

Qanteon (Software Qanteon)**BACnet™ Protocol Implementation Conformance Statement (PICS)**

Date:	2017-06-21
Vendor Name:	Kieback&Peter GmbH & Co. KG
Product Name:	Qanteon
Product Model Number:	Version 1
Application Software Version:	Qanteon
Firmware Revision:	12.2
BACnet Protocol Revision:	1.12 (BACnet ANSI/ASHRAE 135-2010 Rev. 12)

Product Description:

Qanteon is a web-based integrated building and energy management system

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)

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BACnet Interoperability Building Blocks (BIBBs)

Data Sharing BIBBs

DS-RP-A	Data Sharing-ReadProperty-A
DS-RP-B	Data Sharing-ReadProperty-B
DS-RPM-A	Data Sharing-ReadPropertyMultiple-A
DS-RPM-B	Data Sharing-ReadPropertyMultiple-B
DS-WP-A	Data Sharing-WriteProperty-A
DS-WPM-A	Data Sharing-WritePropertyMultiple-A
DS-COV-A	Data Sharing-COV-A
DS-COVP-A	Data Sharing-COVP-A
DS-V-A	Data Sharing-View-A
DS-AV-A	Data Sharing-Advanced View-A
DS-M-A	Data Sharing-Modify-A
DS-AM-A	Data Sharing-Advanced Modify-A

Alarm and Event Management BIBBs

AE-N-A	Alarm and Event-Notification-A
AE-ACK-A	Alarm and Event-ACK-A
AE-ASUM-A	Alarm and Event-Alarm Summary-A
AE-ESUM-A	Alarm and Event-Enrollment Summary-A
AE-INFO-A	Alarm and Event-Information-A
AE-VN-A	Alarm and Event-View Notifications-A
AE-AVN-A	Alarm and Event-Advanced View Notifications-A
AE-VM-A	Alarm and Event-View and Modify-A
AE-AVM-A	Alarm and Event-Advanced View and Modify-A
AE-AS-A	Alarm and Event-Alarm Summary View-A
AE-ELV-A	Alarm and Event-Event Log View-A
AE-ELVM-A	Alarm and Event-Event Log View and Modify-A

Scheduling BIBBs

SCHED-AVM-A	Scheduling-Advanced View Modify-A
SCHED-VM-A	Scheduling-View Modify-A
SCHED-WS-A	Scheduling-Weekly Schedule-A

Trending BIBBs

T-AMVR-A	Trending-Automated Multiple Value Retrieval-A
T-V-A	Trending-View-A
T-AVM-A	Trending-Advanced View Modify-A
T-ATR-A	Trending-Automated Trend Retrieval-A

Device and Network Management BIBBs

DM-DDB-A	Device Management-Dynamic Device Binding-A
DM-DDB-B	Device Management-Dynamic Device Binding-B
DM-DOB-B	Device Management-Dynamic Object Binding-B
DM-DCC-A	Device Management-DeviceCommunicationControl-A
DM-RD-A	Device Management-ReinitializeDevice-A
DM-BR-A	Device Management-Backup and Restore-A

DM-R-A	Device Management-Restart-A
DM-OCD-A	Device Management-Object Creation and Deletion-A
DM-ANM-A	Device Management-Automatic Network Mapping-A
DM-ADM-A	Device Management-Automatic Device Mapping-A
DM-MTS-A	Device Management-Manual Time Synchronization-A

Segmentation Capability

- Segmented requests supported; Window Size: **16**
- Segmented responses supported; Window Size: **16**

Supported Object Types

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

Time Value Object

Accumulator Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Present_Value	x			x	x	
Description		x		x	x	
Device_Type		x		x	x	
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability		x		x	x	
Out_Of_Service	x			x	x	
Scale	x			x	x	
Units	x			x	x	
Prescale		x		x	x	
Max_Pres_Value	x			x	x	
Value_Change_Time		x		x		
Value_Before_Change		x		x	x	
Value_Set		x		x	x	
Logging_Record		x		x		
Logging_Object		x		x	x	
Pulse_Rate		x		x	x	
High_Limit		x		x	x	
Low_Limit		x		x	x	
Limit_Monitoring_Interval		x		x	x	
Notification_Class		x		x	x	
Time_Delay		x		x	x	
Limit_Enable		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Analog Input Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Present_Value	x			x	x	
Description		x		x	x	100 characters
Device_Type		x		x	x	
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability		x		x	x	
Out_Of_Service	x			x	x	
Update_Interval		x		x	x	
Units	x			x	x	
Min_Pres_Value		x		x	x	
Max_Pres_Value		x		x	x	
Resolution		x		x		
COV_Increment		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
High_Limit		x		x	x	
Low_Limit		x		x	x	
Deadband		x		x	x	
Limit_Enable		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Analog Output Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Present_Value	x		x	x	x	
Description		x		x	x	100 characters
Device_Type		x		x	x	
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability		x		x	x	
Out_Of_Service	x			x	x	
Units	x			x	x	
Min_Pres_Value		x		x	x	
Max_Pres_Value		x		x	x	
Resolution		x		x		
Priority_Array	x			x		
Relinquish_Default	x			x	x	
COV_Increment		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
High_Limit		x		x	x	
Low_Limit		x		x	x	
Deadband		x		x	x	
Limit_Enable		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Analog Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Present_Value	x			x	x	
Description		x		x	x	100 characters
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability		x		x	x	
Out_Of_Service	x			x	x	
Units	x			x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
COV_Increment		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
High_Limit		x		x	x	
Low_Limit		x		x	x	
Deadband		x		x	x	
Limit_Enable		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Averaging Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Minimum_Value	x			x	x	
Minimum_Value_Timestamp		x		x	x	
Average_Value	x			x	x	
Variance_Value	x			x	x	
Maximum_Value	x			x	x	
Maximum_Value_Timestamp		x		x	x	
Description		x		x	x	
Attempted_Samples	x		x	x	x	
Valid_Samples	x			x		
Object_Property_Reference	x			x	x	
Window_Interval	x		x	x	x	
Window_Samples	x		x	x	x	
Profile_Name		x		x	x	

Binary Input Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Present_Value	x			x	x	
Description		x		x	x	100 characters
Device_Type		x		x	x	
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability		x		x	x	
Out_Of_Service	x			x	x	
Polarity	x			x	x	
Inactive_Text		x		x	x	85 characters
Active_Text		x		x	x	85 characters
Change_Of_State_Time		x		x	x	
Change_Of_State_Count		x		x	x	
Time_Of_State_Count_Reset		x		x	x	
Elapsed_Active_Time		x		x	x	
Time_Of_Active_Time_Reset		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
Alarm_Value		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Binary Output Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Present_Value	x		x	x	x	
Description		x		x	x	100 characters
Device_Type		x		x	x	
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability		x		x	x	
Out_Of_Service	x			x	x	
Polarity	x			x	x	
Inactive_Text		x		x	x	85 characters
Active_Text		x		x	x	85 characters
Change_Of_State_Time		x		x	x	
Change_Of_State_Count		x		x	x	
Time_Of_State_Count_Reset		x		x	x	
Elapsed_Active_Time		x		x	x	
Time_Of_Active_Time_Reset		x		x	x	
Minimum_Off_Time		x		x	x	
Minimum_On_Time		x		x	x	
Priority_Array	x			x		
Relinquish_Default	x			x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
Feedback_Value		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Binary Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Present_Value	x			x	x	
Description		x		x	x	100 characters
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability		x		x	x	
Out_Of_Service	x			x	x	
Inactive_Text		x		x	x	85 characters
Active_Text		x		x	x	85 characters
Change_Of_State_Time		x		x	x	
Change_Of_State_Count		x		x	x	
Time_Of_State_Count_Reset		x		x	x	
Elapsed_Active_Time		x		x	x	
Time_Of_Active_Time_Reset		x		x	x	
Minimum_Off_Time		x		x	x	
Minimum_On_Time		x		x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
Alarm_Value		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Calendar Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Description		x		x	x	100 characters
Present_Value	x			x	x	
Date_List	x			x	x	
Profile_Name		x		x	x	

Command Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x		x	x	x	
In_Process	x			x	x	
All_Writes_Successful	x			x	x	
Action		x		x	x	
Action_Text		x		x	x	
Profile_Name		x		x	x	

Device Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
System_Status	x			x	x	
Vendor_Name	x			x	x	
Vendor_Identifier	x			x	x	
Model_Name	x			x	x	
Firmware_Revision	x			x	x	
Application_Software_Version	x			x	x	
Location		x		x	x	
Description		x		x	x	100 characters
Protocol_Version	x			x	x	
Protocol_Revision	x			x	x	
Protocol_Services_Supported	x			x	x	
Protocol_Object_Types_Supported	x			x	x	
Object_List	x			x		
Structured_Object_List		x		x	x	
Max_APDU_Length_Accepted	x			x	x	
Segmentation_Supported	x			x	x	
Max_Segments_Accepted		x		x	x	
VT_Classes_Supported		x		x	x	
Active_VT_Sessions		x		x	x	
Local_Time		x		x	x	
Local_Date		x		x	x	
UTC_Offset		x		x	x	
Daylight_Savings_Status		x		x	x	
APDU_Segment_Timeout		x		x	x	
APDU_Timeout	x			x	x	
Number_Of_APDU_Retries	x			x	x	
List_Of_Session_Keys		x		x	x	
Time_Synchronization_Recipients		x		x	x	
Max_Master		x		x	x	
Max_Info_Frames		x		x	x	
Device_Address_Binding	x			x	x	
Database_Revision	x			x	x	
Configuration_Files		x		x	x	
Last_Restore_Time		x		x	x	
Backup_Failure_Timeout		x		x	x	
Backup_Preparation_Time		x		x	x	
Restore_Preparation_Time		x		x	x	
Restore_Completion_Time		x		x	x	

PICS

Qanteon (Software Qanteon)

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Backup_And_Restore_State		X		X	X	
Active_COV_Subscriptions		X		X	X	
Slave_Proxy_Enable		X		X	X	
Manual_Slave_Address_Binding		X		X	X	
Auto_Slave_Discovery		X		X	X	
Slave_Address_Binding		X		X	X	
Last_Restart_Reason		X		X	X	
Time_Of_Device_Restart		X		X	X	
Restart_Notification_Recipients		X		X	X	
UTC_Time_Synchronization_Recipients		X		X	X	
Time_Synchronization_Interval		X		X	X	
Align_Intervals		X		X	X	
Interval_Offset		X		X	X	
Profile_Name		X		X	X	

Event Enrollment Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Event_Type	x			x		
Notify_Type	x			x	x	
Event_Parameters	x			x	x	
Object_Property_Reference	x			x	x	
Event_State	x			x	x	
Event_Enable	x			x	x	
Acked_Transitions	x			x	x	
Notification_Class	x			x	x	
Event_Time_Stamps	x			x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Event Log Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Status_Flags	x			x	x	
Event_State	x			x	x	
Enable	x		x	x	x	
Start_Time		x		x	x	
Stop_Time		x		x	x	
Stop_When_Full	x			x	x	
Buffer_Size	x			x	x	
Log_Buffer	x			x		
Record_Count	x		x	x	x	
Total_Record_Count	x			x	x	
Notification_Threshold		x		x	x	
Records_Since_Notification		x		x	x	
Last_Notify_Record		x		x	x	
Notification_Class		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

File Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Description		x		x	x	100 characters
File_Type	x			x	x	
File_Size	x			x	x	
Modification_Date	x			x	x	
Archive	x		x	x	x	
Read_Only	x			x	x	
File_Access_Method	x			x	x	
Record_Count		x		x	x	
Profile_Name		x		x	x	

Global Group Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Group_Members	x			x	x	
Group_Member_Names		x		x	x	
Present_Value	x			x		
Status_Flags	x			x	x	
Event_State	x			x	x	
Member_Status_Flags	x			x	x	
Reliability		x		x	x	
Out_Of_Service	x			x	x	
Update_Interval		x		x	x	
Requested_Update_Interval		x		x	x	
COV_Resubscription_Interval		x		x	x	
Client_COV_Increment		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
Event_Enable		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Event_Message_Texts		x		x		
COVU_Period		x		x	x	
COVU_Recipients		x		x	x	
Profile_Name		x		x	x	

Group Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
List_Of_Group_Members	x			x	x	
Present_Value	x			x		
Profile_Name	x			x	x	

Loop Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Present_Value	x			x	x	
Description		x		x	x	100 characters
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability		x		x	x	
Out_Of_Service	x			x	x	
Update_Interval		x		x	x	
Output_Units	x			x	x	
Manipulated_Variable_Reference	x			x	x	
Controlled_Variable_Reference	x			x	x	
Controlled_Variable_Value	x			x	x	
Controlled_Variable_Units	x			x	x	
Setpoint_Reference	x			x	x	
Setpoint	x			x	x	
Action	x			x	x	
Proportional_Constant		x		x	x	
Proportional_Constant_Units		x		x	x	
Integral_Constant		x		x	x	
Integral_Constant_Units		x		x	x	
Derivative_Constant		x		x	x	
Derivative_Constant_Units		x		x	x	
Bias		x		x	x	
Maximum_Output		x		x	x	
Minimum_Output		x		x	x	
Priority_For_Writing	x			x	x	
COV_Increment		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
Error_Limit		x		x	x	
Deadband		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Multi-state Input Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Present_Value	x			x	x	
Description		x		x	x	100 characters
Device_Type		x		x	x	
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability		x		x	x	
Out_Of_Service	x			x	x	
Number_Of_States	x			x	x	
State_Text		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
Alarm_Values		x		x	x	
Fault_Values		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Multi-state Output Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Present_Value	x		x	x	x	
Description		x		x	x	100 characters
Device_Type		x		x	x	
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability		x		x	x	
Out_Of_Service	x			x	x	
Number_Of_States	x			x	x	
State_Text		x		x	x	
Priority_Array	x			x		
Relinquish_Default	x			x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
Feedback_Value		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Multi-state Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Present_Value	x			x	x	
Description		x		x	x	100 characters
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability		x		x	x	
Out_Of_Service	x			x	x	
Number_Of_States	x			x	x	
State_Text		x		x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
Alarm_Values		x		x	x	
Fault_Values		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Notification Class Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Description		x		x	x	100 characters
Notification_Class	x			x	x	
Priority	x			x	x	
Ack_Required	x			x	x	
Recipient_List	x			x	x	AddListElement
Profile_Name		x		x	x	

Program Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Program_State	x			x		
Program_Change	x		x	x	x	
Reason_For_Halt		x		x	x	
Description_Of_Halt		x		x	x	
Program_Location		x		x	x	
Description		x		x	x	
Instance_Of		x		x	x	
Status_Flags	x			x	x	
Reliability		x		x	x	
Out_Of_Service	x			x	x	
Profile_Name		x		x	x	

Pulse Converter Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
Input_Reference		x		x	x	
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability	x			x	x	
Out_Of_Service	x			x	x	
Units	x			x	x	
Scale_Factor	x		x	x	x	
Adjust_Value	x			x	x	
Count	x			x		
Update_Time	x			x		
Count_Change_Time	x			x		
Count_Before_Change		x		x	x	
COV_Increment		x		x	x	
COV_Period		x		x	x	
Notification_Class		x		x	x	
Time_Delay		x		x	x	
High_Limit		x		x	x	
Low_Limit		x		x	x	
Deadband		x		x	x	
Limit_Enable		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Schedule Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Present_Value	x			x	x	
Description		x		x	x	100 characters
Effective_Period	x			x	x	
Weekly_Schedule		x		x	x	
Exception_Schedule		x		x	x	
Schedule_Default	x			x	x	
List_Of_Object_Property_References	x			x	x	
Priority_For_Writing	x			x	x	
Status_Flags	x			x	x	
Reliability	x			x	x	
Out_Of_Service	x			x	x	
Profile_Name		x		x	x	

Trend Log Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	100 characters
Object_Type	x			x		
Description		x		x	x	100 characters
Enable	x		x	x	x	
Start_Time		x		x	x	
Stop_Time		x		x	x	
Log_DeviceObjectProperty		x		x	x	
Log_Interval		x		x	x	
COV_Resubscription_Interval		x		x	x	
Client_COV_Increment		x		x	x	
Stop_When_Full	x			x	x	
Buffer_Size	x			x	x	
Log_Buffer	x			x		
Record_Count	x		x	x	x	
Total_Record_Count	x			x	x	
Notification_Threshold		x		x	x	
Records_Since_Notification		x		x	x	
Last_Notify_Record		x		x	x	
Event_State	x			x	x	
Notification_Class		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Logging_Type		x		x	x	
Align_Intervals		x		x	x	
Interval_Offset		x		x	x	
Trigger		x		x	x	
Status_Flags		x		x	x	
Reliability		x		x	x	
Event_Message_Texts		x		x		

Trend Log Multiple Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability	x			x	x	
Enable	x		x	x	x	
Log_DeviceObjectProperty	x			x	x	
Logging_Type	x			x	x	
Log_Interval	x		x	x	x	
Align_Intervals		x		x	x	
Interval_Offset		x		x	x	
Stop_When_Full	x			x	x	
Buffer_Size	x			x	x	
Log_Buffer	x			x		
Record_Count	x		x	x	x	
Total_Record_Count	x			x	x	
Notification_Threshold		x		x	x	
Records_Since_Notification		x		x	x	
Last_Notify_Record		x		x	x	
Notification_Class		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Start_Time		x	x	x	x	
Stop_Time		x	x	x	x	
Trigger		x		x	x	
Event_Message_Texts		x		x		

Load Control Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
State_Description		x		x	x	
Status_Flags	x			x	x	
Event_State	x			x	x	
Reliability		x		x	x	
Requested_Shed_Level			x	x	x	
Start_Time			x	x	x	
Shed_Duration			x	x	x	
Duty_Window			x	x	x	
Enable			x	x	x	
Full_Duty_Baseline		x		x	x	
Expected_Shed_Level	x			x	x	
Actual_Shed_Level	x			x	x	
Shed_Levels			x	x	x	
Shed_Levels_Descriptions	x			x	x	
Notification_Class		x		x	x	
Time_Delay		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Profile_Name		x		x	x	
Event_Message_Texts		x		x		

Structured View Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Node_Type	x			x	x	
Node_Subtype		x		x	x	
Subordinate_List	x			x	x	
Subordinate_Annotations		x		x	x	
Profile_Name		x		x	x	

Network Security Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Base_Device_Security_Policy	x		x	x	x	
Network_Access_Security_Policies	x		x	x	x	
Security_Time_Window	x		x	x	x	
Packet_Reorder_Time	x		x	x	x	
Distribution_Key_Revision	x			x		
Key_Sets	x			x	x	
Last_Key_Server	x		x	x	x	
Security_PDU_Timeout	x		x	x	x	
Update_Key_Set_Timeout	x			x	x	
Supported_Security_Algorithms	x			x		
Do_Not_Hide	x		x	x	x	
Profile_Name		x		x	x	

BitString Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
Bit_Text		x		x	x	
Status_Flags	x			x	x	
Event_State		x		x	x	
Reliability		x		x	x	
Out_Of_Service		x		x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
Alarm_Values		x		x	x	
Bit_Mask		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Event_Message_Texts		x		x		
Profile_Name		x		x	x	

CharacterString Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
Status_Flags	x			x	x	
Event_State		x		x	x	
Reliability		x		x	x	
Out_Of_Service		x		x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
Alarm_Values		x		x	x	
Fault_Values		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Event_Message_Texts		x		x		
Profile_Name		x		x	x	

Date Pattern Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
Status_Flags	x			x	x	
Event_State		x		x	x	
Reliability		x		x	x	
Out_Of_Service		x		x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
Profile_Name		x		x	x	

Date Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
Status_Flags	x			x	x	
Event_State		x		x	x	
Reliability		x		x	x	
Out_Of_Service		x		x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
Profile_Name		x		x	x	

DateTime Pattern Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
Status_Flags	x			x	x	
Event_State		x		x	x	
Reliability		x		x	x	
Out_Of_Service		x		x	x	
Is_UTC		x		x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
Profile_Name		x		x	x	

DateTime Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
Status_Flags	x			x	x	
Event_State		x		x	x	
Reliability		x		x	x	
Out_Of_Service		x		x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
Is_UTC		x		x	x	
Profile_Name		x		x	x	

Integer Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
Status_Flags	x			x	x	
Event_State		x		x	x	
Reliability		x		x	x	
Out_Of_Service		x		x	x	
Units	x			x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
COV_Increment		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
High_Limit		x		x	x	
Low_Limit		x		x	x	
Deadband		x		x	x	
Limit_Enable		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Event_Message_Texts		x		x		
Profile_Name		x		x	x	

Large Analog Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
Status_Flags	x			x	x	
Event_State		x		x	x	
Reliability		x		x	x	
Out_Of_Service		x		x	x	
Units	x			x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
COV_Increment		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
High_Limit		x		x	x	
Low_Limit		x		x	x	
Deadband		x		x	x	
Limit_Enable		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Event_Message_Texts		x		x		
Profile_Name		x		x	x	

OctetString Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
Status_Flags		x		x	x	
Event_State		x		x	x	
Reliability		x		x	x	
Out_Of_Service		x		x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
Profile_Name		x		x	x	

Positive Integer Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
Status_Flags	x			x	x	
Event_State		x		x	x	
Reliability		x		x	x	
Out_Of_Service		x		x	x	
Units	x			x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
COV_Increment		x		x	x	
Time_Delay		x		x	x	
Notification_Class		x		x	x	
High_Limit		x		x	x	
Low_Limit		x		x	x	
Deadband		x		x	x	
Limit_Enable		x		x	x	
Event_Enable		x		x	x	
Acked_Transitions		x		x	x	
Notify_Type		x		x	x	
Event_Time_Stamps		x		x	x	
Event_Message_Texts		x		x		
Profile_Name		x		x	x	

Time Pattern Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
Status_Flags	x			x	x	
Event_State		x		x	x	
Reliability		x		x	x	
Out_Of_Service		x		x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
Profile_Name		x		x	x	

Time Value Object

Property Identifier	BACnet Standard			Qanteon		
	Required	Optional	Writable	Supported	Writable	Notes
Object_Identifier	x			x		
Object_Name	x			x	x	
Object_Type	x			x		
Description		x		x	x	
Present_Value	x			x	x	
Status_Flags	x			x	x	
Event_State		x		x	x	
Reliability		x		x	x	
Out_Of_Service		x		x	x	
Priority_Array		x		x		
Relinquish_Default		x		x	x	
Profile_Name		x		x	x	

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):
- Point-To-Point, modem, (Clause 10), baud rate(s):
- 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**

Networking Options

- Router, Clause 6 - List all routing configurations:
- Annex H, BACnet Tunneling Router over IP
- BACnet Broadcast Management Device (BBMD)
- Does the BBMD support registrations by Foreign Devices? **Yes**
- Does the BBMD support network address translation?

Character Sets Supported

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

- ANSI X3.4
- IBM/Microsoft DBCS
- ISO 8859-1
- ISO 10646 (UCS-2)
- ISO 10646 (UCS-4)
- JIS X 0208
- ISO 10646 (UTF-8)

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports:

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)