

Date: 2/7/2014 Vendor Name: OEMCtrl Product Name: OEMPrtl Pro Product Model Number: LGR-OEM Applications Software Version: <user specified> Firmware Revision: 6.00 BACnet Protocol Revision: 9

Product Description:

The OEMPrtl Pro sets a new standard for multiple equipment protocol conversion. An extremely powerful, highspeed device router & gateway, the OEMPrtl Pro can connect hundreds of control modules to a BACnet/IP backbone. Support for BACnet/IP, BACnet-over-Ethernet, ARC156, MS/TP, BACnet PTP, Modbus, N2, and LonWorks* communications are standard. A wide range of open and proprietary protocol translator drivers allow the OEMPrtl Pro to also serve as a gateway to other manufacturers' equipment. Fully programmable, the OEMPrtl Pro can also execute complex control strategies for high-level system integration and is easily configured using the industry's leading graphical programming tool, EIKON Logic Builder. It can convert between multiple open protocols like; Modbus to BACnet, or from a proprietary protocol to an open protocol to allow for integration with virtually any Building Management System. The OEMPrtl Pro also offers the ability to plug in an optional backlit LCD display/keypad to allow for viewing any of the points in your system.

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):

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

Segmentation Capability:

☑ Able to transmit segmented messages☑ Able to receive segmented messages

 Window Size
 _____1

 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): 9600, 19200, 38400, 57600, 115200
☑ Point-To-Point, modem, (Clause 10), baud rate(s): 9600, 19200, 38400, 57600, 115200
☑ DonTalk, (Clause 11), medium: _______
□ BACnet/Zigbee (Annex O) ________

Device Address Binding:

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

Networking Options:

☑ Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc. Ethernet-UDP/IP, Ethernet-PTP, BACnet/IP-UDP/IP, BACnet/IP-PTP, Ethernet-BACnet/IP, Ethernet-BACnet/IP, Ethernet-BACnet/IP-PTP, ARCNET-UDP/IP, ARCNET-PTP, Ethernet-ARCNET, Ethernet-ARCNET-UDP/IP, Ethernet-ARCNET-PTP, BACnet/IP-ARCNET, Ethernet-BACnet/IP-ARCNET-UDP/IP, BACnet/IP-ARCNET-PTP, Ethernet-BACnet/IP-ARCNET, Ethernet-MS/TP, Ethernet-BACnet/IP-ARCNET-UDP/IP, Ethernet-MS/TP, Ethernet-MS/TP, BACnet/IP-ARCNET-PTP, BACnet/IP-MS/TP, Ethernet-MS/TP, Ethernet-MS/TP, Ethernet-MS/TP, Ethernet-MS/TP, Ethernet-MS/TP, Ethernet-MS/TP, Ethernet-BACnet/IP-MS/TP, Ethernet-BACnet/IP-MS/TP-UDP/IP, Ethernet-BACnet/IP-

I 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	\boxtimes IBM TM /Microsoft TM 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: Various protocols, depending on which firmware is loaded.

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 (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: None
- 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 device-type notification-class time-delay limited to 50 octets in length limited to 50 octets in length must be valid notification-class 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 anable

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: None

- 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
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. 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 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



- 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: None

		······································	
6.	Proprietary properties:		
	4174	Private-edit-range-min	optional
	4175	Private-edit-range-max	optional

7. Range restrictions:

description present-value limited to 50 octets in length 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
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. 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 (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. Conditionally writeable properties where not otherwise required by the standard: None
- 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 time-delay units

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

descriptionlimited to 50 octets in lengthnotification-classmust be valid notification-classtime-delay0 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 a properties:

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

limited to 50 octets in length
0 to 4294967295
limited to 50 octets in length
0 to 4294967295
limited to 50 octets in length
0 to 4294967295
0 to 4294967295
must be valid notification-class
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. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties:

0.	r roprietary properties.		
	4176	optional	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 notified	cation-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
- Writeable properties: 4.
 - 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: None
- 6. Proprietary properties: None
- 7. Range restrictions:
 - active-text limited to 50 octets in length 0 to 4294967295 change-of-state-count description limited to 50 octets in length elapsed-active-time 0 to 4294967295 inactive-text limited to 50 octets in length



minimum-off-time minimum-on-time notification-class time-delay 0 to 4294967295 0 to 4294967295 must be valid notification-class 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. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties: None
- 7. Range restrictions:

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

Binary Value (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: None
- 6. Proprietary properties: None
- 7. Range restrictions:

limited to 50 octets in length active-text change-of-state-count 0 to 4294967295 description limited to 50 octets in length 0 to 4294967295 elapsed-active-time inactive-text limited to 50 octets in length 0 to 4294967295 minimum-off-time minimum-on-time 0 to 4294967295 must be valid notification-class 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: None
- 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
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. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties: None

7. Range restrictions:

date-list description

limited to 30 BACnetCalendarEntrys limited to 50 octets in length



Device:

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

active-cov-subscriptions active-vt-sessions apdu-segment-timeout backup-failure-timeout configuration-files database-revision description last-restore-time 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

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 backup-failure-timeout

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

Property no.	Property name	Data Type
4149	auto-identity-scheme	enumerated
4150	auto-identity-base	unsigned
4153	serial-number	char string
4161	array-of-mstp-baud-rates	array of unsigned
4162	test-mode	enumerated
4166	download-id	char string



- 4167file-store-sizeuns4901archive-valid-statusent4902archive-now-triggerbox4920lonworks-enable-metric-conversionbox
 - unsigned enumerated bool 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

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

description file-type limited to 50 octets in length 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. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties:
 - Continuous_proportional Deadband Ramp_time
- 7. Range Restriction:

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

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. 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
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 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: None
- 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 (MSVP_CS_ Momentary):

- 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. 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
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 (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

alarm-values description

event-enable fault-values

notification-class

notify type

notify-type

out-of-service

present-value

relinquish-default

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

7. Range restrictions:

description notification-class present-value relinquish-default time-delay limited to 50 octets in length must be valid notification-class must be valid state must be valid state 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: None
- 6. Proprietary properties: None
- 7. Range restrictions:

description notification-class present-value time-delay limited to 50 octets in length must be valid notification-class must be valid state 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:

4.

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

description description-of-halt instance-of program-location

- reason-for-halt
- reliability
- 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 program-location limited to 50 octets in length 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. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties:
 - schedule-names
- 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
(557) schedule-names	limited to 800 octets in length



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. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties:
 - schedule-names
- 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
(557) schedule-names	limited to 800 octets in length



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

descriptionlimited to 50 octets in lengthlog-interval0 to 4294967295notification-classmust be valid notification-classnotification-threshold0 to 4294967295record-countcan only be written to 0total-record-countcan only be written to 0reliabilitylimited 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

- 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 reliability limited to Boolean 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 nally writeable properties w

- 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 reliability limited to Boolean limited to 4 BACnetReliability

Proprietary Object, AirFlow:

- 1. Creatable? No
- Deletable? No 2.
- 3. Optional properties supported: description device-type profile-name tab-tech-name tab-org-name display-name max-cool-flow max-cool-flow-ovr max-heat-flow min-occ-flow min-occ-flow-ovr min-unocc-flow tabs-pars-seal min-aux-heat-flow flow-at-one-inch flow-calibration sens-calibration lock-flags flow-setpt-lock aux-heat-lock damper-lock fan-lock auto-zero tab-mode last-tab-date air-source-obj-id par-prg-dev-id par-prg-obj-id loop-config sens-config damp-config status-flags reliability occupied-mode heat-mode fan-outpt cooling heating aux-heat damper flow-actual flow-setpoint air-flow-obj-id own-prg-obj-id flow-rawpct flow-rawsetpt

moves-today



moves-yesterday prop-stat-flags units ovr-flags lock-flags-bool prop-stat-flags-bool baf-version Writable properties: description device-type profile-name tab-tech-name tab-org-name display-name max-cool-flow max-cool-flow-ovr max-heat-flow min-occ-flow min-occ-flow-ovr min-unocc-flow tab-pars-seal min-aux-heat-flow flow-at-one-inch flow-calibration sens-calibration flow-setpt-lock aux-heat-lock damper-lock fan-lock auto-zero tab-mode last-tab-date lock-flags-bool

4.

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

max-cool-flow max-heat-flow min-occ-flow min-unocc-flow min-aux-heat-flow flow-at-one-inch flow-calibration sens-calibration aux-heat-lock damper-lock flow-setpt-lock auto-zero tab-mode lock-flags par-prg-dev-id par-prg-obj-id air-source-obj-id occupied-mode



heat-mode Cooling Heating aux-heat Damper flow-actual flow-setpoint air-flow-obj-id loop-config sens-config damp-config flow-rawpct flow-rawsetpt moves-today moves-yesterday fan-lock fan-outpt prop-stat-flags tab-tech-name tab-org-name last-tab-date display-name own-prg-obj-id ovr-flags max-cool-flow-ovr min-occ-flow-ovr tab-pars-seal lock-flags-bool prop-stat-flags-bool baf-version

7. Range Restriction:

Property no.	Property name	Property Restrictions	DataType
4132	tab-tech-name	limited to 50 octets in length	Chrstr
4133	tab-org-name	limited to 50 octets in length	Chrstr
4135	display-name	limited to 50 octets in length	Chrstr
4096	max-cool-flow	Float – Standard Bacnet	Real
4138	max-cool-flow-ovr	Float – Standard Bacnet	Real
4097	max-heat-flow	Float – Standard Bacnet	Real
4098	min-occ-flow	Float – Standard Bacnet	Real
4139	min-occ-flow-ovr	Float – Standard Bacnet	Real
4099	min-unocc-flow	Float – Standard Bacnet	Real
4140	tab-pars-seal	Date/Time - Standard Bacnet	Date/Time
4100	min-aux-heat-flow	Float – Standard Bacnet	Real
4101	flow-at-one-inch	Float – Standard Bacnet	Real
4102	flow-calibration	Float – Standard Bacnet	Real(Array of 4 values)
4103	sens-calibration	Float – Standard Bacnet	Real(Array of 4 values)
4106	flow-setpt-lock	Float – Standard Bacnet	Real
4104	aux-heat-lock	Float $-$ (only goes $0 - 100$)	Real
4105	damper-lock	Float $-$ (only goes 0 - 100)	Real
4129	fan-lock	Boolean – Standard Bacnet	Boolean
4107	auto-zero	Boolean – Standard Bacnet	Boolean
4108	tab-mode	0-255 (Only 0 -8 is defined)	Byte
4134	last-tab-date	Date/Time - Standard Bacnet	Date/Time
4141	lock-flags-bool		BitStr



description device-type profile-name limited to 50 octets in length limited to 50 octets in length limited to 50 octets in length ChrStr ChrStr ChrStr

Proprietary Object, Network Port:

- 1. Creatable? No
- 2. Deletable? No
- 3. Optional properties supported:
 - ip-multicast-address ip-subnet-mask ip-default-gateway max-master max-info-frames time-sync-interval
- 4. Writable properties:
 - network-number mac-address
 - ip-multicast-address
 - ip-subnet-mask
 - ip-default-gateway
 - instance-of
 - auto-identity-base
 - auto-identity-scheme
 - network-port-base
 - max-master
 - max-info-frames
 - device-time-sync-mode
 - time-sync-interval
- 5. Conditionally writeable properties where not otherwise required by the standard: None
- 6. Proprietary properties:
 - network-type network-number mac-address ip-multicast-address ip-subnet-mask ip-default-gateway auto-identity-base auto-identity-scheme network-port-base device-time-sync-mode
- 7. Range Restriction:

Property no.	Property name	Property Restrictions	DataType
624	network-type		Unsigned
622	network-number	0 - 65535	Unsigned
621	mac-address	limited to 6 octets in length	Chrstr
607	ip-multicast-address	limited to 4 octets in length	Chrstr
608	ip-subnet-mask	limited to 4 octets in length	Chrstr
601	ip-default-gateway	limited to 4 octets in length	Chrstr
4150	auto-identity-base	0 - 4294967295	Unsigned
4149	auto-identity-scheme	0 - 255	Enum
600	network-port-base		Chrstr
660	device-time-sync-mode	0 - 2	Enum

