



**SAUTER BACnet PICS  
EY-modulo 5 ecos504/505  
BACnet Protocol Implementation  
Conformance Statement**

D100275255 - 06

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Content

Note:

This statement corresponds to the ANSI/ASHRAE 135-2012 release. Changes are taking place constantly, without prior notification.

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**BACnet Building Controller (B-BC)**

1 BACnet Building Controller (B-BC)

1.1. SAUTER EY-modulo 5 Room Automation Stations

|                               |                                                                                                                                                                                                   |                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Date                          | March 2020                                                                                                                                                                                        |                                         |
| Vendor Name                   | Fr. Sauter AG (Vendor ID: 80)                                                                                                                                                                     |                                         |
| Product Name                  | EY-modulo 5 Room Automation Controller                                                                                                                                                            |                                         |
| Product Model Number          | All BACnet Room Automation Station ecos504 and ecos505<br><br>ecos504 : EY-RC504F001 / F011 / F021 / F041 / F0C1 / F101<br>ecos505: EY-RC505F031 / F051 / F061 / F071 / F081 / F091 / F0A1 / F0B1 |                                         |
| Applications Software Version | 2.20                                                                                                                                                                                              | (CASE Engine Interface, Function Index) |
| Firmware Revision             | V3.4.2                                                                                                                                                                                            | (BACnet Firmware)                       |
| BACnet Protocol Revision      | Version 1, Revision 14                                                                                                                                                                            |                                         |

BACnet Conformance Certificate (BCC):

**BACnet Profile:** B-BC  
**Date:** 12. Feb. 2018  
**MBSLab:** VG 2017\_15120  
**Firmware:** 3.1.0b753  
**Model:** EY-RC504F\*\*\*, EY-RC505F\*\*\*

1.1.1. Product Description

The SAUTER BACnet Room Automation Station family EY-modulo 5 ecos are programmable automation stations for common room automation control applications (e.g. room control, light, blinds, fan...). The software component on the controller is a BACnet Server and includes as well BACnet Client functionality for peer-to-peer communication with other BACnet devices. It has integrated BBMD and FD functionality.

1.1.2. 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 Building Controller (B-BC)**

BACnet Smart Actuator (B-SA)

**1.1.3. BACnet Interoperability Building Blocks (Annex K)**

Supports following BIBBs:

| Data Sharing  | Alarm & Event Management | Scheduling | Trending  | Device & Network Management |
|---------------|--------------------------|------------|-----------|-----------------------------|
| DS-RP-A, -B   | AE-ACK-B                 | SCHED-I-B  | T-VMT-I-B | DM-DDB-A, -B                |
| DS-RPM-A, -B  | AE-ESUM-B                | SCHED-E-B  | T-VMT-E-B | DM-DOB-B                    |
| DS-WP-A, -B   | AE-INFO-B                |            | T-ATR-B   | DM-DCC-B                    |
| DS-WPM-B      | AE-N-I-B                 |            |           | DM-RD-B                     |
| DS-COV-A, -B  | AE-N-E-B                 |            |           | DM-TS-A, -B                 |
| DS-COVP-B     | AE-ASUM-B                |            |           | DM-UTC-A, -B                |
| DS-COVU-A, -B | AE-EL-I-B                |            |           | DM-BR-B                     |
|               | AE-EL-E-B                |            |           | DM-ATS-A                    |
|               | AE-N-A                   |            |           | DM-LM-B                     |
|               |                          |            |           | DM- OCD-B                   |
|               |                          |            |           | DM-R-A, -B                  |

**1.1.4. Segmentation Capability**

- Able to transmit segmented messages      Window Size: 16
- Able to receive segmented messages      Window Size: 16

**1.1.5. Object Types**

Standard and proprietary object types are supported and may be present in the device.

**Legend:**  = yes, supported       = no, not supported      -, n/a = not applicable

Objects may be created and deleted dynamically:

OC = Dynamic object creation      OD = Dynamic object deletion

Objects may support optional functionality:

OOS = Out-Of-Service writeable      COV = Change of value

Objects may be diversified with optional functionalities by the object data structure definition (CASE Suite - Project Engineering):

CMD = Object commandable      IR/AR = Intrinsic / Algorithmic change reporting

**Notice:** Present-Value and Reliability properties are writable when Out-Of-Service = True.

**BACnet Building Controller (B-BC)**

Standard and proprietary objects may support optional functionality (Overview):

| Object Type         | (Enum) | Supported                           | OC                                  | OD                                  | CMD                                 | OOS                                 | COV                                 | IR/AR                               |
|---------------------|--------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Analog Input        | (0)    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | -                                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Analog Output       | (1)    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Analog Value        | (2)    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Binary Input        | (3)    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | -                                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Binary Output       | (4)    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Binary Value        | (5)    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Calendar            | (6)    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | -                                   | -                                   | -                                   | -                                   |
| Command             | (7)    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | -                                   | -                                   | <input checked="" type="checkbox"/> | -                                   |
| Device              | (8)    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | -                                   | -                                   | -                                   | -                                   |
| Event Log           | (25)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | -                                   | -                                   | -                                   | <input checked="" type="checkbox"/> |
| Event Enrollment    | (9)    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | -                                   | -                                   | -                                   | <input checked="" type="checkbox"/> |
| File                | (10)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | -                                   | -                                   | -                                   | -                                   |
| Lighting Output     | (54)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | -                                   |
| Loop                | (12)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | -                                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Multi-State Input   | (13)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | -                                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Multi-State Output  | (14)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Multi-State Value   | (19)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Notification Class  | (15)   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | -                                   | -                                   | -                                   | -                                   |
| Positive Int. Value | (48)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Program             | (16)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | -                                   | -                                   | -                                   | -                                   |
| Pulse Converter     | (24)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | -                                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Schedule            | (17)   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | -                                   | <input checked="" type="checkbox"/> | -                                   | -                                   |
| Structured View     | (29)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | -                                   | -                                   | -                                   | -                                   |
| Trend Log           | (20)   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | -                                   | -                                   | -                                   | <input checked="" type="checkbox"/> |
| IO Unit             | (384)  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | -                                   | -                                   | -                                   | -                                   |

Some standard objects may have proprietary properties in addition (Clause 23). There are no specific property range restrictions except those within the system SAUTER EY-modulo 5 and the range restrictions of the BACnet Standard. Supported standard and proprietary objects may support following optional and proprietary

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**BACnet Building Controller (B-BC)**

properties and in addition to the standard conformance code some writable properties:

**BACnet Building Controller (B-BC)**

**Legend:**  = yes, supported       = no, not supported      -, n/a = not applicable  
 CC = Conformance Code      ( ) = comments in parenthesis  
 R = Required Readable      W = Required Readable and Writable  
 O = (Conditionally) Optional      P = Proprietary

1.1.5.1. Device Management

**Device (DEV = 8)**

| Standard Property               | CC | R                                   | W                                   | Range Restriction        |
|---------------------------------|----|-------------------------------------|-------------------------------------|--------------------------|
| Object-Identifier               | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Object-Name                     | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Object-Type                     | R  | <input checked="" type="checkbox"/> |                                     |                          |
| System-Status                   | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Vendor-Name                     | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Vendor-Identifier               | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Model-Name                      | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Firmware-Revision               | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Application-Software-Version    | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Location                        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters)   |
| Description                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters)   |
| Protocol-Version                | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Protocol-Revision               | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Protocol-Services-Supported     | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Protocol-Object-Types-Supported | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Object-List                     | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Structured-Object-List          | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Max-APDU-Length-Accepted        | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Segmentation-Supported          | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Max-Segments-Accepted           | O  | <input checked="" type="checkbox"/> |                                     |                          |
| VT-Classes-Supported            | O  | -                                   |                                     |                          |
| Active-VT-Sessions              | O  | -                                   |                                     |                          |
| Local-Time                      | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (time sync service)      |
| Local-Date                      | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (time sync service)      |
| UTC-Offset                      | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | -780..780 (configurable) |
| Daylight-Savings-Status         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (automatic DST)          |
| APDU-Segment-Timeout            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| APDU-Timeout                    | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Number-Of-APDU-Retries          | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Time-Synchronization-Recipients | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 32 recipients)    |
| Max-Master                      | O  | -                                   |                                     |                          |
| Max-Info-Frames                 | O  | -                                   |                                     |                          |
| Device-Address-Binding          | R  | <input checked="" type="checkbox"/> |                                     | (up to 100 devices)      |
| Database-Revision               | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Configuration-Files             | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Last-Restore-Time               | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Backup-Failure-Timeout          | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                          |
| Backup-Preparation-Time         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (Add135-2008n-1)         |
| Restore-Preparation-Time        | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (Add135-2008n-1)         |
| Restore-Completion-Time         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (Add135-2008n-1)         |
| Backup-And-Restore-State        | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (Add135-2008n-1)         |



**BACnet Building Controller (B-BC)**

| Standard Property                   | CC | R                                   | W                                   | Range Restriction     |
|-------------------------------------|----|-------------------------------------|-------------------------------------|-----------------------|
| Active-COV-Subscriptions            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                       |
| Slave-Proxy-Enable                  | O  | -                                   |                                     |                       |
| Manual-Slave-Address-Binding        | O  | -                                   |                                     |                       |
| Auto-Slave-Discovery                | O  | -                                   |                                     |                       |
| Slave-Address-Binding               | O  | -                                   |                                     |                       |
| Last-Restart-Reason                 | O  | <input checked="" type="checkbox"/> |                                     |                       |
| Time-Of-Device-Restart              | O  | <input checked="" type="checkbox"/> |                                     |                       |
| Restart-Notification-Recipients     | O  | <input checked="" type="checkbox"/> |                                     | (up to 32 recipients) |
| UTC-Time-Synchronization-Recipients | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 32 recipients) |
| Time-Synchronization-Interval       | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                       |
| Align-Intervals                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                       |
| Interval-Offset                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                       |
| Serial-Number                       | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                       |
| Property-List                       | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                       |
| Profile-Name                        | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                       |

| Proprietary Property              | Enum | R                                   | W                                   | Property Datatype<br>Range Restriction |
|-----------------------------------|------|-------------------------------------|-------------------------------------|----------------------------------------|
| MAC-Address                       | 8207 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Hardware-Revision                 | 8208 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Log-Object-List                   | 8252 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Firmware-Index                    | 8255 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Serial-Number                     | 8277 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Production-Date                   | 8278 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Status-Flag-Sum                   | 8300 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Number-Of-Active-Transition       | 8301 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Number-Of-Open-Transition         | 8302 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| MSP-Version                       | 8313 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Sauter-Character-Set              | 8351 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 0: UTF8; 5: ISO-8859-1                 |
| Sauter-DST-Start-Date             | 8352 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Sauter-DST-End-Date               | 8353 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Sauter-DST-Start-Offset           | 8354 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Sauter-DST-End-Offset             | 8355 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Sauter-Disable-Event-Message-Text | 8358 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                        |

BACnet Building Controller (B-BC)

**File (FL = 10)**

| Standard Property  | CC | R                                   | W                                   | Range Restriction |
|--------------------|----|-------------------------------------|-------------------------------------|-------------------|
| Object-Identifier  | R  | <input checked="" type="checkbox"/> |                                     |                   |
| Object-Name        | R  | <input checked="" type="checkbox"/> |                                     |                   |
| Object-Type        | R  | <input checked="" type="checkbox"/> |                                     |                   |
| Description        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                   |
| File-Type          | R  | <input checked="" type="checkbox"/> |                                     |                   |
| File-Size          | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0 (delete)        |
| Modification-Date  | R  | <input checked="" type="checkbox"/> |                                     |                   |
| Archive            | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                   |
| Read-Only          | R  | <input checked="" type="checkbox"/> |                                     |                   |
| File-Access-Method | R  | <input checked="" type="checkbox"/> |                                     |                   |
| Record-Count       | O  | <input type="checkbox"/>            |                                     |                   |
| Property-List      | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                   |
| Profile-Name       | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                   |

BACnet Building Controller (B-BC)

Program (PRG = 16)

| Standard Property              | CC | R                                   | W                                   | Range Restriction      |
|--------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Program-State                  | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Program-Change                 | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1..4                   |
| Reason-For-Halt                | O  | <input checked="" type="checkbox"/> |                                     |                        |
| Description-Of-Halt            | O  | <input checked="" type="checkbox"/> |                                     |                        |
| Program-Location               | O  | <input checked="" type="checkbox"/> |                                     |                        |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Instance-Of                    | O  | <input checked="" type="checkbox"/> |                                     |                        |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Out-Of-Service                 | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Event-Detection-Enable         | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Notification-Class             | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Event-Enable                   | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Event-State                    | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Acked-Transitions              | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Notify-Type                    | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Event-Time-Stamps              | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Event-Message-Texts            | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config     | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Reliability-Evaluation-Inhibit | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property | Enum | R                                   | W                        | Property Datatype<br>Range Restriction |
|----------------------|------|-------------------------------------|--------------------------|----------------------------------------|
| Download-User        | 8322 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Download-Comment     | 8323 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |

BACnet Building Controller (B-BC)

Structured View (SV = 29)

| Standard Property       | CC | R                                   | W                        | Range Restriction      |
|-------------------------|----|-------------------------------------|--------------------------|------------------------|
| Object-Identifier       | R  | <input checked="" type="checkbox"/> |                          |                        |
| Object-Name             | R  | <input checked="" type="checkbox"/> |                          |                        |
| Object-Type             | R  | <input checked="" type="checkbox"/> |                          |                        |
| Description             | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (up to 128 characters) |
| Node-Type               | R  | <input checked="" type="checkbox"/> |                          |                        |
| Node-Subtype            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                        |
| Subordinate-List        | R  | <input checked="" type="checkbox"/> |                          |                        |
| Subordinate-Annotations | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                        |
| Property-List           | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                        |
| Profile-Name            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                        |

**BACnet Building Controller (B-BC)**

1.1.5.2. Input, Output, Value

**Analog Input (AI = 0)**

| Standard Property              | CC | R                                   | W                                   | Range Restriction      |
|--------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Present-Value                  | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Device-Type                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Out-Of-Service                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Update-Interval                | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Units                          | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Min-Pres-Value                 | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Max-Pres-Value                 | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Resolution                     | O  | <input checked="" type="checkbox"/> |                                     |                        |
| COV-Increment                  | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Time-Delay                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| High-Limit                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Low-Limit                      | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Deadband                       | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Limit-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)   |
| Time-Delay-Normal              | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property          | Enum | R                                   | W                                   | Property Datatype<br>Range Restriction |
|-------------------------------|------|-------------------------------------|-------------------------------------|----------------------------------------|
| Event-Suppress-Reference      | 8244 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (IR enabled)                           |
| Event-Suppress-Active         | 8245 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (IR enabled)                           |
| Event-Suppress-Cascade-Active | 8246 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (IR enabled)                           |
| Min-Hardware-Value            | 8248 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | REAL                                   |
| Max-Hardware-Value            | 8249 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | REAL                                   |
| Offset                        | 8250 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | REAL                                   |
| Slope                         | 8251 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | REAL                                   |
| Hardware-Input-Module-Id      | 8263 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |

BACnet Building Controller (B-BC)

| Proprietary Property       | Enum | R                                   | W                                   | Property Datatype<br>Range Restriction |
|----------------------------|------|-------------------------------------|-------------------------------------|----------------------------------------|
| Hardware-Input-Channel-Id  | 8264 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| COV-Synchronization-Period | 8314 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                        |

BACnet Building Controller (B-BC)

Analog Output (AO = 1)

| Standard Property              | CC | R                                   | W                                   | Range Restriction      |
|--------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Present-Value                  | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Device-Type                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Out-Of-Service                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Units                          | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Min-Pres-Value                 | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Max-Pres-Value                 | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Resolution                     | O  | <input checked="" type="checkbox"/> |                                     |                        |
| Priority-Array                 | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Relinquish-Default             | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| COV-Increment                  | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Time-Delay                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| High-Limit                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Low-Limit                      | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Deadband                       | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Limit-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)   |
| Time-Delay-Normal              | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property          | Enum | R                                   | W                                   | Property Datatype<br>Range Restriction |
|-------------------------------|------|-------------------------------------|-------------------------------------|----------------------------------------|
| Event-Suppress-Reference      | 8244 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (IR enabled)                           |
| Event-Suppress-Active         | 8245 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (IR enabled)                           |
| Event-Suppress-Cascade-Active | 8246 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (IR enabled)                           |
| Min-Hardware-Value            | 8248 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | REAL                                   |
| Max-Hardware-Value            | 8249 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | REAL                                   |
| Hardware-Output-Module-Id     | 8265 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Hardware-Output-Channel-Id    | 8266 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| Priority-Array-Reset          | 8309 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |

BACnet Building Controller (B-BC)

| Proprietary Property       | Enum | R                                   | W                                   | Property Datatype<br>Range Restriction |
|----------------------------|------|-------------------------------------|-------------------------------------|----------------------------------------|
| COV-Synchronization-Period | 8314 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                        |
| Hardware-Output-Value      | 8334 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |



BACnet Building Controller (B-BC)

Analog Value (AV = 2)

| Standard Property              | CC | R                                   | W                                   | Range Restriction      |
|--------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Present-Value                  | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (CMD enabled)          |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Out-Of-Service                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Units                          | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Priority-Array                 | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Relinquish-Default             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| COV-Increment                  | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Time-Delay                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| High-Limit                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Low-Limit                      | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Deadband                       | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Limit-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)   |
| Time-Delay-Normal              | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Min-Pres-Value                 | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Max-Pres-Value                 | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Resolution                     | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property          | Enum | R                                   | W                                   | Property Datatype<br>Range Restriction |
|-------------------------------|------|-------------------------------------|-------------------------------------|----------------------------------------|
| Event-Suppress-Reference      | 8244 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (IR enabled)                           |
| Event-Suppress-Active         | 8245 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (IR enabled)                           |
| Event-Suppress-Cascade-Active | 8246 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (IR enabled)                           |
| Priority-Array-Reset          | 8309 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (CMD enabled)                          |
| COV-Synchronization-Period    | 8314 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                        |
| Min-Range-Value               | 8332 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                        |
| Max-Range-Value               | 8333 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                        |

BACnet Building Controller (B-BC)

Binary Input (BI = 3)

| Standard Property              | CC | R                                   | W                                   | Range Restriction      |
|--------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Present-value                  | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Device-Type                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Out-Of-Service                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Polarity                       | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Inactive-Text                  | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 32 characters)  |
| Active-Text                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 32 characters)  |
| Change-Of-State-Time           | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Change-Of-State-Count          | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0 (reset)              |
| Time-Of-State-Count-Reset      | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Elapsed-Active-Time            | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0 (reset)              |
| Time-Of-Active-Time-Reset      | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Time-Delay                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Alarm-Value                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)   |
| Time-Delay-Normal              | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property          | Enum | R                                   | W                        | Property Datatype<br>Range Restriction |
|-------------------------------|------|-------------------------------------|--------------------------|----------------------------------------|
| Event-Suppress-Reference      | 8244 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Active         | 8245 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Cascade-Active | 8246 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Hardware-Input-Module-Id      | 8263 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Hardware-Input-Channel-Id     | 8264 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |

BACnet Building Controller (B-BC)

Binary Output (BO = 4)

| Standard Property              | CC | R                                   | W                                   | Range Restriction      |
|--------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Present-Value                  | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Device-Type                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Out-Of-Service                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Polarity                       | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Inactive-Text                  | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 32 characters)  |
| Active-Text                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 32 characters)  |
| Change-Of-State-Time           | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Change-Of-State-Count          | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0 (reset)              |
| Time-Of-State-Count-Reset      | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Elapsed-Active-Time            | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0 (reset)              |
| Time-Of-Active-Time-Reset      | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Minimum-Off-Time               | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Minimum-On-Time                | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Priority-Array                 | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Relinquish-Default             | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Time-Delay                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Feedback-Value                 | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)   |
| Time-Delay-Normal              | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property          | Enum | R                                   | W                        | Property Datatype<br>Range Restriction |
|-------------------------------|------|-------------------------------------|--------------------------|----------------------------------------|
| Event-Suppress-Reference      | 8244 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Active         | 8245 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Cascade-Active | 8246 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Hardware-Input-Module-Id      | 8263 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Hardware-Input-Channel-Id     | 8264 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Hardware-Output-Module-Id     | 8265 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Hardware-Output-Channel-Id    | 8266 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |

BACnet Building Controller (B-BC)

| Proprietary Property  | Enum | R                                   | W                        | Property Datatype<br>Range Restriction |
|-----------------------|------|-------------------------------------|--------------------------|----------------------------------------|
| Priority-Array-Reset  | 8309 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Hardware-Output-Value | 8334 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |

BACnet Building Controller (B-BC)

Binary Value (BV = 5)

| Standard Property              | CC | R                                   | W                                   | Range Restriction      |
|--------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Present-Value                  | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (CMD enabled)          |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Out-Of-Service                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Inactive-Text                  | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 32 characters)  |
| Active-Text                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 32 characters)  |
| Change-Of-State-Time           | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Change-Of-State-Count          | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0 (reset)              |
| Time-Of-State-Count-Reset      | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Elapsed-Active-Time            | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0 (reset)              |
| Time-Of-Active-Time-Reset      | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Minimum-Off-Time               | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Minimum-On-Time                | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Priority-Array                 | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Relinquish-Default             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Time-Delay                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Alarm-Value                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)   |
| Time-Delay-Normal              | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property          | Enum | R                                   | W                        | Property Datatype<br>Range Restriction |
|-------------------------------|------|-------------------------------------|--------------------------|----------------------------------------|
| Event-Suppress-Reference      | 8244 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Active         | 8245 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Cascade-Active | 8246 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Priority-Array-Reset          | 8309 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (CMD enabled)                          |

BACnet Building Controller (B-BC)

Command (CMD = 7)

| Standard Property     | CC | R                                   | W                                   | Range Restriction                               |
|-----------------------|----|-------------------------------------|-------------------------------------|-------------------------------------------------|
| Object-Identifier     | R  | <input checked="" type="checkbox"/> |                                     |                                                 |
| Object-Name           | R  | <input checked="" type="checkbox"/> |                                     |                                                 |
| Object-Type           | R  | <input checked="" type="checkbox"/> |                                     |                                                 |
| Present-Value         | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | [0..12]                                         |
| Description           | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters)                          |
| In-Process            | R  | <input checked="" type="checkbox"/> |                                     |                                                 |
| All-Writes-Successful | R  | <input checked="" type="checkbox"/> |                                     |                                                 |
| Action                | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (array, up to 12, max. 16 action commands each) |
| Action-Text           | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (array, up to 12, max. 32 characters long each) |
| Property-List         | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                                 |
| Profile-Name          | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                                 |

BACnet Building Controller (B-BC)

**Multi-State Input (MI = 13)**

| Standard Property              | CC | R                                   | W                                   | Range Restriction      |
|--------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Present-Value                  | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Device-Type                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Out-Of-Service                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Number-Of-States               | R  | <input checked="" type="checkbox"/> |                                     |                        |
| State-Text                     | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Time-Delay                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Alarm-Values                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Fault-Values                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)   |
| Time-Delay-Normal              | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property          | Enum | R                                   | W                        | Property Datatype<br>Range Restriction |
|-------------------------------|------|-------------------------------------|--------------------------|----------------------------------------|
| Event-Suppress-Reference      | 8244 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Active         | 8245 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Cascade-Active | 8246 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Hardware-Input-Module-Id      | 8263 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | List                                   |
| Hardware-Input-Channel-Id     | 8264 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | List                                   |

BACnet Building Controller (B-BC)

**Multi-State Output (MO = 14)**

| Standard Property              | CC | R                                   | W                                   | Range Restriction      |
|--------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Present-value                  | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.. up to 12           |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Device-Type                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Out-Of-Service                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Number-Of-States               | R  | <input checked="" type="checkbox"/> |                                     |                        |
| State-Text                     | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Priority-Array                 | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Relinquish-Default             | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Time-Delay                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Feedback-Value                 | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)   |
| Time-Delay-Normal              | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property          | Enum | R                                   | W                        | Property Datatype<br>Range Restriction |
|-------------------------------|------|-------------------------------------|--------------------------|----------------------------------------|
| Event-Suppress-Reference      | 8244 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Active         | 8245 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Cascade-Active | 8246 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Hardware-Input-Module-Id      | 8263 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | List                                   |
| Hardware-Input-Channel-Id     | 8264 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | List                                   |
| Hardware-Output-Module-Id     | 8265 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | List                                   |
| Hardware-Output-Channel-Id    | 8266 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | List                                   |
| Priority-Array-Reset          | 8309 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Hardware-Output-Value         | 8334 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |



BACnet Building Controller (B-BC)

**Multi-State Value (MV = 19)**

| Standard Property              | CC | R                                   | W                                   | Range Restriction        |
|--------------------------------|----|-------------------------------------|-------------------------------------|--------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Present-Value                  | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1.. up to 12 (CMD enbl.) |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters)   |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                          |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Out-Of-Service                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                          |
| Number-Of-States               | R  | <input checked="" type="checkbox"/> |                                     |                          |
| State-Text                     | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Priority-Array                 | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Relinquish-Default             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                          |
| Time-Delay                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                          |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                          |
| Alarm-Values                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Fault-Values                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                          |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                          |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                          |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)     |
| Time-Delay-Normal              | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                          |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |

| Proprietary Property          | Enum | R                                   | W                        | Property Datatype<br>Range Restriction |
|-------------------------------|------|-------------------------------------|--------------------------|----------------------------------------|
| Event-Suppress-Reference      | 8244 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Active         | 8245 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Cascade-Active | 8246 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Priority-Array-Reset          | 8309 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (CMD enabled)                          |

BACnet Building Controller (B-BC)

**Lighting Output (LO = 54)**

| Standard Property                 | CC | R                                   | W                                   | Range Restriction      |
|-----------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier                 | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                       | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                       | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Present-Value                     | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Tracking-Value                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Lighting-Command                  | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| In-Progress                       | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Description                       | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Status-Flags                      | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                       | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Out-Of-Service                    | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Blink-Warn-Enable                 | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Egress-Time                       | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Egress-Active                     | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Default-Fade-Time                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Default-Ramp-Rate                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Default-Step-Increment            | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Transition                        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Feedback-Value                    | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Priority-Array                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Relinquish-Default                | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Power                             | O  | <input type="checkbox"/>            |                                     |                        |
| Instantaneous-Power               | O  | <input type="checkbox"/>            |                                     |                        |
| Min-Actual-Value                  | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Max-Actual-Value                  | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Lighting-Command-Default-Priority | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| COV-Increment                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Reliability-Evaluation-Inhibit    | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Property-List                     | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                      | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property       | Enum | R                                   | W                                   | Property Datatype<br>Range Restriction |
|----------------------------|------|-------------------------------------|-------------------------------------|----------------------------------------|
| Priority-Array-Reset       | 8309 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| COV-Synchronization-Period | 8314 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                        |
| Hardware-Output-Module-Id  | 8265 |                                     |                                     |                                        |
| Hardware-Output-Channel-Id | 8266 |                                     |                                     |                                        |
| Hardware-Output-Value      | 8334 |                                     |                                     |                                        |
| Sauter-Default-On-Value    | 8337 |                                     |                                     |                                        |
| Sauter-On-Delay            | 8338 |                                     |                                     |                                        |
| Sauter-Fading-Mode         | 8385 |                                     |                                     |                                        |
| Sauter-Lamp-Curve          | 8386 |                                     |                                     |                                        |
| Sauter-Output-Is-Active    | 8387 |                                     |                                     |                                        |
| Sauter-Manual-Priority     | 8341 |                                     |                                     |                                        |

BACnet Building Controller (B-BC)

**Positive Integer Value (PIV = 48)**

| Standard Property              | CC | R                                   | W                                   | Range Restriction      |
|--------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Present-Value                  | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (CMD enabled)          |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Out-Of-Service                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Units                          | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Priority-Array                 | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Relinquish-Default             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| COV-Increment                  | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Time-Delay                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| High-Limit                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Low-Limit                      | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Deadband                       | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Limit-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)   |
| Time-Delay-Normal              | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Min-Pres-Value                 | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Max-Pres-Value                 | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Resolution                     | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property          | Enum | R                                   | W                                   | Property Datatype<br>Range Restriction |
|-------------------------------|------|-------------------------------------|-------------------------------------|----------------------------------------|
| Event-Suppress-Cascade-Active | 8246 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (IR enabled)                           |
| Priority-Array-Reset          | 8309 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (CMD enabled)                          |
| COV-Synchronization-Period    | 8314 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                        |

1.1.5.3. Scheduling

**Calendar (CAL = 6)**

| Standard Property | CC | R | W | Range Restriction |
|-------------------|----|---|---|-------------------|
|-------------------|----|---|---|-------------------|

BACnet Building Controller (B-BC)

| Standard Property | CC | R                                   | W                                   | Range Restriction      |
|-------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name       | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type       | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Description       | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Present-Value     | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Date-List         | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Property-List     | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name      | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

BACnet Building Controller (B-BC)

**Schedule (SCHD = 17)**

| Standard Property                  | CC | R                                   | W                                   | Range Restriction      |
|------------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier                  | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                        | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                        | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Present-Value                      | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Description                        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Effective-Period                   | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Weekly-Schedule                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Exception-Schedule                 | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Schedule-Default                   | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| List-Of-Object-Property-References | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Priority-For-Writing               | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Status-Flags                       | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                        | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Out-Of-Service                     | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Detection-Enable             | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Notification-Class                 | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Event-Enable                       | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Event-State                        | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Acked-Transitions                  | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Notify-Type                        | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Event-time-Stamps                  | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Event-Message-Texts                | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config         | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Reliability-Evaluation-Inhibit     | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Property-List                      | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                       | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

BACnet Building Controller (B-BC)

1.1.5.4. Alarm and Event Management

**Event Enrollment (EE = 9)**

| Standard Property              | CC | R                                   | W                                   | Range Restriction                                                                                                                    |
|--------------------------------|----|-------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                                                                                                                                      |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                                                                                                                                      |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                                                                                                                                      |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters)                                                                                                               |
| Event-Type                     | R  | <input checked="" type="checkbox"/> |                                     | Out-of-range (5),<br>Unsigned-range (11),<br>Signed-out-of-range (15),<br>Unsigned-out-of-range (16),<br>Change-of-status-flags (18) |
| Notify-Type                    | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                                                                                                      |
| Event-Parameters               | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (see event-type)                                                                                                                     |
| Object-Property-Reference      | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                                                                                                      |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                                                                                                                                      |
| Event-Enable                   | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                                                                                                      |
| Acked-Transitions              | R  | <input checked="" type="checkbox"/> |                                     |                                                                                                                                      |
| Notification-Class             | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                                                                                                      |
| Event-Time-Stamps              | R  | <input checked="" type="checkbox"/> |                                     |                                                                                                                                      |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                                                                                                                      |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                                                                                                      |
| Event-Detection-Enable         | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                                                                                                                      |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                                                                                                                      |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)                                                                                                                 |
| Time-Delay-Normal              | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                                                                                                                      |
| Status-flags                   | R  | <input checked="" type="checkbox"/> |                                     |                                                                                                                                      |
| Reliability                    | R  | <input checked="" type="checkbox"/> |                                     |                                                                                                                                      |
| Fault-Type                     | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                                                                                                                                      |
| Fault-Parameters               | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                                                                                                                                      |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                                                                                                                      |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                                                                                                                      |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                                                                                                                      |

| Proprietary Property          | Enum | R                                   | W                        | Property Datatype<br>Range Restriction |
|-------------------------------|------|-------------------------------------|--------------------------|----------------------------------------|
| Event-Suppress-Reference      | 8244 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Active         | 8245 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Cascade-Active | 8246 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |

BACnet Building Controller (B-BC)

**Notification Class (NC = 15)**

| Standard Property  | CC | R                                   | W                                   | Range Restriction      |
|--------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier  | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name        | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type        | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Description        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Notification-Class | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Priority           | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Ack-Required       | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Recipient-List     | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Property-List      |    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name       | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property        | Enum | R                                   | W                        | Property Datatype<br>Range Restriction |
|-----------------------------|------|-------------------------------------|--------------------------|----------------------------------------|
| Status-Flag-Sum             | 8300 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Number-Of-Active-Transition | 8301 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Number-Of-Open-Transition   | 8302 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |

BACnet Building Controller (B-BC)

1.1.5.5. Trending and Logging

**Trend Log (TL = 20)**

| Standard Property              | CC | R                                   | W                                   | Range Restriction      |
|--------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Enable                         | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Start-Time                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Stop-Time                      | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Log-DeviceObjectProperty       | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Log-Interval                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| COV-Resubscription-Interval    | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Client-COV-Increment           | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (NULL)                 |
| Stop-When-Full                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Buffer-Size                    | R  | <input checked="" type="checkbox"/> |                                     | (Create only)          |
| Log-Buffer                     | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Record-Count                   | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0 (Reset)              |
| Total-Record-Count             | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Logging-Type                   | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Align-Intervals                | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Interval-Offset                | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Trigger                        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notification-Threshold         | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Records-Since-Notification     | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Last-Notify-Record             | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)   |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |



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Event Log (EL = 25)

| Standard Property              | CC | R                                   | W                                   | Range Restriction      |
|--------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Property-List                  | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Enable                         | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Start-Time                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Stop-Time                      | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Stop-When-Full                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Buffer-Size                    | R  | <input checked="" type="checkbox"/> |                                     | Max. 8 (Create only)   |
| Log-Buffer                     | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Record-Count                   | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0 (Reset)              |
| Total-Record-Count             | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Notification-Threshold         | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Records-Since-Notification     | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Last-Notify-Record             | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)   |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property           | Enum | R                                   | W | Property Datatype<br>Range Restriction |
|--------------------------------|------|-------------------------------------|---|----------------------------------------|
| Sauter-event-log-accepted-list | 8413 | <input checked="" type="checkbox"/> |   |                                        |

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1.1.5.6. Application

**Pulse Converter (PC = 24)**

| Standard Property              | CC | R                                   | W                                   | Range Restriction      |
|--------------------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Present-Value                  | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Input-Reference                | O  | <input type="checkbox"/>            |                                     |                        |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Out-Of-Service                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Units                          | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Scale-Factor                   | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Adjust-Value                   | W  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Count                          | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Update-Time                    | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Count-Change-Time              | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Count-Before-Change            | R  | <input checked="" type="checkbox"/> |                                     |                        |
| COV-Increment                  | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| COV-Period                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Time-Delay                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| High-Limit                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Low-Limit                      | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Deadband                       | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Limit-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Event-Algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)   |
| Time-Delay-Normal              | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property          | Enum | R                                   | W                        | Property Datatype<br>Range Restriction |
|-------------------------------|------|-------------------------------------|--------------------------|----------------------------------------|
| Event-Suppress-Reference      | 8244 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Active         | 8245 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Event-Suppress-Cascade-Active | 8246 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (IR enabled)                           |
| Hardware-Input-Module-Id      | 8263 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Hardware-Input-Channel-Id     | 8264 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |

BACnet Building Controller (B-BC)

| Proprietary Property         | Enum | R                                   | W                                   | Property Datatype<br>Range Restriction |
|------------------------------|------|-------------------------------------|-------------------------------------|----------------------------------------|
| PC-Limit-Monitoring-Interval | 8281 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Unsigned, 1..86400                     |
| PC-Pulse-Rate                | 8282 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | REAL                                   |
| Priority-Array-Reset         | 8309 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |

BACnet Building Controller (B-BC)

Loop (LP = 12)

| Standard Property              | CC | R                                   | W                                   | Range Restriction       |
|--------------------------------|----|-------------------------------------|-------------------------------------|-------------------------|
| Object-Identifier              | R  | <input checked="" type="checkbox"/> |                                     |                         |
| Object-Name                    | R  | <input checked="" type="checkbox"/> |                                     |                         |
| Object-Type                    | R  | <input checked="" type="checkbox"/> |                                     |                         |
| Present-Value                  | R  | <input checked="" type="checkbox"/> |                                     |                         |
| Description                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters)  |
| Status-Flags                   | R  | <input checked="" type="checkbox"/> |                                     |                         |
| Event-State                    | R  | <input checked="" type="checkbox"/> |                                     |                         |
| Reliability                    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                         |
| Out-Of-Service                 | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Update-Interval                | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                         |
| Output-Units                   | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Manipulated-Variable-Reference | R  | <input checked="" type="checkbox"/> |                                     |                         |
| Controlled-Variable-Reference  | R  | <input checked="" type="checkbox"/> |                                     |                         |
| Controlled-Variable-Value      | R  | <input checked="" type="checkbox"/> |                                     |                         |
| Controlled-Variable-Units      | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Setpoint-Reference             | R  | <input checked="" type="checkbox"/> |                                     |                         |
| Setpoint                       | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, if no Setpoint-Ref) |
| Action                         | R  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Proportional-Constant          | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Proportional-Constant-Units    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Integral-Constant              | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Integral-Constant-Units        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Derivative-Constant            | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Derivative-Constant-Units      | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Bias                           | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Maximum-Output                 | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Minimum-Output                 | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Priority-For-Writing           | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                         |
| COV-Increment                  | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Time-Delay                     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Notification-Class             | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Error-Limit                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Deadband                       | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Event-Enable                   | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Acked-Transitions              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                         |
| Notify-Type                    | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Event-Time-Stamps              | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                         |
| Event-Message-Texts            | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                         |
| Event-Message-Texts-Config     | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                         |
| Event-Detection-Enable         | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                         |
| Event-Algorithm-Inhibit-Ref    | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                         |
| Event-algorithm-Inhibit        | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (W, when no Ref set)    |
| Time-Delay-Normal              | O  | <input type="checkbox"/>            | <input type="checkbox"/>            |                         |
| Reliability-Evaluation-Inhibit | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                         |
| Property-List                  | R  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                         |
| Profile-Name                   | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                         |

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| Proprietary Property          | Enum | R                                   | W                                   | Property Datatype<br>Range Restriction |
|-------------------------------|------|-------------------------------------|-------------------------------------|----------------------------------------|
| Event-Suppress-Reference      | 8244 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (IR enabled)                           |
| Event-Suppress-Active         | 8245 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (IR enabled)                           |
| Event-Suppress-Cascade-Active | 8246 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | (IR enabled)                           |
| Controller-Deadband           | 8262 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                        |
| COV-Synchronization-Period    | 8314 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                        |

**BACnet Building Controller (B-BC)**

1.1.5.7. Proprietary Objects

The proprietary objects are implemented according to all requirements for Conformance and Interoperability (Clause 22) and according to Extending BACnet To Accommodate Vendor Proprietary Information (Clause 23).

There are no specific property range restrictions except those specified in the BACnet Standard.

Proprietary object types are supported as listed:

**IO Unit (IOU = 384)**

Description: The IO-Unit object type defines the hardware units and represents the hardware inputs and outputs from the BACnet building controller and from the I/O-modules, the operating panel and the communication modules connected to the controller.

| Standard Property | CC | R                                   | W                                   | Range Restriction      |
|-------------------|----|-------------------------------------|-------------------------------------|------------------------|
| Object-Identifier | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Name       | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Object-Type       | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Description       | O  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | (up to 128 characters) |
| Firmware-Revision | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| System-Status     | O  | <input type="checkbox"/>            |                                     |                        |
| Property-List     | R  | <input checked="" type="checkbox"/> |                                     |                        |
| Profile-Name      | O  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |

| Proprietary Property           | Enum | R                                   | W                        | Property Datatype<br>Range Restriction |
|--------------------------------|------|-------------------------------------|--------------------------|----------------------------------------|
| Hardware-Revision              | 8208 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| IOunit-Idx                     | 8227 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Plugged-In                     | 8228 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Serial-Number-Actual           | 8230 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| OP-Unit-Id-Actual              | 8233 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| OP-Unit-Id-Expected            | 8234 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| OP-Unit-Serial-Number-Expected | 8235 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| OP-Unit-Serial-Number-Actual   | 8236 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Model-Name-Expected            | 8237 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Model-Name-Actual              | 8238 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Channel-Values                 | 8239 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Channel-Types                  | 8240 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                        |
| Sauter-On-Delay                | 8338 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (ecoLink Devices only)                 |

1.1.6. Data Link Layer Options

- BACnet IP (Annex J)

**BACnet Building Controller (B-BC)**

- BACnet IP (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s): \_\_\_\_
- MS/TP master (Clause 9), baud rate(s): \_\_\_\_
- MS/TP slave (Clause 9), baud rate(s): \_\_\_\_
- Point-To-Point, EIA-232 (Clause 10), baud rate(s): \_\_\_\_
- Point-To-Point, modem (Clause 10), baud rate(s): \_\_\_\_
- LonTalk, (Clause 11), medium: \_\_\_\_
- BACnet/ZigBee (Annex O)
- Other: \_\_\_\_

**1.1.7. Device Address Binding**

Static device binding is supported:  Yes  No

**1.1.8. Networking Options**

- Router (Clause 6) - List of all routing configurations: \_\_\_\_
- BACnet Tunneling Router over IP (Annex H)
- BACnet/IP Broadcast Management Device (BBMD)
  - BBMD supports registrations by Foreign Devices:  Yes  No
  - BDT size: max. 32      FDT size: max. 32
  - BBMD supports network address translation?  Yes  No

**1.1.9. 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)

### 1.1.10. Character Sets

Supports following character sets:

- |                                                       |                                               |                                                |
|-------------------------------------------------------|-----------------------------------------------|------------------------------------------------|
| <input checked="" type="checkbox"/> ISO 10646 (UTF-8) | <input type="checkbox"/> IBM™/Microsoft™ DBCS | <input checked="" type="checkbox"/> ISO 8859-1 |
| <input type="checkbox"/> ISO 10646 (UCS-2)            | <input type="checkbox"/> ISO 10646 (UCS-4)    | <input type="checkbox"/> JIS 0208              |

Outgoing character strings are communicated according to the selected character set (Sauter-character-set).

Incoming character strings with character sets other than ISO 10646 (UTF-8) will be mapped to ISO 10646 (UTF-8) internally.

### 1.1.11. Communication Gateway

In conjunction with the extension module ecoMod580, EnOcean devices can be supported.

The room automation station ecos504 with the KNX module (Type EY-RC504F011) supports KNX/TP devices on a sub-network.

The room automation station ecos504 with the DALI module (Type EY-RC504F021) supports DALI devices on a sub-network.

The room automation station ecos504 with the SMI module (Type EY-RC504F041) supports SMI devices on a sub-network.





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Printed in Switzerland  
Document Revision: 06