



750-8212/000-100
BACnet Protocol Implementation Conformance
Statement (PICS)

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Every conceivable measure has been taken to ensure the accuracy and completeness of this documentation. However, as errors can never be fully excluded, we always appreciate any information or suggestions for improving the documentation.

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1 BACnet Protocol Implementation Conformance Statement

Date: 04.07.2019
Vendor Name: WAGO Kontakttechnik GmbH & Co. KG
Product Model Number/
Product Name: 750-8212/0000-0100
PFC200 G2 2ETH RS BACnet/IP
Applications Software Version: ---
Firmware Revision: 03.01.07(13)
BACnet Protocol Revision: 1 Rev. 14

1.1 Product Description

The BACnet Controller provides access to BACnet-networks acting either as a BACnet-Client or as a BACnet-Server.

BACnet Standardized Device Profile (Annex L):

- BACnet Operator Workstation (B-OWS)
- BACnet Building Controller (B-BC)
- BACnet Advanced Application Controller (B-AAC)
- BACnet Application Specific Controller (B-ASC)
- BACnet Smart Sensor (B-SS)
- BACnet Smart Actuator (B-SA)

1.2 List all BACnet Interoperability Building Blocks Supported (Annex K)

1.2.1 Data-Sharing BIBBs

Data Sharing-Read Property-A	DS-RP-A
Data Sharing-Read Property-B	DS-RP-B
Data Sharing-Read Property Multiple-A	DS-RPM-A
Data Sharing-Read Property Multiple-B	DS-RPM-B
Data Sharing-Write Property-A	DS-WP-A
Data Sharing-Write Property-B	DS-WP-B
Data Sharing-Write Property Multiple-B	DS-WPM-B
Data Sharing-COV-A	DS-COV-A
Data Sharing-COV-B	DS-COV-B
Data Sharing-COVP-A	DS-COVP-A
Data Sharing-COVP-B	DS-COVP-B

1.2.2 Alarm and Event BIBBs

Alarm and Event-Notification-Internal-B	AE-N-I-B
Alarm and Event-Notification-External-B	AE-N-E-B
Alarm and Event-Acknowledge-B	AE-ACK-B
Alarm and Event-Information-B	AE-INFO-B
Alarm and Event-Alarm Summary-B	AE-ASUM-B
Alarm and Event-Enrollment Summary-B	AE-ESUM-B
Alarm and Event-Event Log-Internal-B	AE-EL-I-B

1.2.3 Scheduling BIBBs

Scheduling-Internal-B	SCHEM-I-B
Scheduling-External-B	SCHEM-E-B

1.2.4 Trending BIBBs

Trending-Viewing and Modifying Trends Internal-B	T-VMT-I-B
Trending-Viewing and Modifying Trends External-B	T-VMT-E-B
Trending-Automated Trend Retrieval-B	T-ATR-B
Trending-Viewing and Modifying Multiple Values-Internal-B	T-VMMV-I-B
Trending-Viewing and Modifying Multiple Values-External-B	T-VMMV-E-B
Trending-Automated Multiple Value Retrieval-B	T-AMVR-B

1.2.5 Device Management BIBBs

Device Management-Dynamic Device Binding-A	DM-DDB-A
Device Management-Dynamic Device Binding-B	DM-DDB-B
Device Management-Dynamic Object Binding-B	DM-DOB-B
Device Management-DeviceCommunicationControl-B	DM-DCC-B
Device Management-Restart-A	DM-R-A
Device Management-Restart-B	DM-R-B
Device Management-TimeSynchronization-B	DM-TS-B
Device Management-UTCTimeSynchronization-B	DM-UTC-B
Device Management-ReinitializeDevice-B	DM-RD-B
Device Management-Backup and Restore-B	DM-BR-B
Device Management-List Manipulation-B	DM-LM-B
Device Management-Object Creation and Deletion-B	DM-OCD-B

1.3 Segmentation Capability

- | | | |
|-------------------------------------|-------------------------------|----------------|
| <input checked="" type="checkbox"/> | Segmented requests supported | Window Size 16 |
| <input checked="" type="checkbox"/> | Segmented responses supported | Window Size 16 |

1.4 Standard Object Types Supported



Note

The following Property Range Restriction applies to all properties with Property Datatype “CharacterString”:

Depending on the UTF-8 character between 25 and 255 characters. The default characterstring in PLC Application has a length of 50 characters.

1.4.1 Accumulator

Dynamically Creatable: No
Dynamically Deletable: No
Proprietary Properties: (519) “Prop_Pulse_Value_Source”

Table 1: Accumulator

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Present_Value	Unsigned	R ¹	R ¹	
Description	CharacterString	O	W	See note, page 8
Device_Type	CharacterString	O	W	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	W	
Out_Of_Service	BOOLEAN	R	W	
Scale	BACnetScale	R	W	
Units	BACnetEngineeringUnits	R	W	
Prescale	BACnetPrescale	O	W	
Max_Pres_Value	Unsigned	R	R	
Value_Change_Time	BACnetDateTime	O ²	R	
Value_Before_Change	Unsigned	O ^{2,3}	R	
Value_Set	Unsigned	O ^{2,3}	W	
Logging_Record	BACnetAccumulatorRecord	O	R	
Logging_Object	BACnetObjectIdentifier	O	R	
Pulse_Rate	Unsigned	O ^{1,4,7}	R	
High_Limit	Unsigned	O ^{4,6}	W	
Low_Limit	Unsigned	O ^{4,6}	W	
Limit_Monitoring_Interval	Unsigned	O ^{4,7}	W	
Notification_Class	Unsigned	O ^{4,6}	W	
Time_Delay	Unsigned	O ^{4,6}	W	
Limit_Enable	BACnetLimitEnable	O ^{4,6}	W	
Event_Enable	BACnetEventTransitionBits	O ^{4,6}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{4,6}	R	
Notify_Type	BACnetNotifyType	O ^{4,6}	W	

Table 1: Accumulator

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{4,6}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{5,6}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁶	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{4,6}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁶	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{6,8}	W	
Time_Delay_Normal	Unsigned	O ⁶	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁹	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8
Prop_Pulse_Value_Source	Device Object Property Reference	Proprietary	W	

- 1 This property is required to be writable when Out_Of_Service is TRUE.
- 2 These properties are required if either Value_Before_Change or Value_Set is writable.
- 3 Either Value_Before_Change or Value_Set may be writable, but not both.
- 4 These properties are required if the object supports intrinsic reporting.
- 5 This property, if present, is required to be read_only.
- 6 These properties shall be present only if the object supports intrinsic reporting.
- 7 If one of these properties is present, then both shall be present.
- 8 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 9 If this property is present, then the Reliability property shall be present.

1.4.2 Analog Input

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 2: Analog Input

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Present_Value	REAL	R ¹	R ¹	
Description	CharacterString	O	W	See note, page 8
Device_Type	CharacterString	O	W	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	W	
Out_Of_Service	BOOLEAN	R	W	
Update_Interval	Unsigned	O	R	
Units	BACnetEngineeringUnits	R	W	
Min_Pres_Value	REAL	O	R	
Max_Pres_Value	REAL	O	R	
Resolution	REAL	O	R	
COV_Increment	REAL	O ²	W	
Time_Delay	Unsigned	O ^{3,5}	W	
Notification_Class	Unsigned	O ^{3,5}	W	
High_Limit	REAL	O ^{3,5}	W	
Low_Limit	REAL	O ^{3,5}	W	
Deadband	REAL	O ^{3,5}	W	
Limit_Enable	BACnetLimitEnable	O ^{3,5}	W	
Event_Enable	BACnetEventTransitionBits	O ^{3,5}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{3,5}	R	
Notify_Type	BACnetNotifyType	O ^{3,5}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{3,5}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{4,5}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁵	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{3,5}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁵	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{5,6}	W	
Time_Delay_Normal	Unsigned	O ⁵	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁷	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8

Table 2: Analog Input

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
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- 1 This property is required to be writable when Out_Of_Service is TRUE.
- 2 This property is required if, and shall be present only if, the object supports COV reporting.
- 3 These properties are required if the object supports intrinsic reporting.
- 4 This property, if present, is required to be read_only.
- 5 These properties shall be present only if the object supports intrinsic reporting.
- 6 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 7 If this property is present, then the Reliability property shall be present.

1.4.3 Analog Output

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 3: Analog Output

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Present_Value	REAL	W	W	
Description	CharacterString	O	W	See note, page 8
Device_Type	CharacterString	O	W	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	W	
Out_Of_Service	BOOLEAN	R	W	
Units	BACnetEngineeringUnits	R	W	
Min_Pres_Value	REAL	O	R	
Max_Pres_Value	REAL	O	R	
Resolution	REAL	O	R	
Priority_Array	BACnetPriorityArray	R	R	
Relinquish_Default	REAL	R	W	
COV_Increment	REAL	O ¹	W	
Time_Delay	Unsigned	O ^{2,4}	W	
Notification_Class	Unsigned	O ^{2,4}	W	
High_Limit	REAL	O ^{2,4}	W	
Low_Limit	REAL	O ^{2,4}	W	
Deadband	REAL	O ^{2,4}	W	
Limit_Enable	BACnetLimitEnable	O ^{2,4}	W	
Event_Enable	BACnetEventTransitionBits	O ^{2,4}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{2,4}	R	
Notify_Type	BACnetNotifyType	O ^{2,4}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{2,4}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{3,4}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁴	W	See note, page 8

Table 3: Analog Output

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Event_Detection_Enable	BOOLEAN	O ^{2,4}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁴	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{4,5}	W	
Time_Delay_Normal	Unsigned	O ⁴	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁶	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8

- 1 This property is required if, and shall be present only if, the object supports COV reporting.
- 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.

1.4.4 Analog Value

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 4: Analog Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Present_Value	REAL	R ⁴	W	
Description	CharacterString	O	W	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	W	
Out_Of_Service	BOOLEAN	R	W	
Units	BACnetEngineeringUnits	R	W	
Priority_Array	BACnetPriorityArray	O ¹	R	
Relinquish_Default	REAL	O ¹	W	
COV_Increment	REAL	O ²	W	
Time_Delay	Unsigned	O ^{3,6}	W	
Notification_Class	Unsigned	O ^{3,6}	W	
High_Limit	REAL	O ^{3,6}	W	
Low_Limit	REAL	O ^{3,6}	W	
Deadband	REAL	O ^{3,6}	W	
Limit_Enable	BACnetLimitEnable	O ^{3,6}	W	
Event_Enable	BACnetEventTransitionBits	O ^{3,6}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{3,6}	R	

Table 4: Analog Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Notify_Type	BACnetNotifyType	O ^{3,6}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{3,6}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{9,6}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁶	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{3,6}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁶	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{6,7}	W	
Time_Delay_Normal	Unsigned	O ⁶	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁸	W	
Min_Pres_Value	REAL	O	R	
Max_Pres_Value	REAL	O	R	
Resolution	REAL	O	R	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8

- 1 These properties are required if, and shall be present only if, Present_Value is commandable.
- 2 This property is required if, and shall be present only 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.
- 5 This property, if present, is required to be read_only.
- 6 These properties shall be present only if the object supports intrinsic reporting.
- 7 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 8 If this property is present, then the Reliability property shall be present.

1.4.5 Averaging

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 5: Averaging

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Minimum_Value	REAL	R	R	
Minimum_Value_Stamp	BACnetDateTime	O	R	
Average_Value	REAL	R	R	
Variance_Value	REAL	O	R	
Maximum_Value	REAL	R	R	
Maximum_Value_Stamp	BACnetDateTime	O	R	
Description	CharacterString	O	W	See note, page 8
Attempted_Samples	Unsigned	W ¹	W	
Valid_Samples	Unsigned	R	R	
Object_Property_Reference	BACnetDeviceObject-PropertyReference	R ¹	W	
Window_Interval	Unsigned	W ¹	W	
Window_Samples	Unsigned	W ¹	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8

¹ 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.

1.4.6 Binary Input

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 6: Binary Input

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Present_Value	BACnetBinaryPV	R ¹	R ¹	
Description	CharacterString	O	W	See note, page 8
Device_Type	CharacterString	O	W	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	W	
Out_Of_Service	BOOLEAN	R	W	
Polarity	BACnetPolarity	R	W	
Inactive_Text	CharacterString	O ²	W	See note, page 8
Active_Text	CharacterString	O ²	W	See note, page 8
Change_Of_State_Time	BACnetDateTime	O ³	R	
Change_Of_State_Count	Unsigned	O ³	W	
Time_Of_State_Count_Reset	BACnetDateTime	O ³	R	
Elapsed_Active_Time	Unsigned32	O ⁴	W	
Time_Of_Active_Time_Reset	BACnetDateTime	O ⁴	R	
Time_Delay	Unsigned	O ^{5,7}	W	
Notification_Class	Unsigned	O ^{5,7}	W	
Alarm_Value	BACnetBinaryPV	O ^{5,7}	W	
Event_Enable	BACnetEventTransitionBits	O ^{5,7}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{5,7}	R	
Notify_Type	BACnetNotifyType	O ^{5,7}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{5,7}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{6,7}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁷	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{5,7}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁷	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{7,8}	W	
Time_Delay_Normal	Unsigned	O ⁷	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁹	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	∅	-	See note, page 8

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Table 6: Binary Input

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
---------------------	-------------------	------------------	------	-----------------------------

- 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.
- 6 This property, if present, is required to be read_only.
- 7 These properties shall be present only if the object supports intrinsic reporting.
- 8 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 9 If this property is present, then the Reliability property shall be present.

1.4.7 Binary Output

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 7: Binary Output

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Present_Value	BACnetBinaryPV	W	W	
Description	CharacterString	O	W	See note, page 8
Device_Type	CharacterString	O	W	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	W	
Out_Of_Service	BOOLEAN	R	W	
Polarity	BACnetPolarity	R	W	
Inactive_Text	CharacterString	O ¹	W	See note, page 8
Active_Text	CharacterString	O ¹	W	See note, page 8
Change_Of_State_Time	BACnetDateTime	O ²	R	
Change_Of_State_Count	Unsigned	O ²	W	
Time_Of_State_Count_Reset	BACnetDateTime	O ²	R	
Elapsed_Active_Time	Unsigned32	O ³	W	
Time_Of_Active_Time_Reset	BACnetDateTime	O ³	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	O ^{4,6}	W	
Notification_Class	Unsigned	O ^{4,6}	W	
Feedback_Value	BACnetBinaryPV	O ⁴	W	
Event_Enable	BACnetEventTransition Bits	O ^{4,6}	W	
Acked_Transitions	BACnetEventTransition Bits	O ^{4,6}	R	
Notify_Type	BACnetNotifyType	O ^{4,6}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{4,6}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{5,6}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁶	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{4,6}	W	

Table 7: Binary Output

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁶	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{6,7}	W	
Time_Delay_Normal	Unsigned	O ⁶	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁸	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8

- 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.
- 5 This property, if present, is required to be read_only.
- 6 These properties shall be present only if the object supports intrinsic reporting.
- 7 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 8 If this property is present, then the Reliability property shall be present.

1.4.8 Binary Value

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 8: Binary Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Present_Value	BACnetBinaryPV	R ¹	W	
Description	CharacterString	O	W	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	W	
Out_Of_Service	BOOLEAN	R	W	
Inactive_Text	CharacterString	O ²	W	See note, page 8
Active_Text	CharacterString	O ²	W	See note, page 8
Change_Of_State_Time	BACnetDateTime	O ³	R	
Change_Of_State_Count	Unsigned32	O ³	W	
Time_Of_State_Count_Reset	BACnetDateTime	O ³	R	
Elapsed_Active_Time	Unsigned32	O ⁴	W	
Time_Of_Active_Time_Reset	BACnetDateTime	O ⁴	R	
Minimum_Off_Time	Unsigned32	O	W	
Minimum_On_Time	Unsigned32	O	W	

Table 8: Binary Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Priority_Array	BACnetPriorityArray	O ⁵	R	
Relinquish_Default	BACnetBinaryPV	O ⁵	W	
Time_Delay	Unsigned	O ^{6,8}	W	
Notification_Class	Unsigned	O ^{6,8}	W	
Alarm_Value	BACnetBinaryPV	O ^{6,8}	W	
Event_Enable	BACnetEventTransitionBits	O ^{6,8}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{6,8}	R	
Notify_Type	BACnetNotifyType	O ^{6,8}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{6,8}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{7,8}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁸	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{6,8}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁸	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{8,9}	W	
Time_Delay_Normal	Unsigned	O ⁸	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ¹⁰	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	⊖	-	See note, page 8

- 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. 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 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, and shall be present only if, Present_Value is commandable.
- 6 These properties are required if the object supports intrinsic reporting.
- 7 This property, if present, is required to be read_only.
- 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.

1.4.9 Bitstring Value

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 9: Bitstring Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	See note, page 8
Present_Value	BIT STRING	R ¹	W	
Bit_Text	BACnetARRAY[N] of CharacterString	O	R	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	O ³	R	
Reliability	BACnetReliability	O	W	
Out_Of_Service	BOOLEAN	O	W	
Priority_Array	BACnetPriorityArray	O ²	R	
Relinquish_Default	BIT STRING	O ²	W	
Time_Delay	Unsigned	O ^{3,5}	W	
Notification_Class	Unsigned	O ^{3,5}	W	
Alarm_Values	BACnetARRAY[N] of BIT STRING	O ^{3,5}	W	
Bit_Mask	BIT STRING	O ^{3,5}	W	
Event_Enable	BACnetEventTransitionBits	O ^{3,5}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{3,5}	R	
Notify_Type	BACnetNotifyType	O ^{3,5}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{3,5}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{4,5}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁵	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{3,5}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁵	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{5,6}	W	
Time_Delay_Normal	Unsigned	O ⁵	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁷	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8

Table 9: Bitstring Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
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- 1 This property is required to be writable when Out_Of_Service is TRUE.
- 2 These properties are required if, and shall be present only if, Present_Value is commandable.
- 3 These properties are required if the object supports intrinsic reporting.
- 4 This property, if present, is required to be read-only.
- 5 These properties shall be present only if the object supports intrinsic reporting.
- 6 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 7 If this property is present, then the Reliability property shall be present.

1.4.10 Calendar

Dynamically Creatable: Yes
 Dynamically Deletable: Yes
 Proprietary Properties: (518) "Time_Before_Operation"

Table 10: Calendar

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	See note, page 8
Present_Value	BOOLEAN	R	R	
Date_List	List of BACnetCalendarEntry	R	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	O	-	See note, page 8
Time_Before_Operation	Unsigned	Proprietary	R	

1.4.11 Command

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 11: Command

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	See note, page 8
Present_Value	Unsigned	W	W	
In_Process	BOOLEAN	R	R	
All_Writes_Successful	BOOLEAN	R	R	
Action	BACnetARRAY[N] of BACnetActionList	R	W	
Action_Text	BACnetARRAY[N] of CharacterString	O	W	See note, page 8
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	O	-	See note, page 8

1.4.12 Device

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: (516) "Time_Zone", (517) "TZ_String"

Table 12: Device

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
System_Status	BACnetDeviceStatus	R	R	
Vendor_Name	CharacterString	R	R	See note, page 8
Vendor_Identifier	Unsigned16	R	R	
Model_Name	CharacterString	R	R	See note, page 8
Firmware_Revision	CharacterString	R	R	See note, page 8
Application_Software_Version	CharacterString	R	R	See note, page 8
Location	CharacterString	O	W	See note, page 8
Description	CharacterString	O	W	See note, page 8
Protocol_Version	Unsigned	R	R	
Protocol_Revision	Unsigned	R	R	
Protocol_Services_Supported	BACnetServicesSupported	R	R	
Protocol_Object_Types_Supported	BACnetObjectTypesSupported	R	R	
Object_List	BACnetARRAY[N]of BACnetObjectIdentifier	R	R	
Structured_Object_List	BACnetARRAY[N]of BACnetObjectIdentifier	O	R	
Max_APDU_Length_Accepted	Unsigned	R	R	
Segmentation_Supported	BACnetSegmentation	R	R	
Max_Segments_Accepted	Unsigned	O ¹	R	
VT_Classes_Supported	List of BACnetVTClass	O ²	-	
Active_VT_Sessions	List of BACnetVTSession	O ²	-	
Local_Time	Time	O ^{3,4,15}	R	
Local_Date	Date	O ^{3,4,15}	R	
UTC_Offset	INTEGER	O ⁴	W	
Daylight_Savings_Status	BOOLEAN	O ⁴	W	
APDU_Segment_Timeout	Unsigned	O ¹	W	
APDU_Timeout	Unsigned	R	R	
Number_Of_APDU_Retries	Unsigned	R	W	
Time_Synchronization_Recipients	List of BACnetRecipient	O ⁵	-	
Max_Master	Unsigned(1..127)	O ⁵	-	
Max_Info_Frames	Unsigned	O ⁵	-	
Device_Address_Binding	List of BACnetAddressBinding	R	R	
Database_Revision	Unsigned	R	R	

Table 12: Device

Property Identifier	Property Datatype	Confor- mance Code	WAGO	Property Range Restrictions
Configuration_Files	BACnetARRAY[N] of BACnetObjectIdentifier	O ⁷	R	
Last_Restore_Time	BACnetTimeStamp	O ⁷	R	
Backup_Failure_Timeout	Unsigned16	O ⁸	W	
Backup_Preparation_Time	Unsigned16	O ¹⁶	R	
Restore_Preparation_Time	Unsigned16	O ¹⁶	R	
Restore_Completion_Time	Unsigned16	O ¹⁶	R	
Backup_And_Restore_State	BACnetBackupState	O ⁷	R	
Active_COV_Subscriptions	List of BACnetCOVSubscription	O ⁹	R	
Slave_Proxy_Enable	BACnetArray[N] of BOOLEAN	Θ ¹⁰	-	
Manual_Slave_Address_Bin- ding	List of BACnetAddressBinding	Θ ^{10,12}	-	
Auto_Slave_Discovery	BACnetArray[N] of BOOLEAN	Θ ^{10,11}	-	
Slave_Address_Binding	List of BACnetAddressBinding	Θ ^{10,12}	-	
Last_Restart_Reason	BACnetRestartReason	O ¹³	R	
Time_of_Device_Restart	BACnetTimeStamp	O ¹³	R	
Restart_Notification_Recipie- nts	List of BACnetRecipient	O ¹⁷	W	
UTC_Time_Synchroni- zation_ Recipients	List of BACnetRecipient	Θ ⁵	-	
Time_Synchronization_ Interval	Unsigned	Θ ¹⁴	-	
Align_Intervals	BOOLEAN	Θ ¹⁴	-	
Interval_Offset	Unsigned	Θ ¹⁴	-	
Serial_Number	CharacterString	O	R	See note, page 8
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Θ	-	See note, page 8

Table 12: Device

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Time_Zone	CharacterString	Proprietary	W	
TZ_String	CharacterString	Proprietary	W	

- 1 These properties are required if, and shall be present only if, segmentation of any kind is supported.
- 2 These properties are required if, and shall be present only if, the VT Services are supported.
- 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 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, and shall be present only if, the device supports execution of the backup and restore procedures.
- 8 This property is required if, and shall be present only if, the device supports the backup and restore procedures. If present, this property shall be writable.
- 9 This property is required if, and shall be present only if, the device supports execution of either the SubscribeCOV or SubscribeCOVProperty service.
- 10 This property is required if, and shall be present only if, the device is capable of being a Slave-Proxy device.
- 11 This property is required if, and shall be present only if, the device is capable of being a Slave-Proxy device that implements automatic discovery of slaves.
- 12 This property shall be writable if the device is directly connected to an MS/TP network.
- 13 These properties are required if the device supports the restart procedure as described in Clause 19.3.
- 14 These properties are required if, and shall be present only if, Time_Synchronization_Recipients or UTC_Time_Synchronization_Recipients is present. If present, these properties shall be writable.
- 15 These properties shall be present if the device is capable of tracking date and time.
- 16 These properties are required if, and shall be present only if, the device supports execution of the backup and restore procedures as described in Clause 19.1 and cannot respond to subsequent communications within the minimum value it will accept in its APDU_Timeout property.
- 17 This property is required if, and shall be present only if, the device supports execution of the restart procedure as described in Clause 19.3.

1.4.13 Event Enrollment

Dynamically Creatable: Yes
 Dynamically Deletable: Yes
 Proprietary Properties: (513) "Subscription_Type", (514) "COV_Resubscription_Intervall",
 (515) "COV_Poll_Intervall"

Table 13: Event Enrollment

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	See note, page 8
Event_Type	BACnetEventType	R	R	
Notify_Type	BACnetNotifyType	R	W	
Event_Parameters	BACnetEventParameter	R	W	
Object_Property_Reference	BACnetDeviceObjectPropertyReference	R	W	
Event_State	BACnetEventState	R	R	
Event_Enable	BACnetEventTransitionBits	R	W	
Acked_Transitions	BACnetEventTransitionBits	R	R	
Notification_Class	Unsigned	R	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	R	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ¹	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O	W	See note, page 8
Event_Detection_Enable	BOOLEAN	R	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O	W	
Event_Algorithm_Inhibit	BOOLEAN	O ²	W	
Time_Delay_Normal	Unsigned	O	W	
Status_Flags	BACnetStatusflags	R	R	
Reliability	BACnetReliability	R	W	
Fault_Type	BACnetFaultType	O ³	R	
Fault_Parameters	BACnetFaultParameter	O ³	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	O	-	See note, page 8
Subscription_Type	Enum	Proprietary	W	
COV_Resubscription_Intervall	Unsigned	Proprietary	W	
COV_Poll_Intervall	Unsigned	Proprietary	W	

Table 13: Event Enrollment

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
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- 1 This property, if present, is required to be read_only.
- 2 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is.
- 3 These properties are required if, and shall be present only if, the object supports fault algorithms other than NONE.

1.4.14 Event Log

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 14: Event Log

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Description	CharacterString	O	W	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	W	
Enable	BOOLEAN	W	W	
Start_Time	BACnetDateTime	O ^{1,2}	W	
Stop_Time	BACnetDateTime	O ^{1,2}	W	
Stop_When_Full	BOOLEAN	R	W	
Buffer_Size	Unsigned32	R	R	
Log_Buffer	BACnetLIST of BACnetEventLogRecord	R	R	
Record_Count	Unsigned32	W	W	
Total_Record_Count	Unsigned32	R	R	
Notification_Threshold	Unsigned32	O ^{3,5}	W	
Records_Since_Notification	Unsigned32	O ^{3,5}	R	
Last_Notify_Record	Unsigned32	O ^{3,5}	R	
Notification_Class	Unsigned	O ^{3,5}	W	
Event_Enable	BACnetEventTransitionBits	O ^{3,5}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{3,5}	R	
Notify_Type	BACnetNotifyType	O ^{3,5}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{3,5}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{4,5}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁵	W	See note, page 8

Table 14: Event Log

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Event_Detection_Enable	BOOLEAN	O ^{3,5}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁵	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{5,6}	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁷	W	
Profile_Name	CharacterString	Ø	-	See note, page 8

- 1 If present, these properties are required to be writable.
- 2 If one of these properties is present, then all shall be present.
- 3 These properties are required if the object supports intrinsic reporting.
- 4 This property, if present, is required to be read-only.
- 5 These properties shall be present only if the object supports intrinsic reporting.
- 6 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 7 If this property is present, then the Reliability property shall be present.

1.4.15 File

Dynamically Creatable: Yes
 Dynamically Deletable: Yes
 Proprietary Properties: No

Table 15: File

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	See note, page 8
File_Type	CharacterString	R	R	See note, page 8
File_Size	Unsigned	R ¹	W	
Modification_Date	BACnetDateTime	R	R	
Archive	BOOLEAN	W	W	
Read_Only	BOOLEAN	R	W	
File_Access_Method	BACnetFileAccessMethod	R	R	
Record_Count	Unsigned	O ²	-	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8

- 1 If the file size can be changed by writing to the file, and File_Access_Method is STREAM_ACCESS, then this property shall be writable.
- 2 This property shall be present only if File_Access_Method is RECORD_ACCESS. If the number of records can be changed by writing to the file, then this property shall be writable.

1.4.16 Group

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 16: Group

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	See note, page 8
List_Of_Group_Members	List of ReadAccessSpecification	R	W	
Present_Value	List of ReadAccessResult	R	R	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Q	-	See note, page 8

1.4.17 Integer Value

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 17: Integer Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	See note, page 8
Present_Value	INTEGER	R ¹	W	
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	O ⁴	R	
Reliability	BACnetReliability	O	W	
Out_Of_Service	BOOLEAN	O	W	
Units	BACnetEngineeringUnits	R	W	
Priority_Array	BACnetPriorityArray	O ²	R	
Relinquish_Default	INTEGER	O ²	W	
COV_Increment	Unsigned	O ³	W	
Time_Delay	Unsigned	O ^{4,6}	W	
Notification_Class	Unsigned	O ^{4,6}	W	
High_Limit	INTEGER	O ^{4,6}	W	
Low_Limit	INTEGER	O ^{4,6}	W	
Deadband	Unsigned	O ^{4,6}	W	
Limit_Enable	BACnetLimitEnable	O ^{4,6}	W	
Event_Enable	BACnetEventTransitionBits	O ^{4,6}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{4,6}	R	
Notify_Type	BACnetNotifyType	O ^{4,6}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{4,6}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{5,6}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁶	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{4,6}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁶	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{6,7}	W	
Time_Delay_Normal	Unsigned	O ⁶	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁸	W	
Min_Pres_Value	INTEGER	O	R	
Max_Pres_Value	INTEGER	O	R	

Table 17: Integer Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Resolution	INTEGER	O	R	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8

- 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 These properties are required if, and shall be present only if, Present_Value is commandable.
- 3 This property is required if, and shall be present only if, the object supports COV reporting.
- 4 These properties are required if the object supports intrinsic reporting.
- 5 This property, if present, is required to be read-only.
- 6 These properties shall be present only if the object supports intrinsic reporting.
- 7 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 8 If this property is present, then the Reliability property shall be present.

1.4.18 Large Analog Value

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 18: Large Analog Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	See note, page 8
Present_Value	Double	R ¹	W	
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	O ⁴	R	
Reliability	BACnetReliability	O	W	
Out_Of_Service	BOOLEAN	O	W	
Units	BACnetEngineeringUnits	R	W	
Priority_Array	BACnetPriorityArray	O ²	R	
Relinquish_Default	Double	O ²	W	
COV_Increment	Double	O ³	W	
Time_Delay	Unsigned	O ^{4,6}	W	
Notification_Class	Unsigned	O ^{4,6}	W	
High_Limit	Double	O ^{4,6}	W	
Low_Limit	Double	O ^{4,6}	W	
Deadband	Double	O ^{4,6}	W	
Limit_Enable	BACnetLimitEnable	O ^{4,6}	W	
Event_Enable	BACnetEventTransitionBits	O ^{4,6}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{4,6}	R	
Notify_Type	BACnetNotifyType	O ^{4,6}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{4,6}	R	

Table 18: Large Analog Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{5,6}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁶	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{4,6}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁶	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{6,7}	W	
Time_Delay_Normal	Unsigned	O ⁶	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁸	W	
Min_Pres_Value	Double	O	R	
Max_Pres_Value	Double	O	R	
Resolution	Double	O	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	O	–	See note, page 8

- 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 These properties are required if, and shall be present only if, Present_Value is commandable.
- 3 This property is required if, and shall be present only if, the object supports COV reporting.
- 4 These properties are required if the object supports intrinsic reporting.
- 5 This property, if present, is required to be read-only.
- 6 These properties shall be present only if the object supports intrinsic reporting.
- 7 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 8 If this property is present, then the Reliability property shall be present.

1.4.19 Loop

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 19: Loop

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Present_Value	REAL	R ⁷	R	
Description	CharacterString	O	W	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O ⁷	W	
Out_Of_Service	BOOLEAN	R	W	
Update_Interval	Unsigned	O	R	
Output_Units	BACnetEngineeringUnits	R	W	
Manipulated_Variable_Reference	BACnetObjectPropertyReference	R	W	
Controlled_Variable_Reference	BACnetObjectPropertyReference	R	W	
Controlled_Variable_Value	REAL	R	R	
Controlled_Variable_Units	BACnetEngineeringUnits	R	W	
Setpoint_Reference	BACnetSetpointReference	R	W	
Setpoint	REAL	R	W	
Action	BACnetAction	R	W	
Proportional_Constant	REAL	O ¹	W	
Proportional_Constant_Units	BACnetEngineeringUnits	O ¹	W	
Integral_Constant	REAL	O ²	W	
Integral_Constant_Units	BACnetEngineeringUnits	O ²	W	
Derivative_Constant	REAL	O ³	W	
Derivative_Constant_Units	BACnetEngineeringUnits	O ³	W	
Bias	REAL	O	W	
Maximum_Output	REAL	O	W	
Minimum_Output	REAL	O	W	
Priority_For_Writing	Unsigned	R	W	
COV_Increment	REAL	O ⁴	W	
Time_Delay	Unsigned	O ^{5,8}	W	
Notification_Class	Unsigned	O ^{5,8}	W	
Error_Limit	REAL	O ^{5,8}	W	
Deadband	REAL	O ^{5,8}	W	
Event_Enable	BACnetEventTransitionBits	O ^{5,8}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{5,8}	R	

Table 19: Loop

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Notify_Type	BACnetNotifyType	O ^{5,8}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{5,8}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{6,8}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁸	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{5,8}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁸	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{8,9}	W	
Time_Delay_Normal	Unsigned	O ⁸	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ¹⁰	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	O	-	See note, page 8

- 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.

1.4.20 Multi-state Input

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 20: Multi-state Input

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Present_Value	Unsigned	R ¹	R ¹	
Description	CharacterString	O	W	See note, page 8
Device_Type	CharacterString	O	W	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	W	
Out_Of_Service	BOOLEAN	R	W	
Number_of_States	Unsigned	R	R	
State_Text	BACnetARRAY[N] of CharacterString	O	W	See note, page 8
Time_Delay	Unsigned	O ^{3,5}	W	
Notification_Class	Unsigned	O ^{3,5}	W	
Alarm_Values	BACnetList of Unsigned	O ^{3,5}	W	
Fault_Values	BACnetList of Unsigned	O ⁷	W	
Event_Enable	BACnetEventTransitionBits	O ^{3,5}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{3,5}	R	
Notify_Type	BACnetNotifyType	O ^{3,5}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{3,5}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{4,5}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁵	W	See note, page 8
Event_Detection_Enabled	BOOLEAN	O ^{3,5}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁵	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{5,6}	W	
Time_Delay_Normal	Unsigned	O ⁵	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁷	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8

- 1 This property is required to be writable when Out_Of_Service is TRUE.
- 2 Footnote removed.
- 3 These properties are required if the object supports intrinsic reporting.
- 4 This property, if present, is required to be read_only.
- 5 These properties shall be present only if the object supports intrinsic reporting.
- 6 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 7 If this property is present, then the Reliability property shall be present.

1.4.21 Multi-state Output

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 21: Multi-state Output

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Present_Value	Unsigned	W	W	
Description	CharacterString	O	W	See note, page 8
Device_Type	CharacterString	O	W	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	W	no_fault_detected not allowed when Present_Value = Fault_Value; W if OoS = true
Out_Of_Service	BOOLEAN	R	W	
Number_Of_States	Unsigned	R	R	
State_Text	BACnetARRAY[N] of CharacterString	O	W	See note, page 8
Priority_Array	BACnetPriorityArray	R	R	
Relinquish_Default	Unsigned	R	W	
Time_Delay	Unsigned	O ^{1,3}	W	
Notification_Class	Unsigned	O ^{1,3}	W	
Feedback_Value	Unsigned	O ¹	W	
Event_Enable	BACnetEventTransitionBits	O ^{1,3}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{1,3}	R	
Notify_Type	BACnetNotifyType	O ^{1,3}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{1,3}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{2,3}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ³	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{1,3}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ³	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{3,4}	W	
Time_Delay_Normal	Unsigned	O ³	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁵	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8

Table 21: Multi-state Output

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
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- 1 These properties are required if the object supports intrinsic reporting.
- 2 This property, if present, is required to be read only.
- 3 These properties shall be present only if the object supports intrinsic reporting.
- 4 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 5 If this property is present, then the Reliability property shall be present.

1.4.22 Multi-state Value

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 22: Multi-state Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Present_Value	Unsigned	R ¹	W	
Description	CharacterString	O	W	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	W	
Out_Of_Service	BOOLEAN	R	W	
Number_Of_States	Unsigned	R	R	
State_Text	BACnetARRAY[N] of CharacterString	O	W	See note, page 8
Priority_Array	BACnetPriorityArray	O ³	R	
Relinquish_Default	Unsigned	O ³	W	
Time_Delay	Unsigned	O ^{4,6}	W	
Notification_Class	Unsigned	O ^{4,6}	W	
Alarm_Values	BACnetList of Unsigned	O ^{4,6}	W	
Fault_Values	BACnetList of Unsigned	O ⁸	W	
Event_Enable	BACnetEventTransitionBits	O ^{4,6}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{4,6}	R	
Notify_Type	BACnetNotifyType	O ^{4,6}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{4,6}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{5,6}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁶	W	See note, page 8
Event_Detection_Enabled	BOOLEAN	O ^{4,6}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁶	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{6,7}	W	
Time_Delay_Normal	Unsigned	O ⁶	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁸	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	O	-	See note, page 8

Table 22: Multi-state Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
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- 1 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.
- 2 Footnote removed.
- 3 These properties are required if, and shall be present only if, Present_Value is commandable.
- 4 These properties are required if the object supports intrinsic reporting.
- 5 This property, if present, is required to be read-only.
- 6 These properties shall be present only if the object supports intrinsic reporting.
- 7 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 8 If this property is present, then the Reliability property shall be present.

1.4.23 Notification Class

Dynamically Creatable: Yes
 Dynamically Deletable: Yes
 Proprietary Properties: No

Table 23: Notification Class

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	See note, page 8
Notification_Class	Unsigned	R	R	
Priority	BACnetARRAY[3] of Unsigned	R	W	
Ack_Required	BACnetEventTransitionBits	R	W	
Recipient_List	BACnetList of BACnetDestination	R	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Q	-	See note, page 8

1.4.24 Program

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 24: Program

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Program_State	BACnetProgramState	R	R	
Program_Change	BACnetProgramRequest	W	W	
Reason_for_Halt	BACnetProgramError	O ¹	R	
Description_Of_Halt	CharacterString	O ¹	W	See note, page 8
Program_Location	CharacterString	O	R	See note, page 8
Description	CharacterString	O	W	See note, page 8
Instance_Of	CharacterString	O	R	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Reliability	BACnetReliability	O	W	
Out_of_Service	BOOLEAN	R	R	
Event_Detection_Enabled	BOOLEAN	O ^{2,3}	W	
Notification_Class	Unsigned	O ^{2,3}	W	
Event_Enable	BACnetEventTransitionBits	O ^{2,3}	W	
Event_State	BACnetEventState	O ^{2,3}	R	
Acked_Transitions	BACnetEventTransitionBits	O ^{2,3}	R	
Notify_Type	BACnetNotifyType	O ^{2,3}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{2,3}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ³	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ³	W	See note, page 8
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁴	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8

1 If one of the optional properties Reason_For_Halt or Description_Of_Halt is present, then both of these properties shall be present.

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

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

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

1.4.25 Pulse Converter

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 25: Pulse Converter

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	See note, page 8
Present_Value	REAL	R ¹	R ¹	
Input_Reference	BACnetObjectProperty Reference	O	W	
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	W	
Out_Of_Service	BOOLEAN	R	W	
Units	BACnetEngineeringUnits	R	W	
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	O ²	W	
COV_Period	Unsigned	O ²	W	
Notification_Class	Unsigned	O ^{3,5}	W	
Time_Delay	Unsigned	O ^{3,5}	W	
High_Limit	REAL	O ^{3,5}	W	
Low_Limit	REAL	O ^{3,5}	W	
Deadband	REAL	O ^{3,5}	W	
Limit_Enable	BACnetLimitEnable	O ^{3,5}	W	
Event_Enable	BACnetEventTransitionBits	O ^{3,5}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{3,5}	R	
Notify_Type	BACnetNotifyType	O ^{3,5}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{3,5}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{4,5}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁵	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{3,5}	W	
Event_Algorithm_Inhibit Ref.	BACnetObjectPropertyReference	O ⁵	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{5,6}	W	
Time_Delay_Normal	Unsigned	O ⁵	W	

Table 25: Pulse Converter

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁷	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	O	-	See note, page 8

- 1 This property is required to be writable when Out_Of_Service is TRUE.
- 2 These properties are required if, and shall be present only if, the object supports COV reporting.
- 3 These properties are required if the object supports intrinsic reporting.
- 4 This property, if present, is required to be read-only.
- 5 These properties shall be present only if the object supports intrinsic reporting.
- 6 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 7 If this property is present, then the Reliability property shall be present.

1.4.26 Schedule

Dynamically Creatable: Yes
 Dynamically Deletable: Yes
 Proprietary Properties: (518) "Time_Before_Operation"

Table 26: Schedule

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Present_Value	Any	R	R	
Description	CharacterString	O	W	See note, page 8
Effective_Period	BACnetDateRange	R	W	
Weekly_Schedule	BACnetARRAY[7]of BACnetDailySchedule	O ¹	W	
Exception_Schedule	BACnetARRAY[N]of BACnetSpecialEvent	O ¹	W	
Schedule_Default	Any	R	W	
List_Of_Object_Property_References	BACnetList of BACnetDeviceObject PropertyReference	R	W	
Priority_For_Writing	Unsigned(1..16)	R	W	
Status_Flags	BACnetStatusFlags	R	R	
Reliability	BACnetReliability	R	W	
Out_Of_Service	BOOLEAN	R	W	
Event_Detection_Enable	BOOLEAN	O ^{2,3}	W	
Notification_Class	Unsigned	O ^{2,3}	W	
Event_Enable	BACnetEventTransitionBits	O ^{2,3}	W	
Event_State	BACnetEventState	O ^{2,3}	R	
Acked_Transitions	BACnetEventTransitionBits	O ^{2,3}	R	
Notify_Type	BACnetNotifyType	O ^{2,3}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{2,3}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ³	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ³	W	See note, page 8
Reliability_Evaluation_Inhibit	BOOLEAN	O	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	–	See note, page 8
Time_Before_Operation	Unsigned	Proprietary	R	

- 1 At least one of these properties is required.
- 2 These properties are required if the object supports intrinsic reporting.
- 3 These properties shall be present only if the object supports intrinsic reporting.

1.4.27 Structured View

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: No

Table 27: Structured View

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	See note, page 8
Node_Type	BACnetNodeType	R	W	
Node_Subtype	CharacterString	O	W	See note, page 8
Subordinate_List	BACnetARRAY[N] of BACnetDeviceObjectReference	R	W	
Subordinate_Annotations	BACnetARRAY[N] of CharacterString	O	W	See note, page 8
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	O	-	See note, page 8

1.4.28 Trend Log

Dynamically Creatable: Yes
 Dynamically Deletable: Yes
 Proprietary Properties: No

Table 28: Trend Log

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	See note, page 8
Enable	BOOLEAN	W	W	
Start_Time	BACnetDateTime	O ^{1,2}	W	
Stop_Time	BACnetDateTime	O ^{1,2}	W	
Log_DeviceObject Property	BACnetDeviceObjectPropertyReference	O ⁸	W	
Log_Interval	Unsigned	O ^{1,3}	W	> 99 required
COV_Resubscription_Interval	Unsigned	O	W	
Client_COV_Increment	BACnetClientCOV	O	W	
Stop_When_Full	BOOLEAN	R	W	
Buffer_Size	Unsigned32	R	R	

Table 28: Trend Log

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Log_Buffer	BACnetList of BACnetLogRecord	R	R	
Record_Count	Unsigned32	W	W	
Total_Record_Count	Unsigned32	R	R	
Logging_Type	BACnetLoggingType	R	W	
Align_Intervals	BOOLEAN	O ⁵	W	
Interval_Offset	Unsigned	O ⁵	W	
Trigger	BOOLEAN	O	W	
Status_Flags	BACnetStatusFlags	R	R	
Reliability	BACnetReliability	O	W	
Notification_Threshold	Unsigned32	O ^{4,7}	W	
Records_Since_Notification	Unsigned32	O ^{4,7}	R	
Last_Notify_Record	Unsigned32	O ^{4,7}	R	
Event_State	BACnetEventState	R	R	
Notification_Class	Unsigned	O ^{4,7}	W	
Event_Enable	BACnetEventTransitionBits	O ^{4,7}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{4,7}	R	
Notify_Type	BACnetNotifyType	O ^{4,7}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{4,7}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{6,7}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁷	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{4,7}	W	
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁷	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{7,9}	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ¹⁰	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8

- 1 These properties are required 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 if the object supports intrinsic reporting.
- 5 These properties are required if, and shall be present only if, the object supports clock-aligned logging.
- 6 This property, if present, is required to be read-only.
- 7 These properties shall be present only if the object supports intrinsic reporting.
- 8 This property is required if, and shall be present only if, the monitored property is a BACnet property.

1.4.29 Trend Log Multiple

Dynamically Creatable: Yes
 Dynamically Deletable: Yes
 Proprietary Properties: No

Table 29: Trend Log Multiple

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	See note, page 8
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	See note, page 8
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	W	
Enable	BOOLEAN	W	W	
Start_Time	BACnetDateTime	O ¹	W	
Stop_Time	BACnetDateTime	O ¹	W	
Log_DeviceObject Property	BACnetARRAY[N] of BACnetDeviceObjectPropertyReference	R	W	
Logging_Type	BACnetLoggingType	R	W	
Log_Interval	Unsigned	R ²	W	
Align_Intervals	BOOLEAN	O ³	W	
Interval_Offset	Unsigned	O ³	W	
Trigger	BOOLEAN	O	W	
Stop_When_Full	BOOLEAN	R	W	
Buffer_Size	Unsigned32	R	R	
Log_Buffer	BACnetLIST of BACnetLogMultipleRecord	R	R	
Record_Count	Unsigned32	W	W	
Total_Record_Count	Unsigned32	R	R	
Notification_Threshold	Unsigned32	O ^{4,6}	W	
Records_Since_Notification	Unsigned32	O ^{4,6}	R	
Last_Notify_Record	Unsigned32	O ^{4,6}	R	
Notification_Class	Unsigned	O ^{4,6}	W	
Event_Enable	BACnetEventTransitionBits	O ^{4,6}	W	
Acked_Transitions	BACnetEventTransitionBits	O ^{4,6}	R	
Notify_Type	BACnetNotifyType	O ^{4,6}	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ^{4,6}	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ^{5,6}	R	See note, page 8
Event_Message_Texts_Config	BACnetARRAY[3] of CharacterString	O ⁶	W	See note, page 8
Event_Detection_Enable	BOOLEAN	O ^{4,6}	W	

Table 29: Trend Log Multiple

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Event_Algorithm_Inhibit_Ref	BACnetObjectPropertyReference	O ⁶	W	
Event_Algorithm_Inhibit	BOOLEAN	O ^{6,7}	W	
Reliability_Evaluation_Inhibit	BOOLEAN	O ⁸	W	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier	R	R	
Profile_Name	CharacterString	Ø	-	See note, page 8

- 1 These properties are required to be writable.
- 2 This property is required to be writable when Logging_Type has the value POLLED and is required to be read-only when Logging_Type has the value TRIGGERED.
- 3 These properties are required if, and shall be present only if, the object supports clock-aligned logging.
- 4 These properties are required if the object supports intrinsic reporting.
- 5 This property, if present, is required to be read-only.
- 6 These properties shall be present only if the object supports intrinsic reporting.
- 7 Event_Algorithm_Inhibit shall be present if Event_Algorithm_Inhibit_Ref is present.
- 8 If this property is present, then the Reliability property shall be present.

1.5 Data Link Layer Options

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

1.6 Networking Options

- Router, Clause 6 - List all routing configurations:
- Annex H, BACnet Tunneling Router over IP
- BACnet Broadcast Management Device (BBMD)

Does the BBMD support registrations by Foreign Devices? Yes
(BTD, FDT summarized number limitation: max. 16) No

1.7 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 TM /Microsoft TM 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 |

1.8 Network Security Options

- Non-secure Device - is capable of operating without BACnet Network Security
- Secure Device - is capable of using BACnet Network Security (NS-SD BIBB)
 - Multiple Application-Specific Keys
 - Supports encryption (NS-ED BIBB)
 - Key Server (NS-KS BIBB)

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