

**SAUTER BACnet PICS  
moduNet300 - nova106, 220, 230**

**BACnet Protocol Implementation  
Conformance Statement**

7010065003 - 04

Note:

This statement corresponds to the current releases. 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 BACnet Server for EY-modulo 2 and EY3600**

EY-modulo 2 BACnet Application Master moduNet300  
 EY3600 BACnet Automation Stations nova106, nova220, nova230

Date	November 2014	
Vendor Name	Fr. Sauter AG (Vendor ID: 80)	
Product Name	SAUTER BACnet Server for EY-modulo 2 and EY3600	
Product Model Number	moduNet300 : EY-AM300 : novaNet-BACnet Application Master moduNet300 nova106 : EYK300 : Modular BACnet Automation Station nova106 nova220 : EYK220 : Compact BACnet Automation Station nova220 nova230 : EYK230 : Compact BACnet Universal Automation Station nova230	
Applications Software Version	3.3.006(0)	(BACnet Server Configurator)
Firmware Revision	3.3-006(0)	(BACnet Server Firmware)
BACnet Protocol Revision	Version 1, Revision 4	

**BACnet Testing Laboratory (BTL):**

<b>BACnet Profile:</b>	<b>B-ASC</b>	<b>B-BC</b>
<b>Date:</b>	May 13th 2004	—
<b>WSP Lab:</b>	No. 08.61.SAG.001.1	—
<b>Firmware:</b>	2.0-017	3.2+
<b>Model:</b>	EYK300	EYK300/EY-AM300

All Product Model Numbers are based on the same architecture (single board computer) and run identical firmware.

**1.1.1. Product Description**

The SAUTER BACnet Server for the systems SAUTER EY-modulo 2 and EY3600 is a communication component for SAUTER's programmable controllers (nova, ecos 2, modu 2 based on 2-wire communication bus system novaNet). The application masters and the BACnet automation stations integrate automatically novaNet building controllers to BACnet/IP. The BACnet Server includes all the required BACnet objects and functionalities as Data Sharing, Alarming, Scheduling and Trending for common building control applications (e.g. HVAC&R). It includes BACnet Client functionality for peer-to-peer communication with other BACnet devices and has integrated BBMD and FD functionality. The implementation is based on Cimetrix BACstac V4.2 and runs on Microsoft Windows CE.

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

1.1.2. BACnet Standardized Device Profile (Annex L)

- BACnet Operator Workstation (B-OWS)
- 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	AE-N-I-B AE-ACK-B AE-ASUM-B AE-ESUM-B AE-INFO-B	SCHED-I-B SCHED-E-B	T-VMT-I-B T-VMT-E-B T-ATR-B	DM-DDB-A, -B DM-DOB-A, -B DM-DCC-B DM-RD-B DM-TS-B DM-UTC-B DM-LM-B DM-OCD-B DM-BR-B  NM-CE-A

DS-COVU-A, DS-COVU-B are not required for B-BC as of ASHRAE 135-2004 Addendum 135-2004m-6 (Protocol Revision 1.7).



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

Object Type (Enum)	Supported	OC	OD	CMD	OOS	COV	IR/AR
Program (16)	<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"/>	-	-
Trend Log (20)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	-	<input checked="" type="checkbox"/>

There are no proprietary objects and no proprietary properties (Clause 23). There are no specific property range restrictions except those within the systems SAUTER EY-modulo 2 and EY3600 and the range restrictions of the BACnet Standard. Supported standard objects may support following optional 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      **W** = Required Readable and Writable      **( )** = comments in parenthesis  
**R** = Required Readable      **O** = (Conditionally) Optional      **P** = Proprietary

1.1.4.1. 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 64 characters)
Description	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 64 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"/>		(up to 1000 objects)
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 type="checkbox"/>	(time sync service)
Local-Date	O3,4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(time sync service)
UTC-Offset	O4	<input checked="" type="checkbox"/>		-780..780 (configurable)
Daylight-Savings-Status	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	(manual DST) (automatic DST)
APDU-Segment-Timeout	O1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
APDU-Timeout	R	<input checked="" type="checkbox"/>		

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Number-Of-APDU-Retries	R	<input checked="" type="checkbox"/>		
List-Of-Session-Keys	O	-		
Time-Synchronization-Recipients	O5	-		
Max-Master	O6	-		
Max-Info-Frames	O6	-		
Device-Address-Binding	R	<input checked="" type="checkbox"/>		(up to 32 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"/>	
Active-COV-Subscriptions	O9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(up to 3000 subscript.)
Slave-Proxy-Enable	O10	-		
Manual-Slave-Address-Binding	O10	-		
Auto-Slave-Discovery	O11	-		
Slave-Address-Binding	O12	-		
Profile-Name	O	<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"/>	<input checked="" type="checkbox"/>	(up to 64 characters)
Object-Type	R	<input checked="" type="checkbox"/>		
Description	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 64 characters)
File-Type	R	<input checked="" type="checkbox"/>		(STREAM-ACCESS)
File-Size	R1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
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 checked="" type="checkbox"/>	(up to 64 characters)



BACnet Building Controller (B-BC)

1.1.4.2. 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 32 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"/>		
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"/>		
Min-Pres-Value	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Max-Pres-Value	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Resolution	O	<input checked="" type="checkbox"/>	<input 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"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input 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 32 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"/>		
Out-Of-Service	R	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Units	R	<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"/>	<input type="checkbox"/>	
Priority-Array	R	<input checked="" type="checkbox"/>		

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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"/>
Profile-Name	O	<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 32 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"/>		
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"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input 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	R1	<input checked="" type="checkbox"/>		
Description	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 32 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 type="checkbox"/>	
Active-Text	O2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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"/>	
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"/>	(Set / 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 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"/>	
Profile-Name	O	<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 32 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	O1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Active-Text	O1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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"/>	
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"/>	(Set / Reset)

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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"/>
Profile-Name	O	<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 32 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"/>		
Active-Text	O2	<input checked="" type="checkbox"/>		
Change-Of-State-Time	O3	<input checked="" type="checkbox"/>		
Change-Of-State-Count	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time-Of-State-Count-Reset	O3	<input checked="" type="checkbox"/>		
Elapsed-Active-Time	O4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(Set / Reset)
Time-Of-Active-Time-Reset	O4	<input checked="" 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	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 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"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

BACnet Building Controller (B-BC)

**Multi-State Input (MSI = 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 32 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"/>	
Time-Delay	O3	<input type="checkbox"/>		
Notification-Class	O3	<input type="checkbox"/>		
Alarm-Values	O3	<input type="checkbox"/>		
Fault-Values	O3	<input type="checkbox"/>		
Event-Enable	O3	<input type="checkbox"/>		
Acked-Transitions	O3	<input type="checkbox"/>		
Notify-Type	O3	<input type="checkbox"/>		
Event-Time-Stamps	O3	<input type="checkbox"/>		
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Multi-State Output (MSO = 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 6
Description	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 32 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"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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**Multi-State Value (MSV = 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 6 (CMD enbl.)
Description	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 32 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 type="checkbox"/>		
Notification-Class	O4	<input type="checkbox"/>		
Alarm-Values	O4	<input type="checkbox"/>		
Fault-Values	O4	<input type="checkbox"/>		
Event-Enable	O4	<input type="checkbox"/>		
Acked-Transitions	O4	<input type="checkbox"/>		
Notify-Type	O4	<input type="checkbox"/>		
Event-Time-Stamps	O4	<input type="checkbox"/>		
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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1.1.4.3. 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"/>	<input checked="" type="checkbox"/>	(up to 64 characters)
Object-Type	R	<input checked="" type="checkbox"/>		
Description	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 64 characters)
Present-Value	R	<input checked="" type="checkbox"/>		
Date-List	R	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 64 characters)

**Schedule (SCHD = 17)**

Standard Property	CC	R	W	Range Restriction
Object-Identifier	R	<input checked="" type="checkbox"/>		
Object-Name	R	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 64 characters)
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 64 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 checked="" type="checkbox"/>	(up to 64 characters)

1.1.4.4. 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"/>	<input checked="" type="checkbox"/>	(up to 64 characters)
Object-Type	R	<input checked="" type="checkbox"/>		
Description	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 64 characters)
Event-Type	R	<input checked="" type="checkbox"/>	<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"/>	
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"/>		
Profile-Name	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 64 characters)

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**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"/>	<input checked="" type="checkbox"/>	(up to 64 characters)
Object-Type	R	<input checked="" type="checkbox"/>		
Description	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 64 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 checked="" type="checkbox"/>	(up to 64 characters)

1.1.4.5. 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"/>	<input checked="" type="checkbox"/>	(up to 64 characters)
Object-Type	R	<input checked="" type="checkbox"/>		
Description	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 64 characters)
Log-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 checked="" type="checkbox"/>	
Client-COV-Increment	O	<input checked="" type="checkbox"/>	<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"/>	
Log-Buffer	R	<input checked="" type="checkbox"/>		
Record-Count	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
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 type="checkbox"/>	
Event-Time-Stamps	O3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(up to 64 characters)



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1.1.4.6. 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 32 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 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"/>	<input type="checkbox"/>	
Count-Before-Change	R2	<input checked="" type="checkbox"/>	<input 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"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**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 32 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"/>		
Manipulated-Variable-Reference	R	<input checked="" type="checkbox"/>		

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Controlled-Variable-Reference	R	<input checked="" type="checkbox"/>		
Controlled-Variable-Value	R	<input checked="" type="checkbox"/>		
Controlled-Variable-Units	R	<input checked="" type="checkbox"/>		
Setpoint-Reference	R	<input checked="" type="checkbox"/>		
Setpoint	R	<input checked="" type="checkbox"/>		
Action	R	<input checked="" type="checkbox"/>		
Proportional-Constant	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Proportional-Constant-Units	O1	<input checked="" type="checkbox"/>		
Integral-Constant	O2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Integral-Constant-Units	O2	<input checked="" type="checkbox"/>		
Derivative-Constant	O3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Derivative-Constant-Units	O3	<input checked="" type="checkbox"/>		
Bias	O	<input checked="" type="checkbox"/>	<input 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"/>	
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"/>	
Profile-Name	O	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Not supported standard objects:

Access Door (AD = 30), Accumulator (ACC = 23), Averaging (AVG = 18), Command (CMD = 7), Event Log (EL = 25), Group (GRP = 11), Life Safety Point (LSP = 21), Life Safety Zone (LSZ = 22), Load Control (LC = 28), Program (PRG = 16), Structured View (SV = 29), Trend Log Multiple (TLM = 27)

**1.1.5. Segmentation Capability**

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

**1.1.6. Data Link Layer Options**

- BACnet IP (Annex J)
- BACnet IP (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s): \_\_\_\_
- MS/TP master (Clause 9), baud rate(s): \_\_\_\_
- MS/TP slave (Clause 9), baud rate(s): \_\_\_\_

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- Point-To-Point, EIA-232 (Clause 10), baud rate(s): \_\_\_\_
- Point-To-Point, modem (Clause 10), baud rate(s): \_\_\_\_
- LonTalk, (Clause 11), medium: \_\_\_\_
- 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. 16

**1.1.9. Character Sets**

Supports following character sets:

- ANSI X3.4                       IBM™/Microsoft™ DBCS       ISO 8859-1
- ISO 10646 (UCS-2)               ISO 10646 (UCS-4)               JIS C 6226
- ISO 10646 (UTF-8)

In addition to ANSI X3.4 Character Set the BACnet Server maps the EY-modulo 2 and EY3600 language specific characters for Object Name, Description and other CharacterString Types regarding to ISO 8859-1.



© Fr. Sauter AG  
Im Surinam 55 CH  
4016 Basel  
Tel. +41 61 - 695 55 55  
Fax +41 61 - 695 55 10  
[www.sauter-controls.com](http://www.sauter-controls.com)  
[info@sauter-controls.com](mailto:info@sauter-controls.com)  
Printed in Switzerland  
Document Revision: 04