

**MIRAE ELECTRICAL BACnet  
PICS  
MRS-CPUV01**

**BACnet Protocol Implementation  
Conformance Statement**

7010064003 - 12

**Note:**

This statement corresponds to the current releases. Changes are taking place constantly, without prior notification.

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## 1 BACnet Building Controller (B-BC)

### 1.1. MIRAE ELECTRICAL modulo Automation Stations

Date	April 2013	
Vendor Name	Fr. MIRAE Electrical AG (Vendor ID: 687)	
Product Name	Building Controller	
Product Model Number	MRS-CPUV01	
Applications Software Version	2.7	(CASE Engine Interface, Function Index)
Firmware Revision	V2.6.1	(BACnet Firmware)
BACnet Protocol Revision	Version 1, Revision 12	

BACnet Testing Laboratory (BTL):

**BACnet Profile:**        **B-BC**  
**Date:**  
**Firmware:**            2.6.1  
**Model:**                MRS-CPUV01

#### 1.1.1. Product Description

The MIRAE ELECTRICAL BACnet Building Controller family EY-modulo 5 are programmable automation stations for common building control applications (e.g. HVAC&R, room control, lighting...). 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 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 DS-RPM-A, -B DS-WP-A, -B DS-WPM-B DS-COV-A, -B DS-COVP-B DS-COVU-A, -B	AE-ACK-B AE-ESUM-B AE-INFO-B AE-N-I-B AE-ASUM-B <sup>1</sup>	SCHED-I-B SCHED-E-B	T-VMT-I-B T-ATR-B	DM-DDB-A, -B DM-DOB-B DM-DCC-B DM-RD-B DM-TS-A, -B DM-UTC-A, -B DM-BR-B DM-ATS-A DM-LM-B DM-OCD-B DM-R-A, -B

<sup>1</sup> deprecated

### 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.

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

BACnet Building Controller (B-BC)

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 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"/>	-	-	-	-
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"/>	-	-	-	-
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 MIRAE ELECTRICAL EY-modulo 5 and the range restrictions of the BACnet Standard. Supported standard and proprietary objects may support following optional and proprietary properties and in addition to the standard conformance code some writable properties:

**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

BACnet Building Controller (B-BC)

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	O1	<input checked="" type="checkbox"/>		
VT-Classes-Supported	O2	-		
Active-VT-Sessions	O2	-		
Local-Time	O3,4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(time sync service)
Local-Date	O3,4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(time sync service)
UTC-Offset	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-780..780 (configurable)
Daylight-Savings-Status	O4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(automatic DST)
APDU-Segment-Timeout	O1	<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	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 32 recipients)
Max-Master	O6	-		
Max-Info-Frames	O6	-		
Device-Address-Binding	R	<input checked="" type="checkbox"/>		(up to 100 devices)
Database-Revision	R	<input checked="" type="checkbox"/>		
Configuration-Files	O7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Last-Restore-Time	O7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Backup-Failure-Timeout	O8	<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)
Active-COV-Subscriptions	O9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Slave-Proxy-Enable	O10	-		
Manual-Slave-Address-Binding	O10	-		
Auto-Slave-Discovery	O11	-		
Slave-Address-Binding	O12	-		
Last-Restart-Reason	O13	<input checked="" type="checkbox"/>		
Time-Of-Device-Restart	O13	<input checked="" type="checkbox"/>		

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Restart-Notification-Recipients	O13	<input checked="" type="checkbox"/>		(up to 32 recipients)
UTC-Time-Synchronization-Recipients	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 32 recipients)
Time-Synchronization-Interval	O14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Align-Intervals	O14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Interval-Offset	O14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Proprietary Property</b>	<b>Enum</b>	<b>R</b>	<b>W</b>	<b>Property Datatype Range Restriction</b>
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"/>	
MIRAE Electrical-character-set	8351	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0: UTF8; 5: ISO-8859-1
MIRAE Electrical-DST-Start-Date	8352	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
MIRAE Electrical-DST-End-Date	8353	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
MIRAE Electrical-DST-Start-Offset	8354	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
MIRAE Electrical-DST-End-Offset	8355	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**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"/>		
File-Type	R	<input checked="" type="checkbox"/>		
File-Size	R1	<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	O2	<input type="checkbox"/>		
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**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	O1	<input checked="" type="checkbox"/>		
Description-Of-Halt	O1	<input checked="" type="checkbox"/>		
Program-Location	O	-		
Description	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 128 characters)



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Instance-Of	O	-		
Status-Flags	R	<input checked="" type="checkbox"/>		
Reliability	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Out-Of-Service	R	<input checked="" type="checkbox"/>		
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Proprietary Property</b>	<b>Enum</b>	<b>R</b>	<b>W</b>	<b>Property Datatype Range Restriction</b>
Download-User	8322	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Download-Comment	8323	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**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 checked="" 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"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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	R1	<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"/>		
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	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time-Delay	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification-Class	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
High-Limit	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Low-Limit	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Deadband	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Limit-Enable	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Enable	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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Acked-Transitions	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notify-Type	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Time-Stamps	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Message-Texts	O	<input type="checkbox"/>	<input type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				<b>Property Datatype</b>
<b>Proprietary Property</b>	<b>Enum</b>	<b>R</b>	<b>W</b>	<b>Range Restriction</b>
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"/>	
Hardware-Input-Channel-Id	8264	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
COV-Synchronization-Period	8314	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

**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 checked="" type="checkbox"/>	
COV-Increment	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time-Delay	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification-Class	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
High-Limit	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Low-Limit	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Deadband	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Limit-Enable	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Enable	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked-Transitions	O2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notify-Type	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Time-Stamps	O2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Message-Texts	O	<input 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 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"/>	
COV-Synchronization-Period	8314	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Hardware-Output-Value	8334	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**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	R4	<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	O1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Relinquish-Default	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
COV-Increment	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time-Delay	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification-Class	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
High-Limit	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Low-Limit	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Deadband	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Limit-Enable	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Enable	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked-Transitions	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notify-Type	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Time-Stamps	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Message-Texts	O	<input type="checkbox"/>	<input type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

  

Proprietary Property	Enum	R	W	Property Datatype 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"/>	

### 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	R1	<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	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 32 characters)
Active-Text	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 32 characters)
Change-Of-State-Time	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Change-Of-State-Count	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0 (reset)
Time-Of-State-Count-Reset	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Elapsed-Active-Time	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0 (reset)
Time-Of-Active-Time-Reset	O4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Time-Delay	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification-Class	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarm-Value	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Enable	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked-Transitions	O5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notify-Type	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Time-Stamps	O5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Message-Texts	O	<input type="checkbox"/>	<input type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				<b>Property Datatype</b>
<b>Proprietary Property</b>	<b>Enum</b>	<b>R</b>	<b>W</b>	<b>Range Restriction</b>
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"/>	

### 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"/>		

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Inactive-Text	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 32 characters)
Active-Text	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 32 characters)
Change-Of-State-Time	O2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Change-Of-State-Count	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0 (reset)
Time-Of-State-Count-Reset	O2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Elapsed-Active-Time	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0 (reset)
Time-Of-Active-Time-Reset	O3	<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 checked="" type="checkbox"/>	
Time-Delay	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification-Class	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Feedback-Value	O4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Enable	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked-Transitions	O4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notify-Type	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Time-Stamps	O4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Message-Texts	O	<input type="checkbox"/>	<input type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				<b>Property Datatype</b>
<b>Proprietary Property</b>	<b>Enum</b>	<b>R</b>	<b>W</b>	<b>Range Restriction</b>
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"/>	
Priority-Array-Reset	8309	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hardware-Output-Value	8334	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**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	R1	<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	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 32 characters)
Active-Text	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 32 characters)
Change-Of-State-Time	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Change-Of-State-Count	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0 (reset)
Time-Of-State-Count-Reset	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Elapsed-Active-Time	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0 (reset)
Time-Of-Active-Time-Reset	O4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Minimum-Off-Time	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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Minimum-On-Time	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Priority-Array	O5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Relinquish-Default	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time-Delay	O6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification-Class	O6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarm-Value	O6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Enable	O6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked-Transitions	O6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notify-Type	O6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Time-Stamps	O6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Message-Texts	O	<input type="checkbox"/>	<input type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				<b>Property Datatype</b>
<b>Proprietary Property</b>	<b>Enum</b>	<b>R</b>	<b>W</b>	<b>Range Restriction</b>
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)

**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)
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**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	R1	<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	O2	<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"/>	

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Time-Delay	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification-Class	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarm-Values	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Fault-Values	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Enable	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked-Transitions	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notify-Type	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Time-Stamps	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Message-Texts	O	<input type="checkbox"/>	<input type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				<b>Property Datatype</b>
<b>Proprietary Property</b>	<b>Enum</b>	<b>R</b>	<b>W</b>	<b>Range Restriction</b>
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

**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 checked="" type="checkbox"/>	
Time-Delay	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification-Class	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Feedback-Value	O1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Enable	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked-Transitions	O1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notify-Type	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Time-Stamps	O1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Message-Texts	O	<input type="checkbox"/>	<input type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				<b>Property Datatype</b>
<b>Proprietary Property</b>	<b>Enum</b>	<b>R</b>	<b>W</b>	<b>Range Restriction</b>
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

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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"/>	

**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	R1	<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	O2	<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	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Relinquish-Default	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time-Delay	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification-Class	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarm-Values	O4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Fault-Values	O4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Enable	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked-Transitions	O4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notify-Type	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Time-Stamps	O4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Message-Texts	O	<input type="checkbox"/>	<input type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				<b>Property Datatype</b>
Proprietary Property	Enum	R	W	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)

1.1.5.3. Scheduling

**Calendar (CAL = 6)**

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"/>	



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Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**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	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Exception-Schedule	O1	<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"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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"/>		
Notify-Type	R	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Parameters	R	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(Out-Of-Range only)
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 type="checkbox"/>	<input type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Proprietary Property</b>	<b>Enum</b>	<b>R</b>	<b>W</b>	<b>Property Datatype Range Restriction</b>
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)

**Notification Class (NC = 15)**

Standard Property	CC	R	W	Range Restriction
Object-Identifier	R	<input checked="" type="checkbox"/>		

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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"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Proprietary Property</b>	<b>Enum</b>	<b>R</b>	<b>W</b>	<b>Property Datatype Range Restriction</b>
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"/>	

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	O1,2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Stop-Time	O1,2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Log-DeviceObjectProperty	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Log-Interval	O1,2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
COV-Resubscription-Interval	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Client-COV-Increment	O	<input type="checkbox"/>		
Stop-When-Full	R	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Buffer-Size	R	<input checked="" type="checkbox"/>	<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"/>		
Notification-Threshold	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Records-Since-Notification	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Last-Notify-Record	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-State	R	<input checked="" type="checkbox"/>		
Notification-Class	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Enable	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked-Transitions	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notify-Type	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Time-Stamps	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Message-Texts	O	<input type="checkbox"/>	<input type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Logging-Type	O	<input checked="" type="checkbox"/>	<input 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"/>	

BACnet Building Controller (B-BC)

Status-Flags	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Reliability	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1.1.5.6. Application

**Pulse Converter (PC = 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)
Present-Value	R1	<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	R2	<input checked="" type="checkbox"/>		
Count-Before-Change	R2	<input checked="" type="checkbox"/>		
COV-Increment	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
COV-Period	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification-Class	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time-Delay	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
High-Limit	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Low-Limit	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Deadband	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Limit-Enable	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Enable	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked-Transitions	O4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notify-Type	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Time-Stamps	O4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Message-Texts	O	<input type="checkbox"/>	<input type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				<b>Property Datatype</b>
<b>Proprietary Property</b>	<b>Enum</b>	<b>R</b>	<b>W</b>	<b>Range Restriction</b>
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"/>	
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"/>	

**Loop (LP = 12)**

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"/>		
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	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Proportional-Constant-Units	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Integral-Constant	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Integral-Constant-Units	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Derivative-Constant	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Derivative-Constant-Units	O3	<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	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time-Delay	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification-Class	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Error-Limit	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Deadband	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Enable	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked-Transitions	O5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Notify-Type	O5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event-Time-Stamps	O5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Event-Message-Texts	O	<input type="checkbox"/>	<input type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Proprietary Property</b>	<b>Enum</b>	<b>R</b>	<b>W</b>	<b>Property Datatype</b> <b>Range Restriction</b>
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"/>	

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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"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				<b>Property Datatype</b>
Proprietary Property	Enum	R	W	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"/>	
CM-Protocol-ID-Actual	8269	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(moduCom only)
CM-Protocol-ID-Expected	8270	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(moduCom only)
CM-Protocol-Version	8271	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(moduCom only)
CM-Status	8276	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enum (moduCom only)
CM-Statistics	8303	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(moduCom only)
MIRAE Electrical-On-Delay	8338	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

1.1.6. Data Link Layer Options

- BACnet IP (Annex J)
- BACnet IP (Annex J), Foreign Device

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- 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)

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### 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 (MIRAE Electrical-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 moduCom extension modules modu721 or modu731 Modbus/RTU or M-Bus devices can be supported.

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