BACnet/IP Protocol for LabVIEW

Protocol Implementation Conformance Statement Server

Contents

1. Common Information:

Date: 18.01.2016
Vendor Name: Ovak Technologies
Product Name: BACnet IP server for LabVIEW
Product Model Number: BACnet IP for LabVIEW
Applications Software Version: 1.0.0 **Firmware Revision:** 1.0.0
BACnet Protocol Revision: 5

2. Product Description:

BACnet IP implementation in LabVIEW.

3. BACnet Standardized Device Profile (Annex L):

	BACnet Operator Workstation (B-OWS)
	BACnet Building Controller (B-BC)
	BACnet Advanced Application Controller (B-AAC)
x	BACnet Application Specific Controller (B-ASC)
	BACnet Smart Sensor (B-SS)
	BACnet Smart Actuator (B-SA)

4. List all BACnet Interoperability Building Blocks supported (Annex K):

DS-RP-B Read Property DS-WP-B Write Property DM-DDB-B Dynamic Device Binding DM-DOB-B Dynamic Object Binding DM-DCC-B Device Communication Control DS-COVU-A,B UnconfirmedCOV

5. Which of the following device binding methods does the product support? (check one or more):

	Send Who-Is, receive I-Am (BIBB DM-DDB-A)
x	Receive Who-Is, send I-Am (BIBB DM-DDB-B)
	Send Who-Has, receive I-Have (BIBB DM-DOB-A)
	Receive Who-Has, send I-Have (BIBB DM-DOB-B)
	Manual configuration of recipient device's network number and MAC address
	None of the above

6. Segmentation Capability (check all that apply):

		Window Size
	Segmented requests supported	
	Segmented responses supported	

7. Standard Object Types Supported:

7.1. Analog Input Object Type

1. Dynamically creatable using BACnet's CreateObject service? Yes
2. Dynamically deletable using BACnet's DeleteObject service? Yes
3. List of optional properties supported:

Description

4. List of all properties that are writable where not otherwise required by this standard

Object_Identifier Object_Name Present_Value

5. List of proprietary properties:

Property Identifier	Property Datatype	Meaning

6. List of any property value range restrictions:

Property Identifier	Restrictions

List of non-dynamic object identifiers and their meaning in this device

Object Identifier	Meaning

7.2. Analog Output Objecct Type

1. Dynamically creatable using BACnet's CreateObject service? Yes
2. Dynamically deletable using BACnet's DeleteObject service? Yes
3. List of optional properties supported:

Description

4. List of all properties that are writable where not otherwise required by this standard

Object_Identifier Object_Name Present_Value

5. List of proprietary properties:

Property Identifier	Property Datatype	Meaning

6. List of any property value range restrictions:

Property Identifier	Restrictions

List of non-dynamic object identifiers and their meaning in this device

Object Identifier	Meaning

7.3. Analog Value Object Type

1. Dynamically creatable using BACnet's CreateObject service? Yes
2. Dynamically deletable using BACnet's DeleteObject service? Yes
3. List of optional properties supported:

Description

4. List of all properties that are writable where not otherwise required by this standard

Object_Identifier Object_Name Present_Value

5. List of proprietary properties:

Property Identifier	Property Datatype	Meaning

6. List of any property value range restrictions:

Property Identifier	Restrictions

List of non-dynamic object identifiers and their meaning in this device

Object Identifier	Meaning

7.4. Binary Input Object Type

1. Dynamically creatable using BACnet's CreateObject service? Yes
2. Dynamically deletable using BACnet's DeleteObject service? Yes
3. List of optional properties supported:

Description

4. List of all properties that are writable where not otherwise required by this standard

Object_Identifier Object_Name Present_Value

5. List of proprietary properties:

Property Identifier	Property Datatype	Meaning

6. List of any property value range restrictions:

Property Identifier	Restrictions

List of non-dynamic object identifiers and their meaning in this device

Object Identifier	Meaning

7.5. Binary Output Object Type

1. Dynamically creatable using BACnet's CreateObject service? Yes
2. Dynamically deletable using BACnet's DeleteObject service? Yes
3. List of optional properties supported:

Description

4. List of all properties that are writable where not otherwise required by this standard

Object_Identifier Object_Name Present_Value

5. List of proprietary properties:

Property Identifier	Property Datatype	Meaning

6. List of any property value range restrictions:

Property Identifier	Restrictions

List of non-dynamic object identifiers and their meaning in this device

Object Identifier	Meaning

7.6. Binary Value Type

1. Dynamically creatable using BACnet's CreateObject service? Yes
2. Dynamically deletable using BACnet's DeleteObject service? Yes
3. List of optional properties supported:

Description

4. List of all properties that are writable where not otherwise required by this standard

Object_Identifier Object_Name Present_Value

5. List of proprietary properties:

Property Identifier	Property Datatype	Meaning

6. List of any property value range restrictions:

Property Identifier	Restrictions

List of non-dynamic object identifiers and their meaning in this device

Object Identifier	Meaning

7.7. Device Object Type

1. Dynamically creatable using BACnet's CreateObject service? Yes
2. Dynamically deletable using BACnet's DeleteObject service? Yes
3. List of optional properties supported:

Description

4. List of all properties that are writable where not otherwise required by this standard

Object_Identifier Object_Name Present_Value

5. List of proprietary properties:

Property Identifier	Property Datatype	Meaning

6. List of any property value range restrictions:

Property Identifier	Restrictions

List of non-dynamic object identifiers and their meaning in this device

Object Identifier	Meaning

8. Data Link Layer Options (check all that are supported):

x	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:	
	Other:	

9. Device Address Binding:

Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.)

10. Networking Options (check all that are supported):

	Router, Clause 6 - List all routing configurations (e.g. ARCNET-Ethernet, Ethernet-MS/TP, etc.):
	Annex H.3, BACnet Tunneling Router over UDP/IP
x	BACnet/IP Broadcast Management Device (BBMD)
x	BBMD supports registrations by Foreign Devices

11. Character Sets Supported (check all that apply):

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

	ANSI X3.4
	IBM®/Microsoft® DBCS
x	ISO 8859-1
	ISO 10646 (UCS-2)
	ISO 10646 (ICS-4)
	JIS C 6226

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

13. Include any addition information about the product's BACnet capabilities relevant to interoperability:
