIEMENS



Desigo™ V5 BACnet Protocol Implementation Conformance Statement (PICS) Basic documentation

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1 Desigo PX automation station

Date	: 22 February 2012
Vendor name	: Siemens Building Technologies (Vendor ID 7)
Product name	: Desigo PX automation station
Product model number	: PX... (see table below)
BACnet protocol version	: 1.10
Application software version	–
Firmware revision	: V5.00.xxx

1.1 Product model number

The Desigo PX automation station is a range of products based on the same software. The PICS are the same for all products listed below. The simultaneously supported Data Link Layers of a product are different and also listed.

Product	Description	Data Link Layer
PXC00.D	Modular automation station	LON
PXC00-E.D	Modular automation station	IP
PXC50.D	Modular automation station	LON
PXC50-E.D	Modular automation station	IP
PXC100.D	Modular automation station	LON
PXC100-E.D	Modular automation station	IP
PXC200.D	Modular automation station	LON
PXC200-E.D	Modular automation station	IP
PXC12.D	Compact automation station	LON
PXC12-E.D	Compact automation station	IP
PXC12-T.D	Compact automation station	LON, PTP
PXC22.D	Compact automation station	LON
PXC22-E.D	Compact automation station	IP
PXC22-T.D	Compact automation station	LON, PTP
PXC36.D	Compact automation station	LON
PXC36-E.D	Compact automation station	IP
PXC36-T.D	Compact automation station	LON, PTP
PXC52	Compact automation station	LON
PXC-NRUF	Compact automation station	LON
PXC00-U	Modular automation station	LON/IP ¹⁾ , PTP ²⁾
PXC64-U	Modular automation station	LON/IP ¹⁾ , PTP ²⁾
PXC128-U	Modular automation station	LON/IP ¹⁾ , PTP ²⁾

¹⁾ Only LON or IP possible; depends on configuration and extension modules.

²⁾ Additional PTP for half-router function possible; depends on configuration and extension modules.

1.2 Product description

The Desigo PXC is a freely configurable process unit with focus on HVAC. The process unit as a system platform can be used in the Desigo product range as a stand-alone or network device with BACnet communication.

1.3 BACnet standardized device profile (Annex L)

<input type="checkbox"/>	BACnet Advanced Workstation	(B-AWS)
<input type="checkbox"/>	BACnet Operator Workstation	(B-OWS)
<input type="checkbox"/>	BACnet Operator Display	(B-OD)
<input checked="" type="checkbox"/>	BACnet Building Controller	(B-BC)
<input type="checkbox"/>	BACnet Advanced Application Controller	(B-AAC)
<input type="checkbox"/>	BACnet Application Specific Controller	(B-ASC)
<input type="checkbox"/>	BACnet Smart Sensor	(B-SS)
<input type="checkbox"/>	BACnet Smart Actuator	(B-SA)

1.4 BACnet interoperability building blocks supported (Annex K)

Data sharing

<input checked="" type="checkbox"/>	Data Sharing – Read Property-A	DS-RP-A
<input checked="" type="checkbox"/>	Data Sharing – Read Property-B	DS-RP-B
<input checked="" type="checkbox"/>	Data Sharing – Read Property Multiple-A	DS-RPM-A
<input checked="" type="checkbox"/>	Data Sharing – Read Property Multiple-B	DS-RPM-B
<input checked="" type="checkbox"/>	Data Sharing – Write Property-A	DS-WP-A
<input checked="" type="checkbox"/>	Data Sharing – Write Property-B	DS-WP-B
<input type="checkbox"/>	Data Sharing – Write Property Multiple-A	DS-WPM-A
<input checked="" type="checkbox"/>	Data Sharing – Write Property Multiple-B	DS-WPM-B
<input checked="" type="checkbox"/>	Data Sharing – Change of Value -A	DS-COV-A
<input checked="" type="checkbox"/>	Data Sharing – Change of Value -B	DS-COV-B
<input checked="" type="checkbox"/>	Data Sharing – Change of Value Property -A	DS-COVP-A
<input checked="" type="checkbox"/>	Data Sharing – Change of Value Property -B	DS-COVP-B
<input type="checkbox"/>	Data Sharing – Change of Value-Unsolicited-A	DS-COVU-A
<input type="checkbox"/>	Data Sharing – Change of Value-Unsolicited-B	DS-COVU-B
<input type="checkbox"/>	Data Sharing – View-A	DS-V-A
<input type="checkbox"/>	Data Sharing – Advanced View-A	DS-AV-A
<input type="checkbox"/>	Data Sharing – Modify-A	DS-M-A
<input type="checkbox"/>	Data Sharing – Advanced Modify-A	DS-AM-A

Alarm and event management

<input type="checkbox"/>	Alarm and Event – Notification-A	AE-N-A
<input checked="" type="checkbox"/>	Alarm and Event – Notification Internal-B	AE-N-I-B
<input checked="" type="checkbox"/>	Alarm and Event – Notification External-B	AE-N-E-B
<input type="checkbox"/>	Alarm and Event – ACK-A	AE-ACK-A
<input checked="" type="checkbox"/>	Alarm and Event – ACK-B	AE-ACK-B
<input type="checkbox"/>	Alarm and Event – Alarm Summary-A	AE-ASUM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary-B	AE-ASUM-B
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-A	AE-ESUM-A
<input checked="" type="checkbox"/>	Alarm and Event – Enrollment Summary-B	AE-ESUM-B
<input type="checkbox"/>	Alarm and Event – Information-A	AE-INFO-A
<input checked="" type="checkbox"/>	Alarm and Event – Information-B	AE-INFO-B
<input type="checkbox"/>	Alarm and Event – Life Safety-A	AE-LS-A
<input type="checkbox"/>	Alarm and Event – Life Safety-B	AE-LS-B
<input type="checkbox"/>	Alarm and Event – View Notifications-A	AE-VN-A
<input type="checkbox"/>	Alarm and Event – Advanced View Notifications-A	AE-AVN-A
<input type="checkbox"/>	Alarm and Event – View and Modify-A	AE-VM-A
<input type="checkbox"/>	Alarm and Event – Advanced View and Modify-A	AE-AVM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary View-A	AE-AS-A
<input type="checkbox"/>	Alarm and Event – Event Log View-A	AE-ELV-A
<input type="checkbox"/>	Alarm and Event – Event Log View and Modify-A	AE-ELVM-A
<input type="checkbox"/>	Alarm and Event – Event Log Internal-B	AE-EL-I-B
<input type="checkbox"/>	Alarm and Event – Event Log External-B	AE-EL-E-B

Scheduling

<input type="checkbox"/>	Scheduling – A	SCHED-A
<input checked="" type="checkbox"/>	Scheduling – Internal-B	SCHED-I-B
<input checked="" type="checkbox"/>	Scheduling – External-B	SCHED-E-B
<input type="checkbox"/>	Scheduling – Advanced View Modify-A	SCH-AVM-A
<input type="checkbox"/>	Scheduling – View Modify-A	SCH-VM-A
<input type="checkbox"/>	Scheduling – Weekly Schedule-A	SCH-WS-A
<input type="checkbox"/>	Scheduling – Weekly Schedule Internal-B	SCH-WS-I-B
<input type="checkbox"/>	Scheduling – Readable-B	SCH-R-B

Trending

<input type="checkbox"/>	Trending – Viewing and Modifying Trends-A	T-VMT-A
<input checked="" type="checkbox"/>	Trending – Viewing and Modifying Internal-B	T-VM-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying External-B	T-VM-E-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values-A	T-VMMV-A
<input checked="" type="checkbox"/>	Trending – Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values External -B	T-VMMV-E-B
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-A	T-AMVR-A
<input checked="" type="checkbox"/>	Trending – Automated Multiple Value Retrieval-B	T-AMVR-B
<input type="checkbox"/>	Trending – View-A	T-V-A
<input type="checkbox"/>	Trending – Advanced View and Modify-A	T-AVM-A
<input type="checkbox"/>	Trending – Archival-A	T-A-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-A	T-ATR-A
<input checked="" type="checkbox"/>	Trending – Automated Trend Retrieval-B	T-ATR-B

Device management

<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-A	DM-DDB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-B	DM-DDB-B
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-A	DM-DOB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-B	DM-DOB-B
<input type="checkbox"/>	Device Management – Device Communication Control-A	DM-DCC-A
<input checked="" type="checkbox"/>	Device Management – Device Communication Control-B	DM-DCC-B
<input checked="" type="checkbox"/>	Device Management – Private Transfer-A	DM-PT-A
<input checked="" type="checkbox"/>	Device Management – Private Transfer-B	DM-PT-B
<input type="checkbox"/>	Device Management – Text Message-A	DM-TM-A
<input type="checkbox"/>	Device Management – Text Message-B	DM-TM-B
<input checked="" type="checkbox"/>	Device Management – Time Synchronization-A	DM-TS-A
<input checked="" type="checkbox"/>	Device Management – Time Synchronization-B	DM-TS-B
<input checked="" type="checkbox"/>	Device Management – UTC Time Synchronization-A	DM-UTC-A
<input checked="" type="checkbox"/>	Device Management – UTC Time Synchronization-B	DM-UTC-B
<input type="checkbox"/>	Device Management – Reinitialize Device-A	DM-RD-A
<input checked="" type="checkbox"/>	Device Management – Reinitialize Device-B	DM-RD-B
<input type="checkbox"/>	Device Management – Backup and Restore-A	DM-BR-A
<input checked="" type="checkbox"/>	Device Management – Backup and Restore-B	DM-BR-B
<input type="checkbox"/>	Device Management – Restart-A	DM-R-A
<input checked="" type="checkbox"/>	Device Management – Restart-B	DM-R-B

Device management

<input type="checkbox"/>	Device Management – List Manipulation-A	DM-LM-A
<input checked="" type="checkbox"/>	Device Management – List Manipulation-B	DM-LM-B
<input type="checkbox"/>	Device Management – Object Creation and Deletion-A	DM-OCD-A
<input type="checkbox"/>	Device Management – Object Creation and Deletion-B	DM-OCD-B
<input type="checkbox"/>	Device Management – Virtual Terminal-A	DM-VT-A
<input type="checkbox"/>	Device Management – Virtual Terminal-B	DM-VT-B
<input type="checkbox"/>	Device Management – Automatic Network Mapping-A	DM-ANM-A
<input type="checkbox"/>	Device Management – Automatic Device Mapping-A	DM-ADM-A
<input type="checkbox"/>	Device Management – Automatic Time Synchronization-A	DM-ATS-A
<input type="checkbox"/>	Device Management – Manual Time Synchronization-A	DM-MTS-A

Network management

<input checked="" type="checkbox"/>	Network Management – Connection Establishment-A	NM-CE-A ¹⁾
<input checked="" type="checkbox"/>	Network Management – Connection Establishment-B	NM-CE-B ²⁾
<input type="checkbox"/>	Network Management – Router Configuration-A	NM-RC-A
<input type="checkbox"/>	Network Management – Router Configuration-B	NM-RC-B

¹⁾ establish connection only

²⁾ if product supports PTP

1.5 Standard object types supported

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Analog Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calendar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Command	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Enrollment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
File	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loop	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification Class	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schedule	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Averaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accumulator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulse-Converter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log Multiple	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structured-View	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Door	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(unassigned)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Credential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Rights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Credential Data Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network Security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bitstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Characterstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Date Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Octetstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positive Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Details

Notes on the specification of the following object types:

Writable properties are read only if they are under program control.

Variants of object types (different set of properties) are possible in the case of value objects (e.g. Analog Value). The variants are distinguished by the object tag. The object tag is listed as additional information in the EDE file.

Analog Input

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Update_Interval	<input type="checkbox"/>		
Units	<input checked="" type="checkbox"/>	R	
Min_Pres_Value	<input checked="" type="checkbox"/>	R	
Max_Pres_Value	<input checked="" type="checkbox"/>	R	
Resolution	<input checked="" type="checkbox"/>	R	
COV_Increment	<input checked="" type="checkbox"/>	R	
Time_Delay	<input checked="" type="checkbox"/>	W	0...65535
Notification_Class	<input checked="" type="checkbox"/>	R	
High_Limit	<input checked="" type="checkbox"/>	W	
Low_Limit	<input checked="" type="checkbox"/>	W	
Deadband	<input checked="" type="checkbox"/>	W	0...maxReal
Limit_Enable	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Analog Output

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Units	<input checked="" type="checkbox"/>	R	
Min_Pres_Value	<input checked="" type="checkbox"/>	R	
Max_Pres_Value	<input checked="" type="checkbox"/>	R	
Resolution	<input checked="" type="checkbox"/>	R	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	
COV_Increment	<input checked="" type="checkbox"/>	R	
Time_Delay	<input checked="" type="checkbox"/>	W	0...65535
Notification_Class	<input checked="" type="checkbox"/>	R	
High_Limit	<input checked="" type="checkbox"/>	W	
Low_Limit	<input checked="" type="checkbox"/>	W	
Deadband	<input checked="" type="checkbox"/>	W	0...maxReal
Limit_Enable	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

**Analog Value
(object tag = 4)**

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Units	<input checked="" type="checkbox"/>	R	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	
COV_Increment	<input checked="" type="checkbox"/>	R	
Time_Delay	<input checked="" type="checkbox"/>	W	0...65535
Notification_Class	<input checked="" type="checkbox"/>	R	
High_Limit	<input checked="" type="checkbox"/>	W	
Low_Limit	<input checked="" type="checkbox"/>	W	
Deadband	<input checked="" type="checkbox"/>	W	0...maxReal
Limit_Enable	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

**Analog Value
(object tag =
2 or 51 or 66)**

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Units	<input checked="" type="checkbox"/>	R	
COV_Increment	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

**Analog Value
(object tag = 67)**

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Units	<input checked="" type="checkbox"/>	R	
COV_Increment	<input checked="" type="checkbox"/>	R	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Binary Input

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Polarity	<input checked="" type="checkbox"/>	W	
Inactive_Text	<input checked="" type="checkbox"/>	R	
Active_Text	<input checked="" type="checkbox"/>	R	
Change_Of_State_Time	<input type="checkbox"/>		
Change_Of_State_Count	<input type="checkbox"/>		
Time_Of_State_Count_Reset	<input type="checkbox"/>		
Elapsed_Active_Time	<input checked="" type="checkbox"/>	W	
Time_Of_Active_Time_Reset	<input checked="" type="checkbox"/>	R	
Time_Delay	<input checked="" type="checkbox"/>	W	0...65535
Notification_Class	<input checked="" type="checkbox"/>	R	
Alarm_Value	<input checked="" type="checkbox"/>	W	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Binary Output

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Polarity	<input checked="" type="checkbox"/>	W	
Inactive_Text	<input checked="" type="checkbox"/>	R	
Active_Text	<input checked="" type="checkbox"/>	R	
Change_Of_State_Time	<input type="checkbox"/>		
Change_Of_State_Count	<input type="checkbox"/>		
Time_Of_State_Count_Reset	<input type="checkbox"/>		
Elapsed_Active_Time	<input checked="" type="checkbox"/>	W	
Time_Of_Active_Time_Reset	<input checked="" type="checkbox"/>	R	
Minimum_Off_Time	<input checked="" type="checkbox"/>	W	0...65535
Minimum_On_Time	<input checked="" type="checkbox"/>	W	0...65535
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	
Time_Delay	<input checked="" type="checkbox"/>	W	0...65535
Notification_Class	<input checked="" type="checkbox"/>	R	
Feedback_Value	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

**Binary Value
(object tag = 9)**

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Inactive_Text	<input checked="" type="checkbox"/>	R	
Active_Text	<input checked="" type="checkbox"/>	R	
Change_Of_State_Time	<input type="checkbox"/>		
Change_Of_State_Count	<input type="checkbox"/>		
Time_Of_State_Count_Reset	<input type="checkbox"/>		
Elapsed_Active_Time	<input checked="" type="checkbox"/>	W	
Time_Of_Active_Time_Reset	<input checked="" type="checkbox"/>	R	
Minimum_Off_Time	<input checked="" type="checkbox"/>	W	0...65535
Minimum_On_Time	<input checked="" type="checkbox"/>	W	0...65535
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	
Time_Delay	<input checked="" type="checkbox"/>	W	0...65535
Notification_Class	<input checked="" type="checkbox"/>	R	
Alarm_Value	<input checked="" type="checkbox"/>	W	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Binary Value
(object tag = 7 or 52)

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Inactive_Text	<input checked="" type="checkbox"/>	R	
Active_Text	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Calendar

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
Date_List	<input checked="" type="checkbox"/>	W	Max. 30
Profile_Name	<input checked="" type="checkbox"/>	R	

Device

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
System_Status	<input checked="" type="checkbox"/>	R	
Vendor_Name	<input checked="" type="checkbox"/>	R	
Vendor_Identifier	<input checked="" type="checkbox"/>	R	
Model_Name	<input checked="" type="checkbox"/>	R	
Firmware_Revision	<input checked="" type="checkbox"/>	R	
Application_Software_Version	<input checked="" type="checkbox"/>	R	
Location	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Protocol_Version	<input checked="" type="checkbox"/>	R	
Protocol_Revision	<input checked="" type="checkbox"/>	R	
Protocol_Services_Supported	<input checked="" type="checkbox"/>	R	
Protocol_Object_Types_Supported	<input checked="" type="checkbox"/>	R	
Object_List	<input checked="" type="checkbox"/>	R	
Structured_Object_List	<input type="checkbox"/>		
Max_APDU_Length_Accepted	<input checked="" type="checkbox"/>	R	
Segmentation_Supported	<input checked="" type="checkbox"/>	R	
Max_Segments_Accepted	<input checked="" type="checkbox"/>	R	
VT_Classes_Supported	<input type="checkbox"/>		
Active_VT_Sessions	<input type="checkbox"/>		
Local_Time	<input checked="" type="checkbox"/>	R	
Local_Date	<input checked="" type="checkbox"/>	R	
UTC_Offset	<input checked="" type="checkbox"/>	W	-780...780
Daylight_Savings_Status	<input checked="" type="checkbox"/>	R	
APDU_Segment_Timeout	<input checked="" type="checkbox"/>	R	
APDU_Timeout	<input checked="" type="checkbox"/>	R	
Number_Of_APDU_Retries	<input checked="" type="checkbox"/>	R	
List_Of_Session_Keys	<input type="checkbox"/>		
Time_Synchronization_Recipients	<input checked="" type="checkbox"/>	W	
Max_Master	<input type="checkbox"/>		
Max_Info_Frames	<input type="checkbox"/>		
Device_Address_Binding	<input checked="" type="checkbox"/>	R	
Database_Revision	<input checked="" type="checkbox"/>	R	
Configuration_Files	<input checked="" type="checkbox"/>	R	
Last_Restore_Time	<input checked="" type="checkbox"/>	R	
Backup_Failure_Timeout	<input checked="" type="checkbox"/>	W	0...65535
Backup_Preparation_Time	<input checked="" type="checkbox"/>	R	
Restore_Preparation_Time	<input checked="" type="checkbox"/>	R	
Restore_Completion_Time	<input checked="" type="checkbox"/>	R	
Backup_And_Restore_State	<input checked="" type="checkbox"/>	R	
Active_COV_Subscriptions	<input checked="" type="checkbox"/>	R	
Slave_Proxy_Enable	<input type="checkbox"/>		
Manual_Slave_Adress_Binding	<input type="checkbox"/>		

Properties	supported	Readable/ Writable	Range restrictions
Auto_Slave_Discovery	<input type="checkbox"/>		
Slave_Address_Binding	<input type="checkbox"/>		
Last_Restart_Reason	<input checked="" type="checkbox"/>	R	
Time_Of_Device_Restart	<input checked="" type="checkbox"/>	R	
Restart_Notification_Recipients	<input checked="" type="checkbox"/>	W	
UTC_Time_Synchronization_Recipients	<input checked="" type="checkbox"/>	W	
Time_Synchronization_Interval	<input checked="" type="checkbox"/>	W	
Align_Intervals	<input checked="" type="checkbox"/>	W	
Interval_Offset	<input checked="" type="checkbox"/>	W	
Profile_Name	<input checked="" type="checkbox"/>	R	

Event Enrollment

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Event_Type	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Parameters	<input checked="" type="checkbox"/>	W	
Object_Property_Reference	<input checked="" type="checkbox"/>	W	
Event_State	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notification_Class	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

File

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
File_Type	<input checked="" type="checkbox"/>	R	
File_Size	<input checked="" type="checkbox"/>	R	
Modification_Date	<input checked="" type="checkbox"/>	R	
Archive	<input checked="" type="checkbox"/>	W	
Read_Only	<input checked="" type="checkbox"/>	R	
File_Access_Method	<input checked="" type="checkbox"/>	R	
Record_Count	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Loop

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Update_Interval	<input type="checkbox"/>		
Output_Units	<input checked="" type="checkbox"/>	R	
Manipulated_Variable_Reference	<input checked="" type="checkbox"/>	R	
Controlled_Variable_Reference	<input checked="" type="checkbox"/>	R	
Controlled_Variable_Value	<input checked="" type="checkbox"/>	R	
Controlled_Variable_Units	<input checked="" type="checkbox"/>	R	
Setpoint_Reference	<input checked="" type="checkbox"/>	R	
Setpoint	<input checked="" type="checkbox"/>	W	-50..150
Action	<input checked="" type="checkbox"/>	W	
Proportional_Constant	<input checked="" type="checkbox"/>	W	
Proportional_Constant_Units	<input checked="" type="checkbox"/>	R	
Integral_Constant	<input checked="" type="checkbox"/>	R	
Integral_Constant_Units	<input checked="" type="checkbox"/>	R	
Derivative_Constant	<input checked="" type="checkbox"/>	R	
Derivative_Constant_Units	<input checked="" type="checkbox"/>	R	
Bias	<input checked="" type="checkbox"/>	W	-50..150
Maximum_Output	<input checked="" type="checkbox"/>	W	50..150
Minimum_Output	<input checked="" type="checkbox"/>	W	50..150
Priority_For_Writing	<input checked="" type="checkbox"/>	R	
COV_Increment	<input checked="" type="checkbox"/>	R	
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
Error_Limit	<input type="checkbox"/>		
Deadband	<input checked="" type="checkbox"/>	W	
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Multistate Input

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Number_Of_States	<input checked="" type="checkbox"/>	R	
State_Text	<input checked="" type="checkbox"/>	R	
Time_Delay	<input checked="" type="checkbox"/>	W	0...65535
Notification_Class	<input checked="" type="checkbox"/>	R	
Alarm_Values	<input checked="" type="checkbox"/>	W	Max. 16
Fault_Values	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Multistate Output

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	1...Number_Of_States
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Number_Of_States	<input checked="" type="checkbox"/>	R	
State_Text	<input checked="" type="checkbox"/>	R	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	1...Number_Of_States
Time_Delay	<input checked="" type="checkbox"/>	W	0...65535
Notification_Class	<input checked="" type="checkbox"/>	R	
Feedback_Value	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

**Multistate Value
(object tag = 14)**

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	1...Number_Of_States
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Number_Of_States	<input checked="" type="checkbox"/>	R	
State_Text	<input checked="" type="checkbox"/>	R	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	1...Number_Of_States
Time_Delay	<input checked="" type="checkbox"/>	W	0...65535
Notification_Class	<input checked="" type="checkbox"/>	R	
Alarm_Values	<input checked="" type="checkbox"/>	W	Max. 16
Fault_Values	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

**Multistate Value
(object tag = 12 or 53)**

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	1...Number_Of_States
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Number_Of_States	<input checked="" type="checkbox"/>	R	
State_Text	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Notification Class

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Notification_Class	<input checked="" type="checkbox"/>	R	
Priority	<input checked="" type="checkbox"/>	W	
Ack_Required	<input checked="" type="checkbox"/>	R	
Recipient_List	<input checked="" type="checkbox"/>	W	Max. 20
Profile_Name	<input checked="" type="checkbox"/>	R	

Schedule

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Effective_Period	<input checked="" type="checkbox"/>	W	
Weekly_Schedule	<input checked="" type="checkbox"/>	W	Max. 10 per day
Exception_Schedule	<input checked="" type="checkbox"/>	W	Max. 20
Schedule_Default	<input checked="" type="checkbox"/>	W	
List_Of_Object_Property_References	<input checked="" type="checkbox"/>	W	
Priority_For_Writing	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Profile_Name	<input checked="" type="checkbox"/>	R	

Trend Log

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Enable	<input checked="" type="checkbox"/>	W	
Start_Time	<input checked="" type="checkbox"/>	W	
Stop_Time	<input checked="" type="checkbox"/>	W	
Log_DeviceObjectProperty	<input checked="" type="checkbox"/>	W	
Log_Interval	<input checked="" type="checkbox"/>	W	0; 1 sec...720 h
COV_Resubscription_Interval	<input checked="" type="checkbox"/>	R	
Client_COV_Increment	<input checked="" type="checkbox"/>	W	
Stop_When_Full	<input checked="" type="checkbox"/>	W	
Buffer_Size	<input checked="" type="checkbox"/>	W	0...5000
Log_Buffer	<input checked="" type="checkbox"/>	R	
Record_Count	<input checked="" type="checkbox"/>	W	0...0
Total_Record_Count	<input checked="" type="checkbox"/>	R	
Notification_Threshold	<input checked="" type="checkbox"/>	W	0...5000
Records_Since_Notification	<input checked="" type="checkbox"/>	R	
Last_Notify_Record	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Notification_Class	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	
Logging_Type	<input checked="" type="checkbox"/>	W	
Align_Intervals	<input checked="" type="checkbox"/>	W	
Interval_Offset	<input checked="" type="checkbox"/>	W	
Trigger	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	

Accumulator

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Scale	<input checked="" type="checkbox"/>	R	
Units	<input checked="" type="checkbox"/>	R	
Prescale	<input checked="" type="checkbox"/>	R	
Max_Pres_Value	<input checked="" type="checkbox"/>	R	
Value_Change_Time	<input checked="" type="checkbox"/>	R	
Value_Before_Change	<input checked="" type="checkbox"/>	R	
Value_Set	<input checked="" type="checkbox"/>	W	
Logging_Record	<input type="checkbox"/>		
Logging_Object	<input type="checkbox"/>		
Pulse_Rate	<input checked="" type="checkbox"/>	R	
High_Limit	<input checked="" type="checkbox"/>	W	
Low_Limit	<input checked="" type="checkbox"/>	W	
Limit_Monitoring_Interval	<input checked="" type="checkbox"/>	W	0...65535
Notification_Class	<input checked="" type="checkbox"/>	R	
Time_Delay	<input checked="" type="checkbox"/>	W	0...65535
Limit_Enable	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Pulse-Converter

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
Input_Reference	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Units	<input checked="" type="checkbox"/>	R	
Scale_Factor	<input checked="" type="checkbox"/>	W	
Adjust_Value	<input checked="" type="checkbox"/>	W	
Count	<input checked="" type="checkbox"/>	R	
Update_Time	<input checked="" type="checkbox"/>	R	
Count_Change_Time	<input checked="" type="checkbox"/>	R	
Count_Before_Change	<input checked="" type="checkbox"/>	R	
COV_Increment	<input checked="" type="checkbox"/>	R	
COV_Period	<input checked="" type="checkbox"/>	W	0...65535
Notification_Class	<input checked="" type="checkbox"/>	R	
Time_Delay	<input checked="" type="checkbox"/>	W	0...65535
High_Limit	<input checked="" type="checkbox"/>	W	
Low_Limit	<input checked="" type="checkbox"/>	W	
Deadband	<input checked="" type="checkbox"/>	W	0...maxReal
Limit_Enable	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Trend Log Multiple

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Enable	<input checked="" type="checkbox"/>	W	
Start_Time	<input checked="" type="checkbox"/>	W	
Stop_Time	<input checked="" type="checkbox"/>	W	
Log_DeviceObjectProperty	<input checked="" type="checkbox"/>	W	
Logging_Type	<input checked="" type="checkbox"/>	W	
Log_Interval	<input checked="" type="checkbox"/>	W	0; 1 sec...720 h
Align_Intervals	<input checked="" type="checkbox"/>	W	
Interval_Offset	<input checked="" type="checkbox"/>	W	
Trigger	<input checked="" type="checkbox"/>	W	
Stop_When_Full	<input checked="" type="checkbox"/>	W	
Buffer_Size	<input checked="" type="checkbox"/>	W	
Log_Buffer	<input checked="" type="checkbox"/>	R	
Record_Count	<input checked="" type="checkbox"/>	W	0...0
Total_Record_Count	<input checked="" type="checkbox"/>	R	
Notification_Threshold	<input checked="" type="checkbox"/>	W	0...5000
Records_Since_Notification	<input checked="" type="checkbox"/>	R	
Last_Notify_Record	<input checked="" type="checkbox"/>	R	
Notification_Class	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

1.6 Segmentation capability

<input checked="" type="checkbox"/>	Able to transmit segmented messages	Window size	4
<input checked="" type="checkbox"/>	Able to receive segmented messages	Window size	4

1.7 Data Link Layer options

The simultaneously supported Data Link Layers of a product are listed with the product model number.

<input checked="" type="checkbox"/>	BACnet IP, (Annex J)	
<input type="checkbox"/>	BACnet IP, (Annex J), Foreign Device	
<input type="checkbox"/>	ISO 8802-3, Ethernet (Clause 7)	
<input type="checkbox"/>	ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)	
<input type="checkbox"/>	ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s)	
<input type="checkbox"/>	MS/TP master (Clause 9), baud rate(s)	
<input type="checkbox"/>	MS/TP slave (Clause 9), baud rate(s)	
<input checked="" type="checkbox"/>	Point-To-Point, EIA 232 (Clause 10), baud rate(s)	: 38400
<input checked="" type="checkbox"/>	Point-To-Point, modem, (Clause 10), baud rate(s)	: 38400
<input checked="" type="checkbox"/>	LonTalk, (Clause 11), medium	: TP/FT-10
<input type="checkbox"/>	Other	

1.8 Device address binding

Is static device binding supported?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
-------------------------------------	------------------------------	--

1.9 Networking options

<input checked="" type="checkbox"/>	Router, Clause 6 (remote management functionality/BACnet PTP)
<input type="checkbox"/>	Annex H, BACnet Tunnelling Router over IP
<input checked="" type="checkbox"/>	BACnet/IP Broadcast Management Device (BBMD) ¹⁾ Number of BDT entries: 50 Number of FDT entries: 50
Does the BBMD support registrations by foreign devices?	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

1) if product supports IP

1.10 Character sets supported

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

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

Note

- Outgoing character strings are communicated in the selected character set.
- Incoming character strings with character sets other than ISO 8859-1 will be mapped to ISO8859-1 internally. If the mapping is not possible, the character string is not accepted.

2 Desigo PXC3 automation station

Date	: 22 February 2012
Vendor name	: Siemens Building Technologies (Vendor ID 7)
Product name	: Desigo PXC3 automation station
Product model number	: PXC3
BACnet protocol version	: 1.10
Application software version	–
Firmware revision	: V1.1.xx.xxx

2.1 Product model number

The Desigo PXC3 automation station is a range of products based on the same software. The PICS are the same for all products listed below.

Product	Description	Data Link Layer
PXC3.E72	Modular automation station	IP
PXC3.E72A	Modular automation station	IP
PXC3.E75	Modular automation station	IP
PXC3.E75A	Modular automation station	IP

2.2 Product description

The Desigo PXC3 is a freely configurable process unit. The process unit as a system platform can be used in the Desigo product range as a stand-alone or network device with BACnet communication.

2.3 BACnet standardized device profile (Annex L)

<input type="checkbox"/>	BACnet Advanced Workstation	(B-AWS)
<input type="checkbox"/>	BACnet Operator Workstation	(B-OWS)
<input type="checkbox"/>	BACnet Operator Display	(B-OD)
<input type="checkbox"/>	BACnet Building Controller	(B-BC)
<input type="checkbox"/>	BACnet Advanced Application Controller	(B-AAC)
<input checked="" type="checkbox"/>	BACnet Application Specific Controller	(B-ASC)
<input type="checkbox"/>	BACnet Smart Sensor	(B-SS)
<input type="checkbox"/>	BACnet Smart Actuator	(B-SA)

2.4 BACnet interoperability building blocks supported (Annex K)

Data sharing

<input checked="" type="checkbox"/>	Data Sharing – Read Property-A	DS-RP-A
<input checked="" type="checkbox"/>	Data Sharing – Read Property-B	DS-RP-B
<input checked="" type="checkbox"/>	Data Sharing – Read Property Multiple-A	DS-RPM-A
<input checked="" type="checkbox"/>	Data Sharing – Read Property Multiple-B	DS-RPM-B
<input checked="" type="checkbox"/>	Data Sharing – Write Property-A	DS-WP-A
<input checked="" type="checkbox"/>	Data Sharing – Write Property-B	DS-WP-B
<input checked="" type="checkbox"/>	Data Sharing – Write Property Multiple-A	DS-WPM-A
<input checked="" type="checkbox"/>	Data Sharing – Write Property Multiple-B	DS-WPM-B
<input checked="" type="checkbox"/>	Data Sharing – Change of Value -A	DS-COV-A
<input checked="" type="checkbox"/>	Data Sharing – Change of Value -B	DS-COV-B
<input checked="" type="checkbox"/>	Data Sharing – Change of Value Property -A	DS-COVP-A
<input checked="" type="checkbox"/>	Data Sharing – Change of Value Property -B	DS-COVP-B
<input type="checkbox"/>	Data Sharing – Change of Value-Unsolicited-A	DS-COVU-A
<input type="checkbox"/>	Data Sharing – Change of Value-Unsolicited-B	DS-COVU-B
<input type="checkbox"/>	Data Sharing – View-A	DS-V-A
<input type="checkbox"/>	Data Sharing – Advanced View-A	DS-AV-A
<input type="checkbox"/>	Data Sharing – Modify-A	DS-M-A
<input type="checkbox"/>	Data Sharing – Advanced Modify-A	DS-AM-A

Alarm and event management

<input type="checkbox"/>	Alarm and Event – Notification-A	AE-N-A
<input type="checkbox"/>	Alarm and Event – Notification Internal-B	AE-N-I-B
<input type="checkbox"/>	Alarm and Event – Notification External-B	AE-N-E-B
<input type="checkbox"/>	Alarm and Event – ACK-A	AE-ACK-A
<input type="checkbox"/>	Alarm and Event – ACK-B	AE-ACK-B
<input type="checkbox"/>	Alarm and Event – Alarm Summary-A	AE-ASUM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary-B	AE-ASUM-B
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-A	AE-ESUM-A
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-B	AE-ESUM-B
<input type="checkbox"/>	Alarm and Event – Information-A	AE-INFO-A
<input type="checkbox"/>	Alarm and Event – Information-B	AE-INFO-B
<input type="checkbox"/>	Alarm and Event – Life Safety-A	AE-LS-A
<input type="checkbox"/>	Alarm and Event – Life Safety-B	AE-LS-B
<input type="checkbox"/>	Alarm and Event – View Notifications-A	AE-VN-A
<input type="checkbox"/>	Alarm and Event – Advanced View Notifications-A	AE-AVN-A
<input type="checkbox"/>	Alarm and Event – View and Modify-A	AE-VM-A
<input type="checkbox"/>	Alarm and Event – Advanced View and Modify-A	AE-AVM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary View-A	AE-AS-A
<input type="checkbox"/>	Alarm and Event – Event Log View-A	AE-ELV-A
<input type="checkbox"/>	Alarm and Event – Event Log View and Modify-A	AE-ELVM-A
<input type="checkbox"/>	Alarm and Event – Event Log-Internal-B	AE-EL-I-B
<input type="checkbox"/>	Alarm and Event – Event Log-External-B	AE-EL-E-B

Scheduling

<input type="checkbox"/>	Scheduling – A	SCHE-A
<input type="checkbox"/>	Scheduling – Internal-B	SCHE-I-B
<input type="checkbox"/>	Scheduling – External-B	SCHE-E-B
<input type="checkbox"/>	Scheduling – Advanced View Modify-A	SCH-AVM-A
<input type="checkbox"/>	Scheduling – View Modify-A	SCH-VM-A
<input type="checkbox"/>	Scheduling – Weekly Schedule-A	SCH-WS-A
<input type="checkbox"/>	Scheduling – Weekly Schedule Internal-B	SCH-WS-I-B
<input type="checkbox"/>	Scheduling – Readable-B	SCH-R-B

Trending

<input type="checkbox"/>	Trending – Viewing and Modifying Trends-A	T-VMT-A
<input checked="" type="checkbox"/>	Trending – Viewing and Modifying Internal-B	T-VM-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying External-B	T-VM-E-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values-A	T-VMMV-A
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values External-B	T-VMMV-E-B
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-A	T-AMVR-A
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-B	T-AMVR-B
<input type="checkbox"/>	Trending – View-A	T-V-A
<input type="checkbox"/>	Trending – Advanced View and Modify-A	T-AVM-A
<input type="checkbox"/>	Trending – Archival-A	T-A-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-A	T-ATR-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-B	T-ATR-B

Device management

<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-A	DM-DDB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-B	DM-DDB-B
<input type="checkbox"/>	Device Management – Dynamic Object Binding-A	DM-DOB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-B	DM-DOB-B
<input type="checkbox"/>	Device Management – Device Communication Control-A	DM-DCC-A
<input checked="" type="checkbox"/>	Device Management – Device Communication Control-B	DM-DCC-B
<input type="checkbox"/>	Device Management – Private Transfer-A	DM-PT-A
<input type="checkbox"/>	Device Management – Private Transfer-B	DM-PT-B
<input type="checkbox"/>	Device Management – Text Message-A	DM-TM-A
<input type="checkbox"/>	Device Management – Text Message-B	DM-TM-B
<input type="checkbox"/>	Device Management – Time Synchronization-A	DM-TS-A
<input checked="" type="checkbox"/>	Device Management – Time Synchronization-B	DM-TS-B
<input type="checkbox"/>	Device Management – UTC Time Synchronization-A	DM-UTC-A
<input checked="" type="checkbox"/>	Device Management – UTC Time Synchronization-B	DM-UTC-B
<input type="checkbox"/>	Device Management – Reinitialize Device-A	DM-RD-A
<input checked="" type="checkbox"/>	Device Management – Reinitialize Device-B	DM-RD-B
<input type="checkbox"/>	Device Management – Backup and Restore-A	DM-BR-A
<input checked="" type="checkbox"/>	Device Management – Backup and Restore-B	DM-BR-B
<input type="checkbox"/>	Device Management – Restart-A	DM-R-A
<input checked="" type="checkbox"/>	Device Management – Restart-B	DM-R-B

Device management

<input type="checkbox"/>	Device Management – List Manipulation-A	DM-LM-A
<input checked="" type="checkbox"/>	Device Management – List Manipulation-B	DM-LM-B
<input type="checkbox"/>	Device Management – Object Creation and Deletion-A	DM-OCD-A
<input type="checkbox"/>	Device Management – Object Creation and Deletion-B	DM-OCD-B
<input type="checkbox"/>	Device Management – Virtual Terminal-A	DM-VT-A
<input type="checkbox"/>	Device Management – Virtual Terminal-B	DM-VT-B
<input type="checkbox"/>	Device Management – Automatic Network Mapping-A	DM-ANM-A
<input type="checkbox"/>	Device Management – Automatic Device Mapping-A	DM-ADM-A
<input type="checkbox"/>	Device Management – Automatic Time Synchronization-A	DM-ATS-A
<input type="checkbox"/>	Device Management – Manual Time Synchronization-A	DM-MTS-A

Network management

<input type="checkbox"/>	Network Management – Connection Establishment-A	NM-CE-A
<input type="checkbox"/>	Network Management – Connection Establishment-B	NM-CE-B
<input type="checkbox"/>	Network Management – Router Configuration-A	NM-RC-A
<input type="checkbox"/>	Network Management – Router Configuration-B	NM-RC-B

2.5 Standard object types supported

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Analog Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calendar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Command	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Enrollment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
File	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification Class	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schedule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Averaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accumulator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulse-Converter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log Multiple	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structured-View	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Door	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(unassigned)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Credential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Rights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Credential Data Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network Security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bitstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Characterstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Date Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Octetstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positive Integer Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Analog Input

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	W	
Device_Type	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Update_Interval	<input type="checkbox"/>		
Units	<input checked="" type="checkbox"/>	W	
Min_Pres_Value	<input checked="" type="checkbox"/>	W	
Max_Pres_Value	<input checked="" type="checkbox"/>	W	
Resolution	<input checked="" type="checkbox"/>	W	
COV_Increment	<input checked="" type="checkbox"/>	W	
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
High_Limit	<input type="checkbox"/>		
Low_Limit	<input type="checkbox"/>		
Deadband	<input type="checkbox"/>		
Limit_Enable	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Analog Output

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	W	
Device_Type	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Units	<input checked="" type="checkbox"/>	W	
Min_Pres_Value	<input checked="" type="checkbox"/>	W	
Max_Pres_Value	<input checked="" type="checkbox"/>	W	
Resolution	<input checked="" type="checkbox"/>	W	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	
COV_Increment	<input checked="" type="checkbox"/>	W	
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
High_Limit	<input type="checkbox"/>		
Low_Limit	<input type="checkbox"/>		
Deadband	<input type="checkbox"/>		
Limit_Enable	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Analog Value

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Units	<input checked="" type="checkbox"/>	W	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	
COV_Increment	<input checked="" type="checkbox"/>	W	
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
High_Limit	<input type="checkbox"/>		
Low_Limit	<input type="checkbox"/>		
Deadband	<input type="checkbox"/>		
Limit_Enable	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Binary Input

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	W	
Device_Type	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Polarity	<input checked="" type="checkbox"/>	W	
Inactive_Text	<input checked="" type="checkbox"/>	W	
Active_Text	<input checked="" type="checkbox"/>	W	
Change_Of_State_Time	<input type="checkbox"/>		
Change_Of_State_Count	<input type="checkbox"/>		
Time_Of_State_Count_Reset	<input type="checkbox"/>		
Elapsed_Active_Time	<input type="checkbox"/>		
Time_Of_Active_Time_Reset	<input type="checkbox"/>		
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
Alarm_Value	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Binary Output

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	W	
Device_Type	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Polarity	<input checked="" type="checkbox"/>	W	
Inactive_Text	<input checked="" type="checkbox"/>	W	
Active_Text	<input checked="" type="checkbox"/>	W	
Change_Of_State_Time	<input type="checkbox"/>		
Change_Of_State_Count	<input type="checkbox"/>		
Time_Of_State_Count_Reset	<input type="checkbox"/>		
Elapsed_Active_Time	<input type="checkbox"/>		
Time_Of_Active_Time_Reset	<input type="checkbox"/>		
Minimum_Off_Time	<input type="checkbox"/>		
Minimum_On_Time	<input type="checkbox"/>		
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
Feedback_Value	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Binary Value

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Inactive_Text	<input checked="" type="checkbox"/>	W	
Active_Text	<input checked="" type="checkbox"/>	W	
Change_Of_State_Time	<input type="checkbox"/>		
Change_Of_State_Count	<input type="checkbox"/>		
Time_Of_State_Count_Reset	<input type="checkbox"/>		
Elapsed_Active_Time	<input type="checkbox"/>		
Time_Of_Active_Time_Reset	<input type="checkbox"/>		
Minimum_Off_Time	<input type="checkbox"/>		
Minimum_On_Time	<input type="checkbox"/>		
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
Alarm_Value	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Command

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	W	
Present_Value	<input checked="" type="checkbox"/>	W	
In_Process	<input checked="" type="checkbox"/>	R	
All_Writes_Successful	<input checked="" type="checkbox"/>	R	
Action	<input checked="" type="checkbox"/>	W	
Action_Text	<input checked="" type="checkbox"/>	W	
Profile_Name	<input checked="" type="checkbox"/>	R	

Device

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
System_Status	<input checked="" type="checkbox"/>	R	
Vendor_Name	<input checked="" type="checkbox"/>	R	
Vendor_Identifier	<input checked="" type="checkbox"/>	R	
Model_Name	<input checked="" type="checkbox"/>	R	
Firmware_Revision	<input checked="" type="checkbox"/>	R	
Application_Software_Version	<input checked="" type="checkbox"/>	R	
Location	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	W	
Protocol_Version	<input checked="" type="checkbox"/>	R	
Protocol_Revision	<input checked="" type="checkbox"/>	R	
Protocol_Services_Supported	<input checked="" type="checkbox"/>	R	
Protocol_Object_Types_Supported	<input checked="" type="checkbox"/>	R	
Object_List	<input checked="" type="checkbox"/>	R	
Structured_Object_List	<input checked="" type="checkbox"/>	R	
Max_APDU_Length_Accepted	<input checked="" type="checkbox"/>	R	
Segmentation_Supported	<input checked="" type="checkbox"/>	R	
Max_Segments_Accepted	<input checked="" type="checkbox"/>	R	
VT_Classes_Supported	<input type="checkbox"/>		
Active_VT_Sessions	<input type="checkbox"/>		
Local_Time	<input checked="" type="checkbox"/>	R	
Local_Date	<input checked="" type="checkbox"/>	R	
UTC_Offset	<input checked="" type="checkbox"/>	R	
Daylight_Savings_Status	<input checked="" type="checkbox"/>	R	
APDU_Segment_Timeout	<input checked="" type="checkbox"/>	R	
APDU_Timeout	<input checked="" type="checkbox"/>	R	
Number_Of_APDU_Retries	<input checked="" type="checkbox"/>	R	
List_Of_Session_Keys	<input type="checkbox"/>		
Time_Synchronization_Recipients	<input type="checkbox"/>		
Max_Master	<input type="checkbox"/>		
Max_Info_Frames	<input type="checkbox"/>		
Device_Address_Binding	<input checked="" type="checkbox"/>	R	
Database_Revision	<input checked="" type="checkbox"/>	R	
Configuration_Files	<input checked="" type="checkbox"/>	R	
Last_Restore_Time	<input checked="" type="checkbox"/>	R	
Backup_Failure_Timeout	<input checked="" type="checkbox"/>	W	
Backup_Preparation_Time	<input type="checkbox"/>		
Restore_Preparation_Time	<input type="checkbox"/>		
Restore_Completion_Time	<input type="checkbox"/>		
Backup_And_Restore_State	<input type="checkbox"/>		
Active_COV_Subscriptions	<input checked="" type="checkbox"/>	R	
Slave_Proxy_Enable	<input type="checkbox"/>		
Manual_Slave_Adress_Binding	<input type="checkbox"/>		

Properties	supported	Readable/ Writable	Range restrictions
Auto_Slave_Discovery	<input type="checkbox"/>		
Slave_Address_Binding	<input type="checkbox"/>		
Last_Restart_Reason	<input checked="" type="checkbox"/>	R	
Time_Of_Device_Restart	<input checked="" type="checkbox"/>	R	
Restart_Notification_Recipients	<input checked="" type="checkbox"/>	W	
UTC_Time_Synchronization_Recipients	<input type="checkbox"/>		
Time_Synchronization_Interval	<input type="checkbox"/>		
Align_Intervals	<input type="checkbox"/>		
Interval_Offset	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

File

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	W	
File_Type	<input checked="" type="checkbox"/>	R	
File_Size	<input checked="" type="checkbox"/>	W	
Modification_Date	<input checked="" type="checkbox"/>	R	
Archive	<input checked="" type="checkbox"/>	W	
Read_Only	<input checked="" type="checkbox"/>	R	
File_Access_Method	<input checked="" type="checkbox"/>	R	
Record_Count	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Multistate Input

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	W	
Device_Type	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Number_Of_States	<input checked="" type="checkbox"/>	R	
State_Text	<input checked="" type="checkbox"/>	W	
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
Alarm_Values	<input type="checkbox"/>		
Fault_Values	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Multistate Output

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	W	
Device_Type	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Number_Of_States	<input checked="" type="checkbox"/>	R	
State_Text	<input checked="" type="checkbox"/>	W	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
Feedback_Value	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Notification Class

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	W	
Notification_Class	<input checked="" type="checkbox"/>	R	
Priority	<input checked="" type="checkbox"/>	W	
Ack_Required	<input checked="" type="checkbox"/>	W	
Recipient_List	<input checked="" type="checkbox"/>	W	
Profile_Name	<input checked="" type="checkbox"/>	R	

Multistate Value

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Number_Of_States	<input checked="" type="checkbox"/>	R	
State_Text	<input checked="" type="checkbox"/>	W	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
Feedback_Value	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Trend Log

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	W	
Enable	<input checked="" type="checkbox"/>	W	
Start_Time	<input checked="" type="checkbox"/>	W	
Stop_Time	<input checked="" type="checkbox"/>	W	
Log_DeviceObjectProperty	<input checked="" type="checkbox"/>	W	
Log_Interval	<input checked="" type="checkbox"/>	W	
COV_Resubscription_Interval	<input checked="" type="checkbox"/>	R	
Client_COV_Increment	<input type="checkbox"/>		
Stop_When_Full	<input checked="" type="checkbox"/>	W	
Buffer_Size	<input checked="" type="checkbox"/>	W	
Log_Buffer	<input checked="" type="checkbox"/>	R	
Record_Count	<input checked="" type="checkbox"/>	W	
Total_Record_Count	<input checked="" type="checkbox"/>	R	
Notification_Threshold	<input checked="" type="checkbox"/>	W	
Records_Since_Notification	<input checked="" type="checkbox"/>	R	
Last_Notify_Record	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Notification_Class	<input checked="" type="checkbox"/>	W	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	
Logging_Type	<input checked="" type="checkbox"/>	W	
Align_Intervals	<input checked="" type="checkbox"/>	W	
Interval_Offset	<input checked="" type="checkbox"/>	W	
Trigger	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	

Structured View

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	W	
Node_Type	<input checked="" type="checkbox"/>	R	
Node_Subtype	<input checked="" type="checkbox"/>	W	
Subordinate_List	<input checked="" type="checkbox"/>	W	
Subordinate_Annotations	<input checked="" type="checkbox"/>	W	
Profile_Name	<input checked="" type="checkbox"/>	R	

Positive Integer Value

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	W	
Present_Value	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	R	
Units	<input checked="" type="checkbox"/>	W	
Priority_Array	<input type="checkbox"/>		
Relinquish_Default	<input type="checkbox"/>		
COV_Increment	<input checked="" type="checkbox"/>	W	
Time_Delay	<input type="checkbox"/>		
Notification_Class	<input type="checkbox"/>		
High_Limit	<input type="checkbox"/>		
Low_Limit	<input type="checkbox"/>		
Deadband	<input type="checkbox"/>		
Limit_Enable	<input type="checkbox"/>		
Event_Enable	<input type="checkbox"/>		
Acked_Transitions	<input type="checkbox"/>		
Notify_Type	<input type="checkbox"/>		
Event_Time_Stamps	<input type="checkbox"/>		
Event_Message_Texts	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

2.6 Segmentation capability

<input checked="" type="checkbox"/>	Able to transmit segmented messages	Window size	configurable
<input checked="" type="checkbox"/>	Able to receive segmented messages	Window size	configurable

2.7 Data Link Layer options

The simultaneously supported Data Link Layers of a product are listed with the product model number.

<input checked="" type="checkbox"/>	BACnet IP, (Annex J)	
<input checked="" type="checkbox"/>	BACnet IP, (Annex J), Foreign Device	
<input type="checkbox"/>	ISO 8802-3, Ethernet (Clause 7)	
<input type="checkbox"/>	ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)	
<input type="checkbox"/>	ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s)	
<input type="checkbox"/>	MS/TP master (Clause 9), baud rate(s)	
<input type="checkbox"/>	MS/TP slave (Clause 9), baud rate(s)	
<input type="checkbox"/>	Point-To-Point, EIA 232 (Clause 10), baud rate(s)	: 38400
<input type="checkbox"/>	Point-To-Point, modem, (Clause 10), baud rate(s)	: 38400
<input type="checkbox"/>	LonTalk, (Clause 11), medium	: TP/FT-10
<input type="checkbox"/>	Other	

2.8 Device address binding

Is static device binding supported?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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2.9 Networking options

<input type="checkbox"/>	Router, Clause 6 (remote management functionality/BACnet PTP)	
<input type="checkbox"/>	Annex H, BACnet Tunnelling Router over IP	
<input type="checkbox"/>	BACnet/IP Broadcast Management Device (BBMD)	
	Does the BBMD support registrations by foreign devices?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.10 Character sets supported

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

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

3 SX Open

Date	: 22 February 2012
Vendor name	: Siemens Building Technologies (Vendor ID 7)
Product name	: Desigo SX-Open
Product model number	: V2.1
BACnet protocol version	: 1.5
Application software version	: –
Firmware revision	: 2.01.xx

3.1 Product description

SX Open is a generic framework to develop gateways from several field buses to BACnet in an efficient way. SX Open provides server-functionality but act as BACnet client as well for real peer-to-peer communication.

3.2 BACnet standardized device profile (Annex L)

<input type="checkbox"/>	BACnet Operator Workstation	(B-OWS)
<input type="checkbox"/>	BACnet Building Controller	(B-BC)
<input type="checkbox"/>	BACnet Advanced Application Controller	(B-AAC)
<input checked="" type="checkbox"/>	BACnet Application Specific Controller	(B-ASC)
<input type="checkbox"/>	BACnet Smart Sensor	(B-SS)
<input type="checkbox"/>	BACnet Smart Actuator	(B-SA)

3.3 BACnet interoperability building blocks supported (Annex K)

Data sharing

<input checked="" type="checkbox"/>	Data Sharing – ReadProperty-A	DS-RP-A
<input checked="" type="checkbox"/>	Data Sharing – ReadProperty-B	DS-RP-B
<input type="checkbox"/>	Data Sharing – ReadPropertyMultiple-A	DS-RPM-A
<input checked="" type="checkbox"/>	Data Sharing – ReadPropertyMultiple-B	DS-RPM-B
<input checked="" type="checkbox"/>	Data Sharing – WriteProperty-A	DS-WP-A
<input checked="" type="checkbox"/>	Data Sharing – WriteProperty-B	DS-WP-B
<input type="checkbox"/>	Data Sharing – WritePropertyMultiple-A	DS-WPM-A
<input type="checkbox"/>	Data Sharing – WritePropertyMultiple-B	DS-WPM-B
<input checked="" type="checkbox"/>	Data Sharing – ChangeofValue -A	DS-COV-A
<input checked="" type="checkbox"/>	Data Sharing – ChangeofValue -B	DS-COV-B
<input type="checkbox"/>	Data Sharing – ChangeofValueProperty -A	DS-COVP-A
<input type="checkbox"/>	Data Sharing – ChangeofValueProperty -B	DS-COVP-B
<input type="checkbox"/>	Data Sharing – ChangeofValue-Unsolicited-A	DS-COVU-A
<input type="checkbox"/>	Data Sharing – ChangeofValue-Unsolicited-B	DS-COVU-B
<input type="checkbox"/>	Data Sharing – View-A	DS-V-A
<input type="checkbox"/>	Data Sharing – Advanced View-A	DS-AV-A
<input type="checkbox"/>	Data Sharing – Modify-A	DS-M-A
<input type="checkbox"/>	Data Sharing – Advanced Modify-A	DS-AM-A

Alarm and event management

<input type="checkbox"/>	Alarm and Event – Notification-A	AE-N-A
<input checked="" type="checkbox"/>	Alarm and Event – Notification Internal-B	AE-N-I-B
<input type="checkbox"/>	Alarm and Event – Notification External-B	AE-N-E-B
<input type="checkbox"/>	Alarm and Event – ACK-A	AE-ACK-A
<input checked="" type="checkbox"/>	Alarm and Event – ACK-B	AE-ACK-B
<input type="checkbox"/>	Alarm and Event – Alarm Summary-A	AE-ASUM-A
<input checked="" type="checkbox"/>	Alarm and Event – Alarm Summary-B	AE-ASUM-B
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-A	AE-ESUM-A
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-B	AE-ESUM-B
<input type="checkbox"/>	Alarm and Event – Information-A	AE-INFO-A
<input checked="" type="checkbox"/>	Alarm and Event – Information-B	AE-INFO-B
<input type="checkbox"/>	Alarm and Event – LifeSafety-A	AE-LS-A
<input type="checkbox"/>	Alarm and Event – LifeSafety-B	AE-LS-B
<input type="checkbox"/>	Alarm and Event – View Notifications-A	AE-VN-A
<input type="checkbox"/>	Alarm and Event – Advanced View Notifications-A	AE-AVN-A
<input type="checkbox"/>	Alarm and Event – View and Modify-A	AE-VM-A
<input type="checkbox"/>	Alarm and Event – Advanced View and Modify-A	AE-AVM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary View-A	AE-AS-A
<input type="checkbox"/>	Alarm and Event – Event Log View-A	AE-ELV-A
<input type="checkbox"/>	Alarm and Event – Event Log View and Modify-A	AE-ELVM-A
<input type="checkbox"/>	Alarm and Event – Event Log-Internal-B	AE-EL-I-B
<input type="checkbox"/>	Alarm and Event – Event Log-External-B	AE-EL-E-B

Scheduling

<input type="checkbox"/>	Scheduling – A	SCHEd-A
<input checked="" type="checkbox"/>	Scheduling – Internal-B	SCHEd-I-B
<input type="checkbox"/>	Scheduling – External-B	SCHEd-E-B
<input type="checkbox"/>	Scheduling – Advanced View Modify-A	SCH-AVM-A
<input type="checkbox"/>	Scheduling – View Modify-A	SCH-VM-A
<input type="checkbox"/>	Scheduling – Weekly Schedule-A	SCH-WS-A
<input type="checkbox"/>	Scheduling – Weekly Schedule Internal-B	SCH-WS-I-B
<input type="checkbox"/>	Scheduling – Readable-B	SCH-R-B

Trending

<input type="checkbox"/>	Trending – Viewing and Modifying Trends-A	T-VMT-A
<input checked="" type="checkbox"/>	Trending – Viewing and Modifying Internal-B	T-VM-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying External-B	T-VM-E-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values-A	T-VMMV-A
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values External -B	T-VMMV-E-B
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-A	T-AMVR-A
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-B	T-AMVR-B
<input type="checkbox"/>	Trending – View-A	T-V-A
<input type="checkbox"/>	Trending – Advanced View and Modify-A	T-AVM-A
<input type="checkbox"/>	Trending – Archival-A	T-A-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-A	T-ATR-A
<input checked="" type="checkbox"/>	Trending – Automated Trend Retrieval-B	T-ATR-B

Device management

<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-A	DM-DDB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-B	DM-DDB-B
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-A	DM-DOB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-B	DM-DOB-B
<input type="checkbox"/>	Device Management – DeviceCommunicationControl-A	DM-DCC-A
<input checked="" type="checkbox"/>	Device Management – DeviceCommunicationControl-B	DM-DCC-B
<input type="checkbox"/>	Device Management – Private Transfer-A	DM-PT-A
<input type="checkbox"/>	Device Management – Private Transfer-B	DM-PT-B
<input type="checkbox"/>	Device Management – Text Message-A	DM-TM-A
<input type="checkbox"/>	Device Management – Text Message-B	DM-TM-B
<input type="checkbox"/>	Device Management – TimeSynchronization-A	DM-TS-A
<input checked="" type="checkbox"/>	Device Management – TimeSynchronization-B	DM-TS-B
<input type="checkbox"/>	Device Management – UTCTimeSynchronization-A	DM-UTC-A
<input checked="" type="checkbox"/>	Device Management – UTCTimeSynchronization-B	DM-UTC-B
<input type="checkbox"/>	Device Management – ReinitializeDevice-A	DM-RD-A
<input checked="" type="checkbox"/>	Device Management – ReinitializeDevice-B	DM-RD-B
<input type="checkbox"/>	Device Management – Backup and Restore-A	DM-BR-A
<input type="checkbox"/>	Device Management – Backup and Restore-B	DM-BR-B

Device management

<input type="checkbox"/>	Device Management – Restart-A	DM-R-A
<input type="checkbox"/>	Device Management – Restart-B	DM-R-B
<input type="checkbox"/>	Device Management – List Manipulation-A	DM-LM-A
<input checked="" type="checkbox"/>	Device Management – List Manipulation-B	DM-LM-B
<input type="checkbox"/>	Device Management – Object Creation and Deletion-A	DM-OCD-A
<input type="checkbox"/>	Device Management – Object Creation and Deletion-B	DM-OCD-B
<input type="checkbox"/>	Device Management – Virtual Terminal-A	DM-VT-A
<input type="checkbox"/>	Device Management – Virtual Terminal-B	DM-VT-B
<input type="checkbox"/>	Device Management – Automatic Network Mapping-A	DM-ANM-A
<input type="checkbox"/>	Device Management – Automatic Device Mapping-A	DM-ADM-A
<input type="checkbox"/>	Device Management – Automatic Time Synchronization-A	DM-ATS-A
<input type="checkbox"/>	Device Management – Manual Time Synchronization-A	DM-MTS-A

Network management

<input type="checkbox"/>	Network Management – Connection Establishment-A	NM-CE-A ¹⁾
<input type="checkbox"/>	Network Management – Connection Establishment-B	NM-CE-B ²⁾
<input type="checkbox"/>	Network Management – Router Configuration-A	NM-RC-A
<input checked="" type="checkbox"/>	Network Management – Router Configuration-B	NM-RC-B

3.4 Standard object types supported

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Analog Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calendar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Command	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Enrollment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
File	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification Class	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schedule	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Averaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accumulator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulse-Converter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log Multiple	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structured-View	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Door	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(unassigned)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Credential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Rights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Credential Data Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network Security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bitstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Characterstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Date Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Octetstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positive Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Analog Input

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Update_Interval	<input type="checkbox"/>		
Units	<input checked="" type="checkbox"/>	R	
Min_Pres_Value	<input checked="" type="checkbox"/>	R	
Max_Pres_Value	<input checked="" type="checkbox"/>	R	
Resolution	<input checked="" type="checkbox"/>	R	
COV_Increment	<input checked="" type="checkbox"/>	W	0 ... Max_Pres_Value
Time_Delay	<input checked="" type="checkbox"/>	W	
Notification_Class	<input checked="" type="checkbox"/>	W	
High_Limit	<input checked="" type="checkbox"/>	W	Min_Pres_Value ... Max_Pres_Value and High_Limit > Low_Limit
Low_Limit	<input checked="" type="checkbox"/>	W	Min_Pres_Value ... Max_Pres_Value and High_Limit > Low_Limit
Deadband	<input checked="" type="checkbox"/>	W	0 ... Max_Pres_Value
Limit_Enable	<input checked="" type="checkbox"/>	W	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	W	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Analog Output

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Units	<input checked="" type="checkbox"/>	R	
Min_Pres_Value	<input checked="" type="checkbox"/>	R	
Max_Pres_Value	<input checked="" type="checkbox"/>	R	
Resolution	<input checked="" type="checkbox"/>	R	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	Min_Pres_Value ... Max_Pres_Value
COV_Increment	<input checked="" type="checkbox"/>	R	0 ... Max_Pres_Value
Time_Delay	<input checked="" type="checkbox"/>	W	
Notification_Class	<input checked="" type="checkbox"/>	W	
High_Limit	<input checked="" type="checkbox"/>	W	Min_Pres_Value ... Max_Pres_Value and High_Limit > Low_Limit
Low_Limit	<input checked="" type="checkbox"/>	W	Min_Pres_Value ... Max_Pres_Value and High_Limit > Low_Limit
Deadband	<input checked="" type="checkbox"/>	W	0 ... Max_Pres_Value
Limit_Enable	<input checked="" type="checkbox"/>	W	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	W	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Analog Value

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Units	<input checked="" type="checkbox"/>	R	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	Min_Pres_Value ... Max_Pres_Value
COV_Increment	<input checked="" type="checkbox"/>	W	0 .. Max_Pres_Value
Time_Delay	<input checked="" type="checkbox"/>	W	
Notification_Class	<input checked="" type="checkbox"/>	W	
High_Limit	<input checked="" type="checkbox"/>	W	Min_Pres_Value ... Max_Pres_Value and High_Limit > Low_Limit
Low_Limit	<input checked="" type="checkbox"/>	W	Min_Pres_Value ... Max_Pres_Value and High_Limit > Low_Limit
Deadband	<input checked="" type="checkbox"/>	W	0 ... Max_Pres_Value
Limit_Enable	<input checked="" type="checkbox"/>	W	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	W	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Analog Value
(object tag = 300)

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	R	
Units	<input checked="" type="checkbox"/>	R	
COV_Increment	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Binary Input

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Polarity	<input checked="" type="checkbox"/>	W	
Inactive_Text	<input checked="" type="checkbox"/>	R	
Active_Text	<input checked="" type="checkbox"/>	R	
Change_Of_State_Time	<input checked="" type="checkbox"/>	R	
Change_Of_State_Count	<input checked="" type="checkbox"/>	W	
Time_Of_State_Count_Reset	<input checked="" type="checkbox"/>	R	
Elapsed_Active_Time	<input checked="" type="checkbox"/>	R	
Time_Of_Active_Time_Reset	<input checked="" type="checkbox"/>	R	
Time_Delay	<input checked="" type="checkbox"/>	W	0 .. 65535
Notification_Class	<input checked="" type="checkbox"/>	W	
Alarm_Value	<input checked="" type="checkbox"/>	W	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	W	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Binary Output

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Polarity	<input checked="" type="checkbox"/>	W	
Inactive_Text	<input checked="" type="checkbox"/>	R	
Active_Text	<input checked="" type="checkbox"/>	R	
Change_Of_State_Time	<input checked="" type="checkbox"/>	R	
Change_Of_State_Count	<input checked="" type="checkbox"/>	W	
Time_Of_State_Count_Reset	<input checked="" type="checkbox"/>	R	
Elapsed_Active_Time	<input checked="" type="checkbox"/>	W	
Time_Of_Active_Time_Reset	<input checked="" type="checkbox"/>	R	
Minimum_Off_Time	<input checked="" type="checkbox"/>	W	0 .. 65535
Minimum_On_Time	<input checked="" type="checkbox"/>	W	0 .. 65535
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	
Time_Delay	<input checked="" type="checkbox"/>	W	0 .. 65535
Notification_Class	<input checked="" type="checkbox"/>	W	
Feedback_Value	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	W	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Binary Value

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Inactive_Text	<input checked="" type="checkbox"/>	R	
Active_Text	<input checked="" type="checkbox"/>	R	
Change_Of_State_Time	<input checked="" type="checkbox"/>	R	
Change_Of_State_Count	<input checked="" type="checkbox"/>	W	
Time_Of_State_Count_Reset	<input checked="" type="checkbox"/>	R	
Elapsed_Active_Time	<input checked="" type="checkbox"/>	W	
Time_Of_Active_Time_Reset	<input checked="" type="checkbox"/>	R	
Minimum_Off_Time	<input checked="" type="checkbox"/>	W	0 .. 65535
Minimum_On_Time	<input checked="" type="checkbox"/>	W	0 .. 65535
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	
Time_Delay	<input checked="" type="checkbox"/>	W	0 .. 65535
Notification_Class	<input checked="" type="checkbox"/>	W	
Alarm_Value	<input checked="" type="checkbox"/>	W	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

**Binary Value
(object tag = 301)**

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Calendar

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
Date_List	<input checked="" type="checkbox"/>	W	Max. 20
Profile_Name	<input checked="" type="checkbox"/>	R	

Device

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
System_Status	<input checked="" type="checkbox"/>	R	
Vendor_Name	<input checked="" type="checkbox"/>	R	
Vendor_Identifier	<input checked="" type="checkbox"/>	R	
Model_Name	<input checked="" type="checkbox"/>	R	
Firmware_Revision	<input checked="" type="checkbox"/>	R	
Application_Software_Version	<input checked="" type="checkbox"/>	R	
Location	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Protocol_Version	<input checked="" type="checkbox"/>	R	
Protocol_Revision	<input checked="" type="checkbox"/>	R	
Protocol_Services_Supported	<input checked="" type="checkbox"/>	R	
Protocol_Object_Types_Supported	<input checked="" type="checkbox"/>	R	
Object_List	<input checked="" type="checkbox"/>	R	
Structured_Object_List	<input type="checkbox"/>		
Max_APDU_Length_Accepted	<input checked="" type="checkbox"/>	R	
Segmentation_Supported	<input checked="" type="checkbox"/>	R	
Max_Segments_Accepted	<input checked="" type="checkbox"/>	R	
VT_Classes_Supported	<input type="checkbox"/>		
Active_VT_Sessions	<input type="checkbox"/>		
Local_Time	<input checked="" type="checkbox"/>	R	
Local_Date	<input checked="" type="checkbox"/>	R	
UTC_Offset	<input checked="" type="checkbox"/>	R	
Daylight_Savings_Status	<input checked="" type="checkbox"/>	R	
APDU_Segment_Timeout	<input checked="" type="checkbox"/>	R	
APDU_Timeout	<input checked="" type="checkbox"/>	R	
Number_Of_APDU_Retries	<input checked="" type="checkbox"/>	R	
List_Of_Session_Keys	<input type="checkbox"/>		
Time_Synchronization_Recipients	<input type="checkbox"/>		
Max_Master	<input type="checkbox"/>		
Max_Info_Frames	<input type="checkbox"/>		
Device_Address_Binding	<input checked="" type="checkbox"/>	R	
Database_Revision	<input checked="" type="checkbox"/>	R	
Configuration_Files	<input type="checkbox"/>		
Last_Restore_Time	<input type="checkbox"/>		
Backup_Failure_Timeout	<input type="checkbox"/>		
Active_COV_Subscriptions	<input checked="" type="checkbox"/>	R	
Slave_Proxy_Enable	<input type="checkbox"/>		
Manual_Slave_Adress_Binding	<input type="checkbox"/>		
Auto_Slave_Discovery	<input type="checkbox"/>		
Slave_Address_Binding	<input type="checkbox"/>		

Device

Properties	supported	Readable/ Writable	Range restrictions
Last_Restart_Reason	<input type="checkbox"/>		
Time_Of_Device_Restart	<input type="checkbox"/>		
Restart_Notification_Recipients	<input type="checkbox"/>		
UTC_Time_Synchronization_Recipients	<input type="checkbox"/>		
Time_Synchronization_Interval	<input type="checkbox"/>		
Align_Intervals	<input type="checkbox"/>		
Interval_Offset	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

Multistate Input

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	1 ... Number_Of_States
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Number_Of_States	<input checked="" type="checkbox"/>	R	
State_Text	<input checked="" type="checkbox"/>	R	
Time_Delay	<input checked="" type="checkbox"/>	W	0 .. 65535
Notification_Class	<input checked="" type="checkbox"/>	W	
Alarm_Values	<input checked="" type="checkbox"/>	W	
Fault_Values	<input checked="" type="checkbox"/>	W	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	W	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Multistate Output

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	1 .. Number_Of_States
Description	<input checked="" type="checkbox"/>	R	
Device_Type	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Number_Of_States	<input checked="" type="checkbox"/>	R	
State_Text	<input checked="" type="checkbox"/>	R	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	1 .. Number_Of_States
Time_Delay	<input checked="" type="checkbox"/>	W	0 .. 65535
Notification_Class	<input checked="" type="checkbox"/>	W	
Feedback_Value	<input checked="" type="checkbox"/>	R	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	W	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Multistate Value

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	1 .. Number_Of_States
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Number_Of_States	<input checked="" type="checkbox"/>	R	
State_Text	<input checked="" type="checkbox"/>	R	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	1 .. Number_Of_States
Time_Delay	<input checked="" type="checkbox"/>	W	0 .. 65535
Notification_Class	<input checked="" type="checkbox"/>	W	
Alarm_Values	<input checked="" type="checkbox"/>	W	
Fault_Values	<input checked="" type="checkbox"/>	W	
Event_Enable	<input checked="" type="checkbox"/>	W	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	W	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

**Multistate Value
(object tag = 302)**

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	1...Number_Of_States
Description	<input checked="" type="checkbox"/>	R	
Status_Flags	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	R	
Number_Of_States	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Notification Class

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Notification_Class	<input checked="" type="checkbox"/>	R	
Priority	<input checked="" type="checkbox"/>	W	
Ack_Required	<input checked="" type="checkbox"/>	W	
Recipient_List	<input checked="" type="checkbox"/>	W	Max. 20
Profile_Name	<input checked="" type="checkbox"/>	R	

Schedule

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Effective_Period	<input checked="" type="checkbox"/>	W	
Weekly_Schedule	<input checked="" type="checkbox"/>	W	Max. 6 per day
Exception_Schedule	<input checked="" type="checkbox"/>	W	Max. 10, max. 4 per exception
Schedule_Default	<input checked="" type="checkbox"/>	W	
List_Of_Object_Property_References	<input checked="" type="checkbox"/>	W	1 ref
Priority_For_Writing	<input checked="" type="checkbox"/>	W	
Status_Flags	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Profile_Name	<input checked="" type="checkbox"/>	R	

Trend Log

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Enable	<input checked="" type="checkbox"/>	W	
Start_Time	<input checked="" type="checkbox"/>	W	
Stop_Time	<input checked="" type="checkbox"/>	W	
Log_DeviceObjectProperty	<input checked="" type="checkbox"/>	R	
Log_Interval	<input checked="" type="checkbox"/>	W	
COV_Resubscription_Interval	<input checked="" type="checkbox"/>	W	
Client_COV_Increment	<input checked="" type="checkbox"/>	W	
Stop_When_Full	<input checked="" type="checkbox"/>	W	
Buffer_Size	<input checked="" type="checkbox"/>	R	
Log_Buffer	<input checked="" type="checkbox"/>	R	
Record_Count	<input checked="" type="checkbox"/>	W	
Total_Record_Count	<input checked="" type="checkbox"/>	R	
Notification_Threshold	<input checked="" type="checkbox"/>	W	
Records_Since_Notification	<input checked="" type="checkbox"/>	R	
Last_Notify_Record	<input checked="" type="checkbox"/>	R	
Event_State	<input checked="" type="checkbox"/>	R	
Notification_Class	<input checked="" type="checkbox"/>	W	
Event_Enable	<input checked="" type="checkbox"/>	R	
Acked_Transitions	<input checked="" type="checkbox"/>	R	
Notify_Type	<input checked="" type="checkbox"/>	R	
Event_Time_Stamps	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	
Logging_Type	<input checked="" type="checkbox"/>	R	
Align_Intervals	<input type="checkbox"/>		
Interval_Offset	<input type="checkbox"/>		
Trigger	<input type="checkbox"/>		
Status_Flags	<input checked="" type="checkbox"/>	R	
Reliability	<input checked="" type="checkbox"/>	R	

3.5 Segmentation capability

<input checked="" type="checkbox"/>	Able to transmit segmented messages	Window size	4
<input checked="" type="checkbox"/>	Able to receive segmented messages	Window size	4

3.6 Data Link Layer options

<input checked="" type="checkbox"/>	BACnet IP, (Annex J)	
<input type="checkbox"/>	BACnet IP, (Annex J), Foreign Device	
<input type="checkbox"/>	ISO 8802-3, Ethernet (Clause 7)	
<input type="checkbox"/>	ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)	
<input type="checkbox"/>	ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s)	
<input type="checkbox"/>	MS/TP master (Clause 9), baud rate(s)	
<input type="checkbox"/>	MS/TP slave (Clause 9), baud rate(s)	
<input type="checkbox"/>	Point-To-Point, EIA 232 (Clause 10), baud rate(s)	
<input type="checkbox"/>	Point-To-Point, modem, (Clause 10), baud rate(s)	
<input type="checkbox"/>	LonTalk, (Clause 11), medium	
<input type="checkbox"/>	Other	:

3.7 Device address binding

Is static device binding supported?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
-------------------------------------	------------------------------	--

3.8 Networking options

<input type="checkbox"/>	Router, Clause 6 (remote management functionality/BACnet PTP)		
<input type="checkbox"/>	Annex H, BACnet Tunnelling Router over IP		
<input checked="" type="checkbox"/>	BACnet/IP Broadcast Management Device (BBMD) Number of BDT entries: 10		
	Does the BBMD support registrations by foreign devices?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

3.9 Character sets supported

Note

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

<input checked="" type="checkbox"/> ANSI X3.4	<input type="checkbox"/> IBM / Microsoft DBCS	<input checked="" type="checkbox"/> ISO 8859-1 ¹⁾
<input checked="" type="checkbox"/> ISO 10646 (UCS-2)	<input type="checkbox"/> ISO 10646 (UCS-4)	<input type="checkbox"/> JIS C 6226

4 Desigo Insight

Date	: 22 February 2012
Vendor name	: Siemens Building Technologies (Vendor ID 7)
Product name	: Desigo Insight
Product model number	: –
BACnet protocol version	: 1.10
Application software version	: –
Firmware revision	: V5.00.0xx

4.1 Product description

Desigo Insight is the BACnet management station for the Desigo system. Desigo Insight is represented in the network as a BACnet device, which contains a device object only.

4.2 BACnet standardized device profile (Annex L)

<input type="checkbox"/>	BACnet Advanced Workstation	(B-AWS)
<input type="checkbox"/>	BACnet Operator Workstation	(B-OWS)
<input type="checkbox"/>	BACnet Operator Display	(B-OD)
<input type="checkbox"/>	BACnet Building Controller	(B-BC)
<input type="checkbox"/>	BACnet Advanced Application Controller	(B-AAC)
<input type="checkbox"/>	BACnet Application Specific Controller	(B-ASC)
<input type="checkbox"/>	BACnet Smart Sensor	(B-SS)
<input type="checkbox"/>	BACnet Smart Actuator	(B-SA)

4.3 BACnet interoperability building blocks supported (Annex K)

Data sharing

<input checked="" type="checkbox"/>	Data Sharing – ReadProperty-A	DS-RP-A
<input checked="" type="checkbox"/>	Data Sharing – ReadProperty-B	DS-RP-B
<input checked="" type="checkbox"/>	Data Sharing – ReadPropertyMultiple-A	DS-RPM-A
<input checked="" type="checkbox"/>	Data Sharing – ReadPropertyMultiple-B	DS-RPM-B
<input checked="" type="checkbox"/>	Data Sharing – WriteProperty-A	DS-WP-A
<input checked="" type="checkbox"/>	Data Sharing – WriteProperty-B	DS-WP-B
<input type="checkbox"/>	Data Sharing – WritePropertyMultiple-A	DS-WPM-A
<input type="checkbox"/>	Data Sharing – WritePropertyMultiple-B	DS-WPM-B
<input checked="" type="checkbox"/>	Data Sharing – ChangeofValue -A	DS-COV-A
<input type="checkbox"/>	Data Sharing – ChangeofValue -B	DS-COV-B
<input checked="" type="checkbox"/>	Data Sharing – ChangeofValueProperty -A	DS-COVP-A
<input type="checkbox"/>	Data Sharing – ChangeofValueProperty -B	DS-COVP-B
<input type="checkbox"/>	Data Sharing – ChangeofValue-Unsolicited-A	DS-COVU-A
<input type="checkbox"/>	Data Sharing – ChangeofValue-Unsolicited-B	DS-COVU-B
<input type="checkbox"/>	Data Sharing – View-A	DS-V-A
<input type="checkbox"/>	Data Sharing – Advanced View-A	DS-AV-A
<input type="checkbox"/>	Data Sharing – Modify-A	DS-M-A
<input type="checkbox"/>	Data Sharing – Advanced Modify-A	DS-AM-A

Alarm and event management

<input checked="" type="checkbox"/>	Alarm and Event – Notification-A	AE-N-A
<input type="checkbox"/>	Alarm and Event – Notification Internal-B	AE-N-I-B
<input type="checkbox"/>	Alarm and Event – Notification External-B	AE-N-E-B
<input checked="" type="checkbox"/>	Alarm and Event – ACK-A	AE-ACK-A
<input type="checkbox"/>	Alarm and Event – ACK-B	AE-ACK-B
<input checked="" type="checkbox"/>	Alarm and Event – Alarm Summary-A	AE-ASUM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary-B	AE-ASUM-B
<input checked="" type="checkbox"/>	Alarm and Event – Enrollment Summary-A	AE-ESUM-A
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-B	AE-ESUM-B
<input checked="" type="checkbox"/>	Alarm and Event – Information-A	AE-INFO-A
<input type="checkbox"/>	Alarm and Event – Information-B	AE-INFO-B
<input type="checkbox"/>	Alarm and Event – LifeSafety-A	AE-LS-A
<input type="checkbox"/>	Alarm and Event – LifeSafety-B	AE-LS-B
<input type="checkbox"/>	Alarm and Event – View Notifications-A	AE-VN-A
<input type="checkbox"/>	Alarm and Event – Advanced View Notifications-A	AE-AVN-A
<input type="checkbox"/>	Alarm and Event – View and Modify-A	AE-VM-A
<input type="checkbox"/>	Alarm and Event – Advanced View and Modify-A	AE-AVM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary View-A	AE-AS-A
<input type="checkbox"/>	Alarm and Event – Event Log View-A	AE-ELV-A
<input type="checkbox"/>	Alarm and Event – Event Log View and Modify-A	AE-ELVM-A
<input type="checkbox"/>	Alarm and Event – Event Log-Internal-B	AE-EL-I-B
<input type="checkbox"/>	Alarm and Event – Event Log-External-B	AE-EL-E-B

Scheduling

<input checked="" type="checkbox"/>	Scheduling – A	SCHED-A
<input type="checkbox"/>	Scheduling – Internal-B	SCHED-I-B
<input type="checkbox"/>	Scheduling – External-B	SCHED-E-B
<input type="checkbox"/>	Scheduling – Advanced View Modify-A	SCH-AVM-A
<input type="checkbox"/>	Scheduling – View Modify-A	SCH-VM-A
<input type="checkbox"/>	Scheduling – Weekly Schedule-A	SCH-WS-A
<input type="checkbox"/>	Scheduling – Weekly Schedule Internal-B	SCH-WS-I-B
<input type="checkbox"/>	Scheduling – Readable-B	SCH-R-B

The A device is capable to present and modify Schedule objects of the forms defined in Protocol_Revision 0 and Protocol_Revision 4.

Trending

<input checked="" type="checkbox"/>	Trending – Viewing and Modifying Trends-A	T-VMT-A
<input type="checkbox"/>	Trending – Viewing and Modifying Internal-B	T-VM-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying External-B	T-VM-E-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values-A	T-VMMV-A
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values External -B	T-VMMV-E-B
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-A	T-AMVR-A
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-B	T-AMVR-B
<input type="checkbox"/>	Trending – View-A	T-V-A
<input type="checkbox"/>	Trending – Advanced View and Modify-A	T-AVM-A
<input type="checkbox"/>	Trending – Archival-A	T-A-A
<input checked="" type="checkbox"/>	Trending – Automated Trend Retrieval-A	T-ATR-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-B	T-ATR-B

The A device is capable to interoperate with Trend Logs of the form defined in Protocol_Revision 1 and Protocol_Revision 3.

Device management

<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-A	DM-DDB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-B	DM-DDB-B
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-A	DM-DOB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-B	DM-DOB-B
<input checked="" type="checkbox"/>	Device Management – DeviceCommunicationControl-A	DM-DCC-A
<input type="checkbox"/>	Device Management – DeviceCommunicationControl-B	DM-DCC-B
<input type="checkbox"/>	Device Management – Private Transfer-A	DM-PT-A
<input type="checkbox"/>	Device Management – Private Transfer-B	DM-PT-B
<input type="checkbox"/>	Device Management – Text Message-A	DM-TM-A
<input type="checkbox"/>	Device Management – Text Message-B	DM-TM-B
<input checked="" type="checkbox"/>	Device Management – TimeSynchronization-A	DM-TS-A
<input type="checkbox"/>	Device Management – TimeSynchronization-B	DM-TS-B
<input checked="" type="checkbox"/>	Device Management – UTCTimeSynchronization-A	DM-UTC-A
<input type="checkbox"/>	Device Management – UTCTimeSynchronization-B	DM-UTC-B
<input checked="" type="checkbox"/>	Device Management – ReinitializeDevice-A	DM-RD-A
<input type="checkbox"/>	Device Management – ReinitializeDevice-B	DM-RD-B

Device management

<input checked="" type="checkbox"/>	Device Management – Backup and Restore-A	DM-BR-A
<input type="checkbox"/>	Device Management – Backup and Restore-B	DM-BR-B
<input checked="" type="checkbox"/>	Device Management – Restart-A	DM-R-A
<input type="checkbox"/>	Device Management – Restart-B	DM-R-B
<input checked="" type="checkbox"/>	Device Management – List Manipulation-A	DM-LM-A
<input type="checkbox"/>	Device Management – List Manipulation-B	DM-LM-B
<input type="checkbox"/>	Device Management – Object Creation and Deletion-A	DM-OCD-A
<input type="checkbox"/>	Device Management – Object Creation and Deletion-B	DM-OCD-B
<input type="checkbox"/>	Device Management – Virtual Terminal-A	DM-VT-A
<input type="checkbox"/>	Device Management – Virtual Terminal-B	DM-VT-B
<input type="checkbox"/>	Device Management – Automatic Network Mapping-A	DM-ANM-A
<input type="checkbox"/>	Device Management – Automatic Device Mapping-A	DM-ADM-A
<input type="checkbox"/>	Device Management – Automatic Time Synchronization-A	DM-ATS-A
<input type="checkbox"/>	Device Management – Manual Time Synchronization-A	DM-MTS-A

Network management

<input type="checkbox"/>	Network Management – Connection Establishment-A	NM-CE-A ¹⁾
<input type="checkbox"/>	Network Management – Connection Establishment-B	NM-CE-B ²⁾
<input type="checkbox"/>	Network Management – Router Configuration-A	NM-RC-A
<input type="checkbox"/>	Network Management – Router Configuration-B	NM-RC-B

4.4 Standard object types supported

Only the device object is supported.

Device	Properties	supported
	Object_Identifier	<input checked="" type="checkbox"/>
	Object_Name	<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"/>
	Application_Software_Version	<input checked="" type="checkbox"/>
	Location	<input checked="" type="checkbox"/>
	Description	<input checked="" type="checkbox"/>
	Protocol_Version	<input checked="" type="checkbox"/>
	Protocol_Revision	<input checked="" type="checkbox"/>
	Protocol_Services_Supported	<input checked="" type="checkbox"/>
	Protocol_Object_Types_Supported	<input checked="" type="checkbox"/>
	Object_List	<input checked="" type="checkbox"/>
	Structured_Object_List	<input type="checkbox"/>
	Max_APDU_Length_Accepted	<input checked="" type="checkbox"/>
	Segmentation_Supported	<input checked="" type="checkbox"/>
	Max_Segments_Accepted	<input checked="" type="checkbox"/>
	VT_Classes_Supported	<input type="checkbox"/>
	Active_VT_Sessions	<input 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"/>
	Number_Of_APDU_Retries	<input checked="" type="checkbox"/>
	List_Of_Session_Keys	<input type="checkbox"/>
	Time_Synchronization_Recipients	<input type="checkbox"/>
	Max_Master	<input type="checkbox"/>
	Max_Info_Frames	<input type="checkbox"/>
	Device_Address_Binding	<input checked="" type="checkbox"/>
	Database_Revision	<input checked="" type="checkbox"/>
	Configuration_Files	<input type="checkbox"/>
	Last_Restore_Time	<input type="checkbox"/>
	Backup_Failure_Timeout	<input type="checkbox"/>
	Active_COV_Subscriptions	<input type="checkbox"/>
	Slave_Proxy_Enable	<input type="checkbox"/>
	Manual_Slave_Address_Binding	<input type="checkbox"/>

Properties	supported
Auto_Slave_Discovery	<input type="checkbox"/>
Slave_Address_Binding	<input type="checkbox"/>
Last_Restart_Reason	<input type="checkbox"/>
Time_Of_Device_Restart	<input type="checkbox"/>
Restart_Notification_Recipients	<input type="checkbox"/>
UTC_Time_Synchronization_Recipients	<input type="checkbox"/>
Time_Synchronization_Interval	<input type="checkbox"/>
Align_Intervals	<input type="checkbox"/>
Interval_Offset	<input type="checkbox"/>
Profile_Name	<input checked="" type="checkbox"/>

4.5 Client supported object types

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Analog Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calendar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Command	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Enrollment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
File	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loop	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification Class	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schedule	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Averaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Point	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Zone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accumulator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulse-Converter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log Multiple	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structured-View	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Door	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(unassigned)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Credential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Rights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Credential Data Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network Security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bitstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Characterstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Date Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Octetstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positive Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.6 Segmentation capability

<input checked="" type="checkbox"/>	Able to transmit segmented messages	Window size	4
<input checked="" type="checkbox"/>	Able to receive segmented messages	Window size	4

4.7 Data Link Layer options

<input checked="" type="checkbox"/>	BACnet IP, (Annex J)		
<input checked="" type="checkbox"/>	BACnet IP, (Annex J), Foreign Device		
<input type="checkbox"/>	ISO 8802-3, Ethernet (Clause 7)		
<input type="checkbox"/>	ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)		
<input type="checkbox"/>	ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s)		
<input type="checkbox"/>	MS/TP master (Clause 9), baud rate(s)		
<input type="checkbox"/>	MS/TP slave (Clause 9), baud rate(s)		
<input checked="" type="checkbox"/>	Point-To-Point, EIA 232 (Clause 10), baud rate(s)	:	Max. 38400
<input checked="" type="checkbox"/>	Point-To-Point, modem, (Clause 10), baud rate(s)	:	Max. 38400
<input checked="" type="checkbox"/>	LonTalk, (Clause 11), medium:	:	TP/FT-10
<input type="checkbox"/>	Other		

4.8 Device address binding

Is static device binding supported?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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4.9 Networking options

<input type="checkbox"/>	Router, Clause 6		
<input type="checkbox"/>	Annex H, BACnet Tunnelling Router over IP		
<input type="checkbox"/>	BACnet/IP Broadcast Management Device (BBMD)		
	Does the BBMD support registrations by Foreign Devices?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

4.10 Character sets supported

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

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

Note

- Outgoing character strings are communicated in the selected character set.
- Incoming character strings with character sets other than ISO 8859-1 will be mapped to ISO8859-1 internally. If the mapping is not possible, the character string is not accepted.

5 Desigo PXM20 operator unit

Date	: 22 February 2012
Vendor name	: Siemens Building Technologies (Vendor ID 7)
Product name	: Desigo PX automation station
Product model number	: PXM20, PXM20-E
BACnet protocol version	: 1.10
Application software version	–
Firmware revision	: V5.00.xxx

5.1 Product description

The Desigo PXM20 operator unit ensures the convenient display and operation of Desigo PXC automation stations via BACnet network communication. The graphics based display with clear text and direct access via the keyboard ensures a most user-friendly operation.

All values visible in the system can be displayed in accordance with the defined operator profile. Typical displays: display of current values, set point and parameter settings, maintenance and error messages, alarm lists and single alarm messages with acknowledgement option and/or reset, definition of time schedulers (7-day schedules and exception programs), plant switching, login and password inputs. An integrated common alarm message system with acoustic and visual indication is provided.

5.2 BACnet standardized device profile (Annex L)

<input type="checkbox"/>	BACnet Advanced Workstation	(B-AWS)
<input type="checkbox"/>	BACnet Operator Workstation	(B-OWS)
<input type="checkbox"/>	BACnet Operator Display	(B-OD)
<input type="checkbox"/>	BACnet Building Controller	(B-BC)
<input type="checkbox"/>	BACnet Advanced Application Controller	(B-AAC)
<input type="checkbox"/>	BACnet Application Specific Controller	(B-ASC)
<input type="checkbox"/>	BACnet Smart Sensor	(B-SS)
<input type="checkbox"/>	BACnet Smart Actuator	(B-SA)

5.3 BACnet interoperability building blocks supported (Annex K)

Data sharing

<input checked="" type="checkbox"/>	Data Sharing – ReadProperty-A	DS-RP-A
<input checked="" type="checkbox"/>	Data Sharing – ReadProperty-B	DS-RP-B
<input checked="" type="checkbox"/>	Data Sharing – ReadPropertyMultiple-A	DS-RPM-A
<input checked="" type="checkbox"/>	Data Sharing – ReadPropertyMultiple-B	DS-RPM-B
<input checked="" type="checkbox"/>	Data Sharing – WriteProperty-A	DS-WP-A
<input checked="" type="checkbox"/>	Data Sharing – WriteProperty-B	DS-WP-B
<input type="checkbox"/>	Data Sharing – WritePropertyMultiple-A	DS-WPM-A
<input type="checkbox"/>	Data Sharing – WritePropertyMultiple-B	DS-WPM-B
<input checked="" type="checkbox"/>	Data Sharing – ChangeofValue -A	DS-COV-A
<input type="checkbox"/>	Data Sharing – ChangeofValue -B	DS-COV-B
<input checked="" type="checkbox"/>	Data Sharing – ChangeofValueProperty -A	DS-COVP-A
<input type="checkbox"/>	Data Sharing – ChangeofValueProperty -B	DS-COVP-B
<input type="checkbox"/>	Data Sharing – ChangeofValue-Unsolicited-A	DS-COVU-A
<input type="checkbox"/>	Data Sharing – ChangeofValue-Unsolicited-B	DS-COVU-B
<input type="checkbox"/>	Data Sharing – View-A	DS-V-A
<input type="checkbox"/>	Data Sharing – Advanced View-A	DS-AV-A
<input type="checkbox"/>	Data Sharing – Modify-A	DS-M-A
<input type="checkbox"/>	Data Sharing – Advanced Modify-A	DS-AM-A

Alarm and event management

<input checked="" type="checkbox"/>	Alarm and Event – Notification-A	AE-N-A
<input type="checkbox"/>	Alarm and Event – Notification Internal-B	AE-N-I-B
<input type="checkbox"/>	Alarm and Event – Notification External-B	AE-N-E-B
<input checked="" type="checkbox"/>	Alarm and Event – ACK-A	AE-ACK-A
<input type="checkbox"/>	Alarm and Event – ACK-B	AE-ACK-B
<input type="checkbox"/>	Alarm and Event – Alarm Summary-A	AE-ASUM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary-B	AE-ASUM-B
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-A	AE-ESUM-A
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-B	AE-ESUM-B
<input checked="" type="checkbox"/>	Alarm and Event – Information-A	AE-INFO-A
<input type="checkbox"/>	Alarm and Event – Information-B	AE-INFO-B
<input type="checkbox"/>	Alarm and Event – LifeSafety-A	AE-LS-A
<input type="checkbox"/>	Alarm and Event – LifeSafety-B	AE-LS-B
<input type="checkbox"/>	Alarm and Event – View Notifications-A	AE-VN-A
<input type="checkbox"/>	Alarm and Event – Advanced View Notifications-A	AE-AVN-A
<input type="checkbox"/>	Alarm and Event – View and Modify-A	AE-VM-A
<input type="checkbox"/>	Alarm and Event – Advanced View and Modify-A	AE-AVM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary View-A	AE-AS-A
<input type="checkbox"/>	Alarm and Event – Event Log View-A	AE-ELV-A
<input type="checkbox"/>	Alarm and Event – Event Log View and Modify-A	AE-ELVM-A
<input type="checkbox"/>	Alarm and Event – Event Log-Internal-B	AE-EL-I-B
<input type="checkbox"/>	Alarm and Event – Event Log-External-B	AE-EL-E-B

Scheduling

<input checked="" type="checkbox"/>	Scheduling – A	SCHED-A
<input type="checkbox"/>	Scheduling – Internal-B	SCHED-I-B
<input type="checkbox"/>	Scheduling – External-B	SCHED-E-B
<input type="checkbox"/>	Scheduling – Advanced View Modify-A	SCH-AVM-A
<input type="checkbox"/>	Scheduling – View Modify-A	SCH-VM-A
<input type="checkbox"/>	Scheduling – Weekly Schedule-A	SCH-WS-A
<input type="checkbox"/>	Scheduling – Weekly Schedule Internal-B	SCH-WS-I-B
<input type="checkbox"/>	Scheduling – Readable-B	SCH-R-B

The A device is capable to present and modify Schedule objects of the forms defined in Protocol_Revision 0 and Protocol_Revision 4.

Trending

<input type="checkbox"/>	Trending – Viewing and Modifying Trends-A	T-VMT-A
<input type="checkbox"/>	Trending – Viewing and Modifying Internal-B	T-VM-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying External-B	T-VM-E-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values-A	T-VMMV-A
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values External -B	T-VMMV-E-B
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-A	T-AMVR-A
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-B	T-AMVR-B
<input type="checkbox"/>	Trending – View-A	T-V-A
<input type="checkbox"/>	Trending – Advanced View and Modify-A	T-AVM-A
<input type="checkbox"/>	Trending – Archival-A	T-A-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-A	T-ATR-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-B	T-ATR-B

Device management

<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-A	DM-DDB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-B	DM-DDB-B
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-A	DM-DOB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-B	DM-DOB-B
<input type="checkbox"/>	Device Management – DeviceCommunicationControl-A	DM-DCC-A
<input type="checkbox"/>	Device Management – DeviceCommunicationControl-B	DM-DCC-B
<input type="checkbox"/>	Device Management – Private Transfer-A	DM-PT-A
<input type="checkbox"/>	Device Management – Private Transfer-B	DM-PT-B
<input type="checkbox"/>	Device Management – Text Message-A	DM-TM-A
<input type="checkbox"/>	Device Management – Text Message-B	DM-TM-B
<input type="checkbox"/>	Device Management – TimeSynchronization-A	DM-TS-A
<input type="checkbox"/>	Device Management – TimeSynchronization-B	DM-TS-B
<input checked="" type="checkbox"/>	Device Management – UTCTimeSynchronization-A	DM-UTC-A
<input type="checkbox"/>	Device Management – UTCTimeSynchronization-B	DM-UTC-B
<input type="checkbox"/>	Device Management – ReinitializeDevice-A	DM-RD-A
<input type="checkbox"/>	Device Management – ReinitializeDevice-B	DM-RD-B
<input type="checkbox"/>	Device Management – Backup and Restore-A	DM-BR-A
<input type="checkbox"/>	Device Management – Backup and Restore-B	DM-BR-B
<input type="checkbox"/>	Device Management – Restart-A	DM-R-A
<input type="checkbox"/>	Device Management – Restart-B	DM-R-B
<input type="checkbox"/>	Device Management – List Manipulation-A	DM-LM-A
<input type="checkbox"/>	Device Management – List Manipulation-B	DM-LM-B
<input type="checkbox"/>	Device Management – Object Creation and Deletion-A	DM-OCD-A
<input type="checkbox"/>	Device Management – Object Creation and Deletion-B	DM-OCD-B
<input type="checkbox"/>	Device Management – Virtual Terminal-A	DM-VT-A
<input type="checkbox"/>	Device Management – Virtual Terminal-B	DM-VT-B
<input type="checkbox"/>	Device Management – Automatic Network Mapping-A	DM-ANM-A
<input type="checkbox"/>	Device Management – Automatic Device Mapping-A	DM-ADM-A
<input type="checkbox"/>	Device Management – Automatic Time Synchronization-A	DM-ATS-A
<input type="checkbox"/>	Device Management – Manual Time Synchronization-A	DM-MTS-A

Network management

<input type="checkbox"/>	Network Management – Connection Establishment-A	NM-CE-A
<input type="checkbox"/>	Network Management – Connection Establishment-B	NM-CE-B
<input type="checkbox"/>	Network Management – Router Configuration-A	NM-RC-A
<input type="checkbox"/>	Network Management – Router Configuration-B	NM-RC-B

5.4 Standard object types supported

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Analog Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calendar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Command	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Enrollment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
File	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification Class	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schedule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Averaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accumulator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulse-Converter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log Multiple	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structured-View	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Door	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(unassigned)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Credential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Rights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Credential Data Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network Security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bitstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Characterstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Date Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Octetstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positive Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Device

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
System_Status	<input checked="" type="checkbox"/>	R	
Vendor_Name	<input checked="" type="checkbox"/>	R	
Vendor_Identifier	<input checked="" type="checkbox"/>	R	
Model_Name	<input checked="" type="checkbox"/>	R	
Firmware_Revision	<input checked="" type="checkbox"/>	R	
Application_Software_Version	<input checked="" type="checkbox"/>	R	
Location	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	R	
Protocol_Version	<input checked="" type="checkbox"/>	R	
Protocol_Revision	<input checked="" type="checkbox"/>	R	
Protocol_Services_Supported	<input checked="" type="checkbox"/>	R	
Protocol_Object_Types_Supported	<input checked="" type="checkbox"/>	R	
Object_List	<input type="checkbox"/>		
Structured_Object_List	<input type="checkbox"/>		
Max_APDU_Length_Accepted	<input checked="" type="checkbox"/>	R	
Segmentation_Supported	<input checked="" type="checkbox"/>	R	
Max_Segments_Accepted	<input checked="" type="checkbox"/>	R	
VT_Classes_Supported	<input type="checkbox"/>		
Active_VT_Sessions	<input type="checkbox"/>		
Local_Time	<input type="checkbox"/>		
Local_Date	<input type="checkbox"/>		
UTC_Offset	<input type="checkbox"/>		
Daylight_Savings_Status	<input type="checkbox"/>		
APDU_Segment_Timeout	<input checked="" type="checkbox"/>	R	
APDU_Timeout	<input checked="" type="checkbox"/>	R	
Number_Of_APDU_Retries	<input checked="" type="checkbox"/>	R	
List_Of_Session_Keys	<input type="checkbox"/>		
Time_Synchronization_Recipients	<input type="checkbox"/>		
Max_Master	<input type="checkbox"/>		
Max_Info_Frames	<input type="checkbox"/>		
Device_Address_Binding	<input checked="" type="checkbox"/>	R	
Database_Revision	<input checked="" type="checkbox"/>	R	
Configuration_Files	<input type="checkbox"/>		
Last_Restore_Time	<input type="checkbox"/>		
Backup_Failure_Timeout	<input type="checkbox"/>		
Active_COV_Subscriptions	<input type="checkbox"/>		
Slave_Proxy_Enable	<input type="checkbox"/>		
Manual_Slave_Adress_Binding	<input type="checkbox"/>		
Auto_Slave_Discovery	<input type="checkbox"/>		
Slave_Address_Binding	<input type="checkbox"/>		

Device

Properties	supported	Readable/ Writable	Range restrictions
Last_Restart_Reason	<input type="checkbox"/>		
Time_Of_Device_Restart	<input type="checkbox"/>		
Restart_Notification_Recipients	<input type="checkbox"/>		
UTC_Time_Synchronization_Recipients	<input type="checkbox"/>		
Time_Synchronization_Interval	<input type="checkbox"/>		
Align_Intervals	<input type="checkbox"/>		
Interval_Offset	<input type="checkbox"/>		
Profile_Name	<input type="checkbox"/>		

5.5 Client supported object types

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Analog Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calendar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Command	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Enrollment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
File	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loop	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification Class	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schedule	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Averaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accumulator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulse-Converter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log Multiple	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structured-View	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Door	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(unassigned)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Credential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Rights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Credential Data Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network Security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bitstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Characterstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Date Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Octetstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positive Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5.6 Segmentation capability

<input checked="" type="checkbox"/>	Able to transmit segmented messages	Window size	4
<input checked="" type="checkbox"/>	Able to receive segmented messages	Window size	4

5.7 Data Link Layer options

PXM20	PXM20-E		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	BACnet IP, (Annex J)	
<input type="checkbox"/>	<input type="checkbox"/>	BACnet IP, (Annex J), Foreign Device	
<input type="checkbox"/>	<input type="checkbox"/>	ISO 8802-3, Ethernet (Clause 7)	
<input type="checkbox"/>	<input type="checkbox"/>	ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)	
<input type="checkbox"/>	<input type="checkbox"/>	ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s)	
<input type="checkbox"/>	<input type="checkbox"/>	MS/TP master (Clause 9), baud rate(s)	
<input type="checkbox"/>	<input type="checkbox"/>	MS/TP slave (Clause 9), baud rate(s)	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Point-To-Point, EIA 232 (Clause 10), baud rate(s)	: Max. 38400
<input type="checkbox"/>	<input type="checkbox"/>	Point-To-Point, modem, (Clause 10), baud rate(s)	: Max. 38400
<input checked="" type="checkbox"/>	<input type="checkbox"/>	LonTalk, (Clause 11), medium:	: TP/FT-10
<input type="checkbox"/>	<input type="checkbox"/>	Other	

5.8 Device address binding

Is static device binding supported?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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5.9 Networking options

<input type="checkbox"/>	Router, Clause 6	
<input type="checkbox"/>	Annex H, BACnet Tunnelling Router over IP	
<input type="checkbox"/>	BACnet/IP Broadcast Management Device (BBMD)	
	Does the BBMD support registrations by Foreign Devices?	<input type="checkbox"/> Yes <input type="checkbox"/> No

5.10 Character sets supported

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

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

Note

- Outgoing character strings are communicated in the selected character set.
- Incoming character strings with character sets other than ISO 8859-1 will be mapped to ISO8859-1 internally. If the mapping is not possible, the character string is not accepted.

6 Desigo PXG3.M BACnet router

Date	: 22 Febraury 2012
Vendor name	: Siemens Building Technologies (Vendor ID 7)
Product name	: Desigo PX BACnet Router
Product model number	: PXG3.M
BACnet protocol version	: 1.10
Application software version	: –
Firmware revision	: V1.1.xx.xxx

6.1 Product description

The DESIGO PXG3-M BACnet router connects a BACnet MS/TP channel to a BACnet/IP network. In addition, the BACnet router supports the functionality of the BBMD (BACnet Broadcast Management Device) in order to distribute the BACnet broadcast messages across the IP routers including foreign device support. The configuration can be performed through the built-in Web server using a standard Web browser.

6.2 BACnet standardized device profile (Annex L)

<input type="checkbox"/>	BACnet Advanced Workstation	(B-AWS)
<input type="checkbox"/>	BACnet Operator Workstation	(B-OWS)
<input type="checkbox"/>	BACnet Operator Display	(B-OD)
<input type="checkbox"/>	BACnet Building Controller	(B-BC)
<input type="checkbox"/>	BACnet Advanced Application Controller	(B-AAC)
<input type="checkbox"/>	BACnet Application Specific Controller	(B-ASC)
<input type="checkbox"/>	BACnet Smart Sensor	(B-SS)
<input type="checkbox"/>	BACnet Smart Actuator	(B-SA)

6.3 BACnet interoperability building blocks supported (Annex K)

Data sharing

<input type="checkbox"/>	Data Sharing – ReadProperty-A	DS-RP-A
<input checked="" type="checkbox"/>	Data Sharing – ReadProperty-B	DS-RP-B
<input type="checkbox"/>	Data Sharing – ReadPropertyMultiple-A	DS-RPM-A
<input checked="" type="checkbox"/>	Data Sharing – ReadPropertyMultiple-B	DS-RPM-B
<input type="checkbox"/>	Data Sharing – WriteProperty-A	DS-WP-A
<input checked="" type="checkbox"/>	Data Sharing – WriteProperty-B	DS-WP-B
<input type="checkbox"/>	Data Sharing – WritePropertyMultiple-A	DS-WPM-A
<input checked="" type="checkbox"/>	Data Sharing – WritePropertyMultiple-B	DS-WPM-B
<input type="checkbox"/>	Data Sharing – ChangeofValue -A	DS-COV-A
<input type="checkbox"/>	Data Sharing – ChangeofValue -B	DS-COV-B
<input type="checkbox"/>	Data Sharing – ChangeofValueProperty -A	DS-COVP-A
<input type="checkbox"/>	Data Sharing – ChangeofValueProperty -B	DS-COVP-B
<input type="checkbox"/>	Data Sharing – ChangeofValue-Unsolicited-A	DS-COVU-A
<input type="checkbox"/>	Data Sharing – ChangeofValue-Unsolicited-B	DS-COVU-B
<input type="checkbox"/>	Data Sharing – View-A	DS-V-A
<input type="checkbox"/>	Data Sharing – Advanced View-A	DS-AV-A
<input type="checkbox"/>	Data Sharing – Modify-A	DS-M-A
<input type="checkbox"/>	Data Sharing – Advanced Modify-A	DS-AM-A

Alarm and event management

<input type="checkbox"/>	Alarm and Event – Notification-A	AE-N-A
<input type="checkbox"/>	Alarm and Event – Notification Internal-B	AE-N-I-B
<input type="checkbox"/>	Alarm and Event – Notification External-B	AE-N-E-B
<input type="checkbox"/>	Alarm and Event – ACK-A	AE-ACK-A
<input type="checkbox"/>	Alarm and Event – ACK-B	AE-ACK-B
<input type="checkbox"/>	Alarm and Event – Alarm Summary-A	AE-ASUM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary-B	AE-ASUM-B
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-A	AE-ESUM-A
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-B	AE-ESUM-B
<input type="checkbox"/>	Alarm and Event – Information-A	AE-INFO-A
<input type="checkbox"/>	Alarm and Event – Information-B	AE-INFO-B
<input type="checkbox"/>	Alarm and Event – LifeSafety-A	AE-LS-A
<input type="checkbox"/>	Alarm and Event – LifeSafety-B	AE-LS-B
<input type="checkbox"/>	Alarm and Event – View Notifications-A	AE-VN-A
<input type="checkbox"/>	Alarm and Event – Advanced View Notifications-A	AE-AVN-A
<input type="checkbox"/>	Alarm and Event – View and Modify-A	AE-VM-A
<input type="checkbox"/>	Alarm and Event – Advanced View and Modify-A	AE-AVM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary View-A	AE-AS-A
<input type="checkbox"/>	Alarm and Event – Event Log View-A	AE-ELV-A
<input type="checkbox"/>	Alarm and Event – Event Log View and Modify-A	AE-ELVM-A
<input type="checkbox"/>	Alarm and Event – Event Log-Internal-B	AE-EL-I-B
<input type="checkbox"/>	Alarm and Event – Event Log-External-B	AE-EL-E-B

Scheduling

<input type="checkbox"/>	Scheduling – A	SCHEd-A
<input type="checkbox"/>	Scheduling – Internal-B	SCHEd-I-B
<input type="checkbox"/>	Scheduling – External-B	SCHEd-E-B
<input type="checkbox"/>	Scheduling – Advanced View Modify-A	SCH-AVM-A
<input type="checkbox"/>	Scheduling – View Modify-A	SCH-VM-A
<input type="checkbox"/>	Scheduling – Weekly Schedule-A	SCH-WS-A
<input type="checkbox"/>	Scheduling – Weekly Schedule Internal-B	SCH-WS-I-B
<input type="checkbox"/>	Scheduling – Readable-B	SCH-R-B

Trending

<input type="checkbox"/>	Trending – Viewing and Modifying Trends-A	T-VMT-A
<input type="checkbox"/>	Trending – Viewing and Modifying Internal-B	T-VM-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying External-B	T-VM-E-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values-A	T-VMMV-A
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values External -B	T-VMMV-E-B
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-A	T-AMVR-A
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-B	T-AMVR-B
<input type="checkbox"/>	Trending – View-A	T-V-A
<input type="checkbox"/>	Trending – Advanced View and Modify-A	T-AVM-A
<input type="checkbox"/>	Trending – Archival-A	T-A-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-A	T-ATR-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-B	T-ATR-B

Device management

<input type="checkbox"/>	Device Management – Dynamic Device Binding-A	DM-DDB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-B	DM-DDB-B
<input type="checkbox"/>	Device Management – Dynamic Object Binding-A	DM-DOB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-B	DM-DOB-B
<input type="checkbox"/>	Device Management – DeviceCommunicationControl-A	DM-DCC-A
<input checked="" type="checkbox"/>	Device Management – DeviceCommunicationControl-B	DM-DCC-B
<input type="checkbox"/>	Device Management – Private Transfer-A	DM-PT-A
<input type="checkbox"/>	Device Management – Private Transfer-B	DM-PT-B
<input type="checkbox"/>	Device Management – Text Message-A	DM-TM-A
<input type="checkbox"/>	Device Management – Text Message-B	DM-TM-B
<input type="checkbox"/>	Device Management – TimeSynchronization-A	DM-TS-A
<input checked="" type="checkbox"/>	Device Management – TimeSynchronization-B	DM-TS-B
<input type="checkbox"/>	Device Management – UTCTimeSynchronization-A	DM-UTC-A
<input checked="" type="checkbox"/>	Device Management – UTCTimeSynchronization-B	DM-UTC-B
<input type="checkbox"/>	Device Management – ReinitializeDevice-A	DM-RD-A
<input type="checkbox"/>	Device Management – ReinitializeDevice-B	DM-RD-B
<input type="checkbox"/>	Device Management – Backup and Restore-A	DM-BR-A
<input type="checkbox"/>	Device Management – Backup and Restore-B	DM-BR-B
<input type="checkbox"/>	Device Management – Restart-A	DM-R-A
<input type="checkbox"/>	Device Management – Restart-B	DM-R-B
<input type="checkbox"/>	Device Management – List Manipulation-A	DM-LM-A
<input type="checkbox"/>	Device Management – List Manipulation-B	DM-LM-B
<input type="checkbox"/>	Device Management – Object Creation and Deletion-A	DM-OCD-A
<input type="checkbox"/>	Device Management – Object Creation and Deletion-B	DM-OCD-B
<input type="checkbox"/>	Device Management – Virtual Terminal-A	DM-VT-A
<input type="checkbox"/>	Device Management – Virtual Terminal-B	DM-VT-B
<input type="checkbox"/>	Device Management – Automatic Network Mapping-A	DM-ANM-A
<input type="checkbox"/>	Device Management – Automatic Device Mapping-A	DM-ADM-A
<input type="checkbox"/>	Device Management – Automatic Time Synchronization-A	DM-ATS-A
<input type="checkbox"/>	Device Management – Manual Time Synchronization-A	DM-MTS-A

Network management

<input type="checkbox"/>	Network Management – Connection Establishment-A	NM-CE-A
<input type="checkbox"/>	Network Management – Connection Establishment-B	NM-CE-B
<input type="checkbox"/>	Network Management – Router Configuration-A	NM-RC-A
<input checked="" type="checkbox"/>	Network Management – Router Configuration-B	NM-RC-B

6.4 Standard object types supported

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Analog Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calendar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Command	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Enrollment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
File	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification Class	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schedule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Averaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accumulator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulse-Converter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log Multiple	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structured-View	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Door	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(unassigned)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Credential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Rights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Credential Data Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network Security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bitstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Characterstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Date Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Octetstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positive Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Device

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
System_Status	<input checked="" type="checkbox"/>	R	
Vendor_Name	<input checked="" type="checkbox"/>	R	
Vendor_Identifier	<input checked="" type="checkbox"/>	R	
Model_Name	<input checked="" type="checkbox"/>	R	
Firmware_Revision	<input checked="" type="checkbox"/>	R	
Application_Software_Version	<input checked="" type="checkbox"/>	R	
Location	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	W	
Protocol_Version	<input checked="" type="checkbox"/>	R	
Protocol_Revision	<input checked="" type="checkbox"/>	R	
Protocol_Services_Supported	<input checked="" type="checkbox"/>	R	
Protocol_Object_Types_Supported	<input checked="" type="checkbox"/>	R	
Object_List	<input checked="" type="checkbox"/>	R	
Structured_Object_List	<input checked="" type="checkbox"/>	R	
Max_APDU_Length_Accepted	<input checked="" type="checkbox"/>	R	
Segmentation_Supported	<input checked="" type="checkbox"/>	R	
Max_Segments_Accepted	<input checked="" type="checkbox"/>	R	
VT_Classes_Supported	<input type="checkbox"/>		
Active_VT_Sessions	<input type="checkbox"/>		
Local_Time	<input checked="" type="checkbox"/>	R	
Local_Date	<input checked="" type="checkbox"/>	R	
UTC_Offset	<input checked="" type="checkbox"/>	R	
Daylight_Savings_Status	<input checked="" type="checkbox"/>	R	
APDU_Segment_Timeout	<input checked="" type="checkbox"/>	W	
APDU_Timeout	<input checked="" type="checkbox"/>	W	
Number_Of_APDU_Retries	<input checked="" type="checkbox"/>	W	
List_Of_Session_Keys	<input type="checkbox"/>		
Time_Synchronization_Recipients	<input type="checkbox"/>		
Max_Master	<input checked="" type="checkbox"/>	R	
Max_Info_Frames	<input checked="" type="checkbox"/>	R	
Device_Address_Binding	<input checked="" type="checkbox"/>	R	
Database_Revision	<input checked="" type="checkbox"/>	R	
Configuration_Files	<input checked="" type="checkbox"/>	R	
Last_Restore_Time	<input checked="" type="checkbox"/>	R	
Backup_Failure_Timeout	<input checked="" type="checkbox"/>	W	
Active_COV_Subscriptions	<input checked="" type="checkbox"/>	R	
Slave_Proxy_Enable	<input checked="" type="checkbox"/>	W	
Manual_Slave_Address_Binding	<input checked="" type="checkbox"/>	W	
Auto_Slave_Discovery	<input checked="" type="checkbox"/>	W	
Slave_Address_Binding	<input checked="" type="checkbox"/>	R	

Device

Properties	supported	Readable/ Writable	Range restrictions
Last_Restart_Reason	<input checked="" type="checkbox"/>	R	
Time_Of_Device_Restart	<input checked="" type="checkbox"/>	R	
Restart_Notification_Recipients	<input checked="" type="checkbox"/>	W	
UTC_Time_Synchronization_Recipients	<input type="checkbox"/>		
Time_Synchronization_Interval	<input type="checkbox"/>		
Align_Intervals	<input type="checkbox"/>		
Interval_Offset	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

6.5 Segmentation capability

<input checked="" type="checkbox"/>	Able to transmit segmented messages	Window size	configurable
<input checked="" type="checkbox"/>	Able to receive segmented messages	Window size	configurable

6.6 Data Link Layer options

<input checked="" type="checkbox"/>	BACnet IP, (Annex J)	
<input type="checkbox"/>	BACnet IP, (Annex J), Foreign Device	
<input type="checkbox"/>	ISO 8802-3, Ethernet (Clause 7)	
<input type="checkbox"/>	ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)	
<input type="checkbox"/>	ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s)	
<input checked="" type="checkbox"/>	MS/TP master (Clause 9), baud rate(s)	: 9600 : 19200 : 38400 : 76800 : 115200
<input type="checkbox"/>	MS/TP slave (Clause 9), baud rate(s)	
<input type="checkbox"/>	Point-To-Point, EIA 232 (Clause 10), baud rate(s)	:
<input type="checkbox"/>	Point-To-Point, modem, (Clause 10), baud rate(s)	:
<input type="checkbox"/>	LonTalk, (Clause 11), medium:	
<input type="checkbox"/>	Other	

6.7 Device address binding

Is static device binding supported?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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6.8 Networking options

<input checked="" type="checkbox"/>	Router, Clause 6	
<input type="checkbox"/>	Annex H, BACnet Tunnelling Router over IP	
<input checked="" type="checkbox"/>	BACnet/IP Broadcast Management Device (BBMD)	
	Does the BBMD support registrations by Foreign Devices?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

6.9 Character sets supported

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

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

7 Desigo PXG3.L BACnet router

Date	: 22 February 2012
Vendor name	: Siemens Building Technologies (Vendor ID 7)
Product name	: Desigo PX BACnet Router
Product model number	: PXG3.L
BACnet protocol version	: 1.10
Application software version	: –
Firmware revision	: V1.1.xx.xxx

7.1 Product description

The DESIGO PXG3-L BACnet router connects:

- a BACnet MS/TP channel to a BACnet/IP network
- a BACnet MS/TP channel to a BACnet/Lon network
- a BACnet/Lon network to a BACnet/IP network

In addition, the BACnet router supports the functionality of the BBMD (BACnet Broadcast Management Device) in order to distribute the BACnet broadcast messages across the IP routers including foreign device support.

The configuration can be performed through the built-in Web server using a standard Web browser.

7.2 BACnet standardized device profile (Annex L)

<input type="checkbox"/>	BACnet Advanced Workstation	(B-AWS)
<input type="checkbox"/>	BACnet Operator Workstation	(B-OWS)
<input type="checkbox"/>	BACnet Operator Display	(B-OD)
<input type="checkbox"/>	BACnet Building Controller	(B-BC)
<input type="checkbox"/>	BACnet Advanced Application Controller	(B-AAC)
<input type="checkbox"/>	BACnet Application Specific Controller	(B-ASC)
<input type="checkbox"/>	BACnet Smart Sensor	(B-SS)
<input type="checkbox"/>	BACnet Smart Actuator	(B-SA)

7.3 BACnet interoperability building blocks supported (Annex K)

Data sharing

<input type="checkbox"/>	Data Sharing – ReadProperty-A	DS-RP-A
<input checked="" type="checkbox"/>	Data Sharing – ReadProperty-B	DS-RP-B
<input type="checkbox"/>	Data Sharing – ReadPropertyMultiple-A	DS-RPM-A
<input checked="" type="checkbox"/>	Data Sharing – ReadPropertyMultiple-B	DS-RPM-B
<input type="checkbox"/>	Data Sharing – WriteProperty-A	DS-WP-A
<input checked="" type="checkbox"/>	Data Sharing – WriteProperty-B	DS-WP-B
<input type="checkbox"/>	Data Sharing – WritePropertyMultiple-A	DS-WPM-A
<input checked="" type="checkbox"/>	Data Sharing – WritePropertyMultiple-B	DS-WPM-B
<input type="checkbox"/>	Data Sharing – ChangeofValue -A	DS-COV-A
<input type="checkbox"/>	Data Sharing – ChangeofValue -B	DS-COV-B
<input type="checkbox"/>	Data Sharing – ChangeofValueProperty -A	DS-COVP-A
<input type="checkbox"/>	Data Sharing – ChangeofValueProperty -B	DS-COVP-B
<input type="checkbox"/>	Data Sharing – ChangeofValue-Unsolicited-A	DS-COVU-A
<input type="checkbox"/>	Data Sharing – ChangeofValue-Unsolicited-B	DS-COVU-B
<input type="checkbox"/>	Data Sharing – View-A	DS-V-A
<input type="checkbox"/>	Data Sharing – Advanced View-A	DS-AV-A
<input type="checkbox"/>	Data Sharing – Modify-A	DS-M-A
<input type="checkbox"/>	Data Sharing – Advanced Modify-A	DS-AM-A

Alarm and event management

<input type="checkbox"/>	Alarm and Event – Notification-A	AE-N-A
<input type="checkbox"/>	Alarm and Event – Notification Internal-B	AE-N-I-B
<input type="checkbox"/>	Alarm and Event – Notification External-B	AE-N-E-B
<input type="checkbox"/>	Alarm and Event – ACK-A	AE-ACK-A
<input type="checkbox"/>	Alarm and Event – ACK-B	AE-ACK-B
<input type="checkbox"/>	Alarm and Event – Alarm Summary-A	AE-ASUM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary-B	AE-ASUM-B
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-A	AE-ESUM-A
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-B	AE-ESUM-B
<input type="checkbox"/>	Alarm and Event – Information-A	AE-INFO-A
<input type="checkbox"/>	Alarm and Event – Information-B	AE-INFO-B
<input type="checkbox"/>	Alarm and Event – LifeSafety-A	AE-LS-A
<input type="checkbox"/>	Alarm and Event – LifeSafety-B	AE-LS-B
<input type="checkbox"/>	Alarm and Event – View Notifications-A	AE-VN-A
<input type="checkbox"/>	Alarm and Event – Advanced View Notifications-A	AE-AVN-A
<input type="checkbox"/>	Alarm and Event – View and Modify-A	AE-VM-A
<input type="checkbox"/>	Alarm and Event – Advanced View and Modify-A	AE-AVM-A
<input type="checkbox"/>	Alarm and Event – Alarm Summary View-A	AE-AS-A
<input type="checkbox"/>	Alarm and Event – Event Log View-A	AE-ELV-A
<input type="checkbox"/>	Alarm and Event – Event Log View and Modify-A	AE-ELVM-A
<input type="checkbox"/>	Alarm and Event – Event Log-Internal-B	AE-EL-I-B
<input type="checkbox"/>	Alarm and Event – Event Log-External-B	AE-EL-E-B

Scheduling

<input type="checkbox"/>	Scheduling – A	SCHED-A
<input type="checkbox"/>	Scheduling – Internal-B	SCHED-I-B
<input type="checkbox"/>	Scheduling – External-B	SCHED-E-B
<input type="checkbox"/>	Scheduling – Advanced View Modify-A	SCH-AVM-A
<input type="checkbox"/>	Scheduling – View Modify-A	SCH-VM-A
<input type="checkbox"/>	Scheduling – Weekly Schedule-A	SCH-WS-A
<input type="checkbox"/>	Scheduling – Weekly Schedule Internal-B	SCH-WS-I-B
<input type="checkbox"/>	Scheduling – Readable-B	SCH-R-B

Trending

<input type="checkbox"/>	Trending – Viewing and Modifying Trends-A	T-VMT-A
<input type="checkbox"/>	Trending – Viewing and Modifying Internal-B	T-VM-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying External-B	T-VM-E-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values-A	T-VMMV-A
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values External -B	T-VMMV-E-B
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-A	T-AMVR-A
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-B	T-AMVR-B
<input type="checkbox"/>	Trending – View-A	T-V-A
<input type="checkbox"/>	Trending – Advanced View and Modify-A	T-AVM-A
<input type="checkbox"/>	Trending – Archival-A	T-A-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-A	T-ATR-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-B	T-ATR-B

Device management

<input type="checkbox"/>	Device Management – Dynamic Device Binding-A	DM-DDB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-B	DM-DDB-B
<input type="checkbox"/>	Device Management – Dynamic Object Binding-A	DM-DOB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-B	DM-DOB-B
<input type="checkbox"/>	Device Management – DeviceCommunicationControl-A	DM-DCC-A
<input checked="" type="checkbox"/>	Device Management – DeviceCommunicationControl-B	DM-DCC-B
<input type="checkbox"/>	Device Management – Private Transfer-A	DM-PT-A
<input type="checkbox"/>	Device Management – Private Transfer-B	DM-PT-B
<input type="checkbox"/>	Device Management – Text Message-A	DM-TM-A
<input type="checkbox"/>	Device Management – Text Message-B	DM-TM-B
<input type="checkbox"/>	Device Management – TimeSynchronization-A	DM-TS-A
<input checked="" type="checkbox"/>	Device Management – TimeSynchronization-B	DM-TS-B
<input type="checkbox"/>	Device Management – UTCTimeSynchronization-A	DM-UTC-A
<input checked="" type="checkbox"/>	Device Management – UTCTimeSynchronization-B	DM-UTC-B
<input type="checkbox"/>	Device Management – ReinitializeDevice-A	DM-RD-A
<input type="checkbox"/>	Device Management – ReinitializeDevice-B	DM-RD-B
<input type="checkbox"/>	Device Management – Backup and Restore-A	DM-BR-A
<input type="checkbox"/>	Device Management – Backup and Restore-B	DM-BR-B
<input type="checkbox"/>	Device Management – Restart-A	DM-R-A
<input type="checkbox"/>	Device Management – Restart-B	DM-R-B
<input type="checkbox"/>	Device Management – List Manipulation-A	DM-LM-A
<input type="checkbox"/>	Device Management – List Manipulation-B	DM-LM-B
<input type="checkbox"/>	Device Management – Object Creation and Deletion-A	DM-OCD-A
<input type="checkbox"/>	Device Management – Object Creation and Deletion-B	DM-OCD-B
<input type="checkbox"/>	Device Management – Virtual Terminal-A	DM-VT-A
<input type="checkbox"/>	Device Management – Virtual Terminal-B	DM-VT-B
<input type="checkbox"/>	Device Management – Automatic Network Mapping-A	DM-ANM-A
<input type="checkbox"/>	Device Management – Automatic Device Mapping-A	DM-ADM-A
<input type="checkbox"/>	Device Management – Automatic Time Synchronization-A	DM-ATS-A
<input type="checkbox"/>	Device Management – Manual Time Synchronization-A	DM-MTS-A

Network management

<input type="checkbox"/>	Network Management – Connection Establishment-A	NM-CE-A
<input type="checkbox"/>	Network Management – Connection Establishment-B	NM-CE-B
<input type="checkbox"/>	Network Management – Router Configuration-A	NM-RC-A
<input checked="" type="checkbox"/>	Network Management – Router Configuration-B	NM-RC-B

7.4 Standard object types supported

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Analog Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calendar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Command	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Enrollment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
File	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification Class	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schedule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Averaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accumulator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulse-Converter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log Multiple	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structured-View	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Door	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(unassigned)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Credential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Rights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Credential Data Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network Security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bitstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Characterstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Date Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Octetstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positive Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Device

Properties	supported	Readable/ Writable	Range restrictions
Object_Identifier	<input checked="" type="checkbox"/>	R	
Object_Name	<input checked="" type="checkbox"/>	R	
Object_Type	<input checked="" type="checkbox"/>	R	
System_Status	<input checked="" type="checkbox"/>	R	
Vendor_Name	<input checked="" type="checkbox"/>	R	
Vendor_Identifier	<input checked="" type="checkbox"/>	R	
Model_Name	<input checked="" type="checkbox"/>	R	
Firmware_Revision	<input checked="" type="checkbox"/>	R	
Application_Software_Version	<input checked="" type="checkbox"/>	R	
Location	<input checked="" type="checkbox"/>	W	
Description	<input checked="" type="checkbox"/>	W	
Protocol_Version	<input checked="" type="checkbox"/>	R	
Protocol_Revision	<input checked="" type="checkbox"/>	R	
Protocol_Services_Supported	<input checked="" type="checkbox"/>	R	
Protocol_Object_Types_Supported	<input checked="" type="checkbox"/>	R	
Object_List	<input checked="" type="checkbox"/>	R	
Structured_Object_List	<input checked="" type="checkbox"/>	R	
Max_APDU_Length_Accepted	<input checked="" type="checkbox"/>	R	
Segmentation_Supported	<input checked="" type="checkbox"/>	R	
Max_Segments_Accepted	<input checked="" type="checkbox"/>	R	
VT_Classes_Supported	<input type="checkbox"/>		
Active_VT_Sessions	<input type="checkbox"/>		
Local_Time	<input checked="" type="checkbox"/>	R	
Local_Date	<input checked="" type="checkbox"/>	R	
UTC_Offset	<input checked="" type="checkbox"/>	R	
Daylight_Savings_Status	<input checked="" type="checkbox"/>	R	
APDU_Segment_Timeout	<input checked="" type="checkbox"/>	W	
APDU_Timeout	<input checked="" type="checkbox"/>	W	
Number_Of_APDU_Retries	<input checked="" type="checkbox"/>	W	
List_Of_Session_Keys	<input type="checkbox"/>		
Time_Synchronization_Recipients	<input type="checkbox"/>		
Max_Master	<input checked="" type="checkbox"/>	R	
Max_Info_Frames	<input checked="" type="checkbox"/>	R	
Device_Address_Binding	<input checked="" type="checkbox"/>	R	
Database_Revision	<input checked="" type="checkbox"/>	R	
Configuration_Files	<input checked="" type="checkbox"/>	R	
Last_Restore_Time	<input checked="" type="checkbox"/>	R	
Backup_Failure_Timeout	<input checked="" type="checkbox"/>	W	
Active_COV_Subscriptions	<input checked="" type="checkbox"/>	R	
Slave_Proxy_Enable	<input checked="" type="checkbox"/>	W	
Manual_Slave_Adress_Binding	<input checked="" type="checkbox"/>	W	
Auto_Slave_Discovery	<input checked="" type="checkbox"/>	W	
Slave_Address_Binding	<input checked="" type="checkbox"/>	R	

Device

Properties	supported	Readable/ Writable	Range restrictions
Last_Restart_Reason	<input checked="" type="checkbox"/>	R	
Time_Of_Device_Restart	<input checked="" type="checkbox"/>	R	
Restart_Notification_Recipients	<input checked="" type="checkbox"/>	W	
UTC_Time_Synchronization_Recipients	<input type="checkbox"/>		
Time_Synchronization_Interval	<input type="checkbox"/>		
Align_Intervals	<input type="checkbox"/>		
Interval_Offset	<input type="checkbox"/>		
Profile_Name	<input checked="" type="checkbox"/>	R	

7.5 Segmentation capability

<input checked="" type="checkbox"/>	Able to transmit segmented messages	Window size	configurable
<input checked="" type="checkbox"/>	Able to receive segmented messages	Window size	configurable

7.6 Data Link Layer options

<input checked="" type="checkbox"/>	BACnet IP, (Annex J)	
<input type="checkbox"/>	BACnet IP, (Annex J), Foreign Device	
<input type="checkbox"/>	ISO 8802-3, Ethernet (Clause 7)	
<input type="checkbox"/>	ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)	
<input type="checkbox"/>	ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s)	
<input checked="" type="checkbox"/>	MS/TP master (Clause 9), baud rate(s)	: 9600 : 19200 : 38400 : 76800 : 115200
<input type="checkbox"/>	MS/TP slave (Clause 9), baud rate(s)	
<input type="checkbox"/>	Point-To-Point, EIA 232 (Clause 10), baud rate(s)	:
<input type="checkbox"/>	Point-To-Point, modem, (Clause 10), baud rate(s)	
<input checked="" type="checkbox"/>	LonTalk, (Clause 11), medium:	: TP/FT-10
<input type="checkbox"/>	Other	

7.7 Device address binding

Is static device binding supported?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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7.8 Networking options

<input checked="" type="checkbox"/>	Router, Clause 6	
<input type="checkbox"/>	Annex H, BACnet Tunnelling Router over IP	
<input checked="" type="checkbox"/>	BACnet/IP Broadcast Management Device (BBMD)	
	Does the BBMD support registrations by Foreign Devices?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

7.9 Character sets supported

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

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

