HTG410H
BACnet Protocol Implementation Conformance Statement

Date: **28/09/2018**
Vendor Name: **Hager Electro SAS**
Product Name: **Agardio Manager**
Product Model Number: **HTG411H, HTG410H**
Application Software Version: **1.0.0**
Firmware Revision: **1.7.1**
BACnet Protocol Revision: **14**

Product Description:

The HTG410H is a multi-energy data logger and server.
B-AAC Server.

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)**

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

Data Sharing	Alarm & Event	Device Management	Scheduling
DS-RP-B	AE-ACK-B	DM-DDB-B	SCHED-I-B
DS-RPM-B	AE-N-I-B	DM-DOB-B	
DS-WP-B	AE-INFO-B	DM-TS-B	
DS-WPM-B	AE-CRL-B	DM-UTC-B	
DS-COV-B		DM-DCC-B	
		DM-RD-B	

Segmentation Capability:

- ☒ Able to transmit segmented messages.   Window size: 8
- ☒ Able to receive segmented messages.   Window size: 8

Standard Object Types Supported:

Analog Input

Dynamically Creatable: No   Dynamically Deletable: No

Property	Optional	Writable	Range/Limit
Object Name	No	No	20 characters
Description	Yes	No	200 characters
Present Value	No	No[2]	
Out Of Service	No	No	Settable from HMI
COV increment[1]	Yes	No	0.1-9007199254740991
Reliability	Yes	No[2]	

1- Present when COV is allowed from HMI.
2- Writable when Out Of Service is True.

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Analog Output

Dynamically Creatable: No   Dynamically Deletable: No

Property	Optional	Writable	Range/Limit
Object Name	No	No	20 Characters
Description	Yes	No	200 characters
Present Value	No	Yes[3]	0-10
Out Of Service	No	No	Settable from HMI
COV increment[1]	Yes	No	0.1-9007199254740991
Min Pres Value	Yes	No	
Max Pres Value	Yes	No	
Reliability	Yes	No[2]	
Relinquish Default	No	No	Settable from HMI

1- Present when COV is allowed from HMI.
2- Writable when Out Of Service is True.
3- If write permission is provided from HMI.

Analog Value

Dynamically Creatable: No   Dynamically Deletable: No

Property	Optional	Writable	Range/Limit
Object Name	No	No	20 characters
Description	Yes	No	200 characters
Present Value	No	No[2]	
Out Of Service	No	No	Settable from HMI
COV increment[1]	Yes	No	0.1-9007199254740991
Reliability	Yes	No[2]	

1- Present when COV is allowed from HMI.
2- Writable when Out Of Service is True.

Binary Input:

Dynamically Creatable: No   Dynamically Deletable: No

Property	Optional	Writable	Range/Limit
Object Name	No	No	20 characters
Description	Yes	No	200 characters
Present Value	No	No[1]	
Out Of Service	No	No	Settable from HMI
Reliability	Yes	No[1]	
Polarity	No	No	Settable from HMI

1- Writable when Out Of Service is True.

Binary output:

Dynamically Creatable: No   Dynamically Deletable: No

Property	Optional	Writable	Range/Limit
Object Name	No	No	20 characters
Description	Yes	No	200 characters
Present Value	No	Yes[2]	
Out Of Service	No	No	Settable from HMI
Reliability	Yes	No[1]	

Polarity	No	No	Settable from HMI
Relinquish Default	No	No	Settable from HMI

1- Writable when Out Of Service is True.

2- If write permission is provided from HMI.

Calendar:

Dynamically Creatable: No   Dynamically Deletable: No

Property	Optional	Writable	Range/Limit
Object Name	No	No	20 characters
Description	Yes	No	200 characters

Schedule:

Dynamically Creatable: No   Dynamically Deletable: No

Optional Property	Optional	Writable	Range/Limit/Note
Object Name	No	No	20 characters
Description	Yes	No	200 characters
Weekly Schedule	Yes	Yes	
Exception Schedule	Yes	Yes	
Effective Period	Yes	No	
Out Of Service	No	No	Settable from HMI
Present Value	No	No[1]	
Reliability	No	No[1]	
Priority For Writing	No	Yes	

1- Writable when Out Of Service is True

Device:

Dynamically Creatable: No   Dynamically Deletable: No

Optional Property	Optional	Writable	Range/Limit
Object Name	No	No	20 characters
Description	Yes	No	200 characters
Max segment accepted	Yes	No	
Local Time	Yes	No	
Local Date	Yes	No	
UTC Off set	Yes	No	
Daylight savings status	Yes	No	
APDU segment timeout	Yes	No	
Active COV Subscription	Yes	No	
Last Restart Reason	Yes	No	
Time Of Device Restart	Yes	No	
Restart Notification Recipients	Yes	No	

Event Enrollment:

Dynamically Creatable: No   Dynamically Deletable: No

Property	Optional	Writable	Range/Limit/note
Object Name	No	No	20 characters
Description	Yes	No	200 characters
Event Message Texts	Yes	No	

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Notification Class:

Dynamically Creatable: No   Dynamically Deletable: No

Property	Optional	Writable	Range/Limit/note
Object Name	No	No	20 characters
Description	Yes	No	200 characters
Priority	No	No	Settable from HMI
Recipient List	No	Yes	

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

☐ 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.

☐ ANSI X3.4   ☐ IBM™/Microsoft™ DBCS   ☒ ISO 8859-1

☐ ISO 10646 (UCS-2)   ☐ ISO 10646 (UTF-8)   ☐ JIS C 6226

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