



BACnet Protocol Implementation Conformance Statement (PICS)

750-830 BACnet/IP Controller

Version 1.1.2

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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:	03.06.2014
Vendor Name:	WAGO Kontakttechnik GmbH & Co. KG
Product Name:	BACnet/IP Controller
Product Model Number:	750-830
Applications Software Version:	---
Firmware Revision:	04.03.15 (05)
BACnet Protocol Revision:	1 Rev. 7

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-B	DS-COVP-B
Data Sharing COV-Unsolicited-A	DS-COVU-A
Data Sharing COV-Unsolicited-B	DS-COVU-B

1.2.2 Alarm and Event BIBBs

Alarm and Event Notification-Internal	AE-N-I-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

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

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 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

1.4.1 Accumulator

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 1: Accumulator

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Present_Value	Unsigned	R ¹	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Device_Type	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
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	R	
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	Ø	-	
Logging_Object	BACnetObjectIdentifier	Ø	-	
Pulse_Rate	Unsigned	O ^{1,4}	R	
High_Limit	Unsigned	O ⁴	W	
Low_Limit	Unsigned	O ⁴	W	
Limit_Monitoring_Interval	Unsigned	O ⁴	W	
Notification_Class	Unsigned	O ⁴	W	
Time_Delay	Unsigned	O ⁴	W	
Limit_Enable	BACnetLimitEnable	O ⁴	W	
Event_Enable	BACnetEventTransitionBits	O ⁴	W	
Acked_Transitions	BACnetEventTransitionBits	O ⁴	R	
Notify_Type	BACnetNotifyType	O ⁴	R	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ⁴	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	Ø ⁵	-	

Table 1: Accumulator

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Profile_Name	CharacterString	Ø	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

- 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 read only.

1.4.2 Analog Input

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 2: Analog Input

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Present_Value	REAL	R ¹	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Device_Type	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	R	W if OoS = true
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	W	
Notification_Class	Unsigned	O ³	W	
High_Limit	REAL	O ³	W	
Low_Limit	REAL	O ³	W	
Deadband	REAL	O ³	W	
Limit_Enable	BACnetLimitEnable	O ³	W	
Event_Enable	BACnetEventTransitionBits	O ³	W	
Acked_Transitions	BACnetEventTransitionBits	O ³	R	
Notify_Type	BACnetNotifyType	O ³	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ³	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	Ø ⁴	-	
Profile_Name	CharacterString	Ø	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

- 1 This property is required to be writable when Out_Of_Service is TRUE.
- 2 This property is required 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 read only.

1.4.3 Analog Output

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 3: Analog Output

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Present_Value	REAL	W	W	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Device_Type	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	R	W if OoS = true
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	W	
Notification_Class	Unsigned	O ²	W	
High_Limit	REAL	O ²	W	
Low_Limit	REAL	O ²	W	
Deadband	REAL	O ²	W	
Limit_Enable	BACnetLimitEnable	O ²	W	
Event_Enable	BACnetEventTransitionBits	O ²	W	
Acked_Transitions	BACnetEventTransitionBits	O ²	R	
Notify_Type	BACnetNotifyType	O ²	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ²	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ³	-	
Profile_Name	CharacterString	O	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

1 This property is required 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 read only.

1.4.4 Analog Value

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 4: Analog Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Present_Value	REAL	R ⁴	W	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
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	W	
Notification_Class	Unsigned	O ³	W	
High_Limit	REAL	O ³	W	
Low_Limit	REAL	O ³	W	
Deadband	REAL	O ³	W	
Limit_Enable	BACnetLimitEnable	O ³	W	
Event_Enable	BACnetEventTransitionBits	O ³	W	
Acked_Transitions	BACnetEventTransitionBits	O ³	R	
Notify_Type	BACnetNotifyType	O ³	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ³	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	Ø ⁵	-	
Profile_Name	CharacterString	Ø	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

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.

5 This property, if present, is required to read only.

1.4.5 Averaging

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 5: Averaging

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Minimum_Value	REAL	R	R	
Minimum_Value_Stamp	BACnetDateTime	O	W	
Average_Value	REAL	R	R	
Variance_Value	REAL	O	R	
Maximum_Value	REAL	R	R	
Maximum_Value_Stamp	BACnetDateTime	O	W	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
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	
Profile_Name	CharacterString	Ø	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

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: Message_Text (512)

Table 6: Binary Input

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Present_Value	BACnetBinaryPV	R ¹	R ¹	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Device_Type	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	R	W if OoS = true
Out_Of_Service	BOOLEAN	R	W	
Polarity	BACnetPolarity	R	W	
Inactive_Text	CharacterString	O ²	W	Depending on the UTF-8 characters between 25 and 101 characters.
Active_Text	CharacterString	O ²	W	Depending on the UTF-8 characters between 25 and 101 characters.
Change_Of_State_Time	BACnetDateTime	O ³	R	
Change_Of_State_Count	Unsigned	O ³	W	only 0 (zero) allowed for Write; count at least up to 65535
Time_Of_State_Count_Reset	BACnetDateTime	O ³	R	
Elapsed_Active_Time	Unsigned32	O ⁴	W	only 0 (zero) allowed for Write
Time_Of_Active_Time_Reset	BACnetDateTime	O ⁴	R	
Time_Delay	Unsigned	O ⁵	W	
Notification_Class	Unsigned	O ⁵	W	
Alarm_Value	BACnetBinaryPV	O ⁵	W	
Event_Enable	BACnetEventTransitionBits	O ⁵	W	
Acked_Transitions	BACnetEventTransitionBits	O ⁵	R	
Notify_Type	BACnetNotifyType	O ⁵	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ⁵	R	

Table 6: Binary Input

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Event_Message_Texts	BACnetARRAY[3] of CharacterString	Ø ⁶	-	
Profile_Name	CharacterString	Ø	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

- 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 read only.

1.4.7 Binary Output

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 7: Binary Output

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Present_Value	BACnetBinaryPV	W	W	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Device_Type	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O	R	
Out_Of_Service	BOOLEAN	R	W	
Polarity	BACnetPolarity	R	W	
Inactive_Text	CharacterString	O ¹	W	Depending on the UTF-8 characters between 25 and 101 characters.
Active_Text	CharacterString	O ¹	W	Depending on the UTF-8 characters between 25 and 101 characters.
Change_Of_State_Time	BACnetDateTime	O ²	R	
Change_Of_State_Count	Unsigned	O ²	W	only 0 (zero) allowed for Write; count at least up to 65535
Time_Of_State_Count_Reset	BACnetDateTime	O ²	R	
Elapsed_Active_Time	Unsigned32	O ³	W	only 0 (zero) allowed for Write
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	W	
Notification_Class	Unsigned	O ⁴	W	
Feedback_Value	BACnetBinaryPV	O ⁴	W	
Event_Enable	BACnetEventTransition Bits	O ⁴	W	
Acked_Transitions	BACnetEventTransition Bits	O ⁴	R	
Notify_Type	BACnetNotifyType	O ⁴	W	

Table 7: Binary Output

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ⁴	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	Ø ⁵	-	
Profile_Name	CharacterString	Ø	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

- 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 read only.

1.4.8 Binary Value

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 8: Binary Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Present_Value	BACnetBinaryPV	R ¹	W	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
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	Depending on the UTF-8 characters between 25 and 101 characters.
Active_Text	CharacterString	O ²	W	Depending on the UTF-8 characters between 25 and 101 characters.
Change_Of_State_Time	BACnetDateTime	O ³	R	
Change_Of_State_Count	Unsigned	O ³	W	only 0 (zero) allowed for Write; count at least up to 65535
Time_Of_State_Count_Reset	BACnetDateTime	O ³	R	
Elapsed_Active_Time	Unsigned32	O ⁴	W	only 0 (zero) allowed for Write
Time_Of_Active_Time_Reset	BACnetDateTime	O ⁴	R	
Minimum_Off_Time	Unsigned32	O	W	
Minimum_On_Time	Unsigned32	O	W	
Priority_Array	BACnetPriorityArray	O ⁵	R	
Relinquish_Default	BACnetBinaryPV	O ⁵	W	
Time_Delay	Unsigned	O ⁶	W	
Notification_Class	Unsigned	O ⁶	W	
Alarm_Value	BACnetBinaryPV	O ⁶	W	
Event_Enable	BACnetEventTransition Bits	O ⁶	W	
Acked_Transitions	BACnetEventTransition Bits	O ⁶	R	
Notify_Type	BACnetNotifyType	O ⁶	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ⁶	R	

Table 8: Binary Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Event_Message_Texts	BACnetARRAY[3] of CharacterString	Θ^7	-	
Profile_Name	CharacterString	Θ	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

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

1.4.9 Calendar

Dynamically Creatable: Yes
 Dynamically Deletable: Yes
 Proprietary Properties: Message_Text (512)

Table 9: Calendar

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Present_Value	BOOLEAN	R	R	
Date_List	List of BACnetCalendarEntry	R	W	
Profile_Name	CharacterString	Ø	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

1.4.10 Command

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 10: Command

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
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	Depending on the UTF-8 characters between 25 and 101 characters.
Profile_Name	CharacterString	Ø	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

1.4.11 Device

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 11: Device

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
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	W	Depending on the UTF-8 characters between 25 and 101 characters.
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
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	Ø	-	
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	Ø ²	-	
Active_VT_Sessions	List of BACnetVTSession	Ø 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	

Table 11: Device

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Time_Synchronization_Recipients	List of BACnetRecipient	Θ^5	-	
Max_Master	Unsigned(1..127)	Θ^6	-	
Max_Info_Frames	Unsigned	Θ^6	-	
Device_Address_Binding	List of BACnetAddressBinding	R	R	
Database_Revision	Unsigned	R	R	
Configuration_Files	BACnetARRAY[N] of BACnetObjectIdentifier	O^7	W	
Last_Restore_Time	BACnetTimeStamp	O^7	R	
Backup_Failure_Timeout	Unsigned16	O^8	W	
Backup_Preparation_Time	Unsigned16	Θ	-	
Restore_Preparation_Time	Unsigned16	Θ	-	
Restore_Completion_Time	Unsigned16	Θ	-	
Backup_And_Restore_State	BACnetBackupState	Θ	-	
Active_COV_Subscriptions	List of BACnetCOVSubscription	O^9	R	
Slave_Proxy_Enable	BACnetArray[N] of BOOLEAN	Θ^{10}	-	
Manual_Slave_Address_Binding	List of BACnetAddressBinding	Θ^{10}	-	
Auto_Slave_Discovery	BACnetArray[N] of BOOLEAN	Θ^{11}	-	
Slave_Address_Binding	List of BACnetAddressBinding	Θ^{12}	-	
Last_Restart_Reason	BACnetRestartReason	Θ^{13}	-	
Time_of_Device_Restart	BACnetTimeStamp	Θ^{13}	-	
Restart_Notification_Recipients	List of BACnetRecipient	Θ^{13}	-	
UTC_Time_Synchronization_Recipients	List of BACnetRecipient	Θ^5	-	
Time_Synchronization_Interval	Unsigned	Θ^{14}	-	
Align_Intervals	BOOLEAN	Θ^{14}	-	
Interval_Offset	Unsigned	Θ^{14}	-	
Profile_Name	CharacterString	Θ	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

- 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 Required if PICS indicates that this device is a Time Master. 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 Device Restart Procedure.
- 14 If either Time_Synchronization_Recipients or UTC_Time_Synchronization_Recipients is present, then this property shall be present and writable.
- 15 This property shall be present if the device is capable of tracking date and time.

1.4.12 Event-Enrollment

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 12: Event-Enrollment

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Event_Type	BACnetEventType	R	R	
Notify_Type	BACnetNotifyType	R	W	
Event_Parameters	BACnetEventParameters	R	R	
Object_Property_Reference	BACnetDeviceObjectPropertyReference	R	R	
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	Θ^+	-	
Profile_Name	CharacterString	Θ	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

1 This property, if present, is required to read only.

1.4.13 File

Dynamically Creatable: Yes
 Dynamically Deletable: Yes
 Proprietary Properties: Message_Text (512)

Table 13: File

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
File_Type	CharacterString	R	R	
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	Ø ²	-	
Profile_Name	CharacterString	Ø	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

- 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.

1.4.14 Group

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 14: Group

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
List_Of_Group_Members	List of ReadAccessSpecification	R	W	
Present_Value	List of ReadAccessResult	R	R	
Profile_Name	CharacterString	⊖	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

1.4.15 Life Safety Point

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 15: Life Safety Point

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Present_Value	BACnetLifeSafetyState	R	R	
Tracking_Value	BACnetLifeSafetyState	R ¹	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Device_Type	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	R ¹	W	
Out_Of_Service	BOOLEAN	R	W	
Mode	BACnetLifeSafetyMode	W	W	
Accepted_Modes	List of BACnetLifeSafetyMode	R	W	
Time_Delay	Unsigned	O ²	W	
Notification_Class	Unsigned	O ²	W	
Life_Safety_Alarm_Values	List of BACnetLifeSafetyState	O ²	W	
Alarm_Values	List of BACnetLifeSafetyState	O ²	W	
Fault_Values	List of BACnetLifeSafetyState	O ²	W	
Event_Enable	BACnetEventTransitionBits	O ²	W	
Acked_Transitions	BACnetEventTransitionBits	O ²	R	
Notify_Type	BACnetNotifyType	O ²	W	
Event_Time_Stamps	BACnetARRAY [3] of BACnetTimeStamp	O ²	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ⁴	-	
Silenced	BACnetSilencedState	R	R	
Operation_Expected	BACnetLifeSafetyOperation	R	R	
Maintenance_Required	BACnetMaintenance	O	W	
Setting	Unsigned8	O	W	
Direct_Reading	REAL	O ³	W	
Units	BACnetEngineeringUnits	O ³	W	
Member_Of	List of BACnetDeviceObjectReference	O	W	
Profile_Name	CharacterString	O	-	

Table 15: Life Safety Point

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

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

1.4.16 Life Safety Zone

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 16: Life Safety Zone

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Present_Value	BACnetLifeSafetyState	R	R	
Tracking_Value	BACnetLifeSafetyState	R ¹	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Device_Type	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	R ¹	W	
Out_Of_Service	BOOLEAN	R	W	
Mode	BACnetLifeSafetyMode	W	W	
Accepted_Modes	List of BACnetLifeSafetyMode	R	W	
Time_Delay	Unsigned	O ²	W	
Notification_Class	Unsigned	O ²	W	
Life_Safety_Alarm_Values	List of BACnetLifeSafetyState	O ²	W	
Alarm_Values	List of BACnetLifeSafetyState	O ²	W	
Fault_Values	List of BACnetLifeSafetyState	O ²	W	
Event_Enable	BACnetEventTransitionBits	O ²	W	
Acked_Transitions	BACnetEventTransitionBits	O ²	R	
Notify_Type	BACnetNotifyType	O ²	W	
Event_Time_Stamps	BACnetARRAY [3] of BACnetTimeStamp	O ²	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	Θ ³	-	
Silenced	BACnetSilencedState	R	R	
Operation_Expected	BACnetLifeSafetyOperation	R	R	
Maintenance_Required	BOOLEAN	O	W	
Zone_Members	List of BACnetDeviceObjectReference	R	W	
Member_Of	List of BACnetDeviceObjectReference	O	W	
Profile_Name	CharacterString	Θ	-	

Table 16: Life Safety Zone

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

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

1.4.17 Loop

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 17: Loop

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Present_Value	REAL	R	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
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	
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 ¹	W	
Integral_Constant_Units	BACnetEngineeringUnits	O ¹	W	
Derivative_Constant	REAL	O ¹	W	
Derivative_Constant_Units	BACnetEngineeringUnits	O ¹	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 ²	W	
Time_Delay	Unsigned	O ³	W	
Notification_Class	Unsigned	O ³	W	
Error_Limit	REAL	O ³	W	
Deadband	REAL	O ³	W	
Event_Enable	BACnetEventTransitionBits	O ³	W	
Acked_Transitions	BACnetEventTransitionBits	O ³	R	

Table 17: Loop

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Notify_Type	BACnetNotifyType	O ³	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ³	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ⁴	-	
Profile_Name	CharacterString	O	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

- 1 If one of these optional properties is present, 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 This property, if present, is required to read only.

1.4.18 Multi State Value

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 18: Multi State Value

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Present_Value	Unsigned	R ¹	W	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Status_Flags	BACnetStatusFlags	R	R	
Event_State	BACnetEventState	R	R	
Reliability	BACnetReliability	O ²	W	no-fault-detected not allowed when Present_Value = Fault_Value
Out_Of_Service	BOOLEAN	R	W	
Number_Of_States	Unsigned	R	R	
State_Text	BACnetARRAY[N] of CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters. per entry
Priority_Array	BACnetPriorityArray	O ³	R	
Relinquish_Default	Unsigned	O ³	W	
Time_Delay	Unsigned	O ⁴	W	
Notification_Class	Unsigned	O ⁴	W	
Alarm_Values	List of Unsigned	O ⁴	W	
Fault_Values	List of Unsigned	O ⁴	W	
Event_Enable	BACnetEventTransitionBits	O ⁴	W	
Acked_Transitions	BACnetEventTransitionBits	O ⁴	R	
Notify_Type	BACnetNotifyType	O ⁴	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ⁴	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ⁵	-	
Profile_Name	CharacterString	O	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

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 This property shall be required if Fault_Values is present.

3 If Present_Value is commandable, 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 read only.

1.4.19 Notification Class

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 19: Notification Class

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
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	⊖	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

1.4.20 Pulse Converter

Dynamically Creatable: No
 Dynamically Deletable: No
 Proprietary Properties: Message_Text (512)

Table 20: Pulse Converter

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Present_Value	REAL	R ¹	R	
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	W	
Time_Delay	Unsigned	O ³	W	
High_Limit	REAL	O ³	W	
Low_Limit	REAL	O ³	W	
Deadband	REAL	O ³	W	
Limit_Enable	BACnetLimitEnable	O ³	W	
Event_Enable	BACnetEventTransitionBits	O ³	W	
Acked_Transitions	BACnetEventTransitionBits	O ³	R	
Notify_Type	BACnetNotifyType	O ³	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ³	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ⁴	-	
Profile_Name	CharacterString	O	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

- 1 This property is required to be writable when Out_Of_Service is TRUE.
- 2 These properties are required 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 read only.

1.4.21 Schedule

Dynamically Creatable: Yes
 Dynamically Deletable: Yes
 Proprietary Properties: Message_Text (512)

Table 21: Schedule

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Present_Value	Any	R	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
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	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	Ø	-	
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

1 At least one of these properties is required.

1.4.22 Trend Log

Dynamically Creatable: Yes
 Dynamically Deletable: Yes
 Proprietary Properties: Message_Text (512)

Table 22: Trend Log

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Object_Identifier	BACnetObjectIdentifier	R	R	
Object_Name	CharacterString	R	R	
Object_Type	BACnetObjectType	R	R	
Description	CharacterString	O	W	Depending on the UTF-8 characters between 25 and 101 characters.
Enable	BOOLEAN	W	W	
Start_Time	BACnetDateTime	O ^{1,2}	W	
Stop_Time	BACnetDateTime	O ^{1,2}	W	
Log_DeviceObject Property	BACnetDeviceObject PropertyReference	O ¹	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	W	
Log_Buffer	List of BACnetLogRecord	R	R	
Record_Count	Unsigned32	W	W	
Total_Record_Count	Unsigned32	R	R	
Notification_Threshold	Unsigned32	O ⁴	W	
Records_Since_Notification	Unsigned32	O ⁴	R	
Last_Notify_Record	Unsigned32	O ⁴	R	
Event_State	BACnetEventState	R	R	
Notification_Class	Unsigned	O ⁴	W	
Event_Enable	BACnetEventTransitionBits	O ⁴	W	
Acked_Transitions	BACnetEventTransitionBits	O ⁴	R	
Notify_Type	BACnetNotifyType	O ⁴	W	
Event_Time_Stamps	BACnetARRAY[3] of BACnetTimeStamp	O ⁴	R	
Event_Message_Texts	BACnetARRAY[3] of CharacterString	O ⁶	-	
Profile_Name	CharacterString	O	-	
Logging_Type	BACnetLoggingType	R	R	
Align_Intervals	BOOLEAN	O ⁵	W	
Interval_Offset	Unsigned	O ⁵	W	
Trigger	BOOLEAN	O	W	
Status_Flags	BACnetStatusFlags	R	R	
Reliability	BACnetReliability	O	R	

Table 22: Trend Log

Property Identifier	Property Datatype	Conformance Code	WAGO	Property Range Restrictions
Message_Text (512)	BACnetARRAY[3] of CharacterString	Proprietary	W	Depending on the UTF-8 characters between 25 and 101 characters.

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

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?
(BTD, FDT summarized number limitation: max. 16)

Yes
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™/Microsoft™ DBCS | <input type="checkbox"/> ISO 8859-1 |
| <input type="checkbox"/> ISO 10646 (UCS-2) | <input type="checkbox"/> ISO 10646 (UCS-4) | <input type="checkbox"/> JIS X 0208 |

1.8 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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