

**SAUTER BACnet PICS
novaPro Open**

**BACnet Protocol Implementation
Conformance Statement**

7010062003 - 03

Note:

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

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BACnet Advanced Workstation (B-AWS)

1 BACnet Advanced Workstation (B-AWS)

1.1 SAUTER novaPro Open with BACnet Driver

Date	November 2012	
Vendor Name	Fr. Sauter AG (Vendor ID: 80)	
Product Name	BACnet native Client for <i>novaPro Open</i> with vpiwnbcn.dll	
Product Model Number	YZP 416 F311	
Applications Software Version	4.2.0.17	(novaPro Open)
Firmware Revision	4.2.0.17	(novaPro Open Driver - vpiwnbcn.dll)
BACnet Protocol Revision	Version 1, Revision 9	

1.1.1 Product Description

The BACnet driver vpiwnbcn.dll for novaPro Open turns novaPro Open into a BACnet operator workstation. SAUTER novaPro Open has two operation modes with integrated BACnet/IP BBMD, FD:

- a) BACnet operator workstation, suitable for configuring BACnet servers and accessing any property of any object, and
- b) Standard SCADA operation, providing a graphical, intuitive user interface in order to allow the end user to easily access and operate the plant. Data sharing, scheduling, alarming and trending services are fully integrated with the services of the SCADA system.

The client implementation is based on Cimetrics BACstac 6.3.A

1.1.2 BACnet Standardized Device Profile (Annex L)

- BACnet Advanced Workstation (B-AWS)
- 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)

BACnet Advanced Workstation (B-AWS)

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-A	(SCHED-A)	T-ATR-A	DM-DDB-A
DS-RPM-A, -B	AE-ACK-A	SCHED-AVM-A	(T-VMT-A)	DM-DDB-B
DS-WP-A	AE-ASUM-A	SCHED-VM-A	(T-VMMV-A)	DM-DOB-B
DS-WPM-A	AE-ESUM-A	SCHED-WS-A	T-V-A	DM-DCC-A
DS-COV-A	AE-INFO-A		T-AVM-A	DM-TS-A
DS-COVP-A	AE-LS-A		T-A-A	DM-UTC-A
DS-COVU-A	AE-VN-A		T-AMVR-A	DM-RD-A
DS-V-A	AE-AVN-A			DM-BR-A
DS-AV-A	AE-VM-A			DM-R-A
DS-M-A	AE-AVM-A			DM-LM-A
DS-AM-A	AE-AS-A			DM-OCD-A
	AE-ELV-A			DM-ANM-A
	AE-ELVM-A			DM-ADM-A
				DM-MTS-A
				NM-CE-A

1) Access to the list of object property references is provided by service AddListElement.

1.1.4 Object Types

The standard object type "**Device**" is supported and present.

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

Object Type (Enum)	Supported	OC / OD	Optional Properties	Writable Properties (Additional)
Device (8)	<input checked="" type="checkbox"/>	-		

All listed standard object types are supported by addressing the object properties of other BACnet devices. Creation and deletion of objects on other devices and some BACnet services are supported by novaPro Open BACnet Configuration Console. All proprietary object types and proprietary properties are supported and may be addressed by BACnet enumeration codes (Clause 23).

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Object Type (Enum)	Supported	OC / OD	Addressable Properties
Accumulator (23)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Analog Input (0)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Analog Output (1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Analog Value (2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Averaging (18)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Binary Input (3)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Binary Output (4)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Binary Value (5)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Calendar (6)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Command (7)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Device (8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All
Event Enrollment (9)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
File (10)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Group (11)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Life Safety Point (21)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Life Safety Zone (22)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Loop (12)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Multi-State Input (13)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Multi-State Output (14)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Multi-State Value (19)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Notification Class (15)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Program (16)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Pulse Converter (24)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Schedule ²⁾ (17)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Trend Log ²⁾ (20)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Structured-View (29)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Load-Control (28)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Access-Door (30)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Event-Log (25)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All

BACnet Advanced Workstation (B-AWS)

Object Type (Enum)	Supported	OC / OD	Addressable Properties
Trend-Log-Multiple (27)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Access-Point (33)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Access-Zone (36)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Access-User (25)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Access-Rights (34)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Access-Credential (32)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All
Credential-Data-Input (37)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All

2) BACnet Protocol Revision supported: 1.1, 1.2, 1.3, 1.4,1.9

1.1.5 Segmentation Capability

- Able to transmit segmented messages Window Size ____
- Able to receive segmented messages Window Size ____

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): ____
- Point-To-Point, EIA-232 (Clause 10), baud rate(s): ____
- Point-To-Point, modem (Clause 10), baud rate(s): ____
- LonTalk, (Clause 11), medium: ____
- Other: ____

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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

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



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