



Intelligent Valve BACnet Protocol Implementation Conformance Statement (PICS)

Contents

1	Intelligent Valve	3
1.1	Product Description.....	3
1.2	BACnet Standardized Device Profile (Annex L).....	4
1.3	BACnet Interoperability Building Blocks Supported (Annex K).....	5
1.4	Standard Object Types Supported.....	10
1.5	Segmentation Capability.....	18
1.6	Data Link Layer Options.....	18
1.7	Device Address Binding.....	18
1.8	Networking Options.....	18
1.9	Character Sets Supported.....	18
1.10	Gateway Options.....	19
1.11	Network Security Options.....	19

1 Intelligent Valve

Date	10 July 2020
Vendor name	Siemens Building Technologies (Vendor ID 7)
Product name	Intelligent Valve
Product model number	ASE4U10E, EVG4U10E015, EVG4U10E020, EVG4U10E025, EVG4U10E032, EVG4U10E040, EVG4U10E050, EVF4U20E065, EVF4U20E080, EVF4U20E100, EVF4U20E125, EXG4U10E015, EXG4U10E020, EXG4U10E025, EXG4U10E032, EXG4U10E040, EXG4U10E050, EXF4U20E065, EXF4U20E080, EXF4U20E100
BACnet protocol version	Revision 1.15
Firmware revision	1.17

1.1 Product Description

Control valve with integrated energy data acquisition for ventilation and air conditioning plants as well as pre-control groups. Sensor-guided dynamic flow control.

1.2 BACnet Standardized Device Profile (Annex L)

Devices may claim to be multiple device types. For example, a device may claim to be both a B-BC and the B-RTR. Devices that claim multiple device profiles shall only combine capabilities from different device families, with the exception that multiple profiles may be selected from the Miscellaneous family. For example, a device may claim the B-BC, B-RTR, and BBMD profiles, but a device may not claim both the B-BC and B-SS profiles.

Operator Interfaces

<input type="checkbox"/>	BACnet Cross-Domain Advanced Operator Workstation	(B-XAWS)
<input type="checkbox"/>	BACnet Advanced Operator Workstation	(B-AWS)
<input type="checkbox"/>	BACnet Operator Workstation	(B-OWS)
<input type="checkbox"/>	BACnet Operator Display	(B-OD)

Life Safety Operator Interfaces.

<input type="checkbox"/>	BACnet Advanced Life Safety Workstation	(B-ALSW)
<input type="checkbox"/>	BACnet Life Safety Workstation	(B-LSWS)
<input type="checkbox"/>	BACnet Life Safety Annunciator Panel	(B-LSAP)

Access Control Operator Interfaces.

<input type="checkbox"/>	BACnet Advanced Access Control Workstation	(B-AACWS)
<input type="checkbox"/>	BACnet Access Control Workstation	(B-ACWS)
<input type="checkbox"/>	BACnet Access Control Security Display	(B-ACSD)

Controllers

<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 Actuator	(B-SA)
<input type="checkbox"/>	BACnet Smart Sensor	(B-SS)

Life Safety Controllers

<input type="checkbox"/>	BACnet Advanced Life Safety Controller	(B-ALSC)
<input type="checkbox"/>	BACnet Life Safety Controller	(B-LSC)

Access Control Controllers

<input type="checkbox"/>	BACnet Advanced Access Control Controller	(B-AACC)
<input type="checkbox"/>	BACnet Access Control Controller	(B-ACC)

Miscellaneous

<input type="checkbox"/>	BACnet Router	(B-RTR)
<input type="checkbox"/>	BACnet Gateway	(B-GW)
<input type="checkbox"/>	BACnet Broadcast Management Device	(B-BBMD)
<input type="checkbox"/>	BACnet Access Control Door Controller	(B-ACDC)
<input type="checkbox"/>	BACnet Access Control Credential Reader	(B-ACCR)

The B-GENERAL device profile is not included in any of the profile families and is never claimed in conjunction with any other device profile, except those from the Miscellaneous family.

<input type="checkbox"/>	BACnet General	(B-GENERAL)
--------------------------	----------------	-------------

1.3 BACnet Interoperability Building Blocks Supported (Annex K)

Data Sharing

<input type="checkbox"/>	Data Sharing – Read Property-A	DS-RP-A
<input checked="" type="checkbox"/>	Data Sharing – Read Property-B	DS-RP-B
<input 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 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 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 type="checkbox"/>	Data Sharing – Change of Value Property -A	DS-COVP-A
<input type="checkbox"/>	Data Sharing – Change of Value Property -B	DS-COVP-B
<input type="checkbox"/>	Data Sharing – Change of Value-Unsubscribed-A	DS-COVU-A
<input type="checkbox"/>	Data Sharing – Change of Value-Unsubscribed-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
<input type="checkbox"/>	Data Sharing – WriteGroup-A	DS-WG-A
<input type="checkbox"/>	Data Sharing – WriteGroup-Internal-B	DS-WG-I-B
<input type="checkbox"/>	Data Sharing – WriteGroup-External-B	DS-WG-E-B
<input type="checkbox"/>	Data Sharing – Value Source Information-B	DS-VSI-B
<input type="checkbox"/>	Data Sharing – Change Of Value Multiple-A	DS-COVM-A
<input type="checkbox"/>	Data Sharing – Change Of Value Multiple-B	DS-COVM-B
<input type="checkbox"/>	Data Sharing – Life Safety View-A	DS-LSV-A
<input type="checkbox"/>	Data Sharing – Life Safety Advanced View-A	DS-LSAV-A
<input type="checkbox"/>	Data Sharing – Life Safety Modify-A	DS-LSM-A
<input type="checkbox"/>	Data Sharing – Life Safety Advanced Modify-A	DS-LSAM-A
<input type="checkbox"/>	Data Sharing – Access Control View-A	DS-ACV-A
<input type="checkbox"/>	Data Sharing – Access Control Advanced View-A	DS-ACAV-A
<input type="checkbox"/>	Data Sharing – Access Control Modify-A	DS-ACM-A
<input type="checkbox"/>	Data Sharing – Access Control Advanced Modify-A	DS-ACAM-A
<input type="checkbox"/>	Data Sharing – Access Control User Configuration-A	DS-ACUC-A
<input type="checkbox"/>	Data Sharing – Access Control User Configuration-B	DS-ACUC-B
<input type="checkbox"/>	Data Sharing – Access Control Site Configuration-A	DS-ACSC-A
<input type="checkbox"/>	Data Sharing – Access Control Site Configuration-B	DS-ACSC-B
<input type="checkbox"/>	Data Sharing – Access Control Access Door-A	DS-ACAD-A
<input type="checkbox"/>	Data Sharing – Access Control Access Door-B	DS-ACAD-B
<input type="checkbox"/>	Data Sharing – Access Control Credential Data Input-A	DS-ACCDI-A
<input type="checkbox"/>	Data Sharing – Access Control Credential Data Input-B	DS-ACCDI-B

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-NE-B
<input type="checkbox"/>	Alarm and Event – Acknowledge-A	AE-ACK-A
<input type="checkbox"/>	Alarm and Event – Acknowledge-B	AE-ACK-B
<input type="checkbox"/>	Alarm and Event – Alarm Summary-B	AE-ASUM-B
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-B	AE-ESUM-B
<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
<input type="checkbox"/>	Alarm and Event – Notification Forwarder-B	AE-NF-B
<input type="checkbox"/>	Alarm and Event – Notification Forwarder-Internal-B	AE-NF-I-B
<input type="checkbox"/>	Alarm and Event – Configurable Recipient Lists-B	AE-CRL-B
<input type="checkbox"/>	Alarm and Event – Temporary Event Subscription-A	AE-TES-A
<input type="checkbox"/>	Alarm and Event – Life Safety View Notifications-A	AE-LSVN-A
<input type="checkbox"/>	Alarm and Event – Life Safety Advanced View Notifications-A	AE-LSAVN-A
<input type="checkbox"/>	Alarm and Event – Life Safety View and Modify-A	AE-LSVM-A
<input type="checkbox"/>	Alarm and Event – Life Safety Advanced View and Modify-A	AE-LSAVM-A
<input type="checkbox"/>	Alarm and Event – Access Control-A	AE-AC-A
<input type="checkbox"/>	Alarm and Event – Access Control-B	AE-AC-B
<input type="checkbox"/>	Alarm and Event – Access Control Advanced View Notifications-A	AE-ACAVN-A
<input type="checkbox"/>	Alarm and Event – Access Control View and Modify-A	AE-ACVM-A
<input type="checkbox"/>	Alarm and Event – Access Control Advanced View and Modify-A	AE-ACAVM-A

Historical/Deprecated BIBBs

<input type="checkbox"/>	Alarm and Event – Alarm Summary-A	AE-ASUM-A
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-A	AE-ESUM-A
<input type="checkbox"/>	Alarm and Event – Information-A	AE-INFO-A

Scheduling

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

Historical/Deprecated BIBBs

<input type="checkbox"/>	Scheduling – A	SCHED-A
--------------------------	----------------	---------

Trending

<input type="checkbox"/>	Trending – Viewing and Modifying Internal-B	T-VMT-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying External-B	T-VMT-E-B
<input type="checkbox"/>	Trending – Automated Trend Retrieval-A	T-ATR-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-B	T-ATR-B
<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

Historical/Deprecated BIBBs

<input type="checkbox"/>	Trending – Viewing and Modifying Trends-A	T-VMT-A
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values-A	T-VMMV-A

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 – 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 – 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 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
<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
<input type="checkbox"/>	Device Management – Slave Proxy-View and Modify-A	DM-SP-VM-A
<input type="checkbox"/>	Device Management – Slave Proxy-B	DM-SP-B

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
<input type="checkbox"/>	Network Management – BBMD Configuration-A	NM-BBMD-A
<input type="checkbox"/>	Network Management – BBMD Configuration-B	NM-BBMD-B
<input type="checkbox"/>	Network Management – Foreign Device Registration-A	NM-FDR-A

Gateway

<input type="checkbox"/>	Gateway – Virtual Network-B	GW-VN-B
<input type="checkbox"/>	Gateway – Embedded Objects-B	GW-EO-B

Network Security

<input type="checkbox"/>	Network Security – Secure Device	NS-SD
<input type="checkbox"/>	Network Security – Encrypted Device	NS-ED
<input type="checkbox"/>	Network Security – Multi-Application Device	NS-MAD
<input type="checkbox"/>	Network Security – Device Master Key-A	NS-DMK-A
<input type="checkbox"/>	Network Security – Device Master Key-B	NS-DMK-B
<input type="checkbox"/>	Network Security – Key Server	NS-KS
<input type="checkbox"/>	Network Security – Temporary Key Server	NS-TKS
<input type="checkbox"/>	Network Security – Secure Router	NS-SR
<input type="checkbox"/>	Network Security – Security Proxy	NS-SP

1.4 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"/>
Averaging	<input 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 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"/>
Life-Safety-Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Zone	<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"/>
Multi-State Value	<input checked="" 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"/>
Pulse-Converter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schedule	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Door	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Log	<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"/>
Trend Log Multiple	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Rights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Credential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Credential Data Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Characterstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bitstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Octetstring Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positive Integer Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Date Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network Security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification Forwarder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alert Enrollment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lighting Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Lighting Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Timer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Elevator Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lift	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Escalator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accumulator	<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"/>	R	
Description	<input checked="" type="checkbox"/>	W	
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"/>	R	
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	
COV_Increment	<input checked="" type="checkbox"/>	W	
Property_List	<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"/>	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"/>	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"/>	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	
Property_List	<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"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
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"/>	R	
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	
Min_Pres_Value	<input checked="" type="checkbox"/>	W	
Max_Pres_Value	<input checked="" type="checkbox"/>	W	
Resolution	<input checked="" type="checkbox"/>	W	
Property_List	<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"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	W	
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"/>	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	
Property_List	<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"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	
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"/>	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	
Minimum_Off_Time	<input checked="" type="checkbox"/>	W	
Minimum_On_Time	<input checked="" type="checkbox"/>	W	
Priority_Array	<input checked="" type="checkbox"/>	R	
Relinquish_Default	<input checked="" type="checkbox"/>	W	
Property_List	<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"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	R	
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"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Inactive_Text	<input checked="" type="checkbox"/>	R	
Active_Text	<input checked="" type="checkbox"/>	R	
Property_List	<input checked="" type="checkbox"/>	R	
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	
Local_Time	<input checked="" type="checkbox"/>	W	
Local_Date	<input checked="" type="checkbox"/>	W	
UTC_Offset	<input checked="" type="checkbox"/>	W	
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	
Device_Address_Binding	<input checked="" type="checkbox"/>	R	
Database_Revision	<input checked="" type="checkbox"/>	R	
Active_COV_Subscriptions	<input checked="" type="checkbox"/>	R	
Last_Restart_Reason	<input checked="" type="checkbox"/>	R	
Time_Of_Device_Restart	<input checked="" type="checkbox"/>	R	
Restart_Notification_Recipients	<input checked="" type="checkbox"/>	R	
Serial_Number	<input checked="" type="checkbox"/>	R	
Property_List	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

Multi-state 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"/>	R	
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"/>	R	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Number_Of_States	<input checked="" type="checkbox"/>	R	
State_Text	<input checked="" type="checkbox"/>	R	
Property_List	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	

**Structure View
Object**

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	
Node_Type	<input checked="" type="checkbox"/>	R	
Description	<input checked="" type="checkbox"/>	W	
Subordinate_List	<input checked="" type="checkbox"/>	R	
Profile_Name	<input checked="" type="checkbox"/>	R	
Node_Subtype	<input checked="" type="checkbox"/>	R	
Subordinate_Annotations	<input checked="" type="checkbox"/>	R	
Property_List	<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"/>	W	
Object_Type	<input checked="" type="checkbox"/>	R	
Present_Value	<input checked="" type="checkbox"/>	W	Writable when out of service
Description	<input checked="" type="checkbox"/>	W	
Effective_Period	<input checked="" type="checkbox"/>	W	
Weekly_Schedule	<input checked="" type="checkbox"/>	W	
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"/>	W	Writable when out of service
Out_Of_Service	<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	
Profile_Name	<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	
Units	<input checked="" type="checkbox"/>	W	
Cov_Increment	<input checked="" type="checkbox"/>	W	
Min_Pres_Value	<input checked="" type="checkbox"/>	W	
Max_Pres_Value	<input checked="" type="checkbox"/>	W	
Out_Of_Service	<input checked="" type="checkbox"/>	W	
Property_List	<input checked="" type="checkbox"/>	R	

1.5 Segmentation Capability

<input checked="" type="checkbox"/>	Able to transmit segmented messages	Window size	16
<input checked="" type="checkbox"/>	Able to receive segmented messages	Window size	16

1.6 Data Link Layer Options

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

<input type="checkbox"/>	ARCNET (ATA 878.1), 2.5 Mb. (Clause 8)	
<input type="checkbox"/>	ARCNET (ATA 878.1), EIA-485 (Clause 8), baud rate(s)	
<input checked="" type="checkbox"/>	BACnet IP, (Annex J)	
<input type="checkbox"/>	BACnet IP, (Annex J), BACnet Broadcast Management Device (BBMD)	BDT entries: FDT entries:
<input type="checkbox"/>	BACnet IP, (Annex J), Network Address Translation (NAT Traversal)	
<input type="checkbox"/>	BACnet IPv6, (Annex U)	
<input type="checkbox"/>	BACnet IPv6, (Annex U), BACnet Broadcast Management Device (BBMD)	BDT entries: FDT entries:
<input type="checkbox"/>	BACnet/ZigBee (Annex O)	
<input type="checkbox"/>	Ethernet, ISO 8802-3 (Clause 7)	
<input type="checkbox"/>	LonTalk, ISO/IEC 14908.1 (Clause 11), medium:	: TP/FT-10
<input type="checkbox"/>	ISO 8802-3, Ethernet (Clause 7)	
<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"/>	Other	

1.7 Device Address Binding

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

1.8 Networking Options

<input type="checkbox"/>	Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.
<input type="checkbox"/>	Annex H, BACnet Tunnelling Router over IP

1.9 Character Sets Supported

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

<input checked="" type="checkbox"/> ISO 10646 (UTF-8)	<input 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 X 0208

1.10 Gateway Options

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

If this product is a communication gateway which presents a network of virtual BACnet devices, a separate PICS shall be provided that describes the functionality of the virtual BACnet devices. That PICS shall describe a superset of the functionality of all types of virtual BACnet devices that can be presented by the gateway.

1.11 Network Security Options

<input type="checkbox"/>	Non-secure Device - is capable of operating without BACnet Network Security
<input type="checkbox"/>	Secure Device - is capable of using BACnet Network Security (NS-SD BIBB)
<input type="checkbox"/>	Multiple Application-Specific Keys
<input type="checkbox"/>	Supports encryption (NS-ED BIBB)
<input type="checkbox"/>	Key Server (NS-KS BIBB)