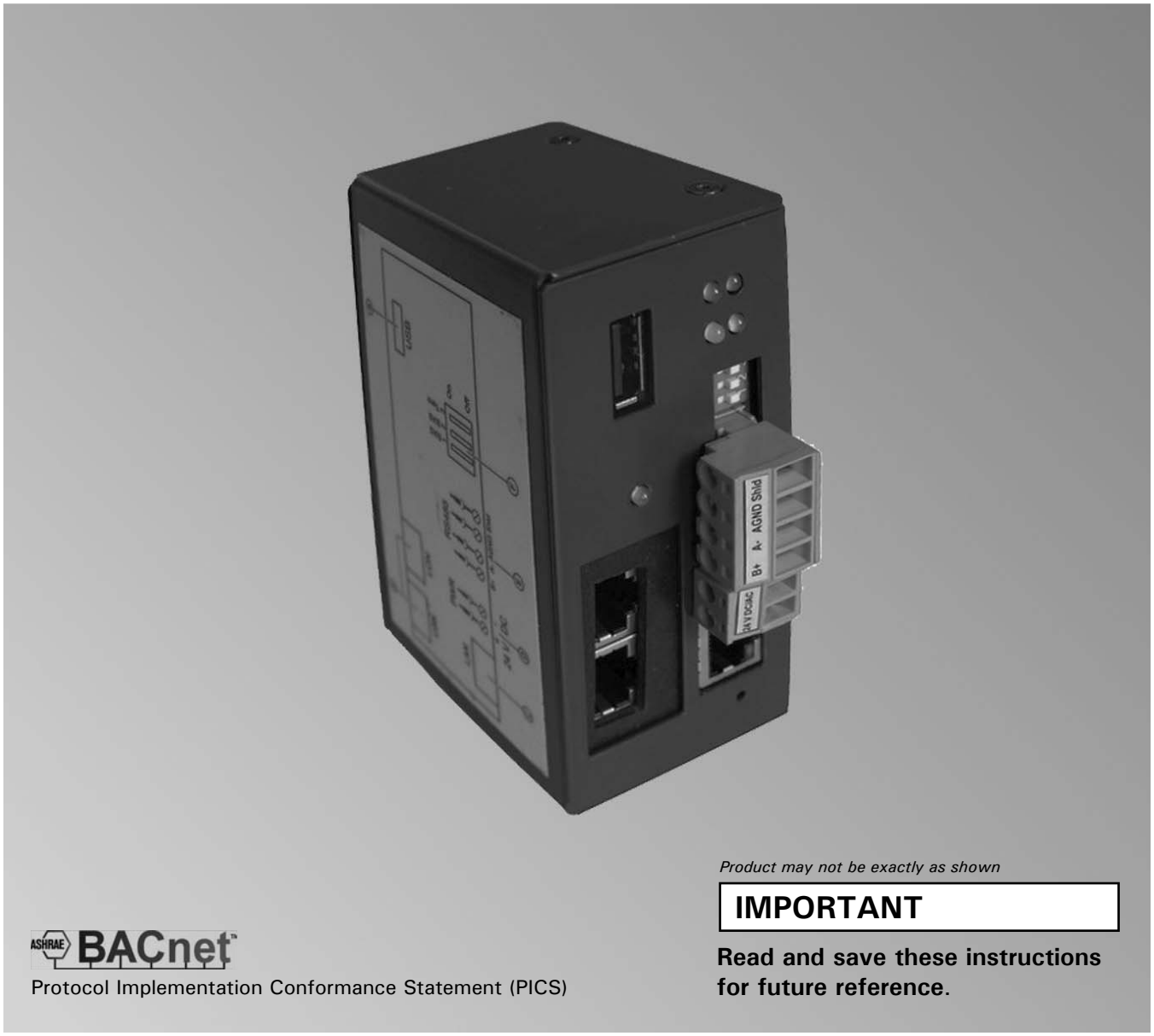
# BACnet Specification

**for use by heating contractor**

Communication with heating systems via BACnet

# Vitogate 300




*Product may not be exactly as shown*

**IMPORTANT**

**Read and save these instructions for future reference.**

BACnet

Protocol Implementation Conformance Statement (PICS)

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Please file in Service Binder

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## BACnet PICS Vitogate 300

Date: .....10/11/2014
Vendor name: .....Viessmann Elektronik GmbH
Product designation: .....Vitogate 300
Product model number: .....1.0
Application software version: .1.3.0
Firmware revision: .....Viessmann BACstack 1.0
BACnet protocol version:.....1
BACnet protocol revision:.....12

Product description:
The Viessmann Vitogate 300 provides access from Viessmann LON devices to BACnet networks acting 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)

# BACnet PICS Vitogate 300 *(continued)*

List all BACnet Interoperability Building Blocks supported (Annex K):

1. Data-sharing BIBBs
Data Sharing Read-Property-B .....DS-RP-B
Data Sharing Read-Property-Multiple-B.....DS-RPM-B
Data Sharing Write-Property-B.....DS-WP-B
Data Sharing Write Property-Multiple-B.....DS-WPM-B
Data Sharing COV-B.....DS-COV-B
Data Sharing COVP-B.....DS-COVP-B

2. Alarm and Event BIBBs
Alarm and Event-Notification-Internal B.....AE-N-I-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

3. Scheduling BIBBs
Scheduling-Internal-B.....SCHED-I-B

4. Trending BIBBs
Trending-Viewing and
Modifying Trends Internal-B.....T-VMT-I-B
Trending-Automated Trend Retrieval-B.....T-ATR-B

5. Device Management BIBBs
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-List Manipulation-B.....DM-LM-B
Device-Management-Restart-B.....DM-R-B

6. Network Management BIBBs
No Network Management BIBBs supported.

Segmentation capability:
■ **Segmented requests supported Window size: 16**
■ **Segmented requests supported Window size: 16**

Date 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, 76800, 115200**
☐ MS/TP slave (Clause 9), baud rate(s): 9600, 19200, 38400, 76800, 115200
☐ Point-to-point, EIA 232 (Clause 10) baud rate(s)_____
☐ Point-to-point, modem, (Clause 10) baud rate(s)_____
☐ LonTalk, (Clause 11) medium:_____
☐ 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**
(Yes, if multiple data layer activated. Changeable by configuration)

☐ Annex H, BACnet tunneling router over IP

■ **BACnet/IP Broadcast Management Device (BBMD)**
■ **Does the BBMD support registrations by foreign devices?**
Number of FD entries: 50 (configurable)

Character sets supported:
Indicating support for multiple character sets does not imply that they can all be supported simultaneously.
■ **UTF-8**
☐ IBMTM/Microsoft™ DBCS
☐ ISO 8859–1
☐ ISO 10 646 (UCS-2)
☐ ISO 10 646 (UCS-4)
☐ JIS C 6226

If this product is a communication gateway, describe the types of non-BACnet equipment/network(s) that the gateway supports:
This BACnet gateway provides interfaces to Viessmann LON/RDAP communication protocol.

## Standard Object Types Supported

The supported object types are:
Analog input .....(0)
Analog value .....(2)
Binary input .....(3)
Binary value .....(5)
Device .....(8)
Multistate input .....(13)
Notification class .....(15)
Schedule .....(17)
Multistate value .....(19)
Trend log .....(20)
Creation and deletion of objects is not supported.

## Analog Input

| Property identifier | Property datatype | Conf. code | Vitogate |
|---|---|---|---|
| Object_Identifier | BACnetObjectIdentifier | R | R |
| Object_Name | CharacterString | R | R |
| Object_Type | BACnetObjectType | R | R |
| Present_Value | REAL | R*1 | R*1/W |
| Description | CharacterString | O | R |
| Status_Flags | BACnetStatusFlags | R | R |
| Event_State | BACnetEventState | R | R |
| Reliability | BACnetReliability | O | R*1/W |
| Out_Of_Service | BOOLEAN | R | R/W |
| Units | BACnetEngineeringUnits | R | R |
| Min_Pres_Value | REAL | O | R |
| Max_Pres_Value | REAL | O | R |
| Resolution | REAL | O | R |
| COV_Increment | REAL | O*2 | R/W |
| Time_Delay | Unsigned | O*3 | –/R |
| Notification_Class | Unsigned | O*3 | –/R |
| High_Limit | REAL | O*3 | –/R |
| Low_Limit | REAL | O*3 | –/R |
| Deadband | REAL | O*3 | –/R |
| Limit_Enable | BACnetLimitEnable | O*3 | –/R |
| Event_Enable | BACnetEventTransitionBits | O*3 | –/R |
| Acked_Transitions | BACnetEventTransitionBits | O*3 | –/R |
| Notify_Type | BACnetNotifyType | O*3 | –/R |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O*3 | –/R |

*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.

## Analog Value

| Property identifier | Property datatype | Conf. code | Vitogate |
|---|---|---|---|
| Object_Identifier | BACnetObjectIdentifier | R | R |
| Object_Name | CharacterString | R | R |
| Object_Type | BACnetObjectType | R | R |
| Present_Value | REAL | R*1 | R/W |
| Description | CharacterString | O | R |
| Status_Flags | BACnetStatusFlags | R | R |
| Event_State | BACnetEventState | R | R |
| Reliability | BACnetReliability | O | R*1/W |
| Out_Of_Service | BOOLEAN | R | R/W |
| Units | BACnetEngineeringUnits | R | R |
| COV_Increment | REAL | O*2 | R/W |
| Time_Delay | Unsigned | O*3 | –/R |
| Notification_Class | Unsigned | O*3 | –/R |
| High_Limit | REAL | O*3 | –/R |
| Low_Limit | REAL | O*3 | –/R |
| Deadband | REAL | O*3 | –/R |
| Limit_Enable | BACnetLimitEnable | O*3 | –/R |
| Event_Enable | BACnetEventTransitionBits | O*3 | –/R |
| Acked_Transitions | BACnetEventTransitionBits | O*3 | –/R |
| Notify_Type | BACnetNotifyType | O*3 | –/R |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O*3 | –/R |

*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.

## Binary Input

| Property identifier | Property datatype | Conf. code | Vitogate |
|---|---|---|---|
| Object_Identifier | BACnetObjectIdentifier | R | R |
| Object_Name | CharacterString | R | R |
| Object_Type | BACnetObjectType | R | R |
| Present_Value | BACnetBinaryPV | R*1* | R*1*/W |
| Description | CharacterString | O | R |
| Status_Flags | BACnetStatusFlags | R | R |
| Event_State | BACnetEventState | R | R |
| Reliability | BACnetReliability | O | R*1*/W |
| Out_Of_Service | BOOLEAN | R | R/W |
| Polarity | BACnetPolarity | R | R |
| Inactive_Text | CharacterString | O*4* | R |
| Active_Text | CharacterString | O*4* | R |
| Change_Of_State_Time | BACnetDateTime | O*5* | –/R |
| Time_Of_State_Count | Unsigned | O*5* | –/R |
| Time_Of_State_Count_Reset | BACnetDateTime | O*5* | –/R |
| Elapsed_Active_Time | Unsigned32 | O*6* | –/R |
| Time_Of_Active_Time_Reset | BACnetDateTime | O*6* | –/R |
| Time_Delay | Unsigned | O*3* | –/R |
| Notification_Class | Unsigned | O*3* | –/R |
| Alarm_Value | BACnetBinaryPV | O*3* | –/R |
| Event_Enable | BACnetEventTransitionBits | O*3* | –/R |
| Acked_Transitions | BACnetEventTransitionBits | O*3* | –/R |
| Notify_Type | BACnetNotifyType | O*3* | –/R |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O*3* | –/R |

*1 This property is required to be writable when Out_Of_Service is TRUE.
*3 These properties are required if the object supports intrinsic reporting.
*4 If one of the optional properties Inactive_Text or Active_Text is present, then both of these properties shall be present.
*5 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.
*6 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.

## Binary Value

| Property identifier | Property datatype | Conf. code | Vitogate |
|---|---|---|---|
| Object_Identifier | BACnetObjectIdentifier | R | R |
| Object_Name | CharacterString | R | R |
| Object_Type | BACnetObjectType | R | R |
| Present_Value | BACnetBinaryPV | R*1 | R/W |
| Description | CharacterString | O | R |
| Status_Flags | BACnetStatusFlags | R | R |
| Event_State | BACnetEventState | R | R |
| Reliability | BACnetReliability | O | R*1/W |
| Out_Of_Service | BOOLEAN | R | R/W |
| Polarity | BACnetPolarity | R | R |
| Inactive_Text | CharacterString | O*4 | R |
| Active_Text | CharacterString | O*4 | R |
| Change_Of_State_Time | BACnetDateTime | O*5 | –/R |
| Time_Of_State_Count | Unsigned | O*5 | –/R |
| Time_Of_State_Count_Reset | BACnetDateTime | O*5 | –/R |
| Elapsed_Active_Time | Unsigned32 | O*6 | –/R |
| Time_Of_Active_Time_Reset | BACnetDateTime | O*6 | –/R |
| Time_Delay | Unsigned | O*3 | –/R |
| Notification_Class | Unsigned | O*3 | –/R |
| Alarm_Value | BACnetBinaryPV | O*3 | –/R |
| Event_Enable | BACnetEventTransitionBits | O*3 | –/R |
| Acked_Transitions | BACnetEventTransitionBits | O*3 | –/R |
| Notify_Type | BACnetNotifyType | O*3 | –/R |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O*3 | –/R |

*1 This property is required to be writable when Out_Of_Service is TRUE.
*3 These properties are required if the object supports intrinsic reporting.
*4 If one of the optional properties Inactive_Text or Active_Text is present, then both of these properties shall be present.
*5 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.
*6 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.

## Device

| Property identifier | Property datatype | Conf. code | Vitogate |
|---|---|---|---|
| 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_Vers. | CharacterString | R | R |
| Location | CharacterString | R | R |
| Description | CharacterString | O | R |
| Protocol_Version | Unsigned | R | R |
| Protocol_Revision | Unsigned | R | R |
| Protocol_Services_Supported | BACnetServicesSupported | R | R |
| Protocol_Object_Types_Sup. | BACnetObjectTypesSupported | R | R |
| Object_List | BACnetARRAY[N] of BACnetObjectId. | R | R |
| Structured_Object_List | BACnetARRAY[N] of BACnetObjectId. | O | - |
| Max_APDU_Length_Accepted | Unsigned | R | R |
| Segmentation_Supported | BACnetSegmentation | R | R |
| Max_Segments_Accepted | Unsigned | O*7 | R |
| Local_Time | Time | O*8*9 | R |
| Local_Date | Date | O*8*9 | R |
| UTC_Offset | Integer | O*8*9 | R |

*7 Required if segmentation of any kind is supported.
*8 If the device supports the execution of the TimeSynchronization service, then these properties shall be present.
*9 If the device supports the execution of the UTCTimeSynchronization service, then these properties shall be present.

## Device *(continued)*

| Property identifier | Property datatype | Conf. code | Vitogate |
|---|---|---|---|
| Daylight_Savings_Status | Boolean | O*8*9 | R |
| APDU_Segment_Timeout | Unsigned | O*7 | R |
| APDU_Timeout | Unsigned | O | R |
| Number_Of_APDU_Retries | Unsigned | O | R |
| Time_Synch_Recipients. | List of BACnetRecipient | O*10 | - |
| Max_Master | Unsigned(1..127) | O*11 | -/R |
| Max_Info_Frames | Unsigned | O*11 | -/R |
| Device_Address_Binding | List of BACnetAddressBinding | R | R |
| Database_Revision | Unsigned | R | R |
| Configuration_Files | BACnetARRAY[3] of BACnetObjectId | O*12 | - |
| Last_Restore_Time | BACnetTimeStamp | O*12 | - |
| Backup_Failure_Timeout | Unsigned16 | O*13 | - |
| Backup_Preparation_Time | Unsigned16 | O*13 | - |
| Restore_Preparation_Time | Unsigned16 | O*13 | - |
| Restore_Completion_Time | Unsigned16 | O*13 | - |
| Backup_And_Restore_State | BACnetBackupState | O*13 | - |
| Active_COV_Subscriptions | List of BACnetCOVSubscription | O*14 | R |
| Slave_Proxy_Enable | BACnetARRAY[3] of Boolean | O*15 | - |
| Manual_Slave_Address_Bind. | List of BACnetAddressBinding | O*15 | - |
| Auto_Slave_Discovery | BACnetARRAY[N] of Boolean | O*16 | - |
| Slave_Address_Binding | List of BACnetAddressBinding | O*17 | - |
| Last_Restart_Reason | BACnetRestartReason | O*18 | R |
| Time_Of_Device_Restart | BACnetTimeStamp | O*18 | R |
| Restart_Notification_Recip. | List of BACnetRecipient | O*18 | R/W |
| UTC_Time_Synch_Recip. | List of BACnetRecipient | O*10 | - |
| Time_Synchronization_Interv. | Unsigned | O*19 | - |
| Align_Intervals | Boolean | O*19 | - |
| Interval_Offset | Unsigned | O*19 | - |

*7 Required if segmentation of any kind is supported.
*8 If the device supports the execution of the TimeSynchronization service, then these properties shall be present.
*9 If the device supports the execution of the UTCTimeSynchronization service, then these properties shall be present.
*10 If this property is present, then Time_Synchronization_Interval, Align_Intervals and Interval_Offset shall be present. If present, this property shall be writable.
*11 These properties are required if the device is an MS/TP master node.
*12 These properties are required if the device supports the backup and restore procedures.
*13 This property must be present and writable if the device supports the backup and restore procedures.
*14 This property is required if the device supports execution of either the SubscribeCOV or SubscribeCOVProperty service.
*15 This property shall be present and writable if the device is capable of being a slave-proxy device.
*16 This property shall be present if the device is capable of being a slave-proxy device that implements automatic discovery of slaves.
*17 This property shall be present if the device is capable of being a slave-proxy device.
*18 These properties are required if the device supports the restart procedure as described in Clause 19.3.
*19 If either Time_Synchronization_Recipients or UTC_Time_Synchronization_Recipients is present, then this property shall be present and writable.

## Multistate Input

| Property identifier | Property datatype | Conf. code | Vitogate |
|---|---|---|---|
| Object_Identifier | BACnetObjectIdentifier | R | R |
| Object_Name | CharacterString | R | R |
| Object_Type | BACnetObjectType | R | R |
| Present_Value | Unsigned | R*1 | R*1/W |
| Description | CharacterString | O | R |
| Status_Flags | BACnetStatusFlags | R | R |
| Event_State | BACnetEventState | R | R |
| Reliability | BACnetReliability | O | R*1/W |
| Out_Of_Service | BOOLEAN | R | R/W |
| Number_Of_States | Unsigned | R | R |
| State_Text | BACnetARRAY[N] of CharacterString | O | R |
| Time_Delay | Unsigned | O*3 | -/R |
| Notification_Class | Unsigned | O*3 | -/R |
| Alarm_Values | List of unsigned | O*3 | -/R |
| Fault_Values | List of unsigned | O*3 | -/R |
| Event_Enable | BACnetEventTransitionBits | O*3 | -/R |
| Acked_Transitions | BACnetEventTransitionBits | O*3 | -/R |
| Notify_Type | BACnetNotifyType | O*3 | -/R |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O*3 | -/R |

## Notification Class

| Property identifier | Property datatype | Conf. code | Vitogate |
|---|---|---|---|
| Object_Identifier | BACnetObjectIdentifier | R | R |
| Object_Name | CharacterString | R | R |
| Object_Type | BACnetObjectType | R | R |
| Description | CharacterString | O | R |
| Notification_Class | Unsigned | R | R |
| Priority | BACnetARRAY[3] of Unsigned | R | R |
| Ack_Required | BACnetEventTransitionBits | R | R |
| Recipient_List | List of BACnetDestination | R | R/W |

*1 This property is required to be writable when Out_Of_Service is TRUE.
*3 These properties are required if the object supports intrinsic reporting.



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## Schedule

| Property identifier | Property datatype | Conf. code | Vitogate |
|---|---|---|---|
| Object_Identifier | BACnetObjectIdentifier | R | R |
| Object_Name | CharacterString | R | R |
| Object_Type | BACnetObjectType | R | R |
| Present_Value | Unsigned | O | R*1/W |
| Description | CharacterString | R | R |
| Effective_Period | BACnetDateRange | R | R/W |
| Weekly_Schedule | BACnetARRAY[7]of BACnetDailySchedule | O*20 | R/W |
| Exception_Schedule | BACnetARRAY[N]of BACnetSpecialEvent | O*20 | R/W |
| Schedule_Default | Unsigned | R | R |
| List_Of_B.._References | List of BACnet...Reference | R | R |
| Priority_For_Writing | Unsigned (1..16) | R | R |
| Status_Flags | BACnetStatusFlags | R | R |
| Reliability | BACnetReliability | O | R/*1W |
| Out_Of_Service | BOOLEAN | R | R/W |

## Multistate Value

| Property identifier | Property datatype | Conf. code | Vitogate |
|---|---|---|---|
| Object_Identifier | BACnetObjectIdentifier | R | R |
| Object_Name | CharacterString | R | R |
| Object_Type | BACnetObjectType | R | R |
| Present_Value | Unsigned | R*1 | R/W |
| Description | CharacterString | R | R |
| Status_Flags | BACnetStatusFlags | R | R |
| Event_State | BACnetEventState | R | R |
| Reliability | BACnetReliability | O*21 | R*1/W |
| Out_Of_Service | BOOLEAN | R | R/W |
| Number_Of_States | Unsigned | R | R |
| State_Text | BACnetARRAY[N] of CharacterString | O | R |
| Time_Delay | Unsigned | O*3 | -/R |
| Notification_Class | Unsigned | O*3 | -/R |
| Alarm_Values | List of unsigned | O*3 | -/R |
| Fault_Values | List of unsigned | O*3 | -/R |
| Event_Enable | BACnetEventTransitionBits | O*3 | -/R |
| Acked_Transitions | BACnetEventTransitionBits | O*3 | -/R |
| Notify_Type | BACnetNotifyType | O*3 | -/R |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O*3 | -/R |

*1 This property is required to be writable when Out_Of_Service is TRUE.
*3 These properties are required if the object supports intrinsic reporting.
*20 At least one of these properties is required.
*21 This property shall be required if Fault_Values is present.

## Trend Log

| Property identifier | Property datatype | Conf. code | Vitogate |
|---|---|---|---|
| Object_Identifier | BACnetObjectIdentifier | R | R |
| Object_Name | CharacterString | R | R |
| Object_Type | BACnetObjectType | R | R |
| Description | CharacterString | O | R |
| Enable | BOOLEAN | W | W |
| Start_Time | BACnetDataTime | O*22*23 | R/W |
| Stop_Time | BACnetDataTime | O*22*23 | R/W |
| Log_DeviceObjectProperty | BACnetDeviceObjectPropertyReference | O*22 | R |
| Log_Interval | Unsigned | O*22*24 | R |
| Stop_When_Full | Boolean | R | R |
| Buffer_Size | Unsigned32 | R | R |
| Log_Buffer | List of BACnetLogRecord | R | R |
| Record_Count | Unsigned32 | W | W |
| Total_Record_Count | Unsigned32 | R | R |
| Notification_Threshold | Unsigned32 | O*25 | -/R |
| Records_Since_Notification | Unsigned32 | O*25 | -/R |
| Last_Notify_Record | Unsigned32 | O*25 | -/R |
| Event_State | BACnetEventState | R | R |
| Notification_Class | Unsigned | O*25 | -/R |
| Event_Enable | BACnetEventTransitionBits | O*25 | -/R |
| Acked_Transitions | BACnetEventTransitionBits | O*25 | -/R |
| Notify_Type | BACnetNotifyType | O*25 | -/R |
| Event_Time_Stamps | BACnetARRAY[3] of BACnetTimeStamp | O*25 | -/R |
| Logging_Type | BACnetLoggingType | R | R |
| Align_Intervals | Boolean | O*26 | R |
| Interval_Offset | Unsigned | O*26 | R |
| Status_Flags | BACnetStatusFlags | R | R |
| Reliability | BACnetReliability | O | R |

*22 These properties are required to be present if the monitored property is a BACnet property.
*23 If present, these properties are required to be writable.
*24 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.
*25 These properties are required to be present if the object supports intrinsic reporting.
*26 These properties are required to be present if the object supports clock-aligned logging.



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