BACnet/IP Protocol for LabVIEW

Protocol Implementation Conformance Statement Client

Contents

1.	Common Information:				
2.	Product Description:				
3.	BACnet Standardized Device Profile (Annex L):				
4.	Li	ist all BACnet Interoperability Building Blocks supported (Annex K):	3		
5.	W	which of the following device binding methods does the product support? (check one or more):	3		
6.	Se	egmentation Capability (check all that apply):	3		
7.	St	andard Object Types Supported:	3		
7	.1.	Analog Input Object Type	3		
7	.2.	Analog Output Objecct Type	4		
7	.3.	Analog Value Object Type	4		
7	.4.	Binary Input Object Type	5		
7	.5.	Binary Output Object Type	5		
7	.6.	Binary Value Type	6		
7	.7.	File Object Type	6		
7	.8.	Life Safety Object Type	7		
7	.9.	Load Control Object Type	7		
7	.10	. Multi-state Output Object Type	8		
7	.11	. Device Object Type	8		
8.	D	ata Link Layer Options (check all that are supported):	9		
9.	. Device Address Binding:				
10.	0. Networking Options (check all that are supported):				
11.		Character Sets Supported (check all that apply):	. 10		
12. equi	2. If this product is a communication gateway, describe the types of non-BACnet equipment/network(s) that the gateway supports:				
13. inte	3. Include any additional information about the product's BACnet capabilities relevant to nteroperability:				

1. Common Information:

Date: 18.01	.2016				
Vendor Name: Ovak Techno		nologies			
Product Name	BACnet IP	client for LabVIEW			
Product Model Number: BACnet IF		ACnet IP for LabVIEW			
Applications S	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)
Х	BACnet Application Specific Controller (B-ASC)
	BACnet Smart Sensor (B-SS)
	BACnet Smart Actuator (B-SA)

4. List <u>all</u> BACnet Interoperability Building Blocks supported (Annex K):

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

Γ

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

SU	ipport:	(check one of more).	
v	Send Who	-Is receive I-Am (BIBB DM-DDB-A)	

X	Send who-is, receive i-Am (BIBB DM-DDB-A)
	Receive Who-Is, send I-Am (BIBB DM-DDB-B)
X	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):

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				Window Size
Segmented re	quests support	ed		
Segmented re	sponses suppor	rted		

7. Standard Object Types Supported:

7.1. Analog Input Object Type

1. Dynamically creatable using BACnet's CreateObject service?

2. Dynamically deletable using BACnet's DeleteObject service?

3. List of optional propertie	es supported:	
Description		
	t are writable where not othe	rwise required by this standard
Object Identifier		
Object Name		
Present Value		
5. List of proprietary prope	erties:	
Property Identifier Property Datatype Meaning		
* *		
(List of our man anti- rol.		
6. List of any property valu Property Identifier	Restrictions	
	identifiers and their meaning	g in this device
Object Identifier	Meaning	
7.2 Analaz Outro	ut Obioact Turna	
7.2. Analog Outp		
	sing BACnet's CreateObject	
3. List of optional propertie	sing BACnet's DeleteObject	service? Yes
Description	25 supported.	
	t are writable where not othe	rwise required by this standard
Object Identifier	are writable where not other	twise required by this standard
Object Name		
Present Value		
5. List of proprietary prope	rties	
Property Identifier	Property Datatype	Meaning
		B
6. List of any property valu		
Property Identifier	Restrictions	
List of non-dynamic object	identifiers and their meaning	g in this device
Object Identifier	Meaning	5 wo
7.3. Analog Value	e Object Type	
-	sing BACnet's CreateObject	service? Yes

- 2. Dynamically deletable using BACnet's DeleteObject service?
- 3. List of optional properties supported:

4 List of all properties that			
	are writable where not othe	rwise required by this standard	
Object_Identifier			
Object Name			
Present Value			
5. List of proprietary proper	ties:		
Property Identifier	Property Datatype	Meaning	
6. List of any property value Property Identifier	Restrictions		
r roperty ruentmer	roperty identifier Restrictions		
List of non-dynamic object i	identifiers and their meaning	g in this device	
Object Identifier	Meaning		
7.4. Binary Input (Object Type		
1. Dynamically creatable us	ing BACnet's CreateObject	service? Yes	
2. Dynamically deletable us		service? Yes	
3. List of optional properties	s supported:		
Description			
	are writable where not othe	rwise required by this standard	
Object_Identifier			
Object_Name			
Object_Name Present_Value 5. List of proprietary proper			
Object_Name Present_Value	ties: Property Datatype	Meaning	
Object_Name Present_Value 5. List of proprietary proper		Meaning	
Object_Name Present_Value 5. List of proprietary proper		Meaning	
Object_Name Present_Value 5. List of proprietary proper Property Identifier	Property Datatype	Meaning	
Object_Name Present_Value 5. List of proprietary proper Property Identifier 6. List of any property value	Property Datatype	Meaning	
Object_Name Present_Value 5. List of proprietary proper Property Identifier	Property Datatype	Meaning	
Object_Name Present_Value 5. List of proprietary proper Property Identifier 6. List of any property value	Property Datatype	Meaning	
Object_Name Present_Value 5. List of proprietary proper Property Identifier 6. List of any property value	Property Datatype	Meaning	
Object_Name Present_Value 5. List of proprietary proper Property Identifier 6. List of any property value	Property Datatype e range restrictions: Restrictions		
Object_Name Present_Value 5. List of proprietary proper Property Identifier 6. List of any property value Property Identifier	Property Datatype e range restrictions: Restrictions		
Object_Name Present_Value 5. List of proprietary proper Property Identifier 6. List of any property value Property Identifier List of non-dynamic object i	Property Datatype e range restrictions: Restrictions identifiers and their meaning		
Object_Name Present_Value 5. List of proprietary proper Property Identifier 6. List of any property value Property Identifier List of non-dynamic object i	Property Datatype e range restrictions: Restrictions identifiers and their meaning		
Object_Name Present_Value 5. List of proprietary proper Property Identifier 6. List of any property value Property Identifier List of non-dynamic object i	Property Datatype e range restrictions: Restrictions identifiers and their meaning		

7.5. Binary Output Object Type
1. Dynamically creatable using BACnet's CreateObject service?
2. Dynamically deletable using BACnet's DeleteObject service?
3. List of optional properties supported:

Description		
4. List of all properties that	are writable where not other	rwise required by this standard
Object Identifier		
Object Name		
Present Value		
5. List of proprietary proper	rties:	
Property Identifier	Property Datatype	Meaning
	· · · ·	
6. List of any property value Property Identifier	Restrictions	
r roperty identifier	Restrictions	
List of non-dynamic object	identifiers and their meaning	g in this device
Object Identifier	Meaning	
7.6. Binary Value	Туре	
1. Dynamically creatable us	sing BACnet's CreateObject	service? Yes
2. Dynamically deletable us	sing BACnet's DeleteObject	service? Yes
3. List of optional propertie	s supported:	
Description		
	are writable where not other	rwise required by this standard
Object_Identifier		
Object Name		
Present Value		
5. List of proprietary proper	rties:	
Property Identifier	Property Datatype	Meaning
6. List of any property value		
Property Identifier	Restrictions	
List of non-dynamic object	identifiers and their meaning	g in this device
Object Identifier	Meaning	
	B	
7.7. File Object Ty	vne	

7.7. File Object Type1. Dynamically creatable using BACnet's CreateObject service?2. Dynamically deletable using BACnet's DeleteObject service?3. List of optional properties supported:

Description		
4. List of all properties that	at are writable where not other	rwise required by this standard
Object_Identifier		
Object Name		
Present Value		
5. List of proprietary prop	erties:	
Property Identifier	Property Datatype	Meaning
6. List of any property val	ue renge restrictions:	
Property Identifier	Restrictions	
	t identifiers and their meaning	g in this device
Object Identifier	Meaning	
7 9 I :f- S-f-t (
7.8. Life Safety (
	using BACnet's CreateObject	
3. List of optional propert	using BACnet's DeleteObject	service? Yes
Description	ies supported.	
	at are writable where not othe	rwise required by this standard
Object Identifier	at the willtuble where not other	wise required by this standard
Object Name		
Present Value		
5. List of proprietary prop	erties.	
Property Identifier	Property Datatype	Meaning
6. List of any property val	ue range restrictions:	
Property Identifier	Restrictions	
List of non dynamic object	t identifiers and their meaning	a in this device
Object Identifier	Meaning	
Solution interesting	4,10,0000 B	
79 Load Contro	l Object Type	

7.9. Load Control Object Type1. Dynamically creatable using BACnet's CreateObject service?2. Dynamically deletable using BACnet's DeleteObject service?3. List of optional properties supported:

Yes

Yes

Description		
4. List of all properties that are	e writable where not otherw	ise required by this standard
Object_Identifier		
Object_Name		
Present_Value		
5. List of proprietary propertie		
Property Identifier	Property Datatype	Meaning
6. List of any property value r	ange restrictions.	
Property Identifier	Restrictions	
↓		
List of non-dynamic object ide		n this device
Object Identifier	Meaning	
 Dynamically creatable using Dynamically deletable using List of optional properties s Description List of all properties that are Object_Identifier Object_Name Present_Value List of proprietary properties 	g BACnet's DeleteObject se upported: e writable where not otherw	rvice? Yes
V		
6. List of any property value r	ango rostrictions:	
Property Identifier	Restrictions	
	Kesti ietions	
List of non-dynamic object ide	entifiers and their meaning i	n this device
Object Identifier	Meaning	
7.11. Device C	Object Type	

Dynamically creatable using BACnet's CreateObject service?
 Dynamically deletable using BACnet's DeleteObject service?
 List of optional properties supported:

Description		
4. List of all properties th	at are writable where not othe	erwise required by this standard
Object_Identifier		
Object_Name		
Present_Value		
5. List of proprietary prop	perties:	
Property Identifier	Property Datatype	Meaning
	1	
6. List of any property va		
Property Identifier	Restrictions	
	ct identifiers and their meanin	g 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
х	BACnet/IP Broadcast Management Device (BBMD)
х	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.

x	ANSI X3.4
	IBM ¹ /Microsoft ¹ DBCS
	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 additional information about the product's BACnet capabilities relevant to interoperability: