



# Protocol Implementation Conformance Statement

## CBM / CBT

|                           |  |
|---------------------------|--|
| Date                      | June 2017  |
| Vendor Name               | Cylon Controls   |
| Product Name:             | CBM / CBT  |
| Product Model Number:     | CBM08, CBM12, CBM16, CBM24, CBM24K, CBM24LC, CBT12, CBT12iVAV, CBT14 |
| Firmware Revision:        | 7.8.0 or later   |
| BACnet Protocol Revision: | 14   |

### Product Description

The CBM/CBT BACnet Field controller is part of the Cylon BACnet system. The Controller can operate stand-alone or can be networked to perform complex Plant (CBM) / Unitary (CBT) HVAC control, monitoring and energy management functions via BACnet MS/TP.

### BACnet Standardised Device Profile (Annex L)

- BACnet Operator Workstation (B-AWS)
- 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 Other (B-OTHER)



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PICS0005 rev 27

## BACnet Interoperability Building Blocks Supported (Annex K)

| ID     | BIBB      | Application Service                                |
|--------|-----------|--|
| K.1.1  | DS-RP-A   | Data Sharing – ReadProperty-A                      |
| K.1.2  | DS-RP-B   | Data Sharing – ReadProperty-B                      |
| K.1.4  | DS-RPM-B  | Data Sharing – ReadPropertyMultiple-B              |
| K.1.7  | DS-WP-A   | Data Sharing – WriteProperty-A                     |
| K.1.8  | DS-WP-B   | Data Sharing – WriteProperty-B                     |
| K.1.10 | DS-WPM-B  | Data Sharing – WritePropertyMultiple-B             |
| K.1.12 | DS-COV-B  | Data Sharing – COV-B                               |
| K.2.2  | AE-N-I-B  | Alarm & Event – Notification Internal-B            |
| K.2.5  | AE-ACK-B  | Alarm & Event – Ack-B                              |
| K.2.7  | AE-ASUM-B | Alarm & Event – Alarm Summary-B                    |
| K.2.11 | AE-INFO-B | Alarm & Event – Information-B                      |
| K.3.2  | SCHED-I-B | Scheduling – Internal-B                            |
| K.4.2  | T-VMT-I-B | Trending – Viewing and Modifying Trends Internal-B |
| K.4.5  | T-ATR-B   | Trending – Automated Trend Retrieval-B             |
| K.5.1  | DM-DDB-A  | Device Management – Dynamic Device Binding-A       |
| K.5.2  | DM-DDB-B  | Device Management – Dynamic Device Binding-B       |
| K.5.4  | DM-DOB-B  | Device Management – Dynamic Object Binding-B       |
| K.5.6  | DM-DCC-B  | Device Management – Device Communication Control-B |
| K.5.12 | DM-TS-B   | Device Management – TimeSynchronization-B          |
| K.5.14 | DM-UTC-B  | Device Management – UTCTimeSynchronization-B       |
| K.5.16 | DM-RD-B   | Device Management – ReinitializeDevice-B           |

### Segmentation Capability

- Able to transmit segmented messages
- Able to receive segmented messages

Window Size: N/A

Window Size: N/A

## Standard Services Supported

| Service           | Property  |
|-------------------|---|
| Object access     | Write property  |
| Object access     | Read property   |
| Object access     | Read property multiple  |
| Object access     | Write property multiple   |
| Object access     | Read range<br><b>Note:</b> Used for reading TL and COV subscriptions          |
| Remote management | Who-is  |
| Remote management | I-am  |
| Remote management | Who-has   |
| Remote management | I-have  |
| Remote management | Unconfirmed private transfer<br><b>Note:</b> used by Cylon Engineering Center |
| Remote management | Time synchronization  |
| Remote management | UTC time synchronization  |
| Remote management | Device communication control  |
| Remote management | Reinitialize device   |
| File access       | Atomic write file   |
| File access       | Atomic read file  |
| Alarm/Event       | Acknowledge alarm   |
| Alarm/Event       | Get alarm summary   |
| Alarm/Event       | Get event information   |
| Alarm/Event       | Confirmed event notification  |
| Alarm/Event       | Unconfirmed event notification  |
| Alarm/Event       | Subscribe COV   |
| Alarm/Event       | Confirmed COV notification  |
| Alarm/Event       | Unconfirmed COV notification  |

## Standard Object Types Supported

- access-door
- accumulator
- analog-input
- analog-output
- analog-value
- averaging
- binary-input
- binary-output
- binary-value
- calendar
- command
- device
- event-enrollment
- event-log
- file
- group
- life-safety-point
- life-safety-zone
- load-control
- loop
- multi-state-input
- multi-state-output
- multi-state-value
- notification-class
- program
- pulse-converter
- schedule
- structured-view
- trend-log
- trend-log-multiple

### For all of these objects the following apply:

1. The CreateObject and DeleteObject services are not supported, so no objects are dynamically creatable or deletable through BACnet service requests, although these objects are dynamically creatable and deletable through Cylon Control's Engineering Center Software.
2. Client functionality is used by the controller for reading and writing point objects present values between this controller and other BACnet controllers on the network. These transfers are set-up at engineering time using the Cylon Engineering Center.
3. No general range restrictions exist.
4. Not all instances support optional properties (see tables below).

For each of these objects, the supported properties are listed below:

### analog-input

Dynamically Creatable

Dynamically Deletable

| Property           | Read                                | Write                               | optional                            |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| object-identifier  | <input checked="" type="checkbox"/> |                                     |                                     |
| object-name        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| object-type        | <input checked="" type="checkbox"/> |                                     |                                     |
| present-value      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| property-list      | <input checked="" type="checkbox"/> |                                     |                                     |
| status-flags       | <input checked="" type="checkbox"/> |                                     |                                     |
| event-state        | <input checked="" type="checkbox"/> |                                     |                                     |
| reliability        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| out-of-service     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| units              | <input checked="" type="checkbox"/> |                                     |                                     |
| min-pres-value     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| max-pres-value     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| cov-increment      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| time-delay         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| notification-class | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| high-limit         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| low-limit          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| deadband           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| limit-enable       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| event-enable       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| acked-transitions  | <input checked="" type="checkbox"/> |                                     |                                     |
| notify-type        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| event-time-stamps  | <input checked="" type="checkbox"/> |                                     |                                     |
| profile-name       | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |

**analog-output** Dynamically Creatable Dynamically Deletable

| Property           | Read                                | Write                               | optional                            |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| object-identifier  | <input checked="" type="checkbox"/> |                                     |                                     |
| object-name        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| object-type        | <input checked="" type="checkbox"/> |                                     |                                     |
| present-value      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| property-list      | <input checked="" type="checkbox"/> |                                     |                                     |
| status-flags       | <input checked="" type="checkbox"/> |                                     |                                     |
| event-state        | <input checked="" type="checkbox"/> |                                     |                                     |
| reliability        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| out-of-service     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| units              | <input checked="" type="checkbox"/> |                                     |                                     |
| min-pres-value     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| max-pres-value     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| resolution         | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| priority-array     | <input checked="" type="checkbox"/> |                                     |                                     |
| relinquish-default | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| cov-increment      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| time-delay         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| notification-class | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| high-limit         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| low-limit          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| deadband           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| limit-enable       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| event-enable       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| acked-transitions  | <input checked="" type="checkbox"/> |                                     |                                     |
| notify-type        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| event-time-stamps  | <input checked="" type="checkbox"/> |                                     |                                     |
| profile-name       | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |

**analog-value** Dynamically Creatable Dynamically Deletable

| Property           | Read                                | Write                               | optional                            |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| object-identifier  | <input checked="" type="checkbox"/> |                                     |                                     |
| object-name        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| object-type        | <input checked="" type="checkbox"/> |                                     |                                     |
| present-value      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| property-list      | <input checked="" type="checkbox"/> |                                     |                                     |
| status-flags       | <input checked="" type="checkbox"/> |                                     |                                     |
| event-state        | <input checked="" type="checkbox"/> |                                     |                                     |
| out-of-service     | <input checked="" type="checkbox"/> |                                     |                                     |
| units              | <input checked="" type="checkbox"/> |                                     |                                     |
| priority-array     | <input checked="" type="checkbox"/> |                                     |                                     |
| relinquish-default | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| time-delay         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| notification-class | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| high-limit         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| low-limit          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| deadband           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| limit-enable       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| event-enable       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| acked-transitions  | <input checked="" type="checkbox"/> |                                     |                                     |
| notify-type        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| event-time-stamps  | <input checked="" type="checkbox"/> |                                     |                                     |
| cov-increment      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| profile-name       | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |

**binary-input** Dynamically Creatable Dynamically Deletable

| Property           | Read                                | Write                               | optional                            |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| object-identifier  | <input checked="" type="checkbox"/> |                                     |                                     |
| object-name        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| object-type        | <input checked="" type="checkbox"/> |                                     |                                     |
| present-value      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| property-list      | <input checked="" type="checkbox"/> |                                     |                                     |
| status-flags       | <input checked="" type="checkbox"/> |                                     |                                     |
| event-state        | <input checked="" type="checkbox"/> |                                     |                                     |
| reliability        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| out-of-service     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| polarity           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| inactive-text      | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| active-text        | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| time-delay         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| notification-class | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| alarm-value        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| event-enable       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| acked-transitions  | <input checked="" type="checkbox"/> |                                     |                                     |
| notify-type        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| event-time-stamps  | <input checked="" type="checkbox"/> |                                     |                                     |
| profile-name       | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |



**binary-output** Dynamically Creatable Dynamically Deletable

| Property           | Read                                | Write                               | optional                            |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| object-identifier  | <input checked="" type="checkbox"/> |                                     |                                     |
| object-name        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| object-type        | <input checked="" type="checkbox"/> |                                     |                                     |
| present-value      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| property-list      | <input checked="" type="checkbox"/> |                                     |                                     |
| status-flags       | <input checked="" type="checkbox"/> |                                     |                                     |
| event-state        | <input checked="" type="checkbox"/> |                                     |                                     |
| reliability        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| out-of-service     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| polarity           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| inactive-text      | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| active-text        | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| minimum-off-time   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| minimum-on-time    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| priority-array     | <input checked="" type="checkbox"/> |                                     |                                     |
| relinquish-default | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| time-delay         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| alarm-value        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| notification-class | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| feedback-value     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| event-enable       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| acked-transitions  | <input checked="" type="checkbox"/> |                                     |                                     |
| notify-type        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| event-time-stamps  | <input checked="" type="checkbox"/> |                                     |                                     |
| profile-name       | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |

**binary-value** Dynamically Creatable Dynamically Deletable

| Property           | Read                                | Write                               | optional                            |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| object-identifier  | <input checked="" type="checkbox"/> |                                     |                                     |
| object-name        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| object-type        | <input checked="" type="checkbox"/> |                                     |                                     |
| present-value      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| property-list      | <input checked="" type="checkbox"/> |                                     |                                     |
| status-flags       | <input checked="" type="checkbox"/> |                                     |                                     |
| event-state        | <input checked="" type="checkbox"/> |                                     |                                     |
| out-of-service     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| inactive-text      | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| active-text        | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| minimum-off-time   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| minimum-on-time    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| priority-array     | <input checked="" type="checkbox"/> |                                     |                                     |
| relinquish-default | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| time-delay         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| notification-class | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| alarm-value        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| event-enable       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| acked-transitions  | <input checked="" type="checkbox"/> |                                     |                                     |
| notify-type        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| event-time-stamps  | <input checked="" type="checkbox"/> |                                     |                                     |
| profile-name       | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |

**calendar** Dynamically Creatable Dynamically Deletable

| Property          | Read                                | Write                               | optional                            |
|-------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| object-identifier | <input checked="" type="checkbox"/> |                                     |                                     |
| object-name       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| object-type       | <input checked="" type="checkbox"/> |                                     |                                     |
| present-value     | <input checked="" type="checkbox"/> |                                     |                                     |
| property-list     | <input checked="" type="checkbox"/> |                                     |                                     |
| date-list         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| profile-name      | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |

**device** Dynamically Creatable Dynamically Deletable

| Property                        | Read                                | Write                               | optional                            |
|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| object-identifier               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| object-name                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| object-type                     | <input checked="" type="checkbox"/> |                                     |                                     |
| property-list                   | <input checked="" type="checkbox"/> |                                     |                                     |
| system-status                   | <input checked="" type="checkbox"/> |                                     |                                     |
| vendor-name                     | <input checked="" type="checkbox"/> |                                     |                                     |
| vendor-identifier               | <input checked="" type="checkbox"/> |                                     |                                     |
| model-name                      | <input checked="" type="checkbox"/> |                                     |                                     |
| firmware-revision               | <input checked="" type="checkbox"/> |                                     |                                     |
| application-software-version    | <input checked="" type="checkbox"/> |                                     |                                     |
| protocol-version                | <input checked="" type="checkbox"/> |                                     |                                     |
| protocol-revision               | <input checked="" type="checkbox"/> |                                     |                                     |
| protocol-services-supported     | <input checked="" type="checkbox"/> |                                     |                                     |
| protocol-object-types-supported | <input checked="" type="checkbox"/> |                                     |                                     |
| object-list                     | <input checked="" type="checkbox"/> |                                     |                                     |
| max-apdu-length-accepted        | <input checked="" type="checkbox"/> |                                     |                                     |
| segmentation-supported          | <input checked="" type="checkbox"/> |                                     |                                     |
| local-time                      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| local-date                      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| utc-offset                      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| daylight-savings-status         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| apdu-timeout                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| number-of-apdu-retries          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| max-master                      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| max-info-frames                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| description                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| location                        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| device-address-binding          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| database-revision               | <input checked="" type="checkbox"/> |                                     |                                     |
| active-cov-subscriptions        | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| profile-name                    | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |

**file** Dynamically Creatable Dynamically Deletable

| Property           | Read                                | Write                               | optional                            |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| object-identifier  | <input checked="" type="checkbox"/> |                                     |                                     |
| object-name        | <input checked="" type="checkbox"/> |                                     |                                     |
| object-type        | <input checked="" type="checkbox"/> |                                     |                                     |
| property-list      | <input checked="" type="checkbox"/> |                                     |                                     |
| file-type          | <input checked="" type="checkbox"/> |                                     |                                     |
| file-size          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| modification-date  | <input checked="" type="checkbox"/> |                                     |                                     |
| archive            | <input checked="" type="checkbox"/> |                                     |                                     |
| read-only          | <input checked="" type="checkbox"/> |                                     |                                     |
| file-access-method | <input checked="" type="checkbox"/> |                                     |                                     |
| profile-name       | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |

**notification-class** Dynamically Creatable Dynamically Deletable

| Property           | Read                                | Write                               | optional                            |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| object-identifier  | <input checked="" type="checkbox"/> |                                     |                                     |
| object-name        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| object-type        | <input checked="" type="checkbox"/> |                                     |                                     |
| property-list      | <input checked="" type="checkbox"/> |                                     |                                     |
| notification-class | <input checked="" type="checkbox"/> |                                     |                                     |
| priority           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| ack-required       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| recipient-list     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| profile-name       | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |

**Schedule** Dynamically Creatable Dynamically Deletable

| Property                           | Read                                | Write                               | optional                            |
|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| object-identifier                  | <input checked="" type="checkbox"/> |                                     |                                     |
| object-name                        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| object-type                        | <input checked="" type="checkbox"/> |                                     |                                     |
| present-value                      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| property-list                      | <input checked="" type="checkbox"/> |                                     |                                     |
| effective-period                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| weekly-schedule                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| exception-schedule                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| schedule-default                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| list-of-object-property-references | <input checked="" type="checkbox"/> |                                     |                                     |
| priority-for-writing               | <input checked="" type="checkbox"/> |                                     |                                     |
| status-flags                       | <input checked="" type="checkbox"/> |                                     |                                     |
| reliability                        | <input checked="" type="checkbox"/> |                                     |                                     |
| out-of-service                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| profile-name                       | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |

**trend-log** Dynamically Creatable Dynamically Deletable

| Property                   | Read                                | Write                               | optional                            |
|----------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| object-identifier          | <input checked="" type="checkbox"/> |                                     |                                     |
| object-name                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| object-type                | <input checked="" type="checkbox"/> |                                     |                                     |
| log-enable                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| start-time                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| stop-time                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| log-device-object-property | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| log-interval               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| stop-when-full             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| buffer-size                | <input checked="" type="checkbox"/> |                                     |                                     |
| record-count               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     |
| total-record-count         | <input checked="" type="checkbox"/> |                                     |                                     |
| event-state                | <input checked="" type="checkbox"/> |                                     |                                     |
| logging-type               | <input checked="" type="checkbox"/> |                                     |                                     |
| status-flags               | <input checked="" type="checkbox"/> |                                     |                                     |
| event-enable               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| notification-class         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| acked-transitions          | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| notify-type                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| cov-increment              | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| event-time-stamps          | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| notification-threshold     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| last-notify-record         | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| records-since-notification | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |
| profile-name               | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> |

## 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) : N/A
- MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 57600, 76800, 115200\*
- MS/TP slave (Clause 9), baud rate(s): N/A
- Point-To-Point, EIA 232 (Clause 10), baud rate(s): N/A
- Point-To-Point, modem, (Clause 10), baud rate(s): N/A
- LonTalk, (Clause 11), medium: N/A
- Other: N/A

\*Note: 115200 baud is not supported on CBM models

## Device Address Binding:

Is static device binding supported?  Yes  No

(This is currently necessary for two-way communication with MS/TP slaves and certain other devices.)

## Networking Options:

- Router, Clause 6 - IP, MS/TP, Ethernet
  - Annex H, BACnet Tunneling Router over IP
  - BACnet/IP Broadcast Management Device (BBMD)
- Does the BBMD support registrations by Foreign Devices?  Yes  No

## Character Sets Supported:

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

- |  |   |                                     |
|--|---|-------------------------------------|
| <input checked="" type="checkbox"/> ANSI X3.4. | <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/network(s) that the gateway supports:**

N/A