



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

**BACnet Protocol Implementation
Conformance Statement**

7010065003 -02

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. SAUTER BACnet Server for EY-modulo 2 and EY3600

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

Date	October, 29 th 2008
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	3.2 (BACnet Server Configurator)
Firmware Revision	3.2-006(0) (BACnet Server Firmware)
BACnet Protocol Revision	Version 1, Revision 4

BACnet Testing Laboratory (BTL):

BACnet Profile:	B-ASC	B-BC
Date:	May 13th 2004	—
WSP Lab:	No. 08.61.SAG.001.1	—
Firmware:	2.0-017	3.2+
Model:	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	AE-N-I-B	SCHED-I-B	T-VMT-I-B	DM-DDB-A, -B
DS-RPM-A, -B	AE-N-E-B	SCHED-E-B	T-VMT-E-B	DM-DOB-A, -B
DS-WP-A, -B	AE-ACK-B		T-ATR-B	DM-DCC-B
DS-WPM-B	AE-ASUM-B			DM-RD-B
DS-COV-A, -B	AE-ESUM-B			DM-TS-B
DS-COVP-B	AE-INFO-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"/>	(manual DST)
			<input type="checkbox"/>	(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)

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"/>		
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"/>	
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"/>	

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"/>	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 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"/>	0 (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"/>		
Time-Of-State-Count-Reset	O3	<input checked="" 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"/>		
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"/>	

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"/>	
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"/>	(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	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"/>	

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 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"/>		
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)

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"/>		
Stop-Time	O1,2	<input checked="" type="checkbox"/>		
Log-DeviceObjectProperty	O1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Log-Interval	O1,2	<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)

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 type="checkbox"/>	<input type="checkbox"/>	
Count-Before-Change	R2	<input 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"/>		

BACnet Building Controller (B-BC)

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): ____

BACnet Building Controller (B-BC)

- 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. 16 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

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.



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