

BACnet Protocol Implementation Conformance Statement

Date: October 9, 2018

Vendor Name: Cimetrics Inc.

Product Name: Cimetrics BACnet Explorer

Product Model Number: v.6

Application Software Version: v6.0.0.0.1

Firmware Revision: NA

BACnet Protocol Revision: 14

Product Description:

The Cimetrics BACnet Explorer is a BACnet client+BACnet Device server. One can discover all of the BACnet devices on all networks or on a particular network by using the Explorer's device discovery mechanism. Some object properties in the discovered devices can be modified. The Explorer has a user-friendly GUI; the 'tree + table' structure. The program interface consists of any tabs that allow you to view data and perform various actions with discovered devices. Start of discovering devices happens automatically at start of the program. Successively clicking on tree nodes or on left table nodes will perform dynamic discovery on a connected site. You can request or set property values of any BACnet device. You can save devices, objects and property values of devices to a file, for later off-line redisplay, printout, or comparison. The BACnet Explorer uses the familiar tree-structured, two-panel model of the Windows Explorer. Clicking on any item opens it a level for further browsing. A right-mouse-button menu of operations is available, tailored for each item in the system. E.g: Auto-read at open, Re-read and Write Property, Refresh all objects and any device, Add Device (objects and properties), and Hide/Unhide.

BACnet Standardized Device Profile (Annex L):

- BACnet Operator Workstation (B-OWS)
- BACnet Advanced Operator Workstation (B-AWS)
- 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):

DS-RP-A, DS-RPM-A, DS-WP-A, DS-WP-B, DS-WPM-B, DM-DDB-A, DM-DDB-B, DM-DOB-A, DM-DOB-B

Segmentation Capability:

- Able to transmit segmented messages Window Size: 16
- Able to receive segmented messages Window Size: 16

Standard Object Types Supported:

An object type is supported if it may be present in the device. For each standard Object Type supported provide the following data:

- 1) Whether objects of this type are dynamically creatable using the CreateObject service
- 2) Whether objects of this type are dynamically deletable using the DeleteObject service
- 3) List of the optional properties supported
- 4) List of all properties that are writable where not otherwise required by this standard
- 5) List of all properties that are conditionally writable where not otherwise required by this standard
- 6) List of proprietary properties and for each its property identifier, datatype, and meaning

7) List of any property range restrictions

Note: As a BACnet client, the BACnet Explorer is capable of reading/displaying objects in BACnet servers that are of the following standard object types:

Object Type	Optional Properties Supported
Accumulator	Description, Device_Type, Reliability, Prescale, Value_Change_Time, Value_Before_Change, Value_Set, LoggingRecord, Logging_Object, Pulse_Rate, High_Limit, Low_Limit, Limit_Monitoring_Interval, Notification_Class, Time_Delay, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Time_Delay_Normal, Profile_Name

Object Type	Optional Properties Supported
Analog Input	Description, Device_Type, Reliability, Update_Interval, Min_Pres_Value, Max_Pres_Value, Resolution, COV_Increment, Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Time_Delay_Normal, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Analog Output	Description, Device_Type, Reliability, Min_Pres_Value, Max_Pres_Value, Resolution, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, COV_Increment, Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Time_Delay_Normal, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Analog Value	Description, Reliability, Min_Pres_Value, Max_Pres_Value, Resolution, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, COV_Increment, Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Time_Delay_Normal, Reliability_Evaluation_Inhibit, Reliability_Evaluation_Inhibit, Profile_Name
Averaging	Description, Minimum_Value_Time_Stamp, Variance_Value, Maximum_Value_Time_Stamp, Profile_Name

Object Type	Optional Properties Supported
Binary Input	Description, Device_Type, Reliability, Inactive_Text, Active_Text, Change_of_State_Time, Change_of_State_Count, Time_of_State_Count_Reset, Elapsed_Active_Time, Time_of_Active_Time_Reset, Time_Delay, Notification_Class, Alarm_Value, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Time_Delay_Normal, Reliability_Evaluation_Inhibit, Profile_Name
Binary Lighting Output	Description, Reliability, FeedbackValue, Power, Polarity, Elapsed_Active_Time, Time_of_Active_Time_Reset, StrikeCount, TimeOfStrikeCountReset, EventDetectionEnable, Notification_Class, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, ReliabilityEvaluationInhibit, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, Profile_Name

Object Type	Optional Properties Supported
Binary Output	Description, Device_Type, Reliability, Inactive_Text, Active_Text, Change_of_State_Time, Change_of_State_Count, Time_of_State_Count_Reset, Elapsed_Active_Time, Time_of_Active_Time_Reset, Minimum_off_Time, Minimum_on_Time, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, Time_Delay, Notification_Class, Feedback_Value, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Time_Delay_Normal, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Binary Value	Description, Reliability, Inactive_Text, Active_Text, Change_of_State_Time, Change_of_State_Count, Time_of_State_Count_Reset, Elapsed_Active_Time, Time_of_Active_Time_Reset, Minimum_off_Time, Minimum_on_Time, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, Time_Delay, Notification_Class, Alarm_Value, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Time_Delay_Normal, Reliability_Evaluation_Inhibit, Profile_Name
Calendar	Description, Profile_Name
Command	Description, ValueSource, Action_Text, Profile_Name

Object Type	Optional Properties Supported
Channel	Description, ValueSource, Reliability, Execution_Delay, AllowGroupDelayInhibit, EventDetectionEnable, Notification_Class, Event_Enable, Event_State, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Reliability_Evaluation_Inhibit, Profile_Name
CharString Value	Description, EventState, Reliability, OutOfService, TimeDelay, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, Notification_Class, Alarm_Value, FaultValues, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Time_Delay_Normal, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Device	Description, Location, Structured_Object_List, Vt_Classes_Supported, Active_Vt_Sessions, Local_Time, Local_Date, Daylight_Savings_Status, ApduSegmentTimeout, UTC_Offset, Time_Synchronization_Recipients, Max_Master, Max_Info_Frames, Configuration_Files, Last_Restore_Time, Backup_Failure_Timeout, Backup_Preparation_Time, Restore_Preparation_Time, Restore_Completion_Time, Backup_And_Restore_State, Active_Cov_Subscriptions, Max_Segments_Accepted, Slave_Proxy_Enable, Auto_Slave_Discovery, Slave_Address_Binding, Manual_Slave_Address_Binding, Last_Restart_Reason, Time_Of_Device_Restart, Restart_Notification_Recipients, Utc_Time_Sync_Recipients, Time_Sync_Interval, Align_Intervals, Interval_Offset, Serial_Number, Profile_Name
Elevator Group	Description, GroupMode, LandingCalls, LandingCallControl, Profile_Name

Object Type	Optional Properties Supported
Escalator	Description, Reliability, ReliabilityEvaluationInhibit, PowerMode, EscalatorMode, EnergyMeter, EnergyMeterRef, FaultSignals, TimeDelay, TimeDelayNormal, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, NotificationClass, Profile_Name
Event Enrollment	Description, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_InhibitRef, Event_Algorithm_Inhibit, Time_Delay_Normal, Fault_Type, FaultParameters, ReliabilityEvaluationInhibit, Profile_Name
File	Description, Record_Count, Profile_Name
Group	Description, Profile_Name

Object Type	Optional Properties Supported
Global Group	Description, Group_Member_Names, Reliability, Update_Interval, Requested_Update_Interval, Cov_Resubscription_Interval, Client_Cov_Increment, Time_Delay, Notification_Class, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Time_Delay_Normal, Covu_Period, Covu_Recipients, Reliability_Evaluation_Inhibit, Profile_Name
Life Safety Point	ValueSource, Description, Device_Type, Life_Safety_Alarm_Values, Alarm_Values, Fault_Values, EventEnable, Time_Delay, Notification_Class, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Time_Delay_Normal, Reliability_Evaluation_Inhibit, Setting, Maintenance_Required, Direct_reading, Units, Acked_Transitions, Member_Of, Profile_Name

Object Type	Optional Properties Supported
Life Safety Zone	ValueSource, Description, Device_Type, Time_Delay, Tracking_Value, Life_Safety_Alarm_Values, Alarm_Values, Fault_Values, Time_Delay_Normal, Notification_Class, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Maintenance_Required, Event_Enable, Acked_Transitions, Member_Of, Profile_Name

Object Type	Optional Properties Supported
Lift	Description, Reliability, ReliabilityEvaluationInhibit, FloorText, CarDoorText, AssignedLandingCalls, MakingCarCall, RegisteredCarCall, CarAssignedDirection, CarDoorCommand, CarDoorZone, CarMode, CarLoad, CarLoadUnits, NextStoppingFloor, TimeDelay, TimeDelayNormal, EnergyMeter, EnergyMeterRef, CarDriveStatus, LandingDoorStatus, HigherDeck, LowerDeck, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, EventTimeStamps, Event_Enable, Acked_Transitions, NotifyType, NotificationClass , Profile_Name

Object Type	Optional Properties Supported
Loop	Description, Reliability, Update_Interval, Proportional_Constant, Proportional_Constant_Units, Integral_Constant, Integral_Constant_Units, Derivative_Constant, Derivative_Constant_Units, Bias, Maximum_Output, Minimum_Output, COV_Increment, Time_Delay, Notification_Class, Error_Limit, Deadband, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Time_Delay_Normal, Reliability_Evaluation_Inhibit, Profile_Name
Lighting Output	Description, Reliability, Transition, Feedback Value, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, Power, Instantaneous Power, Min Actual Value, Max Actual Value, Cov Increment, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Multi-state Input	Description, Device_Type, Reliability, State_Text, Time_Delay, Notification_Class, Alarm_Values, Fault_Values, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, TimeDelayNormal, ReliabilityEvaluationInhibit, Profile_Name
Multi-state Output	Description, Device_Type, Reliability, State_Text, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, Time_Delay, Notification_Class, Feedback_Value, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Time_Delay_Normal, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Multi-state Value	Description, Reliability, State_Text, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, Time_Delay, Notification_Class, Alarm_Values, Fault_Values, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Time_Delay_Normal, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Network Port	Description, RefPort, Command, MacAddress, LinkSpeeds, LinkSpeedAutonegotiate, NetworkInterfaceName, BacnetIpMode, IpAddress, BacnetIpUdpPort, IpSubnetMask, IpDefaultGateway, BacnetIpMulticastAddress, IpDnsServer, IpDhcpEnable, IpDhcpLeaseTime, IpDhcpLeaseTimeRemaining, IpDhcpServer, BacnetIpNatTraversal, BacnetIpGlobalAddress, BacnetIpv6Mode, Ipv6Address, Ipv6PrefixLength, BacnetIpv6UdpPort, Ipv6DefaultGateway, BacnetIpv6MulticastAddress, Ipv6DnsServer, Ipv6AutoAddressingEnable, Ipv6DhcpLeaseTime, Ipv6DhcpLeaseTimeRemaining, Ipv6DhcpServer, Ipv6ZoneIndex, BbmdBroadcastDistributionTable, BbmdAcceptFdRegistrations, BbmdForeignDeviceTable, FdBbmdAddress, FdSubscriptionLifetime, MaxMaster, MaxInfoFrames, SlaveProxyEnable, VirtualMacAddressTable, RoutingTable, EventDetectionEnable, Notification_Class, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, EventState, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Notification Class	Description, Profile_Name
Network Security	Description, Profile_Name
Notification Forwarder	Description, Reliability_Evaluation_Inhibit, Profile_Name
Program	Description_of_Halt, Reason_for_Halt, Program_Location, Description, Instance_of, Reliability, Event_Detection_Enable, Notification_Class, Event_Enable, Event_State, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Reliability_Evaluation_Inhibit, Profile_Name
Pulse Converter	Description, Input_Reference, Reliability, COV_Increment, COV_Period, Notification_Class, Time_Delay, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Time_Delay_Normal, Profile_Name

Object Type	Optional Properties Supported
Schedule	Description, WeeklySchedule, ExceptionSchedule, Event_Detection_Enable, Notification_Class, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Reliability_Evaluation_Inhibit, Profile_Name
Trend Log	Description, Start_Time, Stop_Time, Log_Device_Object_Property, Log_Interval, COV_Resubscription_Interval, Client_COV_Increment, Align_Intervals, Interval_Offset, Trigger, Reliability, Notification_Threshold, Records_Since_Notification, Last_Notify_Record, Notification_Class, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Event Log	Description, Reliability, Start_Time, Stop_Time, Notification_Threshold, Records_Since_Notification, Last_Notify_Record, Notification_Class, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Profile_Name
Trend Log Multiple	Description, Reliability, Start_Time, Stop_Time, Align_Intervals, Interval_Offset, Trigger, Notification_Threshold, Records_Since_Notification, Last_Notify_Record, Notification_Class, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Load Control	Description, ValueSource, State_Description, Reliability, Full_Duty_Baseline, Notification_Class, Time_Delay, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Time_Delay_Normal, Profile_Name
Structured View	Description, Node_Subtype, Subordinate_Annotations, Profile_Name
Access Door	Description, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, Door_Status, Lock_Status, Secured_Status, Door_Members, Door_Unlock_Delay_Time, Door_Alarm_State, Masked_Alarm_Values, Maintenance_Required, Time_Delay, Notification_Class, Alarm_Values, Fault_Values, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Time_Delay_Normal, ReliabilityEvaluationInhibit, Profile_Name

Object Type	Optional Properties Supported
Access Credential	Description, Days_Remaining, Uses_Remaining, Absentee_Limit, Belongs_To, Last_Access_Point, Last_Access_Event, Last_Use_Time, Trace_Flag, Threat_Authority, Extended_Time_Enable, Master_Exemption, Passback_Exemption, Occupancy_Exemption, AuthorizationExemptions, Reliability_Evaluation_Inhibit, Profile_Name
Access Point	Description, Authentication_Policy_List, Authentication_Policy_Names, Verification_Time, Lockout, Lockout_Relinquish_Time, Failed_Attempts, Failed_Attempt_Events, Max_Failed_Attempts, Failed_Attempts_Time, Threat_Level, Occupancy_Upper_Limit_Enforced, Occupancy_Lower_Limit_Enforced, Occupancy_Count_Adjust, Accompaniment_Time, Access_Event_Authentication_Factor, Muster_Point, Zone_To, Zone_From, Notification_Class, Transaction_Notification_Class, Access_Alarm_Events, Access_Transaction_Events, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Access Rights	Description Accompaniment Reliability_Evaluation_Inhibit, Profile_Name
Access User	Description, User_Name, User_External_Identifier, User_Information_Reference, Members, Member_Of, Reliability_Evaluation_Inhibit, Profile_Name
Credential Data Input	Description, Reliability, Supported_Format_Classes, EventDetectionEnable, Notification_Class, Event_Enable, EventState, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Reliability_Evaluation_Inhibit, Profile_Name
Characterstring Value	Description, Event_State, Reliability, Out_Of_Service, Time_Delay, Priority_Array, Relinquish_Default, Time_Delay_Normal, Notification_Class, Alarm_Values, Fault_Values, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Date Pattern Value	Description, Event_State, Reliability, Out_Of_Service, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, LastCommandTime, CommandTimeArray, Reliability_Evaluation_Inhibit, Profile_Name
Date Value	Description, Event_State, Reliability, Out_Of_Service, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, LastCommandTime, CommandTimeArray, Reliability_Evaluation_Inhibit, Profile_Name
Datetime Pattern Value	Description, Event_State, Reliability, Out_Of_Service, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, LastCommandTime, CommandTimeArray, Reliability_Evaluation_Inhibit, Profile_Name
Datetime Value	Description, Event_State, Reliability, Out_Of_Service, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, LastCommandTime, CommandTimeArray, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Integer Value	Description, Event_State, Reliability, Out_Of_Service, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, COV_Increment, Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Time_Delay_Normal, Min_Pres_Value, Max_Pres_Value, Resolution, Profile_Name

Object Type	Optional Properties Supported
Large Analog Value	Description, Event_State, Reliability, Out_Of_Service, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, COV_Increment, Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Time_Delay_Normal, Min_Pres_Value, Max_Pres_Value, Resolution, Profile_Name
Octetstring Value	Description, Event_State, Reliability, Out_Of_Service, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, Profile_Name

Object Type	Optional Properties Supported
Positive Integer Value	Description, Event_State, Reliability, Out_Of_Service, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, COV_Increment, Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Time_Delay_Normal, Min_Pres_Value, Max_Pres_Value, Resolution, Profile_Name
Time Pattern Value	Description, Event_State, Reliability, Out_Of_Service, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, Reliability_Evaluation_Inhibit, Profile_Name

Object Type	Optional Properties Supported
Time Value	Description, Event_State, Reliability, Out_Of_Service, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, Reliability_Evaluation_Inhibit, Profile_Name
Access Zone	Description, Occupancy_Count, Occupancy_Count_Enable, Adjust_Value, OccupancyUpperLimit, OccupancyLowerLimit, CredentialsInZone, LastCredentialAdded, LastCredentialAddedTime, LastCredentialRemoved, LastCredentialRemovedTime, PassbackMode, PassbackTimeout, Time_Delay, Notification_Class, Alarm_Values, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Time_Delay_Normal, Profile_Name
Alert Enrollment	Description, Event_Message_Texts, Event_Message_Texts_Config, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Profile_Name

Object Type	Optional Properties Supported
BitString Value	Description, Bit_Text, Event_State, Reliability, Out_Of_Service, Priority_Array, Relinquish_Default, CurrentCommandPriority, ValueSource, ValueSourceArray, LastCommandTime, CommandTimeArray, Cov_Increment, Time_Delay, Notification_Class, Alarm_Values, Bit_Mask, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps, Event_Message_Texts, Event_Message_Texts_Config, Event_Detection_Enable, Event_Algorithm_Inhibit_Ref, Event_Algorithm_Inhibit, Reliability_Evaluation_Inhibit, Time_Delay_Normal, Profile_Name

Data Link Layer Options:

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ATA 878.1, EIA-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 No

Note: Static device binding in the BACnet Explorer requires that the user manually enter the BACnet network number and MAC address of the target device.

Networking Options:

- Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)
 - Does the BBMD support registrations by Foreign Devices? Yes No
 - Does the BBMD support network address translation? Yes No

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 X 0208

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

NA

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)