

BACnet Protocol Implementation Conformance Statement

Product

Date:	2/21/2021	Vendor Name:	Magnum Innovations
Product Name:	eBox 2.0	Application Software:	2.0.2.9
Product Model Number:	Mx-eBox	Firmware Revision:	2.0.2.9
Product Description:	EnOcean Gateway	BACnet Protocol Revision:	7

Vendor Information

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Product Description

The eBox allows facility managers, contractors and OEM manufacturers the ability to integrate EnOcean wireless solutions to wired building automation systems that utilizes the BACnet building automation protocol.
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BACnet Standardized Device Profile (Annex L):

<input type="checkbox"/> BACnet Operator Workstation (B-OWS)	<input type="checkbox"/> BACnet Advanced Application Controller (B-AAC)
<input type="checkbox"/> BACnet Advanced Operator Workstation (B-AWS)	<input checked="" type="checkbox"/> BACnet Application Specific Controller (B-ASC)
<input type="checkbox"/> BACnet Operator Display (B-OD)	<input type="checkbox"/> BACnet Smart Sensor (B-SS)
<input type="checkbox"/> BACnet Building Controller (B-BC)	<input type="checkbox"/> BACnet Smart Actuator (B-SA)

BACnet Interoperability Building Blocks Supported (Annex K):

DS-RP-B	Data Sharing, Read Property B
DS-RPM-B	Data Sharing, Read Property Multiple B
DS-WP-B	Data Sharing, Write Property B
DS-WPM-B	Data Sharing, Write Property Multiple B
DS-COV-B	Data Sharing, COV B
DS-COVP-B	Data Sharing, COVP N

Segmentation Capability:

<input checked="" type="checkbox"/> Able to transmit segmented messages	Window Size: 1515 bytes
<input checked="" type="checkbox"/> Able to receive segmented messages	Window Size: 1515 bytes

Standard Object Types Supported:

Object	Optional Properties Supported	Writeable Properties	Property Range Restrictions
Analog Output Update interval	Description	Present Value	None
Analog Input CPU load	Description	None	0 – 100%
Analog Input Free RAM in kb	Description	None	None
Analog Input System UpTime in hours	Description	None	None
Analog Input EnOcean Error Count	Description	None	None
Analog Input BACnet Error Count	Description	None	None
Analog Input Misc Error Count	Description	None	None
Binary Output Create Error Log	Description Inactive Text Active Text	Present Value	Create Don't create
Binary Output Discover	Description Inactive Text Active Text	None	No action Discover
Binary Output Purge message server	Description Inactive Text Active Text		No action Purge
Binary Input Update available	Description Inactive Text Active Text	None	Firmware OK New firmware available
Binary Output Update firmware	Description Inactive Text Active Text	None	No action Update
Binary Output AutoLearn	Description Inactive Text Active Text	None	Not active Active

Data Link Layer Options:

<input checked="" type="checkbox"/> BACnet IP, (Annex J)	<input type="checkbox"/> MS/TP slave (Clause 9)
<input checked="" type="checkbox"/> BACnet IP, (Annex J), Foreign Device	<input type="checkbox"/> Point-To-Point, EIA 232 (Clause 10)
<input type="checkbox"/> ISO 8802-3, Ethernet (Clause 7)	<input type="checkbox"/> Point-To-Point, modem
<input type="checkbox"/> ATA 878.1, 2.5 Mb. ARCNET (Clause 8)	<input type="checkbox"/> LonTalk, (Clause 11)
<input type="checkbox"/> ATA 878.1, EIA-485 ARCNET (Clause 8)	<input type="checkbox"/> BACnet/ZigBee (ANNEX O)
<input type="checkbox"/> MS/TP master (Clause 9)	<input checked="" type="checkbox"/> Other: EnOcean wireless

Device Address Binding:

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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Networking Options:

<input type="checkbox"/> Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.	
<input type="checkbox"/> Annex H, BACnet Tunneling Router over IP	
<input type="checkbox"/> BACnet/IP Broadcast Management Device (BBMD)	
Does the BBMD support registrations by Foreign Devices?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Does the BBMD support network address translation?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Network Security Options:

<input checked="" type="checkbox"/> Non-secure Device - is capable of operating without BACnet Network Security
<input type="checkbox"/> Secure Device - is capable of using BACnet Network Security (NS-SD BIBB)
<input type="checkbox"/> Multiple Application-Specific Keys:
<input type="checkbox"/> Supports encryption (NS-ED BIBB)
<input type="checkbox"/> Key Server (NS-KS BIBB)

Character Sets Supported:

<input checked="" type="checkbox"/> ISO 10646 (UTF-8)	<input type="checkbox"/> IBM™/Microsoft™ DBCS	<input type="checkbox"/> ISO 8859-1
<input type="checkbox"/> ISO 10646 (UCS-2)	<input type="checkbox"/> ISO 10646 (UCS-4)	<input type="checkbox"/> JIS X 0208