ANNEX A - PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (NORMATIVE)

BACnet Protocol Implementation Conformance Statement

Date: 27th April 2018
Vendor Name: Ing. Punzenberger COPA-DATA GmbH
Product Name: zenon 8.00 SP0
Product Model Number: 8.00
Application Software Version: 8.00
Firmware Revision: SP0
BACnet Protocol Revision: 1.14

Product Description:
zenon includes solutions for HMI, SCADA, Dynamic Production Reporting and integrated PLC Systems. It can act as a BACnet Operator Workstation (B-OWS). zenon is able to communicate with BACnet device via BACnet/IP.

BACnet Standardized Device Profile (Annex L):

☒ **BACnet Operator Workstation (B-OWS)**
☐ **BACnet Advanced Operator Workstation (B-AWS)**
☐ **BACnet Operator Display (B-OD)**
☐ **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)**

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

Data Sharing

[x]	Data Sharing – Read Property-A	DS-RP-A
[x]	Data Sharing – Read Property-B	DS-RP-B
[x]	Data Sharing – Read Property Multiple-A	DS-RPM-A
[x]	Data Sharing – Read Property Multiple-B	DS-RPM-B
[x]	Data Sharing – Write Property-A	DS-WP-A
[x]	Data Sharing – Write Property Multiple-A	DS-WPM-A
[x]	Data Sharing – Change of Value -A	DS-COV-A
[x]	Data Sharing – View-A	DS-V-A
[x]	Data Sharing – Advanced View-A	DS-AV-A
[x]	Data Sharing – Modify-A	DS-M-A

[x]	Data Sharing – Advanced Modify-A	DS-AM-A

Alarm and event management

[x]	Alarm and Event – Notification-A	AE-N-A
[x]	Alarm and Event – ACK-A	AE-ACK-A
[x]	Alarm and Event – View Notifications-A	AE-VN-A
[x]	Alarm and Event – Advanced View Notifications-A	AE-AVN-A
[x]	Alarm and Event – View Modify-A	AE-VM-A
[x]	Alarm and Event – Alarm Summary View-A	AE-AS-A
[x]	Alarm and Event – Alarm Summary-A	AE-ASUM-A
[x]	Alarm and Event – Enrollment Summary-A	AE-ESUM-A
[x]	Alarm and Event – Information-A	AE-INFO-A

Scheduling

[x]	Scheduling – View Modify-A	SCHED-VM-A
[x]	Scheduling – Weekly Schedule-A	SCHED-WS-A
[x]	Scheduling – Schedule-A (Deprecated BIBB)	SCHED-A

Trending

[x]	Trending – View-A	T-V-A

Device management

[x]	Device Management – Dynamic Device Binding-A	DM-DDB-A
[x]	Device Management – Dynamic Device Binding-B	DM-DDB-B
[x]	Device Management – Dynamic Object Binding-A	DM-DOB-A
[x]	Device Management – Dynamic Object Binding-B	DM-DOB-B
[x]	Device Management – Device Communication Control-A	DM-DCC-A
[x]	Device Management – Reinitialize Device-A	DM-RD-A
[x]	Device Management – Manual Time Synchronization-A	DM-MTS-A

Segmentation Capability:

☒ Able to transmit segmented messages Window Size: Configurable

☒ Able to receive segmented messages Window Size: Configurable

Standard Object Types Supported:

As BACnet Server:

Object Type	Dynamically Creatable/Deletable	Optional Properties supported	Proprietary Properties
Device	No	MAX_SEGMENTS_ACCEPTED APDU_SEGMENT_TIMEOUT Local_Time Local_Date	No

As BACnet Client:

Object type	Dynamically Creatable/ Deletable	Optional Properties supported	Writeable properties	Proprietary Properties
Analog Input	No	Yes	all	Yes*
Analog Output	No	Yes	all	Yes*
Analog Value	No	Yes	all	Yes*
Averaging	No	Yes	all	Yes*
Binary Input	No	Yes	all	Yes*
Binary Output	No	Yes	all	Yes*
Binary Value	No	Yes	all	Yes*
Calendar	No	Yes	all	Yes*
Command	No	Yes	all	Yes*
Device	No	Yes	all	Yes*
Event Enrollment	No	Yes	all	Yes*
File	No	Yes	all	Yes*
Group	No	Yes	all	Yes*
Life Safety Point	No	Yes	all	Yes*
Life Safety Zone	No	Yes	all	Yes*
Loop	No	Yes	all	Yes*
Multi-state Input	No	Yes	all	Yes*
Multi-state Output	No	Yes	all	Yes*
Multi-state Value	No	Yes	all	Yes*
Notification Class	No	Yes	all	Yes*
Program	No	Yes	all	Yes*
Schedule	No	Yes	all	Yes*
Trend Log	No	Yes	all	Yes*
Accumulator	No	Yes	all	Yes*
Pulse Converter	No	Yes	all	Yes*
EventLog	No	Yes	all	Yes*

Global Group	No	Yes	all	Yes*
TrendLog Multiple	No	Yes	all	Yes*
Load Control	No	Yes	all	Yes*
Structured View	No	Yes	all	Yes*
Network Security	No	Yes	all	Yes*
BitString Value	No	Yes	all	Yes*
CharacterString Value	No	Yes	all	Yes*
DatePattern Value	No	Yes	all	Yes*
Date Value	No	Yes	all	Yes*
DateTime Pattern Value	No	Yes	all	Yes*
DateTime Value	No	Yes	all	Yes*
Integer Value	No	Yes	all	Yes*
Large Analog Value	No	Yes	all	Yes*
OctetString Value	No	Yes	all	Yes*
Positive Integer Value	No	Yes	all	Yes*
TimePattern Value	No	Yes	all	Yes*
Time Value	No	Yes	all	Yes*
Notification Forwarder	No	Yes	all	Yes*
Alert Enrollment	No	Yes	all	Yes*
Channel	No	Yes	all	Yes*
Lighting Output	No	Yes	all	Yes*

*: According to the datatype (primitive data types)

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): _____
☐ LonTalk, (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.) ☐ Yes ☒ No

Networking 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? ☐ Yes ☐ No
Does the BBMD support network address translation? ☐ Yes ☐ No

Character Sets Supported:

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

☒ ISO 10646 (UTF-8)	☐ IBM™/Microsoft™ DBCS	☒ ISO 8859-1
☒ ISO 10646 (UCS-2)	☒ ISO 10646 (UCS-4)	☐ JIS X 0208

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

_____

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)