

1. BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Date: 06-Dec-2017
Vendor Name: Trend Control Systems Ltd.
Product Name: IQ4
Product Model Number: IQ411/BAC/230, IQ411/LAN/BAC/230, IQ411/BAC/24, IQ411/LAN/BAC/24, IQ412/BAC/230, IQ412/LAN/BAC/230, IQ412/BAC/24, IQ412/LAN/BAC/24, IQ422/12/BAC/230, IQ422/12/LAN/BAC/230, IQ422/12/BAC/24, IQ422/12/LAN/BAC/24, IQ4E/16/BAC/230, IQ4E/32/BAC/230, IQ4E/64/BAC/230, IQ4E/96/BAC/230, IQ4E/128/BAC/230, IQ4E/160/BAC/230, IQ4E/192/BAC/230, IQ4E/16/LAN/BAC/230, IQ4E/32/LAN/BAC/230, IQ4E/64/LAN/BAC/230, IQ4E/96/LAN/BAC/230, IQ4E/128/LAN/BAC/230, IQ4E/160/LAN/BAC/230, IQ4E/192/LAN/BAC/230, IQ422/12/XNC/BAC/24VAC, IQ422/12/XNC/BAC/230, IQ422/12/XNC/LAN/BAC/24VAC, IQ422/12/XNC/LAN/BAC/230, IQ422/00/XNC/BAC/24VAC, IQ422/00/XNC/BAC/230, IQ422/00/XNC/LAN/BAC/24VAC, IQ422/00/XNC/LAN/BAC/230, IQ4E/96/XNC/BAC/230, IQ4E/96/XNC/LAN/BAC/230, IQ4E/16/BAC/24VAC, IQ4E/32/BAC/24VAC, IQ4E/64/BAC/24VAC, IQ4E/96/BAC/24VAC, IQ4E/128/BAC/24VAC, IQ4E/160/BAC/24VAC, IQ4E/192/BAC/24VAC, IQ4E/16/LAN/BAC/24VAC, IQ4E/32/LAN/BAC/24VAC, IQ4E/64/LAN/BAC/24VAC, IQ4E/96/LAN/BAC/24VAC, IQ4E/128/LAN/BAC/24VAC, IQ4E/160/LAN/BAC/24VAC, IQ4E/192/LAN/BAC/24VAC, IQ4E/96/XNC/BAC/24VAC, IQ4E/96/XNC/LAN/BAC/24VAC.

Applications Software Version: 3.50 **Firmware Revision:** 3.50 **BACnet Protocol Revision:** 15

1.1. PRODUCT DESCRIPTION

The IQ4 is a configurable plant controller using BACnet over IP to interface with 3rd party BACnet systems.

1.2. BACNET STANDARDISED 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)

1.3. LIST ALL BACNET INTEROPERABILITY BUILDING BLOCKS SUPPORTED (ANNEX K)

ID	BIBB	Title
1.1	DS-RP-A	Data Sharing-ReadProperty-A
1.2	DS-RP-B	Data Sharing-ReadProperty-B
1.3	DS-RPM-A	Data Sharing Read Property Multiple A
1.4	DS-RPM-B	Data Sharing ReadPropertyMultiple-B
1.7	DS-WP-A	Data Sharing-WriteProperty-A
1.8	DS-WP-B	Data Sharing-WriteProperty-B
1.10	DS-WPM-B	Data Sharing-WritePropertyMultiple-B
1.11	DS-COV-A	Data Sharing-ChangeOfValue-A
1.12	DS-COV-B	Data Sharing-ChangeOfValue-B
1.15	DS-COVU-A	Data Sharing-COV-Unsolicited-A
2.2	AE-N-I-B	Alarm and Event-Notification Internal-B
2.5	AE-ACK-B	Alarm and Event-ACK-B
2.9	AE_ESUM_B	Alarm And Event Enrolment Summary
2.11	AE-INFO-B	Alarm and Event-Information-B
3.2	SHED_I_B	Scheduling-Internal-B
3.3	SCHED_E_B	Scheduling-External-B
4.2	T-VMT-I-B	Trending-Viewing and Modifying Trends Internal- B
4.5	T-ATR-B	Trending_ Automated Trend Retrieval-B
5.1	DM-DDB-A	Device Management-Dynamic Device Binding-A
5.2	DM-DDB-B	Device Management-Dynamic Device Binding-B
5.4	DM-DOB-B	Device Management-Dynamic Object Binding-B
5.6	DM-DCC-B	Device Management-DeviceCommunicationControl-B
5.12	DM-TS-B	Device Management-TimeSynchronisation-B
5.14	DM-UTC-B	Device Management-UTCTimeSynchronisation-B
5.16	DM-RD-B	Device Management-ReinitializeDevice-B
5.18	DM-BR-B	Device Management-Backup and Restore-B

1.4. SEGMENTATION CAPABILITY

- Segmented requests supported Window Size = 1
- Segmented responses supported Window Size = 1

1.5. 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 proprietary properties and for each its property identifier, datatype, and meaning.
- 6) List of all properties that are conditionally writable where not otherwise required by this standard.
- 7) List of any property range restrictions.

1.5.1. Analogue Input Object Type A

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Device_Type
 - Reliability
 - Event_Enable
 - High_Limit
 - Limit_Enable
 - Low_Limit
 - Notification_Class
 - Time_Delay
 - Acked_Transactions
 - Notify_Type
 - Deadband
 - Event_Timestamps
 - COV_Increment
4. Writeable Properties:
 - Event_Enable
 - High_Limit
 - Limit_Enable
 - Low_Limit
 - Notification_Class
 - Time_Delay
 - COV_Increment
5. Proprietary Properties: None
6. Property Range Restrictions:

High_Limit	-1e20 to 1e20, resolution: 7 digits
Low_Limit	-1e20 to 1e20, resolution: 7 digits
Time_Delay	0 to 172800, resolution: 1
Notification_Class	Must be a valid notification class
EVENT_ENABLE	FFT not allowed

1.5.2. Analogue Input Object Type B

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Device_Type
 - Reliability
 - COV_Increment
4. Writeable Properties:
 - COV_Increment
5. Proprietary Properties: None
6. Property Range Restrictions: None

1.5.3. Analogue Output Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Device_Type
 - Reliability
 - COV_Increment
4. Writeable Properties:
 - Present_Value
 - COV_Increment
5. Proprietary Properties: None

- 6. Property Range Restrictions:
 - Present_Value -1e20 to 1e20, resolution: 7 digits

1.5.4. Analogue Value Object Type

- 1. Creatable: No
- 2. Deletable: No
- 3. Optional Properties Supported:
 - Reliability
 - COV_Increment
- 4. Writeable Properties:
 - Present_Value
 - COV_Increment
 - Units
- 5. Proprietary Properties: None
- 6. Property Range Restrictions:
 - Present_Value -1e20 to 1e20, resolution: 7 digits
 - Units 0 to 255 bytes

1.5.5. Binary Input Object Type

- 1. Creatable: No
- 2. Deletable: No
- 3. Optional Properties Supported:
 - Device_Type
 - Alarm_Value
 - Elapsed_Acative_Time
 - Event_Enable
 - Notification_Class
 - Notify_Type
 - Reliability
 - Time_Delay
 - Acked_Transitions
 - Event_Time_Stamps
 - Time_Of_Aactive_Time_Reset
- 4. Writeable Properties:
 - Alarm_Value
 - Elapsed_Active_Time
 - Event_Enable
 - Notification_Class
 - Time_Delay
- 5. Proprietary Properties:
- 6. Property Range Restrictions: None
 - Elapsed_Active_Time 0 to 235926008, resolution: 1
 - Time_Delay 0 to 172800, resolution: 1
 - Notification_Class Must be a valid notification class
 - Event_Enable FFT and FTT not allowed

1.5.6. Binary Output Object Type

- 1. Creatable: No
- 2. Deletable: No
- 3. Optional Properties Supported:
 - Device_Type
 - Elapsed_Active_Time
 - Property held internally as elapsed active hours - type REAL, therefore values of greater than 7 digits in resolution may have minor inaccuracies due to Floating Point to integer conversion process.
 - Reliability
 - Time_Of_Active_Time_Reset
- 4. Writeable Properties:
 - Present_Value
 - Elapsed_Active_Time
- 5. Proprietary Properties: None
- 6. Property Range Restrictions:
 - Elapsed_Active_Time 0 to 235926008, resolution 1

1.5.7. Binary Value Object Type

- 1. Creatable: No
- 2. Deletable: No
- 3. Optional Properties Supported:
 - Reliability
- 4. Writeable Properties:
 - Present_Value
- 5. Proprietary Properties: None
- 6. Property Range Restrictions: None

1.5.8. Device Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Location
 - Max_Segments_Accepted
 - Local_Date
 - Local_Time
 - Utc_Offset
 - Daylight_Savings_Status
 - Apdu_Segment_Timeout
 - Active_Cov_Subscriptions
 - Configuration_Files
 - Last_Restore_Time
 - Backup_Failure_Timeout
 - Backup_Preparation_Time
 - Restore_Preparation_Time
 - Restore_CompletionTime
 - Bacnup_And_Restore_State
4. Writeable Properties:
 - Local_Date
 - Local_Time
 - Utc_Offset
 - Object_Name
 - Backup_Failure_Timeout
5. Proprietary Properties: None
6. Property Range Restrictions:
 - Utc_Offset -780 to +780, resolution: 1
 - Local_Date 01/01/2000 to 12/31/2099

1.5.9. Notification Class Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported: None
4. Writeable Properties:
 - Recipient_List
5. Proprietary Properties: None
6. Property Range Restrictions: None

1.5.10. Schedule Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Weekly_Schedule
 - Exception_Schedule
4. Writeable Properties:
 - Schedule_Default
 - Effective_Period
 - List_Of_Object_Property_References
5. Proprietary Properties: None
6. Property Range Restrictions: None

Note: The list of List_Of_Object_Property_References property will maintain entries that are configured within the Trend strategy file.

1.5.11. Trend Log Object

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Records_Since_Notification
 - Last_Notify_Record
 - Notification_Class
 - Event_Enable
 - Acked_Transactions
 - Notify_Type
 - Event_Time_Stamps
4. Writeable Properties:
 - Notification_Threshold
 - Log_Interval
 - Record_Count
 - Log_Enable
5. Proprietary Properties: None
6. Property Range Restrictions:
 - Notification_Threshold 0 to 1000
 - Log_Interval 0 to 8640000, resolution 100 This property is held internally as seconds so values with the bottom two digits set will be truncated.
 - Record_Count Only writes of value 0 allowed.

1.5.12. Calendar Object

1. Creatable: Yes
2. Deletable: Yes
3. Optional Properties Supported: None
4. Writeable Properties Supported:
 - Date_List
5. Proprietary Properties: None
6. Property Range Restrictions: None

1.5.13. File Object

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported: none
4. Writeable Properties:
 - File_Size
 - Archive
5. Proprietary Properties: None
6. Property Range Restrictions:
 - File_Access_Method = STREAM_ACCESS only.

1.6. 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):
- 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:

1.7. 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.

1.8. 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

1.9. 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

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

N/A

Please send any comments about this or any other Trend technical publication to techpubs@trendcontrols.com

© 2017 Honeywell Technologies Sàrl, E&ES Division. All rights reserved. Manufactured for and on behalf of the Environmental & Energy Solutions Division of Honeywell Technologies Sàrl, Z.A. La Pièce, 16, 1180 Rolle, Switzerland by its Authorized Representative, Trend Control Systems Limited.

Trend Control Systems Limited reserves the right to revise this publication from time to time and make changes to the content hereof without obligation to notify any person of such revisions or changes.

Trend Control Systems Limited

Albery House, Springfield Road, Horsham, West Sussex, RH12 2PQ, UK. Tel:+44 (0)1403 211888 Fax:+44 (0)1403 241608 www.trendcontrols.com

1. BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Date: 06-Dec-2017
Vendor Name: Trend Control Systems Ltd.
Product Name: IQ4NC/.../
Product Model Number: IQ4NC/12/230, IQ4NC/12/24VAC, IQ4NC/00/230, IQ4NC/00/24VAC, IQ4NC/16/XNC/230, IQ4NC/32/XNC/230, IQ4NC/16/XNC/24VAC, IQ4NC/32/XNC/24VAC.
Applications Software Version: 3.50 **Firmware Revision:** 3.50 **BACnet Protocol Revision:** 15

1.1. PRODUCT DESCRIPTION

The IQ4NC/.../ is a configurable plant controller using BACnet over IP to interface with 3rd party BACnet systems and a BACnet IP to MSTP Router.

1.2. BACNET STANDARDISED 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)

1.3. LIST ALL BACNET INTEROPERABILITY BUILDING BLOCKS SUPPORTED (ANNEX K)

ID	BIBB	Title
1.1	DS-RP-A	Data Sharing-ReadProperty-A
1.2	DS-RP-B	Data Sharing-ReadProperty-B
1.3	DS-RPM-A	Data Sharing Read Property Multiple A
1.4	DS-RPM-B	Data Sharing ReadPropertyMultiple-B
1.7	DS-WP-A	Data Sharing-WriteProperty-A
1.8	DS-WP-B	Data Sharing-WriteProperty-B
1.10	DS-WPM-B	Data Sharing-WritePropertyMultiple-B
1.11	DS-COV-A	Data Sharing-ChangeOfValue-A
1.12	DS-COV-B	Data Sharing-ChangeOfValue-B
1.15	DS-COVU-A	Data Sharing-COV-Unsolicited-A
2.2	AE-N-I-B	Alarm and Event-Notification Internal-B
2.5	AE-ACK-B	Alarm and Event-ACK-B
2.9	AE_ESUM_B	Alarm And Event Enrolment Summary
2.11	AE-INFO-B	Alarm and Event-Information-B
3.2	SHED_I_B	Scheduling-Internal-B
3.3	SCHED_E_B	Scheduling-External-B
4.2	T-VMT-I-B	Trending-Viewing and Modifying Trends Internal- B
4.5	T-ATR-B	Trending_Automated Trend Retrieval-B
5.1	DM-DDB-A	Device Management-Dynamic Device Binding-A
5.2	DM-DDB-B	Device Management-Dynamic Device Binding-B
5.4	DM-DOB-B	Device Management-Dynamic Object Binding-B
5.6	DM-DCC-B	Device Management-DeviceCommunicationControl-B
5.7	DM-PT-B	Device Management-Private Transfer-B
5.12	DM-TS-B	Device Management-TimeSynchronisation-B
5.14	DM-UTC-B	Device Management-UTCTimeSynchronisation-B
5.16	DM-RD-B	Device Management-ReinitializeDevice-B
5.18	DM-BR-B	Device Management-Backup and Restore-B
5.30	NM-RC-B	Network Management-Router Configuration-B

1.4. SEGMENTATION CAPABILITY

- Segmented requests supported Window Size = 1
- Segmented responses supported Window Size = 1

1.5. 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 proprietary properties and for each its property identifier, datatype, and meaning.
- 6) List of all properties that are conditionally writable where not otherwise required by this standard.
- 7) List of any property range restrictions.

1.5.1. Analogue Input Object Type A

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Device_Type
 - Reliability
 - Event_Enable
 - High_Limit
 - Limit_Enable
 - Low_Limit
 - Notification_Class
 - Time_Delay
 - Acked_Transitions
 - Notify_Type
 - Deadband
 - Event_Timestamps
 - COV_Increment
4. Writeable Properties:
 - Event_Enable
 - High_Limit
 - Limit_Enable
 - Low_Limit
 - Notification_Class
 - Time_Delay
 - COV_Increment
5. Proprietary Properties: None
6. Property Range Restrictions:

High_Limit	-1e20 to 1e20, resolution: 7 digits
Low_Limit	-1e20 to 1e20, resolution: 7 digits
Time_Delay	0 to 172800, resolution: 1
Notification_Class	Must be a valid notification class
Event_Enable	FTT not allowed

1.5.2. Analogue Input Object Type B

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Device_Type
 - Reliability
 - COV_Increment
4. Writeable Properties:
 - COV_Increment
5. Proprietary Properties: None
6. Property Range Restrictions: None

1.5.3. Analogue Output Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Device_Type
 - Reliability
 - COV_Increment
4. Writeable Properties:
 - Present_Value
 - COV_Increment
5. Proprietary Properties: None
6. Property Range Restrictions:

Present_Value	-1e20 to 1e20, resolution: 7 digits
---------------	-------------------------------------

1.5.4. Analogue Value Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Reliability
 - COV_Increment
4. Writeable Properties:
 - Present_Value
 - COV_Increment
 - Units
5. Proprietary Properties: None
6. Property Range Restrictions:
 - Present_Value -1e20 to 1e20, resolution: 7 digits
 - Units 0 to 255 bytes

1.5.5. Binary Input Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Device_Type
 - Alarm_Value
 - Elapsed_Active_Time
 - Event_Enable
 - Notification_Class
 - Notify_Type
 - Reliability
 - Time_Delay
 - Acked_Transitions
 - Event_Time_Stamps
 - Time_Of_Active_Time_Reset
4. Writeable Properties:
 - Alarm_Value
 - Elapsed_Active_Time
 - Event_Enable
 - Notification_Class
 - Time_Delay
5. Proprietary Properties: None
6. Property Range Restrictions: None
 - Elapsed_Active_Time 0 to 235926008, resolution: 1
 - Time_Delay 0 to 172800, resolution: 1
 - Notification_Class Must be a valid notification class
 - Event_Enable FFT and FTT not allowed

1.5.6. Binary Output Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Device_Type
 - Elapsed_Active_Time
 - Property held internally as elapsed active hours - type REAL, therefore values of greater than 7 digits in resolution may have minor inaccuracies due to Floating Point to integer conversion process.
 - Reliability
 - Time_Of_Active_Time_Reset
4. Writeable Properties:
 - Present_Value
 - Elapsed_Active_Time
5. Proprietary Properties: None
6. Property Range Restrictions:
 - Elapsed_Active_Time 0 to 235926008, resolution 1

1.5.7. Binary Value Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Reliability
4. Writeable Properties:
 - Present_Value
5. Proprietary Properties: None
6. Property Range Restrictions: None

1.5.8. Device Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Location
 - Max_Segments_Accepted
 - Local_Date
 - Local_Time
 - Utc_Offset
 - Daylight_Savings_Status
 - Apdu_Segment_Timeout
 - Active_Cov_Subscriptions
 - Configuration_Files
 - Last_Restore_Time
 - Backup_Failure_Timeout
 - Backup_Preperation_Time
 - Restore_Preparation_Time
 - Restore_CompletionTime
 - Backup_And_Restore_State
4. Writeable Properties:
 - Local_Date
 - Local_Time
 - Utc_Offset
 - Object_Name
 - Max_Master
 - Max_Info_Frames
 - Backup_Failure_Timeout
5. Proprietary Properties: None
6. Property Range Restrictions:

Utc_Offset	-780 to +780, resolution: 1
Local_Date	01/01/2000 to 12/31/2099

1.5.9. Notification Class Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported: None
4. Writeable Properties:
 - Recipeint_List
5. Proprietary Properties: None
6. Property Range Restrictions: None

1.5.10. Schedule Object Type

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Weekly_Schedule
 - Exception_Schedule
4. Writeable Properties:
 - Schedule_Default
 - Effective_Period
 - List_Of_Object_Property_References
5. Proprietary Properties: None
6. Property Range Restrictions: None

Note: The list of List_Of_Object_Property_References property will maintain entries that are configured within the Trend strategy file.

1.5.11. Trend Log Object

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported:
 - Records_Since_Notification
 - Last_Notify_Record
 - Notification_Class
 - Event_Enable
 - Acked_Transitions
 - Notify_Type
 - Event_Time_Stamps
4. Writeable Properties:
 - Notification_Threshold
 - Log_Interval
 - Record_Count
 - Log_Enable
5. Proprietary Properties: None
6. Property Range Restrictions:

Notification_Threshold	0 to 1000	
Log_Interval	0 to 8640000, resolution 100	This property is held internally as seconds so values with the bottom two digits set will be truncated.
Record_Count	Only writes of value 0 allowed	

1.5.12. Calendar Object

1. Creatable: Yes
2. Deletable: Yes
3. Optional Properties Supported: None
4. Writeable Properties Supported:
 - Date_List
5. Proprietary Properties: None
6. Property Range Restrictions: None

1.5.13. File Object

1. Creatable: No
2. Deletable: No
3. Optional Properties Supported: none
4. Writeable Properties:
 - File_Size
 - Archive
5. Proprietary Properties: None
6. Property Range Restrictions:
 - File_Access_Method = STREAM_ACCESS only.

1.6. 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): 9k6, 19k2, 38k4, 76k8
- 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:

1.7. 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.

1.8. NETWORKING OPTIONS

- Router, Clause 6 - Routing Configurations IP to MS/TP.
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)

Does the BBMD support registrations by Foreign Devices?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does the BBMD support network address translation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

1.9. CHARACTER SETS SUPPORTED

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

- | | | |
|---|---|-------------------------------------|
| <input checked="" type="checkbox"/> ISO 10646 (UTF-8) | <input type="checkbox"/> IBM™/Microsoft™ DBCS | <input type="checkbox"/> ISO 8859-1 |
| <input type="checkbox"/> ISO 10646 (UCS-2) | <input type="checkbox"/> ISO 10646 (UCS-4) | <input type="checkbox"/> JIS C 6226 |

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

N/A

Please send any comments about this or any other Trend technical publication to techpubs@trendcontrols.com

© 2017 Honeywell Technologies Sàrl, E&ES Division. All rights reserved. Manufactured for and on behalf of the Environmental & Energy Solutions Division of Honeywell Technologies Sàrl, Z.A. La Pièce, 16, 1180 Rolle, Switzerland by its Authorized Representative, Trend Control Systems Limited.

Trend Control Systems Limited reserves the right to revise this publication from time to time and make changes to the content hereof without obligation to notify any person of such revisions or changes.

Trend Control Systems Limited

Albery House, Springfield Road, Horsham, West Sussex, RH12 2PQ, UK. Tel:+44 (0)1403 211888 Fax:+44 (0)1403 241608 www.trendcontrols.com
