

Protocol Implementation Conformance Statement (PICS)

Vendor Name:	Frimat GmbH
Vendor ID:	474
Product Name:	Frimat-BAVI
Product Model Number:	n/a
Applications Software Version:	17.8.1
Firmware Revision:	n/a
BACnet Protocol Revision:	1.15

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Product Description:

The Frimat-BAVI offers two operation modes.

- 1) BACnet Advanced Operator Workstation (B-AWS), suitable for configuring BACnet servers.
- 2) 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.

The client implementation is based on the CS-Lab Stack.

BACnet Standardized Device Profile (Annex L):

☑ BACnet Advanced Operator Workstation (B-AWS)	
☐ BACnet Operator Workstation (B-OWS)	
☐ BACnet Operator Display (B-OD)	
☐ BACnet Advanced Lighting Workstation (B-ALWS)
☐ BACnet Lighting Operator Display (B-LOD)	
☐ 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 Lighting User Interface (B-ALU)	I)
☐ BACnet General Lighting User Interface (B-GLUI)	ĺ
☐ BACnet Simple Lighting User Interface (B-SLUI)	
☐ BACnet Analog Lighting Device (B-ALD)	
☐ BACnet Binary Lighting Device (B-BLD)	
☐ BACnet Lighting Supervisory Device (B-LSD)	

List all BACnet Interoperability Building Blocks Supported (Annex K):

Data Sharing	Alarms & Events	Scheduling	Trending	Device Management
DS-COV-A	AE-ACK-A	SCHED-AVM-A	T-V-A	DM-DDB-A / B
DS-COVP-A	AE-N-A	SCHED-VM-A	T-AVM-A	DM-DOB-A / B
DS-RP-A / B	AE-ELV-A	SCHED-WS-A	T-ATR-A	DM-DCC-A
DS-RPM-A / B	AE-ELVM-A			DM-LM-A
DS-WP-A	AE-VN-A			DM-RD-A
DS-WPM-A	AE-VM-A			DM-OCD-A
DS-V-A	AE-AVN-A			DM-ANM-A
DS-AV-A	AE-AVM-A			DM-ADM-A
DS-M-A	AE-AS-A			DM-MTS-A
DS-AM-A				DM-BR-A



Segmentation Capability:

☑ Segmented requests supported

Window Size: configurable Window Size: configurable ✓ Segmented responses supported

Standard Object Types supported:

Ol: 4T	Object-Type	Dynamically
Object-Type	supported	creatable / deletable
Accumulator	<u> </u>	
Alert Enrollment	V	
Analog Input	\checkmark	
Analog Output	\checkmark	
Analog Value	\checkmark	
Averaging	\checkmark	
Binary Input	\checkmark	
Binary Output	\checkmark	
Binary Value	$\overline{\checkmark}$	
Bitstring Value	\checkmark	
Calendar	\checkmark	$\overline{\checkmark}$
Channel	\checkmark	
Character String Value	\checkmark	
Command	\checkmark	
Date Pattern Value	$\overline{\checkmark}$	
Date Value	$\overline{\checkmark}$	
DateTime Pattern Value	V	
DateTime Value	\checkmark	
Device	V	
Event-Enrollment	\checkmark	$\overline{\checkmark}$
EventLog	\checkmark	$\overline{\lor}$
File	$\overline{\checkmark}$	$\overline{\checkmark}$
Group	\checkmark	
Global Group	\checkmark	
Integer Value	\checkmark	
Large Analog Value	V	
Load Control	V	
Loop	V	
Multi-State Input	V	
Multi-State Output	V	
Multi-State Value	\checkmark	



Object-Type	Object-Type supported	Dynamically creatable / deletable
Network Security	\checkmark	
Notification Class	\checkmark	
Notification Forwarder	\checkmark	
Octet String Value	\checkmark	
Positive Integer Value	\checkmark	
Program	\checkmark	
Pulse Converter	\checkmark	
Schedule	\checkmark	$\overline{\checkmark}$
Structured View	\checkmark	
Time Pattern Value	\checkmark	
Time Value	\checkmark	
TrendLog	\checkmark	V
TrendLog Multiple	\checkmark	V
Lighting Output	V	



Data Link Layer Options:

☑ BACnet IP, (Annex J)
☑ BACnet IP, (Annex J), Foreign Device
☐ ISO 8802-3, Ethernet (Clause 7)
☐ ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
☐ ATA 878.1, EIA-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):
☐ Lon Talk, (Clause 11), medium:
☐ BACnet/Zigbee (Annex O)
☐ Other:
Device Address Binding:
Is static device binding supported? (This is currently necessary for two-way communication
with MS/TP slaves and certain other devices.) \square Yes \square No
Network Options:
Network Options.
☐ Router, Clause 6 – List all routing configurations, e.g. ARCNET-Ethernet, Ethernet-
MS/TP, etc.
☐ Annex H, BACnet Tunneling Router over IP
☑ BACnet/IP Broadcast Management Device (BBMD)
Does the BBMD support registrations by Foreign Devices? \(\subseteq \text{Yes} \text{No} \)
Does the BBMD support network address translation? ☐ Yes ☑ No
rr
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)



Character Sets Supported:

Indicating support for mu simultaneously.	altiple character sets does not impl	y that they can all be supported
☑ ISO 10646 (UTF-8)	\square IBM TM /Microsoft TM DBCS	☐ ISO 8859-1
□ ISO 10646 (UCS-2)	☐ ISO 10646 (UCS-4)	□ JIS X 0208
_	communication gateway, describe that the gateway supports:	oe the types of non-BACne



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