

evon Controller

BACnet Protocol Implementation Conformance Statement (PICS)



powered by XAMControl

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1 General

Date	01.12.2014
Vendor Name	evon (VendorID 793)
Product Name	evon Controller
Product Model Number	ec... (see table below)
BACnet Protocol Revision	1.12
Application Software Version	-
Firmware Revision	2

1.1 Product model number

The evon Controller automation 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 also listed.

Product	Description	Datalink Layer
ec6915	Modular automation controller	IP
ec6930	Modular automation controller	IP
ec910	Modular automation controller	IP

1.2 Product description

The evon Controllers are programmable automation controllers (PAC) based on the XAMControl automation platform.

XAMControl

2 BACnet Standardized Device Profile (Annex L)

<input type="checkbox"/>	BACnet Operator Workstation	B-OWS
<input type="checkbox"/>	BACnet Advanced Operator Workstation	B-AWS
<input type="checkbox"/>	BACnet Operator Display	B-OD
<input checked="" type="checkbox"/>	BACnet Building Controller	B 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

3 BACnet interoperability building blocks supported (Annex K)

3.1 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
<input type="checkbox"/>	Data Sharing - ReadRange - A	DS-RR-A
<input checked="" type="checkbox"/>	Data Sharing - ReadRange - B	DS-RR-B

3.2 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 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

3.3 Scheduling

<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

3.4 Trending

<input checked="" type="checkbox"/>	Trending – Viewing and Modifying Internal-B	T-VM-I-B
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<input type="checkbox"/>	Trending – Viewing and Modifying External-B	T-VM-E-B
	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-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

3.5 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 – 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
<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 – 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

4 Segmentation Capability

	Description	Window Size
<input checked="" type="checkbox"/>	Able to transmit segmented messages	128
<input checked="" type="checkbox"/>	Able to receive segmented messages	128

5 Standard Object Types Supported

5.1 List of 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"/>
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"/>

5.2 Object Properties supported

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.

5.2.1 Analog Input

Property	supported	Readable/ Writeable	Range restrictions
ObjectIdentifier	X	R	
ObjectName	X	R	
ObjectType	X	R	
PresentValue	X	W	
Description	X	R	
DeviceType	X	R	
StatusFlags	X	R	
EventState	X	R	
Reliability	X	W	
OutOfService	X	W	
UpdateInterval	X	R	
Units	X	R	
MinPresValue	X	R	
MaxPresValue	X	R	
Resolution	X	R	
CovIncrement	X	R	
TimeDelay	X	R	0 ... MAX_INT
NotificationClass	X	W	
HighLimit	X	R	
LowLimit	X	R	
Deadband	X	R	0 ... MAX_REAL
LimitEnable	X	W	

EventEnable	X	W	
AckedTransitions	X	R	
NotifyType	X	W	
EventTimeStamps	X	R	
EventMessageTexts			
EventMessageTextsConfig			
EventDetectionEnable			
EventAlgorithmInhibitRef			
EventAlgorithmInhibit			
TimeDelayNormal			
ReliabilityEvaluationInhibit			
PropertyList			
ProfileName			

5.2.2 Analog Output

Property	supported	Readable/ Writeable	Range restrictions
ObjectIdentifier	X	R	
ObjectName	X	R	
ObjectType	X	R	
PresentValue	X	W	
Description	X	R	
DeviceType	X	R	
StatusFlags	X	R	
EventState	X	R	
Reliability	X	W	
OutOfService	X	W	
Units	X	R	
MinPresValue	X	R	
MaxPresValue	X	R	
Resolution	X	R	
PriorityArray	X	R	
RelinquishDefault	X	R	
CovIncrement	X	R	
TimeDelay	X	R	0 ... MAX_INT
NotificationClass	X	W	

HighLimit	X	R	
LowLimit	X	R	
Deadband	X	R	0 ... MAX_REAL
LimitEnable	X	W	
EventEnable	X	W	
AckedTransitions	X	R	
NotifyType	X	W	
EventTimeStamps	X	R	
EventMessageTexts			
EventMessageTextsConfig			
EventDetectionEnable			
EventAlgorithmInhibitRef			
EventAlgorithmInhibit			
TimeDelayNormal			
ReliabilityEvaluationInhibit			
PropertyList			

5.2.3 Analog Value

Property	supported	Readable/ Writeable	Range restrictions
ObjectIdentifier	X	R	
ObjectName	X	R	
ObjectType	X	R	
PresentValue	X	W	
Description	X	R	
StatusFlags	X	R	
EventState	X	R	
Reliability	X	W	
OutOfService	X	W	
Units	X	R	
PriorityArray	X	R	
RelinquishDefault	X	R	
CovIncrement	X	R	
TimeDelay	X	R	0 ... MAX_INT
NotificationClass	X	W	
HighLimit	X	R	

LowLimit	X	R	
Deadband	X	R	0 ... MAX_REAL
LimitEnable	X	W	
EventEnable	X	W	
AckedTransitions	X	R	
NotifyType	X	W	
EventTimeStamps	X	R	
EventMessageTexts			
EventMessageTextsConfig			
EventDetectionEnable			
EventAlgorithmInhibitRef			
EventAlgorithmInhibit			
TimeDelayNormal			
ReliabilityEvaluationInhibit			
MinPresValue			
MaxPresValue			
Resolution			
PropertyList			
ProfileName			

5.2.4 Binary Input

Property	supported	Readable/ Writeable	Range restrictions
ObjectIdentifier	X	R	
ObjectName	X	R	
ObjectType	X	R	
PresentValue	X	W	
Description	X	R	
DeviceType	X	R	
StatusFlags	X	R	
EventState	X	R	
Reliability	X	W	
OutOfService	X	W	
Polarity	X	W	
InactiveText	X	R	
ActiveText	X	R	

ChangeOfStateTime			
ChangeOfStateCount			
TimeOfStateCountReset			
ElapsedActiveTime			
TimeOfActiveTimeReset			
TimeDelay	X	R	0 ... MAX_INT
NotificationClass	X	W	
AlarmValue	X	R	
EventEnable	X	W	
AckedTransitions	X	R	
NotifyType	X	W	
EventTimeStamps	X	R	
EventMessageTexts			
EventMessageTextsConfig			
EventDetectionEnable			
EventAlgorithmInhibitRef			
EventAlgorithmInhibit			
TimeDelayNormal			
ReliabilityEvaluationInhibit			
PropertyList			
ProfileName			

5.2.5 Binary Output

Property	supported	Readable/ Writeable	Range restrictions
ObjectIdentifier	X	R	
ObjectName	X	R	
ObjectType	X	R	
PresentValue	X	W	
Description	X	R	
DeviceType	X	R	
StatusFlags	X	R	
EventState	X	R	
Reliability	X	W	
OutOfService	X	W	
Polarity	X	W	

InactiveText	X	R	
ActiveText	X	R	
ChangeOfStateTime			
ChangeOfStateCount			
TimeOfStateCountReset			
ElapsedActiveTime			
TimeOfActiveTimeReset			
MinimumOffTime			
MinimumOnTime			
PriorityArray	X	R	
RelinquishDefault	X	R	
TimeDelay	X	R	0 ... MAX_INT
NotificationClass	X	W	
FeedbackValue	X	R	
EventEnable	X	W	
AckedTransitions	X	R	
NotifyType	X	W	
EventTimeStamps	X	R	
EventMessageTexts			
EventMessageTextsConfig			
EventDetectionEnable			
EventAlgorithmInhibitRef			
EventAlgorithmInhibit			
TimeDelayNormal			
ReliabilityEvaluationInhibit			
PropertyList			
ProfileName			

5.2.6 Binary Value

Property	supported	Readable/ Writeable	Range restrictions
ObjectIdentifier	X	R	
ObjectName	X	R	
ObjectType	X	R	
PresentValue	X	W	
Description	X	R	

StatusFlags	X	R	
EventState	X	R	
Reliability	X	W	
OutOfService	X	W	
InactiveText	X	R	
ActiveText	X	R	
ChangeOfStateTime			
ChangeOfStateCount			
TimeOfStateCountReset			
ElapsedActiveTime			
TimeOfActiveTimeReset			
MinimumOffTime			
MinimumOnTime			
PriorityArray	X	R	
RelinquishDefault	X	R	
TimeDelay	X	R	0 ... MAX_INT
NotificationClass	X	W	
AlarmValue	X	R	
EventEnable	X	W	
AckedTransitions	X	R	
NotifyType	X	W	
EventTimeStamps	X	R	
EventMessageTexts			
EventMessageTextsConfig			
EventDetectionEnable			
EventAlgorithmInhibitRef			
EventAlgorithmInhibit			
TimeDelayNormal			
ReliabilityEvaluationInhibit			
PropertyList			
ProfileName			

5.2.7 Calendar

Property	supported	Readable/ Writeable	Range restrictions
ObjectIdentifier	X	R	

ObjectName	X	R	
ObjectType	X	R	
Description	X	R	
PresentValue	X	R	
DateList	X	W	
PropertyList			
ProfileName			

5.2.8 Device

Property	supported	Readable/ Writeable	Range restrictions
ObjectIdentifier	X	R	
ObjectName	X	R	
ObjectType	X	R	
SystemStatus	X	R	
VendorName	X	R	
VendorIdentifier	X	R	
ModelName	X	R	
FirmwareRevision	X	R	
ApplicationSoftwareVersion	X	R	
Location			
Description	X	R	
ProtocolVersion	X	R	
ProtocolRevision	X	R	
ProtocolServicesSupported	X	R	
ProtocolObjectTypesSupported	X	R	
ObjectList	X	R	
StructuredObjectList			
MaxApuLengthAccepted	X	R	
SegmentationSupported	X	R	
MaxSegmentsAccepted	X	R	
VtClassesSupported			
ActiveVtSessions			
LocalTime	X	R	
LocalDate	X	R	
UtcOffset	X	R	

DaylightSavingsStatus	X	R	
ApduSegmentTimeout	X	R	
ApduTimeout	X	R	
NumberOfApduRetries	X	R	
TimeSynchronizationRecipients			
MaxMaster			
MaxInfoFrames			
DeviceAddressBinding	X	R	
DatabaseRevision	X	R	
ConfigurationFiles	X	R	
LastRestoreTime	X	R	
BackupFailureTimeout	X	W	0 ... MAX_INT
BackupPreparationTime	X	R	
RestorePreparationTime	X	R	
RestoreCompletionTime	X	W	
BackupAndRestoreState	X	R	
ActiveCovSubscriptions	X	R	
SlaveProxyEnable			
ManualSlaveAddressBinding			
AutoSlaveDiscovery			
SlaveAddressBinding			
LastRestartReason	X	R	
TimeOfDeviceRestart	X	R	
RestartNotificationRecipients	X	R	
UtcTimeSynchronizationRecipients			
TimeSynchronizationInterval			
AlignIntervals			
IntervalOffset			
SerialNumber			
PropertyList			
ProfileName			

5.2.9 Multi-State Input

Property	supported	Readable/ Writeable	Range restrictions
ObjectIdentifier	X	R	

ObjectName	X	R	
ObjectType	X	R	
PresentValue	X	W	
Description	X	R	
DeviceType	X	R	
StatusFlags	X	R	
EventState	X	R	
Reliability	X	R	
OutOfService	X	W	
NumberOfStates	X	R	
StateText	X	R	
TimeDelay	X	R	0 ... MAX_INT
NotificationClass	X	W	
AlarmValues	X	R	
FaultValues	X	R	
EventEnable	X	W	
AckedTransitions	X	R	
NotifyType	X	W	
EventTimeStamps	X	R	
EventMessageTexts			
EventMessageTextsConfig			
EventDetectionEnable			
EventAlgorithmInhibitRef			
EventAlgorithmInhibit			
TimeDelayNormal			
ReliabilityEvaluationInhibit			
PropertyList			
ProfileName			

5.2.10 Multi-State Output

Property	supported	Readable/ Writeable	Range restrictions
ObjectIdentifier	X	R	
ObjectName	X	R	
ObjectType	X	R	
PresentValue	X	W	1...NumberOfStates

Description	X	R	
DeviceType	X	R	
StatusFlags	X	R	
EventState	X	R	
Reliability	X	R	
OutOfService	X	W	
NumberOfStates	X	R	
StateText	X	R	
PriorityArray	X	R	
RelinquishDefault	X	R	
TimeDelay	X	R	0 ... MAX_INT
NotificationClass	X	W	
FeedbackValue	X	R	
EventEnable	X	W	
AckedTransitions	X	R	
NotifyType	X	W	
EventTimeStamps	X	R	
EventMessageTexts			
EventMessageTextsConfig			
EventDetectionEnable			
EventAlgorithmInhibitRef			
EventAlgorithmInhibit			
TimeDelayNormal			
ReliabilityEvaluationInhibit			
PropertyList			
ProfileName			

5.2.11 Notification Class

Property	supported	Readable/ Writable	Range restrictions
ObjectIdentifier	X	R	
ObjectName	X	R	
ObjectType	X	R	
Description	X	R	
NotificationClass	X	R	
Priority	X	W	

AckRequired	X	R	
RecipientList	X	R	
PropertyList			
ProfileName			

5.2.12 Schedule

Property	supported	Readable/ Writeable	Range restrictions
ObjectIdentifier	X	R	
ObjectName	X	R	
ObjectType	X	R	
PresentValue	X	R	
Description	X	R	
EffectivePeriod	X	W	
WeeklySchedule	X	W	
ExceptionSchedule	X	W	
ScheduleDefault	X	W	
ListOfObjectPropertyReferences	X	W	
PriorityForWriting	X	R	
StatusFlags	X	R	
Reliability	X	R	
OutOfService	X	W	
EventDetectionEnable			
NotificationClass			
EventEnable			
EventState			
AckedTransitions			
NotifyType			
EventTimeStamps			
EventMessageTexts			
EventMessageTextsConfig			
ReliabilityEvaluationInhibit			
PropertyList			
ProfileName			

5.2.13 Multi-State Value

Property	supported	Readable/ Writeable	Range restrictions
ObjectIdentifier	X	R	
ObjectName	X	R	
ObjectType	X	R	
PresentValue	X	W	1...NumberOfStates
Description	X	R	
StatusFlags	X	R	
EventState	X	R	
Reliability	X	R	
OutOfService	X	W	
NumberOfStates	X	R	
StateText	X	R	
PriorityArray	X	R	
RelinquishDefault	X	R	
TimeDelay	X	R	0 ... MAX_INT
NotificationClass	X	W	
AlarmValues	X	R	
FaultValues	X	R	
EventEnable	X	W	
AckedTransitions	X	R	
NotifyType	X	W	
EventTimeStamps	X	R	
EventMessageTexts			
EventMessageTextsConfig			
EventDetectionEnable			
EventAlgorithmInhibitRef			
EventAlgorithmInhibit			
TimeDelayNormal			
ReliabilityEvaluationInhibit			
PropertyList			
ProfileName			

5.2.14 Trendlog

Property	supported	Readable/ Writeable	Range restrictions
ObjectIdentifier	X	R	
ObjectName	X	R	
ObjectType	X	R	
Description	X	R	
Enable	X	W	
StartTime			
StopTime			
LogDeviceObjectProperty			
LogInterval	X	W	
CovResubscriptionInterval			
ClientCovIncrement			
StopWhenFull	X	W	
BufferSize	X	R	0...5000
LogBuffer	X	R	
RecordCount	X	W	0...0
TotalRecordCount	X	R	
LoggingType	X	R	
AlignIntervals			
IntervalOffset			
Trigger			
StatusFlags	X	R	
Reliability			
NotificationThreshold	X	R	0...5000
RecordsSinceNotification	X	R	
LastNotifyRecord	X	R	
EventState	X	R	
NotificationClass	X	W	
EventEnable	X	W	
AckedTransitions	X	R	
NotifyType	X	W	
EventTimeStamps	X	R	
EventMessageTexts			
EventMessageTextsConfig			

EventDetectionEnable			
EventAlgorithmInhibitRef			
EventAlgorithmInhibit			
ReliabilityEvaluationInhibit			
PropertyList			
ProfileName			

6 Data Link Layer Options

	Description	
<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"/>	ATA 878.1, 2.5 Mb. ARCNET (Clause 8)	
<input type="checkbox"/>	ATA 878.1, EIA-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"/>	LonTalk, (Clause 11), medium	
<input type="checkbox"/>	BACnet/ZigBee (ANNEX O)	
<input type="checkbox"/>	Other	

7 Device Address Binding

Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.)

Yes No

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 Tunneling Router over IP
<input type="checkbox"/>	BACnet/IP Broadcast Management Device (BBMD)
<input type="checkbox"/>	the BBMD supports registrations by Foreign Devices
<input type="checkbox"/>	the BBMD support network address translation

9 Network Security Options

<input checked="" 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) <ul style="list-style-type: none"> <input type="checkbox"/> Multiple Application-Specific Keys: <input type="checkbox"/> Supports encryption (NS-ED BIBB) <input type="checkbox"/> Key Server (NS-KS BIBB)

10 Character Sets Supported

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

- ISO 10646 (UTF-8)
 IBM™/Microsoft™ DBCS
 ISO 8859-1
 ISO 10646 (UCS-2)
 ISO 10646 (UCS-4)
 JIS X 0208
 ANSI X3.4