

BACnet Protocol Implementation Conformance Statement

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Vendor Name: Ingenieurgesellschaft N.Hartleb mbH

Product:

Name	Model Number	Application Software Version	Firmware Version	BACnet Protocol Revision
BACnet Watcher	BACnWEB-SMARTi	1.000	5.0.xx.x	135-2016, 1.19
BACnet Watcher-VIS	BACnWEB-TOUCH_AIO	1.000	5.0.xx.x	135-2016, 1.19
BACnet Watcher Stick	BACnWEB-Stick, -Stick485	1.000	5.0.xx.x	135-2016, 1.19

Product Description:

The BACnet Watcher is used for monitoring, operating and logging BACnet objects without the need for a building services management system or configuration effort; it provides access to BACnet as a client. The Watcher has a Web 2.0/Ajax server for displaying the BACnet objects; additionally the integrated Lua interpreter provides the user with direct read and write access to all devices in the BACnet network.

BACnet Standardized Device Profile:

BACnet Operator Workstation (B-OWS)

BACnet Interoperability Building Blocks Supported:

(grey marked BIBBs are generallyly supported in firmware; at Application Software on request)

Data Sharing BIBBs

Data Sharing ReadProperty-A DS-RP-A
Data Sharing ReadProperty-B DS-RP-B
Data Sharing ReadPropertyMultiple-A DS-RPM-A
Data Sharing ReadPropertyMultiple-B DS-RPM-B
Data Sharing WriteProperty-A DS-WP-A
Data Sharing WriteProperty-B DS-WP-B
Data Sharing WritePropertyMultiple-A DS-WPM-A
Data Sharing WritePropertyMultiple-B DS-WPM-B
Data Sharing COV-A DS-COV-A
Data Sharing COVP-A DS-COVP-A
Data Sharing COV-Unsolicited-A DS-COVU-A

Alarm and Event BIBBs

Alarm and Event Notification-A AE-N-A
Alarm and Event ACK-A AE-ACK-A
Alarm and Event Alarm Summary-A AE-ASUM-A

Alarm and Event Enrollment Summary-A	AE-ESUM-A
Alarm and Event Information-A	AE-INFO-A
Alarm and Event LifeSafety-A	AE-LS-A

Scheduling BIBBs

Scheduling-A	SCHED-A
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Trending BIBBs

Trending Viewing and Modifying Trends-A	T-VMT-A
Trending Automated Trend Retrieval-A	T-ATR-A
Trending Viewing and Modifying Multiple-Values-A	T-VMMV-A
Trending Automated Multiple Value Retrieval-A	T-AMVR-A

Device Management BIBBs

Device Management Dynamic Device Binding-A	DM-DDB-A
Device Management Text Message-A	DM-TM-A
Device Management TimeSynchronization-A	DM-TS-A
Device Management UTCTimeSynchronization-A	DM-UTC-A
Device Management List Manipulation-A	DM-LM-A
Device Management Object Creation and Deletion-A	DM-OCD-A

Network Management BIBBs

Network Management Connection Establishment-A	NM-CE-A
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Segmentation Capability:

Segmentation requests supported	Window Size configurable
Segmentation responses supported	Window Size configurable

Standard Object Types Supported:

Object Type	Dynamically Createable	Dynamically Deleteable
Accumulator	No	No
Analog Input	No	No
Analog Output	No	No
Analog Value	No	No
Averaging	Yes	Yes
Binary Input	No	No
Binary Output	No	No
Binary Value	No	No
Calendar	Yes	Yes
Command	Yes	Yes
Device	No	No
Event Enrollment	Yes	Yes
File	No	No
Group	Yes	Yes

Live Savety Point	No	No
Live Savety Zone	No	No
Loop	Yes	Yes
Multistate Input	No	No
Multistate Output	No	No
Multistate Value	No	No
Notification Class	Yes	Yes
Program	No	No
Pulse Converter	No	No
EventLog	Yes	Yes
Schedule	Yes	Yes
Trendlog	Yes	Yes
Trendlog Multiple	Yes	Yes
Load Control	No	No
Structured View	Yes	Yes
Access Door	No	No
Timer	No	No
Access Point	No	No
Access Rights	No	No
Access User	No	No
Access Zone	No	No
Credential Data	No	No
Network Security	No	No
Bitstring Value	No	No
Characterstring Value	No	No
Date Pattern Value	No	No
Date Time Value	No	No
Integer Value	No	No
Large Analog Value	No	No
Octetstring Value	No	No
Positive Integer Value	No	No
Time Pattern Value	No	No
Time Value	No	No
Notification Forwarder	No	No
Alert Enrollment	No	No
Channel	No	No

Lightning Object	No	No
Binary Lightning Object	No	No
Network Port	No	No
Elevator Group	No	No
Escalator	No	No
Lift	No	No

Accumulator	
Optional Properties Supported	Writeable Properties
All	

Analog Input	
Optional Properties Supported	Writeable Properties
All	

Analog Output	
Optional Properties Supported	Writeable Properties
All	

Analog Value	
Optional Properties Supported	Writeable Properties
All	

Averaging	
Optional Properties Supported	Writeable Properties
All	

Binary Input	
Optional Properties Supported	Writeable Properties
All	

Binary Output	
Optional Properties Supported	Writeable Properties
All	

Binary Value	
Optional Properties Supported	Writeable Properties
All	

Calendar	
Optional Properties Supported	Writeable Properties
All	

Command	
Optional Properties Supported	Writeable Properties
All	

Device	
Optional Properties Supported	Writeable Properties
Location Description Local_Time Local_Date UTC_Offset Daylight_Saving_Status APDU_Segement_Timeout APDU_Timeout Number_Of_APDU_Retries Time_Synchronisation_Recipients Configuration_Files Backup_Failure_Timeout Active_COV_Subscriptions	Description APDU_Segment_Timeout APDU_Timeout Number_Of_APDU_Retries

Event Enrollment	
Optional Properties Supported	Writeable Properties
All	

File	
Optional Properties Supported	Writeable Properties
All	

Group	
Optional Properties Supported	Writeable Properties
All	

Life Safety Point	
Optional Properties Supported	Writeable Properties
All	

Life Safety Zone	
Optional Properties Supported	Writeable Properties
All	

Loop	
Optional Properties Supported	Writeable Properties
All	

Multistate Input	
Optional Properties Supported	Writeable Properties
All	

Multistate Output	
Optional Properties Supported	Writeable Properties
All	

Multistate Value	
Optional Properties Supported	Writeable Properties
All	

Notification Class	
Optional Properties Supported	Writeable Properties
All	

Program	
Optional Properties Supported	Writeable Properties
All	

Pulse Converter	
Optional Properties Supported	Writeable Properties
All	

Schedule	
Optional Properties Supported	Writeable Properties
All	

Trendlog	
Optional Properties Supported	Writeable Properties
All	

Trendlog Multiple	
Optional Properties Supported	Writeable Properties
All	

Eventlog	
Optional Properties Supported	Writeable Properties
All	

Load Control	
Optional Properties Supported	Writeable Properties
All	

Structured View	
Optional Properties Supported	Writeable Properties
All	

Access Door	
Optional Properties Supported	Writeable Properties
All	

Timer	
Optional Properties Supported	Writeable Properties
All	

Access Credential	
Optional Properties Supported	Writeable Properties
All	

Access Point	
Optional Properties Supported	Writeable Properties
All	

Access Rights	
Optional Properties Supported	Writeable Properties
All	

Access User	
Optional Properties Supported	Writeable Properties
All	

Access Zone	
Optional Properties Supported	Writeable Properties
All	

Credential Data	
Optional Properties Supported	Writeable Properties
All	

Network Security	
Optional Properties Supported	Writeable Properties
All	

Bitstring Value	
Optional Properties Supported	Writeable Properties
All	

CharacterString Value	
Optional Properties Supported	Writeable Properties
All	

Date Pattern Value	
Optional Properties Supported	Writeable Properties
All	

Date Value	
Optional Properties Supported	Writeable Properties
All	

Datetime Pattern Value	
Optional Properties Supported	Writeable Properties
All	

Datetime Value	
Optional Properties Supported	Writeable Properties
All	

Integer Value	
Optional Properties Supported	Writeable Properties
All	

Large Analog Value	
Optional Properties Supported	Writeable Properties
All	

OctetString Value	
Optional Properties Supported	Writeable Properties
All	

Positive Integer Value	
Optional Properties Supported	Writeable Properties
All	

Time Pattern Value	
Optional Properties Supported	Writeable Properties
All	

Time Value	
Optional Properties Supported	Writeable Properties
All	

Notification Forwarder	
Optional Properties Supported	Writeable Properties
All	

Alert Enrollment	
Optional Properties Supported	Writeable Properties
All	

Channel	
Optional Properties Supported	Writeable Properties
All	

Lightning Object	
Optional Properties Supported	Writeable Properties
All	

Binary Lighting Object	
Optional Properties Supported	Writeable Properties
All	

Network Port	
Optional Properties Supported	Writeable Properties
All	

Elevator Group	
Optional Properties Supported	Writeable Properties
All	

Escalator	
Optional Properties Supported	Writeable Properties
All	

Lift	
Optional Properties Supported	Writeable Properties
All	

Data Link Layer Options:

BACnet IP (Annex J)

BACnet IP (Annex J) Foreign Device

Ethernet (ISO 8803-3)

MS/TP Master: ..., 9600, 19200, 38400, 57600, 76800, 115200 (BACnWEB-SMARTi, -Stick485 only)

Point-To-Point (PTP)

Device Address Binding:

Static device address binding is supported

Networking Options:

Router (BACnet-IP, BACnet-MS/TP@BACnWEB-SMARTi only)

BACnet/IP Broadcast Management Device (BBMD)

Supports registrations by Foreign Devices

Character Sets Supported:

UTF-8

IBM Microsoft DBCS

ISO 8859-1

If this product is a communication gateway, describe the types of non-BACnet equipment / networks(s) that the gateway supports:

- KNX/EIB with TP-Serial Adaptor and Ethernet IP