



Software · Hardware · Automation

Universalgateway

**BACnet Protocol
Implementation Conformance Statement**

Version: 2016, October 07

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1. Preface

This document describes the BACnet functionality implemented in the Reimann Universalgateway.

2. BACnet PICS Reimann Universalgateway

| | |
|-------------------------------|-----------------------|
| Date: | 2016, October 07 |
| Vendor Name: | Ingenieurbüro Reimann |
| Vendor Identifier: | 819 |
| Product Name: | Universalgateway |
| Product Model Name: | UGW |
| Application Software Version: | Drv.bac DB2_01A |
| Firmware Revision: | 1.2 |
| BACnet Protocol Version: | 1 |
| BACnet Protocol Revision: | 14 |

Product Description

The Reimann Universalgateway provides access to BACnet-networks acting as a BACnet server or client.

BACnet Standardized Device Profile (Annex L)

- BACnet Advanced Operator Workstation (B-AWS)
- BACnet Operator Workstation (B-OWS)
- BACnet Operator Display (B-OD)
- 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)

List all BACnet Interoperability Building Blocks Supported (Annex K)

K.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 |
| Data Sharing – COV – Unsubscribed – A | DS-COVU-A |

K.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 – ACK – B | AE-ACK-B |
| Alarm and Event – Alarm Summary – B | AE-ASUM-B |
| Alarm and Event – Enrollment Summary – B | AE-ESUM-B |
| Alarm and Event – Event Information – B | AE-INFO-B |
| Alarm and Event – Life Safety – B | AE-LS-B |
| Alarm and Event – Event Log Internal – B | AE-EL-I-B |

K.3. Scheduling BIBBs

| | |
|---------------------------|-----------|
| Scheduling – Internal – B | SCHED-I-B |
| Scheduling – External – B | SCHED-E-B |

K.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 |

K.5. Device and Network 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 – Device Communication Control – B | DM-DCC-B |
| Device Management – Time-Synchronization – B | DM-TS-B |
| Device Management – UTC-Time-Synchronization – B | DM-UTC-B |
| Device Management – Reinitialize-Device – B | DM-RD-B |
| Device Management – Backup and Restore – B | DM-BR-B |
| Device Management – Restart – B | DM-R-B |
| Device Management – List Manipulation – B | DM-LM-B |
| Network Management – Connection Establishment – A | NM-CE-A |
| Network Management – Connection Establishment – B | NM-CE-B |
| Network Management – Router Configuration – B | NM-RC-B |

K.6. Network Security BIBBs

No Network Security BIBBs supported.

Segmentation Capability

- Segmented requests supported Window Size: 8
- Segmented responses supported Window Size: 8

Data Link Layer Options

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ANSI/ATA 878.1, RS-485 ARCNET (Clause 8) baud rate(s) _____
- MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 57600, 76800, 115200
- MS/TP slave (Clause 9), baud rate(s): _____
- Point-To-Point, EIA 232 (Clause 10) baud rate(s) _____
- Point-To-Point, modem, (Clause 10) baud rate(s) 1200, 2400, 4800, 9600, 19200, 38400, 57600, 76800, 115200
- LonTalk, (Clause 11) medium: _____
- BACnet/Zigbee (Annex O) _____
- Other: _____

Device Address Binding

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

- Yes No

Networking Options

- Router, Clause 6
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)
 - Does the BBMD support registrations by Foreign Devices? Yes No
(Max. 50 FD-Entries)

Does the BBMD support network address translation?

Yes No

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
 - Key Server (NS-KS BIBB)

Character Sets Supported

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

- ISO 10646 (UTF-8)
- IBM/Microsoft DBCS
- ISO 8859-1
- ISO 10646 (UCS-2)
- ISO 10646 (UCS-4)
- JIS C 6226

Communication Gateway

This BACnet Gateway provides interfaces for several communication protocols, either proprietary or standard. For a complete list of supported protocol visit our homepage.

Standard Object Types Supported

The supported object types are:

| | |
|--------------------------------|------|
| Analog Input Object Type | (0) |
| Analog Output Object Type | (1) |
| Analog Value Object Type | (2) |
| Binary Input Object Type | (3) |
| Binary Output Object Type | (4) |
| Binary Value Object Type | (5) |
| Calendar Object Type | (6) |
| Command Object Type | (7) |
| Device Object Type | (8) |
| Event Enrollment Object Type | (9) |
| File Object Type | (10) |
| Multi-state Input Object Type | (13) |
| Multi-state Output Object Type | (14) |
| Notification Class Object Type | (15) |
| Schedule Object Type | (17) |
| Multi-state Value Object Type | (19) |
| Trend Log Object Type | (20) |
| Life Safety Point Object Type | (21) |
| Life Safety Zone Object Type | (22) |
| Event Log Object Type | (25) |
| Structured View Object Type | (29) |

Creation and Deletion of objects is not supported.

The Reimann Universalgateway does not contain any proprietary properties.

Object Properties

Analog Input Object Type

| Property Identifier | Property Datatype | CC | Available ¹ | Access ² |
|--------------------------------|--|----|------------------------|---------------------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Present_Value | REAL | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| Device_Type | CharacterString | O | Config | Read |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Event_State | BACnetEventState | R | Always | Read |
| Reliability | BACnetReliability | O | Config | Read |
| Out_Of_Service | BOOLEAN | R | Always | R/W |
| Update_Interval | Unsigned | O | Config | Read |
| Units | BACnetEngineeringUnits | R | Always | Read |
| Min_Pres_Value | REAL | O | Config | Read |
| Max_Pres_Value | REAL | O | Config | Read |
| Resolution | REAL | O | Config | Read |
| COV_Increment | REAL | O | Config | R/W |
| Time_Delay | Unsigned | O | Config | R/W |
| Notification_Class | Unsigned | O | Config | R/W |
| High_Limit | REAL | O | Config | R/W |
| Low_Limit | REAL | O | Config | R/W |
| Deadband | REAL | O | Config | R/W |
| Limit_Enable | BACnetLimitEnable | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | O | Config | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Time_Delay_Normal | Unsigned | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

¹⁾ **Always** = Property is always present, **Config** = Property is present if configured, **Never** = Property is never present

²⁾ **Read** = Property is read only, **Write** = Property is readable and writable, **R/W** = Property can be configured to be readable or writable, **Range** = Property is read only using Service ReadRange, --- = Property is not available

Analog Output Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Present_Value | REAL | W | Always | Write |
| Description | CharacterString | O | Config | R/W |
| Device_Type | CharacterString | O | Config | Read |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Event_State | BACnetEventState | R | Always | Read |
| Reliability | BACnetReliability | O | Config | Read |
| Out_Of_Service | BOOLEAN | R | Always | R/W |
| Units | BACnetEngineeringUnits | R | Always | Read |
| Min_Pres_Value | REAL | O | Config | Read |
| Max_Pres_Value | REAL | O | Config | Read |
| Resolution | REAL | O | Config | Read |
| Priority_Array | BACnetPriorityArray | R | Always | Read |
| Relinquish_Default | REAL | R | Always | R/W |
| COV_Increment | REAL | O | Config | R/W |
| Time_Delay | Unsigned | O | Config | R/W |
| Notification_Class | Unsigned | O | Config | R/W |
| High_Limit | REAL | O | Config | R/W |
| Low_Limit | REAL | O | Config | R/W |
| Deadband | REAL | O | Config | R/W |
| Limit_Enable | BACnetLimitEnable | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | O | Config | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Time_Delay_Normal | Unsigned | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Analog Value Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Present_Value | REAL | R | Always | R/W |
| Description | CharacterString | O | Config | R/W |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Event_State | BACnetEventState | R | Always | Read |
| Reliability | BACnetReliability | O | Config | Read |
| Out_Of_Service | BOOLEAN | R | Always | R/W |
| Units | BACnetEngineeringUnits | R | Always | Read |
| Priority_Array | BACnetPriorityArray | O | Config | Read |
| Relinquish_Default | REAL | O | Config | R/W |
| COV_Increment | REAL | O | Config | R/W |
| Time_Delay | Unsigned | O | Config | R/W |
| Notification_Class | Unsigned | O | Config | R/W |
| High_Limit | REAL | O | Config | R/W |
| Low_Limit | REAL | O | Config | R/W |
| Deadband | REAL | O | Config | R/W |
| Limit_Enable | BACnetLimitEnable | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | O | Config | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Time_Delay_Normal | Unsigned | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Min_Pres_Value | REAL | O | Config | Read |
| Max_Pres_Value | REAL | O | Config | Read |
| Resolution | REAL | O | Config | Read |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Binary Input Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Present_Value | BACnetBinaryPV | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| Device_Type | CharacterString | O | Config | Read |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Event_State | BACnetEventState | R | Always | Read |
| Reliability | BACnetReliability | O | Config | Read |
| Out_Of_Service | BOOLEAN | R | Always | R/W |
| Polarity | BACnetPolarity | R | Always | Read |
| Inactive_Text | CharacterString | O | Config | R/W |
| Active_Text | CharacterString | O | Config | R/W |
| Change_Of_State_Time | BACnetDateTime | O | Config | Read |
| Change_Of_State_Count | Unsigned | O | Config | Write |
| Time_Of_State_Count_Reset | BACnetDateTime | O | Config | Read |
| Elapsed_Active_Time | Unsigned32 | O | Config | Write |
| Time_Of_Active_Time_Reset | BACnetDateTime | O | Config | Read |
| Time_Delay | Unsigned | O | Config | R/W |
| Notification_Class | Unsigned | O | Config | R/W |
| Alarm_Value | BACnetBinaryPV | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | O | Config | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Time_Delay_Normal | Unsigned | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Binary Output Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Present_Value | BACnetBinaryPV | W | Always | Write |
| Description | CharacterString | O | Config | R/W |
| Device_Type | CharacterString | O | Config | Read |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Event_State | BACnetEventState | R | Always | Read |
| Reliability | BACnetReliability | O | Config | Read |
| Out_Of_Service | BOOLEAN | R | Always | R/W |
| Polarity | BACnetPolarity | R | Always | Read |
| Inactive_Text | CharacterString | O | Config | R/W |
| Active_Text | CharacterString | O | Config | R/W |
| Change_Of_State_Time | BACnetDateTime | O | Config | Read |
| Change_Of_State_Count | Unsigned | O | Config | Write |
| Time_Of_State_Count_Reset | BACnetDateTime | O | Config | Read |
| Elapsed_Active_Time | Unsigned32 | O | Config | Write |
| Time_Of_Active_Time_Reset | BACnetDateTime | O | Config | Read |
| Minimum_Off_Time | Unsigned32 | O | Config | R/W |
| Minimum_On_Time | Unsigned32 | O | Config | R/W |
| Priority_Array | BACnetPriorityArray | R | Always | Read |
| Relinquish_Default | BACnetBinaryPV | R | Always | R/W |
| Time_Delay | Unsigned | O | Config | R/W |
| Notification_Class | Unsigned | O | Config | R/W |
| Feedback_Value | BACnetBinaryPV | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | O | Config | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Time_Delay_Normal | Unsigned | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Binary Value Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Present_Value | BACnetBinaryPV | R | Always | R/W |
| Description | CharacterString | O | Config | R/W |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Event_State | BACnetEventState | R | Always | Read |
| Reliability | BACnetReliability | O | Config | Read |
| Out_Of_Service | BOOLEAN | R | Always | R/W |
| Inactive_Text | CharacterString | O | Config | R/W |
| Active_Text | CharacterString | O | Config | R/W |
| Change_Of_State_Time | BACnetDateTime | O | Config | Read |
| Change_Of_State_Count | Unsigned | O | Config | Write |
| Time_Of_State_Count_Reset | BACnetDateTime | O | Config | Read |
| Elapsed_Active_Time | Unsigned32 | O | Config | Write |
| Time_Of_Active_Time_Reset | BACnetDateTime | O | Config | Read |
| Minimum_Off_Time | Unsigned32 | O | Config | R/W |
| Minimum_On_Time | Unsigned32 | O | Config | R/W |
| Priority_Array | BACnetPriorityArray | O | Config | Read |
| Relinquish_Default | BACnetBinaryPV | O | Config | R/W |
| Time_Delay | Unsigned | O | Config | R/W |
| Notification_Class | Unsigned | O | Config | R/W |
| Alarm_Value | BACnetBinaryPV | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | O | Config | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Time_Delay_Normal | Unsigned | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Calendar Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|---------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| Present_Value | BOOLEAN | R | Always | Read |
| Date_List | BACnetLIST of BACnetCalendarEntry | R | Always | R/W |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Command Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|-----------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| Present_Value | Unsigned | W | Always | Write |
| In_Process | BOOLEAN | R | Always | Read |
| All_Writes_Successful | BOOLEAN | R | Always | Read |
| Action | BACnetARRAY[N] of BACnetActionList | R | Always | R/W |
| Action_Text | BACnetARRAY[N] of CharacterString | O | Config | R/W |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Device Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|---------------------------------|--------------------------------------|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| System_Status | CharacterString | R | Always | Read |
| Vendor_Name | CharacterString | R | Always | Read |
| Vendor_Identifier | Unsigned16 | R | Always | Read |
| Model_Name | CharacterString | R | Always | Read |
| Firmware_Revision | CharacterString | R | Always | Read |
| Application_Software_Version | CharacterString | R | Always | Read |
| Location | CharacterString | O | Config | R/W |
| Description | CharacterString | O | Config | R/W |
| Protocol_Version | Unsigned | R | Always | Read |
| Protocol_Revision | Unsigned | R | Always | Read |
| Protocol_Services_Supported | BACnetServicesSupported | R | Always | Read |
| Protocol_Object_Types_Support. | BACnetObjectTypesSupported | R | Always | Read |
| Object_List | BACnetARRAY[N] of BACnetObjectIdent. | R | Always | Read |
| Structured_Object_List | BACnetARRAY[N] of BACnetObjectIdent. | O | Config | Read |
| Max_APDU_Length_Accepted | Unsigned | R | Always | Read |
| Segmentation_Supported | BACnetSegmentation | R | Always | Read |
| Max_Segments_Accepted | Unsigned | O | Config | Read |
| VT_Classes_Supported | List of BACnetVTClass | O | Never | --- |
| Active_VT_Sessions | List of BACnetVTSession | O | Never | --- |
| Local_Time | Time | O | Config | Read |
| Local_Date | Date | O | Config | Read |
| UTC_Offset | INTEGER | O | Config | Read |
| Daylight_Saving_Status | BOOLEAN | O | Config | Read |
| APDU_Segment_Timeout | Unsigned | O | Config | Read |
| APDU_Timeout | Unsigned | R | Always | Read |
| Number_Of_APDU_Retries | Unsigned | R | Always | Read |
| Time_Synchronization_Recipients | List of BACnetRecipient | O | Never | --- |
| Max_Master | Unsigned(1..127) | O | Config | Read |
| Max_Info_Frames | Unsigned | O | Config | Read |
| Device_Address_Binding | List of BACnetAdressBinding | R | Always | Read |
| Database_Revision | Unsigned | R | Always | Read |
| Configuration_Files | BACnetARRAY[N] of BACnetObjectIdent. | O | Config | Read |
| Last_Restore_Time | BACnetTimeStamp | O | Config | Read |
| Backup_Failure_Timeout | Unsigned16 | O | Config | Write |
| Backup_Preparation_Time | Unsigned16 | O | Config | Read |
| Restore_Preparation_Time | Unsigned16 | O | Config | Read |

| Property Identifier | Property Datatype | CC | Available | Access |
|---------------------------------|--|----|-----------|--------|
| Restore_Completion_Time | Unsigned16 | O | Config | Read |
| Backup_And_Restore_State | BACnetBackupState | O | Config | Read |
| Active_COV_Subscriptions | List of BACnetCOVSubscriptions | O | Config | Read |
| Slave_Proxy_Enable | BACnetARRAY[N] of BOOLEAN | O | Never | --- |
| Manual_Slave_Address_Binding | List of BACnetAddressBinding | O | Never | --- |
| Auto_Slave_Discovery | BACnetARRAY[N] of BOOLEAN | O | Never | --- |
| Slave_Address_Binding | List of BACnetAddressBinding | O | Never | --- |
| Last_Restart_Reason | BACnetRestartReason | O | Config | Read |
| Time_Of_Device_Restart | BACnetTimeStamp | O | Config | Read |
| Restart_Notification_Recipients | List of BACnetRecipient | O | Config | Write |
| UTC_Time_Synchron._Recipients | List of BACnetRecipient | O | Never | --- |
| Time_Synchronization_Interval | Unsigned | O | Never | --- |
| Align_Intervals | BOOLEAN | O | Never | --- |
| Interval_Offset | Unsigned | O | Never | --- |
| Serial_Number | CharacterString | O | Config | Read |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Event Enrollment Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| Event_Type | BACnetEventType | R | Always | Read |
| Notify_Type | BACnetNotifyType | R | Always | R/W |
| Event_Parameters | BACnetEventParameter | R | Always | R/W |
| Object_Property_Reference | BACnetDeviceObjectPropertyReference | R | Always | R/W |
| Event_State | BACnetEventState | R | Always | Read |
| Event_Enable | BACnetEventTransitionBits | R | Always | R/W |
| Acked_Transitions | BACnetEventTransitionBits | R | Always | Read |
| Notification_Class | Unsigned | R | Always | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | R | Always | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | R | Always | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Time_Delay_Normal | Unsigned | O | Never | --- |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Reliability | BACnetReliability | R | Always | Read |
| Fault_Type | BACnetFaultType | O | Never | --- |
| Fault_Parameters | BACnetFaultParameter | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

File Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|---------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| File_Type | CharacterString | R | Always | Read |
| File_Size | Unsigned | R | Always | Write |
| Modification_Date | BACnetDateTime | R | Always | Read |
| Archive | BOOLEAN | W | Always | Write |
| Read_Only | BOOLEAN | R | Always | Read |
| File_Access_Method | BACnetFileAccessMethod | R | Always | Read |
| Record_Count | Unsigned | O | Never | --- |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Notification Class Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|---------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| Notification_Class | Unsigned | R | Always | Read |
| Priority | BACnetARRAY[3] of Unsigned | R | Always | R/W |
| Ack_Required | BACnetEventTransitionBits | R | Always | R/W |
| Recipient_List | List of BACnetDestination | R | Always | R/W |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Multi-state Input Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Present_Value | Unsigned | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| Device_Type | CharacterString | O | Config | Read |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Event_State | BACnetEventState | R | Always | Read |
| Reliability | BACnetReliability | O | Config | Read |
| Out_Of_Service | BOOLEAN | R | Always | R/W |
| Number_Of_States | Unsigned | R | Always | Read |
| State_Text | BACnetARRAY[N] of CharacterString | O | Config | R/W |
| Time_Delay | Unsigned | O | Config | R/W |
| Notification_Class | Unsigned | O | Config | R/W |
| Alarm_Values | List of Unsigned | O | Config | R/W |
| Fault_Values | List of Unsigned | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | O | Config | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Time_Delay_Normal | Unsigned | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Multi-state Output Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Present_Value | Unsigned | W | Always | Write |
| Description | CharacterString | O | Config | R/W |
| Device_Type | CharacterString | O | Config | Read |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Event_State | BACnetEventState | R | Always | Read |
| Reliability | BACnetReliability | O | Config | Read |
| Out_Of_Service | BOOLEAN | R | Always | R/W |
| Number_Of_States | Unsigned | R | Always | Read |
| State_Text | BACnetARRAY[N] of CharacterString | O | Config | R/W |
| Priority_Array | BACnetPriorityArray | R | Always | Read |
| Relinquish_Default | Unsigned | R | Always | R/W |
| Time_Delay | Unsigned | O | Config | R/W |
| Notification_Class | Unsigned | O | Config | R/W |
| Feedback_Value | Unsigned | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | O | Config | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Time_Delay_Normal | Unsigned | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Schedule Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Present_Value | Any | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| Effective_Period | BACnetDateRange | R | Always | R/W |
| Weekly_Schedule | BACnetARRAY[7] of BACnetDailySchedule | O | Config | R/W |
| Exception_Schedule | BACnetARRAY[N] of BACnetSpecialEvent | O | Config | R/W |
| Schedule_Default | Any | R | Always | R/W |
| List_Of_Object_Property_Refer. | List of BACnetDeviceObjectPropertyRefer. | R | Always | R/W |
| Priority_For_Writing | Unsigned(1..16) | R | Always | R/W |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Reliability | BACnetReliability | R | Always | Read |
| Out_Of_Service | BOOLEAN | R | Always | R/W |
| Event_Detection_Enablr | BOOLEAN | O | Config | R/W |
| Notification_Class | Unsigned | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Event_State | BACnetEventState | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Multi-state Value Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Present_Value | Unsigned | R | Always | R/W |
| Description | CharacterString | O | Config | R/W |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Event_State | BACnetEventState | R | Always | Read |
| Reliability | BACnetReliability | O | Config | Read |
| Out_Of_Service | BOOLEAN | R | Always | R/W |
| Number_Of_States | Unsigned | R | Always | Read |
| State_Text | BACnetARRAY[N] of CharacterString | O | Config | R/W |
| Priority_Array | BACnetPriorityArray | R | Always | Read |
| Relinquish_Default | Unsigned | R | Always | R/W |
| Time_Delay | Unsigned | O | Config | R/W |
| Notification_Class | Unsigned | O | Config | R/W |
| Alarm_Values | List of Unsigned | O | Config | R/W |
| Fault_Values | List of Unsigned | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | O | Config | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Time_Delay_Normal | Unsigned | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Trend Log Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| Enable | BOOLEAN | R | Always | Write |
| Start_Time | BACnetDateTime | O | Config | R/W |
| Stop_Time | BACnetDateTime | O | Config | R/W |
| Log_DeviceObjectProperty | BACnetDeviceObjectPropertyReference | O | Config | R/W |
| Log_Interval | Unsigned | O | Config | R/W |
| COV_Resubscription_Interval | Unsigned | O | Config | R/W |
| Client_COV_Increment | BACnetClientCOV | O | Config | R/W |
| Stop_When_Full | BOOLEAN | R | Always | R/W |
| Buffer_Size | Unsigned32 | R | Always | R/W |
| Log_Buffer | List of BACnetLogRecord | R | Always | Range |
| Record_Count | Unsigned32 | W | Always | Write |
| Total_Record_Count | Unsigned32 | R | Always | Read |
| Logging_Type | BACnetLoggingType | R | Always | R/W |
| Align_Interval | BOOLEAN | O | Config | R/W |
| Interval_Offset | Unsigned | O | Config | R/W |
| Trigger | BOOLEAN | O | Config | Write |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Reliability | BACnetReliability | O | Config | Read |
| Notification_Threshold | Unsigned32 | O | Config | R/W |
| Record_Since_Notification | Unsigned32 | O | Config | Read |
| Last_Notify_Record | Unsigned32 | O | Config | Read |
| Event_State | BACnetEventState | R | Always | Read |
| Notification_Class | Unsigned | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | O | Config | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Life Safety Point Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Present_Value | BACnetLifeSafetyState | R | Always | Read |
| Tracking_Value | BACnetLifeSafetyState | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| Device_Type | CharacterString | O | Config | Read |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Event_State | BACnetEventState | R | Always | Read |
| Reliability | BACnetReliability | R | Always | Read |
| Out_Of_Service | BOOLEAN | R | Always | R/W |
| Mode | BACnetLifeSafetyMode | W | Always | Write |
| Accepted_Modes | List of BACnetLifeSafetyMode | R | Always | Read |
| Time_Delay | Unsigned | O | Config | R/W |
| Notification_Class | Unsigned | O | Config | R/W |
| Life_Safety_Alarm_Values | List of BACnetLifeSafetyState | O | Config | R/W |
| Alarm_Values | List of BACnetLifeSafetyState | O | Config | R/W |
| Fault_Values | List of BACnetLifeSafetyState | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | O | Config | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Time_Delay_Normal | Unsigned | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Silenced | BACnetSilencedState | R | Always | Read |
| Operation_Expected | BACnetLifeSafetyOperation | R | Always | Read |
| Maintenance_Required | BACnetMaintenance | O | Config | Read |
| Setting | Unsigned8 | O | Config | R/W |
| Direct_Reading | REAL | O | Config | Read |
| Units | BACnetEngineeringUnits | O | Config | Read |
| Member_Of | List of BACnetDeviceObjectReference | O | Config | Read |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Life Safety Zone Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Present_Value | BACnetLifeSafetyState | R | Always | Read |
| Tracking_Value | BACnetLifeSafetyState | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| Device_Type | CharacterString | O | Config | Read |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Event_State | BACnetEventState | R | Always | Read |
| Reliability | BACnetReliability | R | Always | Read |
| Out_Of_Service | BOOLEAN | R | Always | R/W |
| Mode | BACnetLifeSafetyMode | W | Always | Write |
| Accepted_Modes | List of BACnetLifeSafetyMode | R | Always | Read |
| Time_Delay | Unsigned | O | Config | R/W |
| Notification_Class | Unsigned | O | Config | R/W |
| Life_Safety_Alarm_Values | List of BACnetLifeSafetyState | O | Config | R/W |
| Alarm_Values | List of BACnetLifeSafetyState | O | Config | R/W |
| Fault_Values | List of BACnetLifeSafetyState | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | O | Config | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Time_Delay_Normal | Unsigned | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Silenced | BACnetSilencedState | R | Always | Read |
| Operation_Expected | BACnetLifeSafetyOperation | R | Always | Read |
| Maintenance_Required | BOOLEAN | O | Config | Read |
| Zone_Members | List of BACnetDeviceObjectReference | R | Always | Read |
| Member_Of | List of BACnetDeviceObjectReference | O | Config | Read |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Event Log Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|--------------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| Status_Flags | BACnetStatusFlags | R | Always | Read |
| Event_State | BACnetEventState | R | Always | Read |
| Reliability | BACnetReliability | O | Config | Read |
| Enable | BOOLEAN | R | Always | Write |
| Start_Time | BACnetDateTime | O | Config | R/W |
| Stop_Time | BACnetDateTime | O | Config | R/W |
| Stop_When_Full | BOOLEAN | R | Always | R/W |
| Buffer_Size | Unsigned32 | R | Always | R/W |
| Log_Buffer | List of BACnetEventLogRecord | R | Always | Range |
| Record_Count | Unsigned32 | W | Always | Write |
| Total_Record_Count | Unsigned32 | R | Always | Read |
| Notification_Threshold | Unsigned32 | O | Config | R/W |
| Record_Since_Notification | Unsigned32 | O | Config | Read |
| Last_Notify_Record | Unsigned32 | O | Config | Read |
| Notification_Class | Unsigned | O | Config | R/W |
| Event_Enable | BACnetEventTransitionBits | O | Config | R/W |
| Acked_Transitions | BACnetEventTransitionBits | O | Config | Read |
| Notify_Type | BACnetNotifyType | O | Config | R/W |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O | Config | Read |
| Event_Message_Texts | BACnetARRAY[3] of CharacterString | O | Config | Read |
| Event_Message_Texts_Config | BACnetARRAY[3] of CharacterString | O | Never | --- |
| Event_Detection_Enable | BOOLEAN | O | Config | R/W |
| Event_Algorithm_Inhibit_Ref | BACnetObjectPropertyReference | O | Never | --- |
| Event_Algorithm_Inhibit | BOOLEAN | O | Never | --- |
| Reliability_Evaluation_Inhibit | BOOLEAN | O | Never | --- |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Structured View Object Type

| Property Identifier | Property Datatype | CC | Available | Access |
|-------------------------|--|----|-----------|--------|
| Object_Identifier | BACnetObjectIdentifier | R | Always | Read |
| Object_Name | CharacterString | R | Always | R/W |
| Object_Type | BACnetObjectType | R | Always | Read |
| Description | CharacterString | O | Config | R/W |
| Node_Type | BACnetNodeType | R | Always | Read |
| Node_Subtype | CharacterString | O | Config | R/W |
| Subordinate_List | BACnetARRAY[N] of BACnetDeviceObj.Ref. | R | Always | Read |
| Subordinate_Annotations | BACnetARRAY[N] of CharacterString | O | Config | R/W |
| Property_List | BACnetARRAY[N] of BACnetPropertyIdentifier | R | Always | Read |
| Profile_Name | CharacterString | O | Config | Read |

Supported object types as BACnet-Client

Reimann Universalgateway acting as a BACnet client supports the following standard object types:

| | |
|--------------------------------|------------------------------------|
| Accumulator Object Type | Access Door Object Type |
| Analog Input Object Type | Event Log Object Type |
| Analog Output Object Type | Load Control Object Type |
| Analog Value Object Type | Structured View Object Type |
| Averaging Object Type | Trend Log Multiple Object Type |
| Binary Input Object Type | Access Point Object Type |
| Binary Output Object Type | Access Zone Object Type |
| Binary Value Object Type | Access User Object Type |
| Calendar Object Type | Access Rights Object Type |
| Command Object Type | Access Credential Object Type |
| Device Object Type | Credential Data Input Object Type |
| Event Enrollment Object Type | CharacterString Value Object Type |
| File Object Type | DateTime Value Object Type |
| Group Object Type | Large Analog Value Object Type |
| Life Safety Point Object Type | BitString Value Object Type |
| Life Safety Zone Object Type | OctetString Value Object Type |
| Loop Object Type | Time Value Object Type |
| Multi-state Input Object Type | Integer Value Object Type |
| Multi-state Output Object Type | Positive Integer Value Object Type |
| Multi-state Value Object Type | Date Value Object Type |
| Notification Class Object Type | DateTime Pattern Value Object Type |
| Program Object Type | Time Pattern Value Object Type |
| Pulse Converter Object Type | Date Pattern Value Object Type |
| Schedule Object Type | Network Security Object Type |
| Trend Log Object Type | Global Group Object Type |

3. Annex

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A3. Document Revision

| Rev.-Nr. | Date | Autor | Remarks |
|----------|------|-------|---------|
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