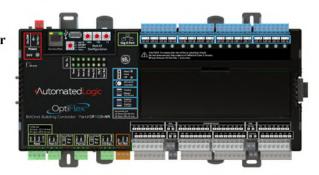


Date: 07/22/2020

Vendor Name: Automated Logic

Product Name: OptiFlex BACnet Building Controller

Product Model Number: **OF1628-NR** Applications Software Version: **N/A** Firmware Revision: **104.00.2182** BACnet Protocol Revision: **14** 



# **Product Description:**

A powerful, high-speed controller that provides multi-purpose monitoring and control for a variety of HVAC system applications. It supports BACnet/IP, BACnet-over-Ethernet, ARCNET 156 kbps, and MS/TP communications. Fully programmable, it can execute complex control strategies for high-level system integration, monitoring, and control. Flexible and versatile, the OF1628-NR supports multiple I/O configurations via an I/O bus and Act Net actuator bus. It can support up to a total of 9 FIO expanders (12 inputs, 8 outputs) and 16 Act Net devices. Combined, the OF1628-NR can support up to 224 total points.

## **BACnet Standardized Device Profile (Annex L):**

| ☐ BACnet Operator Workstation (B-OWS)            |    |
|--|----|
| ☐ BACnet Advanced Operator Workstation (B-AW     | S) |
| ☐ BACnet Operator Display (B-OD)                 |    |
| <b>☒</b> BACnet Building Controller (B-BC)       |    |
| ☐ BACnet Advanced Application Controller (B-AA)  | C) |
| ☐ 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-B  | AE-N-I-B  | SCHED-I-B | T-VMT-I-B | DM-DDB-A |  |
|----------|-----------|-----------|-----------|----------|--|
| DS-RPM-B | AE-ACK-B  | SCHED-E-B | T-ATR-B   | DM-DDB-B |  |
| DS-WP-B  | AE-ASUM-B |           |           | DM-DOB-A |  |
| DS-WPM-B | AE-INFO-B |           |           | DM-DOB-B |  |
| DS-COV-A | AE-ESUM-B |           |           | DM-DCC-B |  |
| DS-COV-B |           |           |           | DM-TS-A  |  |
| DS-RP-A  |           |           |           | DM-TS-B  |  |
| DS-RPM-A |           |           |           | DM-UTC-A |  |
| DS-WP-A  |           |           |           | DM-UTC-B |  |
| DS-WPM-A |           |           |           | DM-ATS-A |  |
|          |           |           |           | DM-RD-B  |  |
|          |           |           |           | DM-LM-B  |  |
|          |           |           |           | DM-BR-B  |  |
|          |           |           |           | DM-R-B   |  |

| Segmentation Capability:              |             |         |
|---------------------------------------|-------------|---------|
| ☑ Able to transmit segmented messages | Window Size | 100 - 1 |



| ■ Able to receive se   | gmented messages   | Window Size        | 100 - 1                    |          |
|--|--|--------------------|----------------------------|----------|
| Data Link Layer Options:   |  |                    |                            |          |
|  | se 7) ARCNET (Clause 8) ARCNET (Clause 8), baud rate(s) and rate(s): 9600, 19200, 38400, ud rate(s): |                    | 115200                     |          |
| Device Address Binding:  |  |                    |                            |          |
| Is static device binding suppor certain other devices.) ⊠Yes             | ted? (This is currently necessary  | for two-way con    | nmunication with MS/TP sla | eves and |
| Networking Options:  |  |                    |                            |          |
| □ Annex H, BACnet Tunnelir ☑ BACnet/IP Broadcast Mana Does the BBMD supp |  |                    | □ No                       |          |
| Character Sets Supported:  |  |                    |                            |          |
| Indicating support for multiple  | character sets does not imply that   | at they can all be | supported simultaneously.  |          |
| ⊠ANSI X3.4<br>⊠ISO 10646 (UCS-2)   | IBM <sup>™</sup> /Microsoft <sup>™</sup> DBCs     ISO 10646 (UCS-4)                                  | S 🗵 ISO 🗵 JIS C    |                            |          |
| If this product is a communic the gateway supports:                      | cation gateway, describe the typ   | pes of non-BAC     | net equipment/networks(s)  | ) that   |
| <b>Network Security Options:</b>   |  |                    |                            |          |
|  | n (NS-ED BIBB)   |                    |                            |          |
| Standard Object Types Supp   | oorted :   |                    |                            |          |

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



## **Analog Input:**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

cov-increment

deadband

description

device-type

event-enable

event-time-stamps

high-limit

limit-enable

low-limit

max-pres-value

min-pres-value

notification-class

notify-type

reliability

resolution

time-delay

update-interval

4. Writeable properties:

cov-increment

deadband

description

device-type

event-enable

high-limit

limit-enable

low-limit

notification-class

notify-type

out-of-service

time-delay

units

5. Conditionally writeable properties where not otherwise required by the standard: reliability writable if out-of-service is TRUE

Proprietary properties: None

7. Range restrictions:

description limited to 50 octets in length device-type limited to 50 octets in length

present-value limited by min-pres-value and max-pres-value properties

notification-class must be valid notification-class



#### **Analog Input (ASVI\_CS):**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

cov-increment

deadband

description

device-type

event-enable

. . . .

event-time-stamps

high-limit

limit-enable

low-limit

notification-class

notify-type

reliability

resolution

time-delay

4. Writeable properties:

cov-increment

deadband

description

device-type

event-enable

high-limit

limit-enable

low-limit

notification-class

notify-type

out-of-service

time-delay

units

5. Conditionally writeable properties where not otherwise required by the standard: reliability writable if out-of-service is TRUE

6. Proprietary properties:

4168 optional/writable cs-comb-algorithm 4169 optional/writable cs-disp-source 4170 optional/writable cs-sens-enable-arr 4173 optional cs-corrected-value-arr 4171 optional cs-sens-status-arr 4172 optional/writable cs-sens-calib-arr

7. Range restrictions:

description limited to 50 octets in length device-type limited to 50 octets in length notification-class must be valid notification-class



# **Analog Input (RS):**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

cov-increment

deadband

description

device-type

event-enable

event-time-stamps

high-limit

limit-enable

low-limit

max-pres-value

min-pres-value

notification-class

notify-type

reliability

resolution

time-delay

update-interval

4. Writeable properties:

cov-increment

deadband

description

device-type

event-enable

high-limit

limit-enable

low-limit

notification-class

notify-type

out-of-service

time-delay

5. Conditionally writeable properties where not otherwise required by the standard:

reliability writable if out-of-service is TRUE

6. Proprietary properties: None

7. Range restrictions:

description limited to 50 octets in length device-type limited to 50 octets in length

present-value limited by min-pres-value and max-pres-value properties

notification-class must be valid notification-class



## **Analog Output:**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

cov-increment

deadband

description

device-type

event-enable

event-time-stamps

high-limit

limit-enable

low-limit

max-pres-value

min-pres-value

notification-class

notify-type

reliability

resolution

time-delay

Writeable properties:

cov-increment

deadband

description

device-type

event-enable

high-limit

limit-enable

low-limit

notification-class

notify-type

out-of-service

present-value

relinquish-default

time-delay

Conditionally writeable properties where not otherwise required by the standard:

reliability writable if out-of-service is TRUE

Proprietary properties: None

7. Range restrictions:

description limited to 50 octets in length device-type limited to 50 octets in length

limited by min-pres-value and max-pres-value properties present-value relinquish-default limited by min-pres-value and max-pres-value properties

notification-class must be valid notification-class



## Analog Value (AVP\_CS):

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

cov-increment

deadband

description

event-enable

event-time-stamps

high-limit

limit-enable

low-limit

notification-class

notify-type

priority-array

reliability

relinquish-default

time-delay

4. Writeable properties:

cov-increment

deadband

description

event-enable

high-limit

limit-enable

low-limit

notification-class

notify-type

out-of-service

present-value

relinquish-default

time-delay

units

5. Conditionally writeable properties where not otherwise required by the standard:

reliability

writable if out-of-service is TRUE

6. Proprietary properties: None

7. Range restrictions:

description limited to 50 octets in length

present-value limited by min and max set via the microblock relinquish-default limited by min and max set via the microblock

notification-class must be valid notification-class



# Analog Value (AVP\_CS\_Setpoint):

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

cov-increment description reliability

4. Writeable properties:

cov-increment description out-of-service present-value units

5. Conditionally writeable properties where not otherwise required by the standard:

reliability writable if out-of-service is TRUE

6. Proprietary properties:

4174 Private-edit-range-min optional 4175 Private-edit-range-max optional

7. Range restrictions:

description limited to 50 octets in length

present-value limited by min and max set via the microblock



# Analog Value (AVS\_CS\_Setpoint):

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

cov-increment description Reliability

4. Writeable properties:

cov-increment description out-of-service units

- 5. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties: None
- 7. Range restrictions:

description

limited to 50 octets in length



#### Analog Value (PAR):

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

cov-increment

Deadband

description

event-enable

event-time-stamps

high-limit

limit-enable

low-limit

notification-class

notify-type

priority-array

Reliability

relinquish-default

time-delay

4. Writeable properties:

cov-increment

Deadband

description

event-enable

high-limit

limit-enable

low-limit

notification-class

notify-type

out-of-service

present-value

relinquish-default

time-delay

units

- 5. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties: None
- 7. Range restrictions:

description limited to 50 octets in length

present-value limited by min-pres-value and max-pres-value properties relinquish-default limited by min-pres-value and max-pres-value properties

notification-class must be valid notification-class



# **Analog Value (PID):**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

cov-increment

description

reliability

4. Writeable properties:

description

5. Conditionally writeable properties where not otherwise required by the standard: reliability writable if out-of-service is TRUE

6. Proprietary properties: None

7. Range restrictions:

description

limited to 50 octets in length



# **Analog Value (RS):**

- Creatable? NO
   Deletable? NO
- 3. Optional properties supported:

cov-increment description reliability

4. Writeable properties:

cov-increment description out-of-service present-value units

5. Conditionally writeable properties where not otherwise required by the standard: writable if out-of-service is TRUE reliability

6. Proprietary properties: None 7. Range restrictions: None



## **Analog Value (STAT):**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

cov-increment

deadband

description

event-enable

event-time-stamps

high-limit

limit-enable

low-limit

notification-class

notify-type

reliability

time-delay

4. Writeable properties:

cov-increment

deadband

description

event-enable

high-limit

limit-enable

low-limit

notification-class

notify-type

out-of-service

present-value

reliability

time-delay

units

5. Conditionally writeable properties where not otherwise required by the standard: present-value writable if out-of-service is TRUE

reliability

writable if out-of-service is TRUE

Proprietary properties: None

7. Range restrictions:

description limited to 50 octets in length notification-class must be valid notification-class



## **Binary Input:**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

active-text

alarm-value

change-of-state-count change-of-state-time

description

device-type

elapsed-active-time

event-enable

event-time-stamps

inactive-text

notification-class

notify-type reliability

time-delay

time-of-active-time-reset

time-of-state-count-reset

4. Writeable properties:

active-text

alarm-value

change-of-state-count

description

device-type

elapsed-active-time

event-enable

inactive-text

notification-class

notify-type

out-of-service

polarity

time-delay

5. Conditionally writeable properties where not otherwise required by the standard:

reliability writable if out-of-service is TRUE

6. Proprietary properties: None

7. Range restrictions:

active-text limited to 50 octets in length

change-of-state-count 0 to 4294967295

description limited to 50 octets in length device-type limited to 50 octets in length

elapsed-active-time 0 to 4294967295

inactive-text limited to 50 octets in length notification-class must be valid notification-class



#### **Binary Output:**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

active-text

change-of-state-count

change-of-state-time

description

device-type

elapsed-active-time

event-enable

event-time-stamps

feedback-value

inactive-text

minimum-off-time

minimum-on-time

notification-class

notify-type

reliability

time-delay

time-of-active-time-reset

time-of-state-count-reset

4. Writeable properties:

active-text

change-of-state-count

description

device-type

elapsed-active-time

event-enable

inactive-text

minimum-off-time

minimum-on-time

notification-class

notify-type

out-of-service

polarity

present-value

relinquish-default

time-delay

5. Conditionally writeable properties where not otherwise required by the standard:

reliability writable if out-of-service is TRUE

6. Proprietary properties: None

7. Range restrictions:

active-text limited to 50 octets in length

change-of-state-count 0 to 4294967295

description limited to 50 octets in length device-type limited to 50 octets in length



elapsed-active-time 0 to 4294967295

inactive-text limited to 50 octets in length

minimum-off-time 0 to 4294967295 minimum-on-time 0 to 4294967295

notification-class must be valid notification-class



## **Binary Value (BVP\_PAR):**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

active-text

alarm-value

change-of-state-count

change-of-state-time

description

elapsed-active-time

event-enable

event-time-stamps

inactive-text

minimum-off-time

minimum-on-time

notification-class

notify-type

priority-array

reliability

relinquish-default

time-delay

time-of-active-time-reset

time-of-state-count-reset

4. Writeable properties:

active-text

alarm-value

change-of-state-count

description

elapsed-active-time

event-enable

inactive-text

minimum-off-time

minimum-on-time

notification-class

notify-type

out-of-service

present-value

relinquish-default

time-delay

5. Conditionally writeable properties where not otherwise required by the standard: reliability writable if out-of-service is TRUE

6. Proprietary properties: None

7. Range restrictions:

active-text limited to 50 octets in length

change-of-state-count 0 to 4294967295

description limited to 50 octets in length

elapsed-active-time 0 to 4294967295



inactive-text limited to 50 octets in length

 $\begin{array}{ll} \mbox{minimum-off-time} & 0 \mbox{ to } 4294967295 \\ \mbox{minimum-on-time} & 0 \mbox{ to } 4294967295 \\ \end{array}$ 

notification-class must be valid notification-class



## **Binary Value (BVP\_CS\_Momentary):**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

active-text

alarm-value

change-of-state-count

change-of-state-time

description

elapsed-active-time

event-enable

event-time-stamps

inactive-text

minimum-off-time

minimum-on-time

notification-class

notify-type

priority-array

reliability

relinquish-default

time-delay

time-of-active-time-reset

time-of-state-count-reset

4. Writeable properties:

active-text

alarm-value

change-of-state-count

description

elapsed-active-time

event-enable

inactive-text

notification-class

notify-type

out-of-service

present-value

relinquish-default

time-delay

5. Conditionally writeable properties where not otherwise required by the standard:

reliability writable if out-of-service is TRUE

6. Proprietary properties:

4176 cs\_momentary\_state

7. Range restrictions:

active-text limited to 50 octets in length

change-of-state-count 0 to 4294967295

description limited to 50 octets in length

elapsed-active-time 0 to 4294967295

inactive-text limited to 50 octets in length notification-class must be valid notification-class



# **Binary Value (MODULE ALARM):**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

alarm-value

description

event-enable

event-time-stamps

notification-class

notify-type

time-delay

4. Writeable properties:

alarm-value

event-enable

notification-class

notify-type

out-of-service

time-delay

- 5. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties: None
- 7. Range restrictions:

notification-class

must be valid notification-class

time-delay

0 to 4294967295



#### **Binary Value (STAT):**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

active-text

alarm-value

change-of-state-count

change-of-state-time

description

elapsed-active-time

event-enable inactive-text minimum-off-time minimum-on-time notification-class

notify-type reliability time-delay

time-of-active-time-reset time-of-state-count-reset

event-time-stamp

4. Writeable properties:

active-text

alarm-value

change-of-state-count

description

elapsed-active-time

event-enable

inactive-text

minimum-off-time

minimum-on-time

notification-class

notify-type

out-of-service

time-delay

5. Conditionally writeable properties where not otherwise required by the standard:

present-value writable if out-of-service is TRUE

reliability writable if out-of-service is TRUE

6. Proprietary properties: None

Range restrictions:

active-text limited to 50 octets in length

change-of-state-count 0 to 4294967295

description limited to 50 octets in length

elapsed-active-time 0 to 4294967295

inactive-text limited to 50 octets in length

minimum-off-time 0 to 4294967295 minimum-on-time 0 to 4294967295

notification-class must be valid notification-class



# Calendar:

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

description

4. Writeable properties:

date-list

description

- 5. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties: None
- 7. Range restrictions:

date-list limited to 30 BACnetCalendarEntrys

description limited to 50 octets in length



## **Device:**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

active-cov-subscriptions

align-intervals

apdu-segment-timeout

backup-and-restore-state

backup-failure-timeout

backup-preparation-time

configuration-files

daylight-savings-status

description

interval-offset

last-restart-reason

last-restore-time

local-date

local-time

location

max-segments-accepted

max-master

max-info-frames

restart-notification-recipients

time-of-device-restart

time-synchronization-interval

time-synchronization-recipients

restart-notification-recipients

utc-offset

utc-time-synchronization-recipients

# 4. Writeable properties:

 $a lign\hbox{-}intervals$ 

apdu-segment-timeout

apdu-timeout

backup-failure-timeout

backup-preparation-time

description

device-address-binding

interval-offset

last-restart-reason

location

number-of-apdu-retries

max-master

max-info-frames

number-of-apdu-retries

object-identifier

object-name

restart-notification-recipients

time-synchronization-interval

time-synchronization-recipients

utc-offset

utc-time-synchronization-recipients

5. Conditionally writeable properties where not otherwise required by the standard: None



# 6. Proprietary properties:

| Property name |                                   | Data Type         |
|---------------|-----------------------------------|-------------------|
| no.           | 1 Toperty name                    | Data Type         |
| 661           | product-type                      | unsigned          |
| 662           | ram-size                          | unsigned          |
| 663           | upgrade-status                    | char string       |
| 664           | alc-release                       | char string       |
| 665           | data-partition-version            | char string       |
| 4145          | active-locale-index               | unsigned          |
| 4149          | auto-identity-scheme              | enumerated        |
| 4150          | auto-identity-base                | unsigned          |
| 4151          | supported-locale-codes            | array of unsigned |
| 4152          | active-local-code                 | unsigned          |
| 4153          | serial-number                     | char string       |
| 4161          | array-of-mstp-baud-rates          | array of unsigned |
| 4162          | test-mode                         | enumerated        |
| 4166          | download-id                       | char string       |
| 4167          | file-store-size                   | unsigned          |
| 4901          | archive-valid-status              | enumerated        |
| 4902          | archive-now-trigger               | bool              |
| 4920          | lonworks-enable-metric-conversion | bool              |

# 7. Range restrictions:

| description                     | limited to 50 octets in length    |
|---------------------------------|-----------------------------------|
| location                        | limited to 50 octets in length    |
| max-master                      | 1 to 127                          |
| object-identifier               | must be a valid device identifier |
| object-name                     | limited to 50 octets in length    |
| utc-offset                      | -780 to 780                       |
| last-restart-reason             | limited to BACnetRestartReason    |
| restart-notification-recipients | 0 to 10 BACnetRecipients          |
| auto-identity-scheme            | 0 or 1                            |
| auto-identity-base              | 0 to 4294967295                   |
| active-locale-index             | 0 to 255                          |
| archive-now-trigger             | 0 or 1                            |

lonworks-enable-metric-conversion 0 or 1



# File:

- 1. Creatable? YES
- 2. Deletable? NO
- 3. Optional properties supported:

description

4. Writeable properties:

archive

description

file-type

file-size

modification-date

read-only

5. Conditionally writeable properties where not otherwise required by the standard:

file-size only writeable as part of file creation

modification-date only writeable as part of file creation

6. Proprietary properties: None

7. Range restrictions:

description limited to 50 octets in length file-type limited to 50 octets in length



# **Loop Object (BACnet PID):**

- 1. Creatable? No
- 2. Deletable? No
- 3. Optional properties supported:

bias

cov-increment derivative-constant derivative-constant-units

description integral-constant integral-constant-units proportional-constant proportional-constant-units update-interval

4. Writable properties:

action

bias

cov-increment

derivative-constant

description

integral-constant

proportional-constant

update-interval

- 5. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties:

| Property no. | Property name           | DataType |
|--------------|-------------------------|----------|
| 4163         | continuous-proportional | Boolean  |
| 4164         | deadband                | Real     |
| 4165         | ramp-time               | Real     |

# 7. Range Restriction:

| Property name           | <b>Property Restrictions</b> |
|-------------------------|------------------------------|
| continuous-proportional | Can only be 0 or 1           |
| deadband                | Must be $\geq =0$            |
| ramp-time               | Must be $\geq =0$            |



## **Multi-State Value (PAR):**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

alarm-values

ararrir varue

description

event-enable

event-time-stamps

fault-values

notification-class

notify-type

priority-array

reliability

relinquish-default

state-text

time-delay

4. Writeable properties:

alarm-values

description

event-enable

fault-values

notification-class

notify-type

out-of-service

present-value

relinquish-default

time-delay

5. Conditionally writeable properties where not otherwise required by the standard: reliability writable if out-of-service is TRUE

6. Proprietary properties: None

7. Range restrictions:

description limited to 50 octets in length notification-class must be valid notification-class

present-value must be valid state relinquish-default must be valid state time-delay 0 to 4294967295



## **Multi-State Value (STAT):**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

alarm-values

description

event-enable

event-time-stamps

fault-values

notification-class

notify-type

reliability

state-text

time-delay

4. Writeable properties:

alarm-values

description

event-enable

fault-values

notification-class

notify-type

out-of-service

time-delay

5. Conditionally writeable properties where not otherwise required by the standard:

present-value

writable if out-of-service is TRUE

reliability

writable if out-of-service is TRUE

6. Proprietary properties: None

7. Range restrictions:

description limited to 50 octets in length notification-class must be valid notification-class

present-value must be valid state time-delay 0 to 4294967295



# **Notification Class:**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

description

4. Writeable properties:

ack-required description priority recipient-list

- 5. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties: None
- 7. Range restrictions: None

description recipient-list

limited to 50 octets in length limited to 5 BACnetDestinations



## **Program:**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

description

description-of-halt

instance-of

program-location

reason-for-halt

reliability

4. Writeable properties:

description

program-change

program-location

- 5. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties: None
- 7. Range restrictions:

description limited to 50 octets in length program-location limited to 50 octets in length



## **Schedule (ENUM):**

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

description

exception-schedule weekly-schedule

4. Writeable properties:

description
effective-period
exception-schedule
list-of-prop-reference
out-of-service
priority-for-writing
schedule-default
weekly-schedule

schedule-names

5. Conditionally writeable properties where not otherwise required by the standard:

present-value writable if out-of-service is TRUE reliability writable if out-of-service is TRUE

6. Proprietary properties:

| Property no. | Property name  | Data Type   |
|--------------|----------------|-------------|
| 557          | schedule-names | char string |

7. Range restrictions:

description limited to 50 octets in length limited to 30 BACnetSpecialEvents, exception-schedule each being limited to 6 BACnetTimeValues present-value 0 to 4294967295 relinquish-default 0 to 4294967295 weekly-schedule limited to 6 BACnetTimeValues per BACnetDailySchedule schedule-default 0 to 4294967295 limited to 4 BACnetReliability reliability out-of-service limited to Boolean

Limited to 50 octets in length

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## Schedule (UNS):

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

description

exception-schedule weekly-schedule

4. Writeable properties:

description
effective-period
exception-schedule
list-of-prop-reference
out-of-service
priority-for-writing
schedule-default

weekly-schedule

5. Conditionally writeable properties where not otherwise required by the standard:

present-value writable if out-of-service is TRUE reliability writable if out-of-service is TRUE

6. Proprietary properties:

| no. | Property name  | Data Type   |
|-----|----------------|-------------|
| 557 | schedule-names | char string |

7. Range restrictions:

description limited to 50 octets in length

limited to 30 BACnetSpecialEvents,

exception-schedule each being limited to 6 BACnetTimeValues

present-value 0 to 4294967295 relinquish-default 0 to 4294967295

weekly-schedule limited to 6 BACnetTimeValues per BACnetDailySchedule

schedule-default 0 to 4294967295

reliability limited to 4 BACnetReliability

out-of-service limited to Boolean



# Trend-log (COV or polled):

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

client-cov-increment

cov-resubscription-interval

description

event-enable

event-time-stamps

log-device-object-property

log-interval notification-class

notification-threshold

notify-type

records-since-notification

start-time stop-time last-notify-record

align-intervals

4. Writeable properties:

buffer-size

client-cov-increment

cov-resubscription-interval

description event-enable log-enable

log-interval

notification-class

notification-threshold

notify-type

record-count

start-time stop-time

stop-when-full

stop-when-full

- 5. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties: None
- 7. Range restrictions:

description limited to 50 octets in length

log-interval 0 to 4294967295

notification-class must be valid notification-class

notification-threshold 0 to 4294967295

record-count can only be written to 0

logging-type limited to 3 BACnetLoggingType

align-intervals limited to Boolean

interval-offset 0 to 4294967295 in hundredths of seconds

stop-when-full limited to Boolean



## Trend-log (of a non-BACnet property, COV or polled):

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

client-cov-increment

cov-resubscription-interval

description

event-enable

event-time-stamps

last-notify-record

log-interval

notification-class

notification-threshold

notify-type

records-since-notification

start-time stop-time align-intervals interval-offset

# 4. Writeable properties:

buffer-size

client-cov-increment

cov-resubscription-interval

description

event-enable

log-enable

log-interval

notification-class

notification-threshold

notify-type

record-count

start-time

stop-time

stop-when-full

- 5. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties: None
- 7. Range restrictions:

description limited to 50 octets in length

log\_interval 0 to 4294967295

notification\_class must be valid notification\_class

notification\_threshold 0 to 4294967295

record\_count can only be written to 0

logging-type limited to 3 BACnetLoggingType

align-intervals limited to Boolean

interval-offset 0 to 4294967295 in hundredths of seconds

stop-when-full limited to Boolean



# Trend-log (of a non-BACnet property, triggered):

- 1. Creatable? NO
- 2. Deletable? NO
- 3. Optional properties supported:

acked-transitions

description event-enable

event-time-stamps last-notify-record log-interval

notification-class notification-threshold

notify-type

records-since-notification

start-time stop-time reliability trigger

#### 4. Writeable properties:

buffer-size

description

event-enable

log-enable

notification-class

notification-threshold

notify-type record-count start-time stop-time stop-when-full

trigger

- 5. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties: None
- 7. Range restrictions:

description limited to 50 octets in length

log\_interval 0 to 4294967295

notification\_class must be valid notification\_class

notification\_threshold 0 to 4294967295

record\_count can only be written to 0

logging-type limited to 3 BACnetLoggingType

align-intervals limited to Boolean

interval-offset 0 to 4294967295 in hundredths of seconds

trigger limited to Boolean stop-when-full limited to Boolean

reliability limited to 4 BACnetReliability