

# BACnet Protocol Implementation Conformance Statement

## Products

Product	Model Number	Protocol Revision	Software Version	Firmware Version
WinCC Open Architecture BACnet		Vers. 1 Rev. 14	V 3.15	5.0

## Vendor Information

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## Product Description

WinCC OA BACnet is a BACnet-Client for Windows and Linux. It comprises the WinCC OA base product and the WinCC OA BACnet AddOn
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## BACnet Standardized Device Profile

Product	Device Profile	Tested
WinCC OA BACnet	BACnet Operator Workstation (B-OWS)	

## Supported BIBBs

Interoperability Area	Supported BIBBs	BIBB Name	
<b>Data Sharing</b>	DS-RP-A	Data Sharing-ReadProperty-A	
	DS-RP-B	Data Sharing ReadProperty-B	
	DS-RPM-A	Data Sharing-ReadPropertyMultiple-A	
	DS-RPM-B	Data Sharing ReadPropertyMultiple-B	
	DS-WP-A	Data Sharing-WriteProperty-A	
	DS-WPM-A	Data Sharing-WritePropertyMultiple-A	
	DS-V-A	Data Sharing-View-A	
	DS-M-A	Data Sharing-Modify-A	
	DS-COV-A	Data Sharing-COV-A	
	DS-COVU-A	Data Sharing-COV-Unsolicited-A	
<b>Alarm and Event Management</b>	AE-N-A	Alarm and Event-Notification-A	
	AE-ACK-A	Alarm and Event-ACK-A	
	AE-AS-A	Alarm and Event-Alarm Summary View-A	
	AE-VN-A	Alarm and Event-View Notification-A	
	AE-VM-A	Alarm and Event-View and Modify-A	
	AE-LS-A	Alarm and Event-LifeSafety-A	
<b>Scheduling</b>	SCHED-VM-A	Scheduling-View and Modify-A	
	SCHED-AVM-A	Scheduling-Advanced View and Modify-A	
<b>Trending</b>	T-ATR-A	Trending-Automated Trend Retrieval-A	
	T-V-A	Trending-View-A	
	T-AMVR-A	Trending-Automated Multiple Value Retrieval-A	
	T-A-A	Trending-Archival-A	
<b>Device and Network Management</b>	DM-DDB-A	Device Management-Dynamic Device Binding-A	
	DM-DDB-B	Device Management-Dynamic Device Binding-B	
	DM-DOB-B	Device Management-Dynamic Object Binding-B	
	DM-ANM-A	Device Management-Automatic Network Mapping-A	
	DM-ADM-A	Device Management-Automatic Device Mapping-A	
	DM-DCC-A	Device Management-DeviceCommunicationControl-A	
	DM-MTS-A	Device Management-Manual Time Synchronization-A	
	DM-RD-A	Device Management-ReinitializeDevice-A	
	DM-OCD-A	Device Management-Object Creation and Deletion-A	
	DM-LM-A	Device Management-List Manipulation-A	

## Standard Object Types Supported

Since the WinCC OA BACnet is an OWS the following list contains the objects, which are supported by the OWS and not the objects which may be present in the WinCC OA BACnet OWS. The WinCC OA BACnet only contains a Device object.

Object Type	Remark
Accumulator	
Analog Input	
Analog Output	
Analog Value	
Averaging	Limited to OWS profile <sup>1</sup>
Binary Input	
Binary Output	
Binary Value	
BitStringValue	Limited to OWS profile <sup>1</sup>
Calendar	
CharacterStringValue	Limited to OWS profile <sup>1</sup>
Command	Limited to OWS profile <sup>1</sup>
DateValue	Limited to OWS profile <sup>1</sup>
DatePatternValue	Limited to OWS profile <sup>1</sup>
DateTimeValue	Limited to OWS profile <sup>1</sup>
DateTimePatternValue	Limited to OWS profile <sup>1</sup>
Device	
Event Enrollment	Limited to OWS profile <sup>1</sup>
GlobalGroup	Limited to OWS profile <sup>1</sup>
IntegerValue	Limited to OWS profile <sup>1</sup>
LargeAnalogValue	Limited to OWS profile <sup>1</sup>
Life Safety Point	
Life Safety Zone	
Load Control	Limited to OWS profile <sup>1</sup>
Loop	Limited to OWS profile <sup>1</sup>
Multistate Input	
Multistate Output	
Multistate Value	
Notification Class	
OctetStringValue	Limited to OWS profile <sup>1</sup>
PositiveIntegerValue	Limited to OWS profile <sup>1</sup>
Program	
Pulse Converter	
Schedule	
TimeValue	Limited to OWS profile <sup>1</sup>
TimePatternValue	Limited to OWS profile <sup>1</sup>
Trend Log	
Trend Log Multiple	

<sup>1</sup> This object types are only supported to a level as required by BACnet specification OWS profile.

## Standard Services Supported

In the following table the BACnet services initiated and executed by WinCC OA BACnet OWS are listed.

Service	Initiate	Execute
AcknowledgeAlarm	X	
ConfirmedCOVNotification		X
ConfirmedEventNotification		X
GetAlarmSummary	X	
GetEnrollmentSummary	X	
SubscribeCOV	X	
AddListElement	X	
RemoveListElement	X	
CreateObject	X	
DeleteObject	X	
ReadProperty	X	X
ReadPropertyMultiple	X	X
WriteProperty	X	
WritePropertyMultiple	X	
DeviceCommunicationControl	X	
ReinitializeDevice	X	
I-Am	X	X
I-Have	X	X
UnconfirmedCOVNotification		X
UnconfirmedEventNotification		X
TimeSynchronization	X	
Who-Has		X
Who-Is	X	X
ReadRange	X	
UTCTimeSynchronization	X	
LifeSafetyOperation	X	
GetEventInformation	X	

### Data Link Layer Options

Product	Data Link	Options	
WinCC OA BACnet	BACnet/IP (Annex J)	Can communicate as a Direct BACnet/IP device. Can register as a Foreign BACnet/IP device.	

### Segmentation Capability

Product	Segmentation Type	Supported	Window Size (MS/TP product limited to 1)	
WinCC OA BACnet	Able to transmit segmented messages	Yes	Configurable	
	Able to receive segmented messages	Yes	Configurable	

### Device Address Binding

Product	Static Binding Supported	
WinCC OA BACnet	Yes	

### Networking Options

Product		Options	
WinCC OA BACnet	BACnet/IP Broadcast Management Device (BBMD)		

### Character Sets

Product	Character Sets supported	
WinCC OA BACnet	ANSI X3.4 (UTF-8)	
	ISO 8859-1	

## WinCC OA Device Object

Property Identifier	Property Datatype	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R
Object_Name	CharacterString	R
Object_Type	BACnetObjectType	R
System_Status	BACnetDeviceStatus	R
Vendor_Name	CharacterString	R
Vendor_Identifier	Unsigned16	R
Model_Name	CharacterString	R
Firmware_Revision	CharacterString	R
Application_Software_Version	CharacterString	R
Location	CharacterString	R
Description	CharacterString	R
Protocol_Version	Unsigned	R
Protocol_Revision	Unsigned	R
Protocol_Services_Supported	BACnetServicesSupported	R
Protocol_Object_Types_Supported	BACnetObjectTypes Supported	R
Object_List	BACnetARRAY[N]of BACnetObjectIdentifier	R
Max_APDU_Length_Accepted	Unsigned	R
Segmentation_Supported	BACnetSegmentation	R
Max_Segments_Accepted	Unsigned	R
Local_Time	Time	R
Local_Date	Date	R
UTC_Offset	INTEGER	R
Daylight_Savings_Status	BOOLEAN	R
APDU_Segment_Timeout	Unsigned	R
APDU_Timeout	Unsigned	R
Number_Of_APDU_Retries	Unsigned	R
Device_Address_Binding	List of BACnetAddressBinding	R
Database_Revision	Unsigned	R
Last_Restart_Reason	BACnetRestartReason	R
Time_of_Device_Restart	BACnetTimeStamp	R
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R

In the following the BACnet object types are listed, which are supported by the WinCC OA BACnet OWS. In the tables there is shown, which properties can be accessed and if Read or Write access is possible.

## Accumulator

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	Unsigned	R1	W
Description	CharacterString	O	R
Device_Type	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	O	R
Out_Of_Service	BOOLEAN	R	W
Scale	BACnetScale	R	W
Units	BACnetEngineeringUnits	R	R
Prescale	BACnetPrescale	O	W
Max_Pres_Value	Unsigned	R	W
Value_Change_Time	BACnetDateTime	O2	R
Value_Before_Change	Unsigned	O2,3	W
Value_Set	Unsigned	O2,3	W
Logging_Object	BACnetObjectIdentifier	O	R
Pulse_Rate	Unsigned	O1,4	W
High_Limit	Unsigned	O4	W
Low_Limit	Unsigned	O4	W
Limit_Monitoring_Interval	Unsigned	O4	W
Notification_Class	Unsigned	O4	W
Time_Delay	Unsigned	O4	W
Limit_Enable	BACnetLimitEnable	O4	W
Event_Enable	BACnetEventTransitionBits	O4	W
Acked_Transitions	BACnetEventTransitionBits	O4	R
Notify_Type	BACnetNotifyType	O4	R
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O4	R
Profile_Name	CharacterString	O	R

<sup>1</sup> This property is required to be writable when Out\_Of\_Service is TRUE.

<sup>2</sup> These properties are required if either Value\_Before\_Change or Value\_Set is writable.

<sup>3</sup> Either Value\_Before\_Change or Value\_Set may be writable, but not both.

<sup>4</sup> These properties are required if the object supports intrinsic reporting.

## Analog Input

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	REAL	R1	W
Description	CharacterString	O	R
Device_Type	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	O	R
Out_Of_Service	BOOLEAN	R	W
Update_Interval	Unsigned	O	W
Units	BACnetEngineeringUnits	R	R
Min_Pres_Value	REAL	O	W
Max_Pres_Value	REAL	O	W
Resolution	REAL	O	W
COV_Increment	REAL	O2	R
Time_Delay	Unsigned	O3	W
Notification_Class	Unsigned	O3	W
High_Limit	REAL	O3	W
Low_Limit	REAL	O3	W
Deadband	REAL	O3	W
Limit_Enable	BACnetLimitEnable	O3	W
Event_Enable	BACnetEventTransitionBits	O3	W
Acked_Transitions	BACnetEventTransitionBits	O3	R
Notify_Type	BACnetNotifyType	O3	R
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O3	R
Profile_Name	CharacterString	O	R

<sup>1</sup> This property is required to be writable when Out\_Of\_Service is TRUE.

<sup>2</sup> This property is required if the object supports COV reporting.

<sup>3</sup> These properties are required if the object supports intrinsic reporting.



## Analog Output

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	REAL	W	W
Description	CharacterString	O	R
Device_Type	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	O	R
Out_Of_Service	BOOLEAN	R	W
Units	BACnetEngineeringUnits	R	R
Min_Pres_Value	REAL	O	W
Max_Pres_Value	REAL	O	W
Resolution	REAL	O	W
Priority_Array	BACnetPriorityArray	R	R
Relinquish_Default	REAL	R	W
COV_Increment	REAL	O1	W
Time_Delay	Unsigned	O2	W
Notification_Class	Unsigned	O2	W
High_Limit	REAL	O2	W
Low_Limit	REAL	O2	W
Deadband	REAL	O2	W
Limit_Enable	BACnetLimitEnable	O2	W
Event_Enable	BACnetEventTransitionBits	O2	W
Acked_Transitions	BACnetEventTransitionBits	O2	R
Notify_Type	BACnetNotifyType	O2	R
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O2	R
Profile_Name	CharacterString	O	R

<sup>1</sup> This property is required if the object supports COV reporting.

<sup>2</sup> These properties are required if the object supports intrinsic reporting.

## Analog Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	REAL	R4	W
Description	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	O	R
Out_Of_Service	BOOLEAN	R	W
Units	BACnetEngineeringUnits	R	R
Priority_Array	BACnetPriorityArray	O1	R
Relinquish_Default	REAL	O1	W
COV_Increment	REAL	O2	W
Time_Delay	Unsigned	O3	W
Notification_Class	Unsigned	O3	W
High_Limit	REAL	O3	W
Low_Limit	REAL	O3	W
Deadband	REAL	O3	W
Limit_Enable	BACnetLimitEnable	O3	W
Event_Enable	BACnetEventTransitionBits	O3	W
Acked_Transitions	BACnetEventTransitionBits	O3	R
Notify_Type	BACnetNotifyType	O3	R
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O3	R
Profile_Name	CharacterString	O	R

1 If Present\_Value is commandable, then both of these properties shall be present.

2 This property is required if the object supports COV reporting.

3 These properties are required if the object supports intrinsic reporting.

4 If Present\_Value is commandable, then it is required to be writable. This property is required to be writable when Out\_Of\_Service is TRUE.

## Binary Input

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	BACnetBinaryPV	R1	W
Description	CharacterString	O	R
Device_Type	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	O	R
Out_Of_Service	BOOLEAN	R	W
Polarity	BACnetPolarity	R	R
Inactive_Text	CharacterString	O2	R
Active_Text	CharacterString	O2	R
Change_Of_State_Time	BACnetDateTime	O3	R
Change_Of_State_Count	Unsigned	O3	W
Time_Of_State_Count_Reset	BACnetDateTime	O3	R
Elapsed_Active_Time	Unsigned32	O4	W
Time_Of_Active_Time_Reset	BACnetDateTime	O4	R
Time_Delay	Unsigned	O5	W
Notification_Class	Unsigned	O5	W
Alarm_Value	BACnetBinaryPV	O5	R
Event_Enable	BACnetEventTransitionBits	O5	W
Acked_Transitions	BACnetEventTransitionBits	O5	R
Notify_Type	BACnetNotifyType	O5	R
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O5	R
Profile_Name	CharacterString	O	R

1 This property is required to be writable when Out\_Of\_Service is TRUE.

2 If one of the optional properties Inactive\_Text or Active\_Text is present, then both of these properties shall be present.

3 If one of the optional properties Change\_Of\_State\_Time, Change\_Of\_State\_Count, or Time\_Of\_State\_Count\_Reset is present, then all of these properties shall be present.

4 If one of the optional properties Elapsed\_Active\_Time or Time\_Of\_Active\_Time\_Reset is present, then both of these properties shall be present.

5 These properties are required if the object supports intrinsic reporting.

## Binary Output

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	BACnetBinaryPV	W	W
Description	CharacterString	O	R
Device_Type	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	O	R
Out_Of_Service	BOOLEAN	R	W
Polarity	BACnetPolarity	R	R
Inactive_Text	CharacterString	O1	R
Active_Text	CharacterString	O1	R
Change_Of_State_Time	BACnetDateTime	O2	R
Change_Of_State_Count	Unsigned	O2	W
Time_Of_State_Count_Reset	BACnetDateTime	O2	R
Elapsed_Active_Time	Unsigned32	O3	W
Time_Of_Active_Time_Reset	BACnetDateTime	O3	R
Minimum_Off_Time	Unsigned32	O	W
Minimum_On_Time	Unsigned32	O	W
Priority_Array	BACnetPriorityArray	R	R
Relinquish_Default	BACnetBinaryPV	R	W
Time_Delay	Unsigned	O4	W
Notification_Class	Unsigned	O4	W
Feedback_Value	BACnetBinaryPV	O4	R
Event_Enable	BACnetEventTransitionBits	O4	W
Acked_Transitions	BACnetEventTransitionBits	O4	R
Notify_Type	BACnetNotifyType	O4	R
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O4	R
Profile_Name	CharacterString	O	R

1 If one of the optional properties Inactive\_Text or Active\_Text is present, then both of these properties shall be present.

2 If one of the optional properties Change\_Of\_State\_Time, Change\_Of\_State\_Count, or Time\_Of\_State\_Count\_Reset is present, then all of these properties shall be present.

3 If one of the optional properties Elapsed\_Active\_Time or Time\_Of\_Active\_Time\_Reset is present, then both of these properties shall be present.

4 These properties are required if the object supports intrinsic reporting.

## Binary Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	BACnetBinaryPV	R1	W
Description	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	O	R
Out_Of_Service	BOOLEAN	R	W
Inactive_Text	CharacterString	O2	R
Active_Text	CharacterString	O2	R
Change_Of_State_Time	BACnetDateTime	O3	R
Change_Of_State_Count	Unsigned	O3	W
Time_Of_State_Count_Reset	BACnetDateTime	O3	R
Elapsed_Active_Time	Unsigned32	O4	W
Time_Of_Active_Time_Reset	BACnetDateTime	O4	R
Minimum_Off_Time	Unsigned32	O	W
Minimum_On_Time	Unsigned32	O	W
Priority_Array	BACnetPriorityArray	O5	R
Relinquish_Default	BACnetBinaryPV	O5	W
Time_Delay	Unsigned	O6	W
Notification_Class	Unsigned	O6	W
Alarm_Value	BACnetBinaryPV	O6	R
Event_Enable	BACnetEventTransitionBits	O6	W
Acked_Transitions	BACnetEventTransitionBits	O6	R
Notify_Type	BACnetNotifyType	O6	R
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O6	R
Profile_Name	CharacterString	O	R

1 If Present\_Value is commandable, then it is required to be writable. This property is required to be writable when

Out\_Of\_Service is TRUE.

2 If one of the optional properties Inactive\_Text or Active\_Text is present, then both of these properties shall be present.

3 If one of the optional properties Change\_Of\_State\_Time, Change\_Of\_State\_Count, or Time\_Of\_State\_Count\_Reset is

present, then all of these properties shall be present.

4 If one of the optional properties Elapsed\_Active\_Time or Time\_Of\_Active\_Time\_Reset is present, then both of these

properties shall be present.

5 If Present\_Value is commandable, then both of these properties shall be present.

6 These properties are required if the object supports intrinsic reporting.

## Calendar

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	BOOLEAN	R	R
Date_List	List of BACnetCalendarEntry	R	W
Profile_Name	CharacterString	O	R

## Device

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
System_Status	BACnetDeviceStatus	R	R
Vendor_Name	CharacterString	R	R
Vendor_Identifier	Unsigned16	R	R
Model_Name	CharacterString	R	R
Firmware_Revision	CharacterString	R	R
Application_Software_Version	CharacterString	R	R
Location	CharacterString	O	R
Description	CharacterString	O	R
Protocol_Version	Unsigned	R	R
Protocol_Revision	Unsigned	R	R
Protocol_Services_Supported	BACnetServicesSupported	R	R
Protocol_Object_Types_Supported	BACnetObjectTypes Supported	R	R
Object_List	BACnetARRAY[N]of BACnetObjectIdentifier	R	R
Max_APDU_Length_Accepted	Unsigned	R	R
Segmentation_Supported	BACnetSegmentation	R	R
Max_Segments_Accepted	Unsigned	O1	R
VT_Classes_Supported	List of BACnetVTClass	O2	R
Active_VT_Sessions	List of BACnetVTSession	O2	R
Local_Time	Time	O3,4	R
Local_Date	Date	O3,4	R
UTC_Offset	INTEGER	O4	R
Daylight_Savings_Status	BOOLEAN	O4	W
APDU_Segment_Timeout	Unsigned	O1	R
APDU_Timeout	Unsigned	R	R
Number_Of_APDU_Retries	Unsigned	R	R
Time_Synchronization_Recipients	List of BACnetRecipient	O5	R
Max_Master	Unsigned(1..127)	O6	R
Max_Info_Frames	Unsigned	O6	R
Device_Address_Binding	List of BACnetAddressBinding	R	R
Database_Revision	Unsigned	R	R
Configuration_Files	BACnetARRAY[N] of BACnetObjectIdentifier	O7	R
Last_Restore_Time	BACnetTimeStamp	O7	R
Backup_Failure_Timeout	Unsigned16	O8	R
Last_Restart_Reason	BACnetRestartReason	O13	R
Time_of_Device_Restart	BACnetTimeStamp	O13	R
Restart_Notification_Recipients	List of BACnetRecipient	O13	R
Profile_Name	CharacterString	O	R

1 Required if segmentation of any kind is supported.

2 If one of the properties VT\_Classes\_Supported or Active\_VT\_Sessions is present, then both of these properties shall be present. Both properties are required if support for VT Services is indicated in the PICS.

3 If the device supports the execution of the TimeSynchronization service, then these properties shall be present.

4 If the device supports the execution of the UTCTimeSynchronization service, then these properties shall be present.

5 If this property is present, then Time\_Synchronization\_Interval, Align\_Intervals and Interval\_Offset shall be present. If present, this property shall be writable.

6 These properties are required if the device is an MS/TP master node.

7 These properties are required if the device supports the backup and restore procedures.

8 This property must be present and writable if the device supports the backup and restore procedures.

9 This property is required if the device supports execution of either the SubscribeCOV or SubscribeCOVProperty service.

10 This property shall be present and writable if the device is capable of being a Slave-Proxy device.

11 This property shall be present if the device is capable of being a Slave-Proxy device that implements automatic discovery of slaves.

12 This property shall be present if the device is capable of being a Slave-Proxy device.

13 These properties are required if the device supports the restart procedure as described in Clause 19.3.

14 If either Time\_Synchronization\_Recipients or UTC\_Time\_Synchronization\_Recipients is present, then this property shall be present and writable.



## Life Safety Point

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	BACnetLifeSafetyState	R	R
Tracking_Value	BACnetLifeSafetyState	R1	W
Description	CharacterString	O	R
Device_Type	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	R1	R
Out_Of_Service	BOOLEAN	R	W
Mode	BACnetLifeSafetyMode	W	W
Accepted_Modes	List of BACnetLifeSafetyMode	R	W
Time_Delay	Unsigned	O2	W
Notification_Class	Unsigned	O2	W
Life_Safety_Alarm_Values	List of BACnetLifeSafetyState	O2	W
Alarm_Values	List of BACnetLifeSafetyState	O2	W
Fault_Values	List of BACnetLifeSafetyState	O2	W
Event_Enable	BACnetEventTransitionBits	O2	W
Acked_Transitions	BACnetEventTransitionBits	O2	R
Notify_Type	BACnetNotifyType	O2	R
Event_Time_Stamps	BACnetARRAY [3] of BACnetTimeStamp	O2	R
Silenced	BACnetSilencedState	R	W
Operation_Expected	BACnetLifeSafetyOperation	R	W
Maintenance_Required	BACnetMaintenance	O	W
Setting	Unsigned8	O	W
Direct_Reading	REAL	O3	W
Units	BACnetEngineeringUnits	O3	R
Member_Of	List of BACnetDeviceObjectReference	O	R
Profile_Name	CharacterString	O	R

1 These properties are required to be writable when Out\_Of\_Service is TRUE.

2 These properties are required if the object supports intrinsic alarming.

3 If either of these properties is present, then both must be present.

## Life Safety Zone

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	BACnetLifeSafetyState	R	R
Tracking_Value	BACnetLifeSafetyState	R1	W
Description	CharacterString	O	R
Device_Type	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	R1	R
Out_Of_Service	BOOLEAN	R	W
Mode	BACnetLifeSafetyMode	W	W
Accepted_Modes	List of BACnetLifeSafetyMode	R	W
Time_Delay	Unsigned	O2	W
Notification_Class	Unsigned	O2	W
Life_Safety_Alarm_Values	List of BACnetLifeSafetyState	O2	W
Alarm_Values	List of BACnetLifeSafetyState	O2	W
Fault_Values	List of BACnetLifeSafetyState	O2	W
Event_Enable	BACnetEventTransitionBits	O2	W
Acked_Transitions	BACnetEventTransitionBits	O2	R
Notify_Type	BACnetNotifyType	O2	R
Event_Time_Stamps	BACnetARRAY [3] of BACnetTimeStamp	O2	R
Silenced	BACnetSilencedState	R	W
Operation_Expected	BACnetLifeSafetyOperation	R	W
Maintenance_Required	BOOLEAN	O	W
Zone_Members	List of BACnetDeviceObjectReference	R	R
Member_Of	List of BACnetDeviceObjectReference	O	R
Profile_Name	CharacterString	O	R

1 These properties are required to be writable when Out\_Of\_Service is TRUE.

2 These properties are required if the object supports intrinsic alarming.

## Multi-state Input

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	Unsigned	R1	W
Description	CharacterString	O	R
Device_Type	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	O <sup>2</sup>	R
Out_Of_Service	BOOLEAN	R	W
Number_of_States	Unsigned	R	W
State_Text	BACnetARRAY[N] of CharacterString	O	W
Time_Delay	Unsigned	O3	W
Notification_Class	Unsigned	O3	W
Alarm_Values	List of Unsigned	O3	R
Fault_Values	List of Unsigned	O3	R
Event_Enable	BACnetEventTransitionBits	O3	W
Acked_Transitions	BACnetEventTransitionBits	O3	R
Notify_Type	BACnetNotifyType	O3	R
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O3	R
Profile_Name	CharacterString	O	R

<sup>1</sup> This property is required to be writable when Out\_Of\_Service is TRUE.

<sup>2</sup> This property shall be required if Fault\_Values is present.

<sup>3</sup> These properties are required if the object supports intrinsic reporting.

## Multi-state Output

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	Unsigned	W	W
Description	CharacterString	O	R
Device_Type	CharacterString	O	W
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	O	R
Out_Of_Service	BOOLEAN	R	W
Number_Of_States	Unsigned	R	W
State_Text	BACnetARRAY[N] of CharacterString	O	W
Priority_Array	BACnetPriorityArray	R	R
Relinquish_Default	Unsigned	R	W
Time_Delay	Unsigned	O1	W
Notification_Class	Unsigned	O1	W
Feedback_Value	Unsigned	O1	W
Event_Enable	BACnetEventTransitionBits	O1	W
Acked_Transitions	BACnetEventTransitionBits	O1	R
Notify_Type	BACnetNotifyType	O1	R
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O1	R
Profile_Name	CharacterString	O	R

1 These properties are required if the object supports intrinsic reporting.

## Multi-state Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	Unsigned	R1	W
Description	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	O2	R
Out_Of_Service	BOOLEAN	R	W
Number_Of_States	Unsigned	R	W
State_Text	BACnetARRAY[N] of CharacterString	O	W
Priority_Array	BACnetPriorityArray	O3	R
Relinquish_Default	Unsigned	O3	W
Time_Delay	Unsigned	O4	W
Notification_Class	Unsigned	O4	W
Alarm_Values	List of Unsigned	O4	R
Fault_Values	List of Unsigned	O4	R
Event_Enable	BACnetEventTransitionBits	O4	W
Acked_Transitions	BACnetEventTransitionBits	O4	R
Notify_Type	BACnetNotifyType	O4	R
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O4	R
Profile_Name	CharacterString	O	R

<sup>1</sup> If Present\_Value is commandable, then it is required to also be writable. This property is required to be writable

when Out\_Of\_Service is TRUE.

<sup>2</sup> This property shall be required if Fault\_Values is present.

<sup>3</sup> If Present\_Value is commandable, then both of these properties shall be present.

<sup>4</sup> These properties are required if the object supports intrinsic reporting.

## Notification Class

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Notification_Class	Unsigned	R	R
Priority	BACnetARRAY[3] of Unsigned	R	W
Ack_Required	BACnetEventTransitionBits	R	W
Recipient_List	List of BACnetDestination	R	W
Profile_Name	CharacterString	O	R

## Program

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Program_State	BACnetProgramState	R	R
Program_Change	BACnetProgramRequest	W	W
Reason_for_Halt	BACnetProgramError	O1	R
Description_Of_Halt	CharacterString	O1	R
Program_Location	CharacterString	O	R
Description	CharacterString	O	R
Instance_Of	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Reliability	BACnetReliability	O	R
Out_of_Service	BOOLEAN	R	W
Profile_Name	CharacterString	O	R

1 If one of the optional properties Reason\_For\_Halt or Description\_Of\_Halt is present, then both of these properties shall be present.

## Pulse Converter

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	REAL	R1	W
Input_Reference	BACnetObjectProperty Reference	O	W
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	O	R
Out_Of_Service	BOOLEAN	R	W
Units	BACnetEngineeringUnits	R	R
Scale_Factor	REAL	R	W
Adjust_Value	REAL	W	W
Count	Unsigned	R	R
Update_Time	BACnetDateTime	R	R
Count_Change_Time	BACnetDateTime	R	R
Count_Before_Change	Unsigned	R	R
COV_Increment	REAL	O2	R
COV_Period	Unsigned	O2	W
Notification_Class	Unsigned	O3	W
Time_Delay	Unsigned	O3	W
High_Limit	REAL	O3	W
Low_Limit	REAL	O3	W
Deadband	REAL	O3	W
Limit_Enable	BACnetLimitEnable	O3	W
Event_Enable	BACnetEventTransitionBits	O3	W
Acked_Transitions	BACnetEventTransitionBits	O3	R
Notify_Type	BACnetNotifyType	O3	R
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O3	R
Profile_Name	CharacterString	O	R

1 This property is required to be writable when Out\_Of\_Service is TRUE.

2 These properties are required if Count\_Before\_Change is writable.

3 These properties are required if the object supports COV reporting.

4 These properties are required if the object supports intrinsic reporting.

## Schedule

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	Any	R	R
Description	CharacterString	O	R
Effective_Period	BACnetDateRange	R	W
Weekly_Schedule	BACnetARRAY[7]of BACnetDailySchedule	O1	W
Exception_Schedule	BACnetARRAY[N]of BACnetSpecialEvent	O1	W
Schedule_Default	Any	R	W
List_Of_Object_Property_References	List of BACnetDeviceObject PropertyReference	R	W
Priority_For_Writing	Unsigned(1..16)	R	W
Status_Flags	BACnetStatusFlags	R	R
Reliability	BACnetReliability	R	R
Out_Of_Service	BOOLEAN	R	W
Profile_Name	CharacterString	O	R

1 At least one of these properties is required.



## Trend Log

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Enable	BOOLEAN	W	W
Start_Time	BACnetDateTime	O1,2	W
Stop_Time	BACnetDateTime	O1,2	W
Log_DeviceObject Property	BACnetDeviceObject PropertyReference	O1	W
Log_Interval	Unsigned	O1,3	W
COV_Resubscription_Interval	Unsigned	O	R
Client_COV_Increment	BACnetClientCOV	O	R
Stop_When_Full	BOOLEAN	R	W
Buffer_Size	Unsigned32	R	W
Log_Buffer	List of BACnetLogRecord	R	R
Record_Count	Unsigned32	W	W
Total_Record_Count	Unsigned32	R	R
Notification_Threshold	Unsigned32	O4	W
Records_Since_Notification	Unsigned32	O4	R
Last_Notify_Record	Unsigned32	O4	R
Event_State	BACnetEventState	R	R
Notification_Class	Unsigned	O4	W
Event_Enable	BACnetEventTransitionBits	O4	W
Acked_Transitions	BACnetEventTransitionBits	O4	R
Notify_Type	BACnetNotifyType	O4	R
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O4	R
Profile_Name	CharacterString	O	R
Logging_Type	BACnetLoggingType	R	W
Align_Intervals	BOOLEAN	O5	W
Interval_Offset	Unsigned	O5	W
Trigger	BOOLEAN	O	W
Status_Flags	BACnetStatusFlags	R	R
Reliability	BACnetReliability	O	R

<sup>1</sup> These properties are required to be present if the monitored property is a BACnet property.

<sup>2</sup> If present, these properties are required to be writable.

<sup>3</sup> If present, this property is required to be writable when Logging\_Type has the value POLLED or the value COV.

Also, if present this property is required to be read-only if Logging\_Type has the value TRIGGERED.

<sup>4</sup> These properties are required to be present if the object supports intrinsic reporting.

<sup>5</sup> These properties are required to be present if the object supports clock-aligned logging.

## Averaging

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Minimum_Value	REAL	R	R
Average_Value	REAL	R	R
Maximum_Value	REAL	R	R
Description	CharacterString	O	R
Profile_Name	CharacterString	O	R

<sup>1</sup> If any of these properties are written to using BACnet services, then all of the buffer samples shall become invalid, 'Attempted\_Samples' shall become zero, 'Valid\_Samples' shall become zero, 'Minimum\_Value' shall become INF, 'Average\_Value' shall become NaN and 'Maximum\_Value' shall become -INF.

## Command

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	Unsigned	W	W
In_Process	BOOLEAN	R	R
All_Writes_Successful	BOOLEAN	R	R
Profile_Name	CharacterString	O	R

## EventEnrollment

Property Identifier	Property Identifier	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Event_Type	BACnetEventType	R	W
Notify_Type	BACnetNotifyType	R	R
Event_Parameters	BACnetEventParameter	R	W
Object_Property_Reference	BACnetDeviceObjectPropertyReference	R	R
Event_State	BACnetEventState	R	R
Profile_Name	CharacterString	O	R

<sup>1</sup> This property, if present, is required to be read-only.

<sup>2</sup> Event\_Algorithm\_Inhibit shall be present if Event\_Algorithm\_Inhibit\_Ref is

<sup>3</sup> These properties are required if, and shall be present only if, the object supports fault algorithms other than NONE.

## Global Group

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R

## Loop

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Present_Value	REAL	R7	W
Description	CharacterString	O	R
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	O7	R
Out_Of_Service	BOOLEAN	R	R
Setpoint	REAL	R	W
Error_Limit	REAL	O5,8	W
Profile_Name	CharacterString	O	R

- 1 If one of these optional properties is present, then both of these properties shall be present.
- 2 If one of these optional properties is present, then both of these properties shall be present.
- 3 If one of these optional properties is present, then both of these properties shall be present.
- 4 This property is required if, and shall be present only if, the object supports COV reporting.
- 5 These properties are required if the object supports intrinsic reporting.
- 6 This property, if present, is required to be read-only.
- 7 These properties are required to be writable when Out\_Of\_Service is TRUE.
- 8 These properties shall be present only if the object supports intrinsic reporting.
- 9 Event\_Algorithm\_Inhibit shall be present if Event\_Algorithm\_Inhibit\_Ref is present.
- 10 If this property is **present**, then the Reliability property shall be present.

## Load Control

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	BACnetShedState	R	W
State_Description	CharacterString	O	W
Status_Flags	BACnetStatusFlags	R	R
Event_State	BACnetEventState	R	R
Reliability	BACnetReliability	O	R
Profile_Name	CharacterString	O	R

1 The elements of this array are required to be writable, although the array is not required to be resizable.

2 These properties are required if the object supports intrinsic reporting.

3 This property, if present, is required to be read-only.

4 These properties shall be present only if the object supports intrinsic reporting.

5 Event\_Algorithm\_Inhibit shall be present if Event\_Algorithm\_Inhibit\_Ref is present.

6 If this property is present, then the Reliability property shall be present.

## Trend Log Multiple

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Enable	BOOLEAN	W	W
Start_Time	BACnetDateTime	O1,2	W
Stop_Time	BACnetDateTime	O1,2	W
Log_DeviceObject Property	BACnetDeviceObject PropertyReference	O1	W
Log_Interval	Unsigned	O1,3	W
Stop_When_Full	BOOLEAN	R	W
Buffer_Size	Unsigned32	R	W
Log_Buffer	List of BACnetLogRecord	R	R
Record_Count	Unsigned32	W	W
Total_Record_Count	Unsigned32	R	R
Notification_Threshold	Unsigned32	O4	W
Records_Since_Notification	Unsigned32	O4	R
Last_Notify_Record	Unsigned32	O4	R
Event_State	BACnetEventState	R	R
Notification_Class	Unsigned	O4	W
Event_Enable	BACnetEventTransitionBits	O4	W
Acked_Transitions	BACnetEventTransitionBits	O4	R
Notify_Type	BACnetNotifyType	O4	R
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O4	R
Profile_Name	CharacterString	O	R
Logging_Type	BACnetLoggingType	R	W
Align_Intervals	BOOLEAN	O5	W
Interval_Offset	Unsigned	O5	W
Trigger	BOOLEAN	O	W
Status_Flags	BACnetStatusFlags	R	R
Reliability	BACnetReliability	O	R

1 These properties are required to be present if the monitored property is a BACnet property.

2 If present, these properties are required to be writable.

3 If present, this property is required to be writable when Logging\_Type has the value POLLED or the value COV.

Also, if present this property is required to be read-only if Logging\_Type has the value TRIGGERED.

4 These properties are required to be present if the object supports intrinsic reporting.

5 These properties are required to be present if the object supports clock-aligned logging.

## CharacterString Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	CharacterString	R	W
Status_Flags	BACnetStatusFlags	R	R
Out_Of_Service	BOOLEAN	R	W
Event_State	BACnetEventState	R	R

## BitString Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	BACnetBitString	R	W
Status_Flags	BACnetStatusFlags	R	R
Out_Of_Service	BOOLEAN	R	W
Event_State	BACnetEventState	R	R

## OctetString Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	OctetString	R	W
Status_Flags	BACnetStatusFlags	R	R
Out_Of_Service	BOOLEAN	R	W
Event_State	BACnetEventState	R	R

## Date Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	Date	R	W
Status_Flags	BACnetStatusFlags	R	R
Out_Of_Service	BOOLEAN	R	W
Event_State	BACnetEventState	R	R

## DatePattern Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	Date	R	W
Status_Flags	BACnetStatusFlags	R	R
Out_Of_Service	BOOLEAN	R	W
Event_State	BACnetEventState	R	R

## DateTime Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	BACnetDateTime	R	W
Status_Flags	BACnetStatusFlags	R	R
Out_Of_Service	BOOLEAN	R	W
Event_State	BACnetEventState	R	R

## DateTimePattern Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	BACnetDateTime	R	W
Status_Flags	BACnetStatusFlags	R	R
Out_Of_Service	BOOLEAN	R	W
Event_State	BACnetEventState	R	R

## Integer Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	Integer	R	W
Status_Flags	BACnetStatusFlags	R	R
Out_Of_Service	BOOLEAN	R	W
Event_State	BACnetEventState	R	R
Units	BACnetUnits	R	R

## Large Analog Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	DOUBLE	R	W
Status_Flags	BACnetStatusFlags	R	R
Out_Of_Service	BOOLEAN	R	W
Event_State	BACnetEventState	R	R
Units	BACnetUnits	R	R

## Positive Integer Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	UNSIGNED	R	W
Status_Flags	BACnetStatusFlags	R	R
Out_Of_Service	BOOLEAN	R	W
Event_State	BACnetEventState	R	R
Units	BACnetUnits	R	R

## Time Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	Time	R	W
Status_Flags	BACnetStatusFlags	R	R
Out_Of_Service	BOOLEAN	R	W
Event_State	BACnetEventState	R	R

## TimePattern Value

Property Identifier	Property Datatype	Conformance Code	WinCC OA
Object_Identifier	BACnetObjectIdentifier	R	R
Object_Name	CharacterString	R	R
Object_Type	BACnetObjectType	R	R
Description	CharacterString	O	R
Present_Value	Time	R	W
Status_Flags	BACnetStatusFlags	R	R
Out_Of_Service	BOOLEAN	R	W
Event_State	BACnetEventState	R	R