BACnet Protocol Implementation Conformance Statement
I/O Flex 6126

Date: **9/20/2016**
Vendor Name: **OEMCtrl**
Product Name: **I/O Flex 6126**
Product Model Number: **I/O Flex 6126**
Applications Software Version: **<depends on application>**   Firmware Revision: **6.00a**
BACnet Protocol Revision: **9**

Product Description:
OEMCtrl's I/O Flex 6126 advanced controller delivers powerful control and communications features all in a compact, economical package. Highly flexible, yet easy-to-use programming tools allow customization for a wide variety of medium equipment applications enabling OEMs to achieve optimum performance and energy efficiency. Fully capable of operating in a 100% stand-alone control mode, the I/O Flex 6126 can connect to a Building Automation System (BAS) using any of today's most popular protocols, such as BACnet, Modbus, N2, and LonWorks. The I/O Flex 6126 also supports communication to OEMCtrl's line of intelligent space sensors and keypad/display units.

BACnet Standardized Device Profile (Annex L):

☐ **BACnet Operator Workstation (B-OWS)**
☐ **BACnet Advanced Operator Workstation (B-AWS)**
☐ **BACnet Operator Display (B-OD)**
☐ **BACnet Building Controller (B-BC)**
☒ **BACnet Advanced Application Controller (B-AAC)**
☐ **BACnet Application Specific Controller (B-ASC)**
☐ **BACnet Smart Sensor (B-SS)**
☐ **BACnet Smart Actuator (B-SA)**

List all BACnet Interoperability Building Blocks Supported (Annex K):

DS-RP-A	AE-N-I-B	SCHED-I-B	T-VMT-I-B	DM-DDB-A
DS-RP-B	AE-ACK-B	SCHED-E-B	T-ATR-B	DM-DDB-B
DS-RPM-A	AE-ASUM-B			DM-DOB-A
DS-RPM-B	AE-ESUM-B			DM-DOB-B
DS-RR-B	AE-INFO-B		NM-RC-B	DM-DCC-B
DS-WP-A				DM-PT-A
DS-WP-B				DM-PT-B
DS-WPM-A				DM-TS-A
DS-WPM-B				DM-TS-B
DS-COV-A				DM-UTC-A
DS-COV-B				DM-UTC-B
DS-COVU-A				DM-RD-B
DS-COVU-B				DM-LM-B
				DM-R-B
				DM-ATS-A

Segmentation Capability:

☒ Able to transmit segmented messages   Window Size _____1_____
☒Able to receive segmented messages   Window Size _____1_____

Standard Object Types Supported:

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

    1) Whether objects of this type are dynamically creatable using the CreateObject service

    2) Whether objects of this type are dynamically deletable using the DeleteObject service

    3) List of the optional properties supported

    4) List of all properties that are writable where not otherwise required by this standard

    5) List of all properties that are conditionally writable where not otherwise required by this standard.

    6) List of proprietary properties and for each its property identifier, datatype, and meaning

    7) List of any property range restrictions

(List of object types starts on page 4 …)

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, EIA-485 ARCNET (Clause 8), baud rate(s): **156K**baud
☒ MS/TP master (Clause 9), baud rate(s): **9600, 19200, 38400, 76800**
☐ MS/TP slave (Clause 9), baud rate(s): _____
☐ Point-To-Point, EIA 232 (Clause 10), baud rate(s): _____
☐ Point-To-Point, modem, (Clause 10), baud rate(s): _____
☐ LonTalk, (Clause 11), medium: _____
☐ BACnet/Zigbee (Annex O) _____
☐ Other: _____

Device Address Binding:

Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.) ☒Yes   ☐ No

Networking Options:

☒ Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.
   ARCNET-MS/TP

☐ Annex H, BACnet Tunneling Router over IP
☐ BACnet/IP Broadcast Management Device (BBMD)
      Does the BBMD support registrations by Foreign Devices?   ☐ Yes   ☐ No
      Does the BBMD support network address translation?   ☐ Yes   ☐ No

Character Sets Supported:

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

☒ANSI X3.4   ☒ 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: None.

Network Security Options:

☐ Non-secure Device – is capable of operating without BACnet Network Security
☐ Secure Device – is capable of using BACnet Network Security (NS-SD BIBB)
         ☐ Multiple Application-Specific Keys
         ☐ Supports encryption (NS-ED BIBB)
         ☐ Key Server (NS-KS BIBB)

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. Proprietary properties: None
6. 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
time-delay	0 to 4294967295

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. 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

6. Range restrictions:

description	limited to 50 octets in length
device-type	limited to 50 octets in length
notification-class	must be valid notification-class
time-delay	0 to 4294967295

Analog Input (TLO):

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. Proprietary properties: None
6. 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
time-delay	0 to 4294967295

Analog Input (PTA):

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. Proprietary properties: None
6. 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
time-delay	0 to 4294967295

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

units

5. Proprietary properties: None
6. 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
time-delay	0 to 4294967295

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

4. 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
       units

5. Proprietary properties: None
6. 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
relinquish-default	limited by min-pres-value and max-pres-value properties
notification-class	must be valid notification-class
time-delay	0 to 4294967295

Analog Output (FM):

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

4. 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
     units

5. Proprietary properties: None

6. 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
relinquish-default	limited by min-pres-value and max-pres-value properties
notification-class	must be valid notification-class
time-delay	0 to 4294967295

Analog Output (PWM):

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

4. 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

   units

5. Proprietary properties: None

6. Range restrictions:

Property	Restriction
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
relinquish-default	limited by min-pres-value and max-pres-value properties
notification-class	must be valid notification-class
time-delay	0 to 4294967295

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. Proprietary properties: None

6. 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
time-delay	0 to 4294967295

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. Proprietary properties:

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

6. 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. Proprietary properties: None
6. 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. Proprietary properties: None
6. 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
time-delay	0 to 4294967295

Analog Value (PID):

1. Creatable? NO
2. Deletable? NO
3. Optional properties supported:
    description
    reliability
4. Writeable properties:
    description
5. Proprietary properties: None
6. Range restrictions: None

Analog Value (RS):

1. Creatable? NO
2. Deletable? NO
3. Optional properties supported:
    reliability
    cov-increment
4. Writeable properties:
    out-of-service
    present-value
    units
    cov-increment
5. Proprietary properties: None
6. 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
  time-delay
  units

5. Proprietary properties: None
6. Range restrictions:

description	limited to 50 octets in length
notification-class	must be valid notification-class
time-delay	0 to 4294967295

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. Proprietary properties: None
6. 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
time-delay	0 to 4294967295

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. Proprietary properties: None
6. 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
time-delay	0 to 4294967295

Binary Value (BVP_CS):

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. Proprietary properties: None
6. 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
time-delay	0 to 4294967295

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. Proprietary properties:

4176	optional	cs_momentary_state

6. 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
time-delay	0 to 4294967295

Binary Value (CLOCK):

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. Proprietary properties: None
6. 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
time-delay	0 to 4294967295

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. Proprietary properties: None
6. Range restrictions:

| notification-class | must be valid notification-class |
| time-delay | 0 to 4294967295 |

Binary Value (PAR):

7. Creatable? NO
8. Deletable? NO
9. 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

10. 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

11. Proprietary properties: None

12. 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
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. Proprietary properties: None
6. 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
time-delay	0 to 4294967295

Calendar:

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

       description

4. Writeable properties:

       date-list

       description

5. Proprietary properties: None
6. 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
   active-vt-sessions
   align-intervals
   apdu-segment-timeout
   description
   interval-offset
   list-of-session-keys
   local-date
   local-time
   location
   max-segments-accepted
   vt-classes-supported
   utc-offset
   max-master
   max-info-frames
   last-restart-reason
   time-of-device-restart
   restart-notification-recipients
   time-synchronization-recipients
   time-synchronization-interval
   utc-time-synchronization-recipients

4. Writeable properties:
   object-identifier
   object-name
   location
   description
   local-time
   local-date
   utc-offset
   apdu-segment-timeout
   apdu-timeout
   number-of-apdu-retries
   max-master
   max-info-frames
   last-restart-reason
   restart-notification-recipients
   auto-identity-scheme
   auto-identity-base
   active-locale-code
   module-configuration
   archive-now-trigger

align-intervals
interval-offset
time-synchronization-recipients
time-synchronization-interval
utc-time-synchronization-recipients

5. Proprietary properties:

Property no.	Property name	Data Type
4145	active-locale-index	unsigned
4149	auto-identity-scheme	enumerated
4150	auto-identity-base	unsigned
4151	supported-locale-codes	array of unsigned
4152	active-locale-code	unsigned
4153	serial-number	char string
4154	module-configuration	octet 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	lon-works-enable-metric-conversion	bool

6. Range restrictions:

Property no.	Property name	Property Restrictions	Data Type
	object-identifier	must be a valid device identifier	object identifier
	object-name	limited to 50 octets in length	char string
	location	limited to 50 octets in length	char string
	description	limited to 50 octets in length	char string
	utc-offset	-780 to 780	integer
	apdu-segment-timeout	0 to 4294967295	unsigned
	apdu-timeout	0 to 4294967295	unsigned
	number-of-apdu-retries	0 to 255	unsigned
	max-master	1 to 127	unsigned
	max-info-frames	0 to 65535	unsigned
4149	auto-identity-scheme	0 to 255	enumerated
4150	auto-identity-base	0 to 4294967295	unsigned
4152	active-locale-code		unsigned
4154	module-configuration	0 to 16 in length	octet string

File:

1. Creatable? NO
2. Deletable? NO
3. Optional properties supported:
   description
4. Writeable properties:
   archive
   description
   file-type
   file-size
   modification-date
   read-only
5. Proprietary properties: None

6.   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:
    Description
    Update_interval
    Proportional_constant
    Proportional_constant_units
    Integral_constant
    Integral_constant_units
    Derivative_constant
    Derivative_constant_units
    Bias
    COV_increment
4.   Writable properties:
    description
    Update_interval
    Action
    Proportional_constant
    Integral_constant
    Derivative_constant
    Bias
5.   Proprietary properties:
    Continuous_proportional
    Deadband
    Ramp_time
6.   Range Restriction:

Property no.	Property name	Property Restrictions	DataType
4163	Continuous_proportional	Can only be 0 or 1	Boolean
4164	Deadband	Must be >=0	Real
4165	Ramp_time	Must be >=0	Real

Multi-State Value (PAR):

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

       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. Proprietary properties: None
6. 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 (CLOCK):

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
       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. Proprietary properties: None
6. 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 (MSVP_CS):

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

description	limited to 50 octets in length
recipient-list	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. Proprietary properties: None
6. 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
   - priority-for-writing
   - weekly-schedule
   - list-of-prop-reference
   - schedule-default
   - reliability
   - out-of-service
5. Proprietary properties: None
6. Range restrictions:

description	limited to 50 octets in length
exception-schedule	limited to 30 BACnetSpecialEvents, 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

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
    priority-for-writing
    weekly-schedule
    list-of-prop-reference
    schedule-default
    reliability
    out-of-service
5. Proprietary properties: None
6. Range restrictions:

description	limited to 50 octets in length
exception-schedule	limited to 30 BACnetSpecialEvents, 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
interval-offset
reliability

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. Proprietary properties: None
6. 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
total-record-count	can only be written to 0
reliability	limited to 4 BACnetReliability

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
       reliability

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. Proprietary properties: None
6. 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
reliability	limited to 4 BACnetReliability

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

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
reliability
trigger

4. Writeable properties:

buffer-size
client-cov-increment
cov-resubscription-interval
description
event-enable
log-enable
notification-class
notification-threshold
notify-type
record-count
start-time
stop-time
stop-when-full
trigger

5. Proprietary properties: None
6. 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
reliability	limited to 4 BACnetReliability