ANNEX A - PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (NORMATIVE)

BACnet Protocol Implementation Conformance Statement

Date: 9/16/2021
Vendor Name: Leviton Manufacturing, Inc.
Product Name: Gateway
Product Model Number: NP00G
Application Software Version: N/A
Firmware Revision: >= 3.00
BACnet Protocol Revision: 12

Product Description:

Product interfaces between BACnet/IP and LumaCAN 3. LumaCAN 3 is a Leviton proprietary lighting control protocol.

BACnet Standardized Device Profile (Annex L):

✔ BACnet Advanced Application Controller (B-AAC)

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

- DS-RP-A - ReadProperty-A
- DS-RPM-A - ReadPropertyMultiple-A
- DS-WP-A - WriteProperty-A
- DS-COV-B - Change Of Value-B
- DM-DDB-B - Dynamic Device Binding-B
- DM-DOB-B - Dynamic Object Binding-B
- DM-TS-B - TimeSynchronization-B

Segmentation Capability: -none-

☐ Able to transmit segmented messages Window Size _____
☐ Able to receive segmented messages Window Size _____

Standard Object Types Supported:

Object Type	What is it?	Creatable/ Deleteable	Property	Readable	Writeable	Values	Notes
Device	Relay Panel (MPU)	No	Name	Yes	No	NPC Gateway [x:y].DEV	Each Gateway connected to the IP network is represented as a device , where [x.y] represents the subnet (x)and node ID(y)

			Description	Yes	No	NPCGW	"NPCGW' is replaced with the name of the gateway as defined by the field tech during commissioning
			Location	Yes	No	NPCGW location	"NPCGW location" is replaced with the location of the gateway as defined by the field tech during commissioning
			Time synchronization	Yes	No	-	
			Local Time	Yes	Yes	-	
			Daylight savings status	Yes	Yes	-	
			Date	Yes	Yes	-	
Analog Output	Channel	No	Name	Yes	No	Channel[[x:y:z].AO	One for each patched channel where [x.y.z] represents the subnet[x] node id (y) and the channel number (z) on the LumaCAN network
			Present Value	Yes	Yes	0-100 for each priority	Priority 3-16 of present value property is writable, value in percentage 0-100. Changes to priority 1,2 are rejected and used internally for emergency and panel override. Default priority for control is 8
			Description	Yes	No	channel level or control	
Binary Input	Digital Occupancy Sensor or Analog Input configured as Occupancy Sensor	No	Name	Yes	No	Occ Sensor[[x:y:z].BI/ Contac Closure [[x:y:z].BI	One for each occupancy/contact closure where [x.y.z] represents the subnet [x) node id (y) and the input number (z).
			Present Value	Yes	Yes	0,1	Represents state of Occupancy Sensor, 1=occupied/active, 0=unoccupied/inactive
			Description	Yes	No	occupancy or contact closure state	
Multi State Value	Switch	No	Name	Yes	No	Switch[[x:y:z].MSV	One for each switch MSV where [x.y.z] represents the subnet [x) node id (y) and the input number (z).
			Present Value	Yes	Yes	Read: 0,2,3,4,9,10,255 Write: 5,6,7,8	Represents state of the loads controlled by the switch and can be used to command the switch. States: 255 = Active, loads at programmed active state, usually on 0 = Inactive, loads at inactive state, usually off 2=Inconsistent – some loads on, some loads off 3=Inconsistent On – most loads on, some loads off 4=Inconsistent Off – most loads off, some loads on 9=higher priority in control 10=error Commands: 5 = Press, on momentary switches each press will toggle between the active/inactive states. On a maintained switch a press only triggers the active state. Most switches are momentary.

							6 = Release, on momentary switches has no function. On a maintained switch, triggers the inactive state 7 = double press, usually has no function 8 = long press, usually has no function however on some products will trigger a raise or lower event
			Description	Yes	No	state of controlled loads and commands	
Analog Input	Digital Photocell or Analog Input Configured as Photocell	No	Name	Yes	No	Photocell[x:y:z].AI/ Potentiometer [x:y:z].AI	One for each photocell / Potentiometer sensor where [x.y.z] represents the subnet [x) node id (y) and the input number (z).
			Present Value	Yes	Yes	0-100	Represents relative light level of photocell, 0-100, where 0=dark and 100= max light level reported by photocell in percentage.
			Description	Yes	No	photocell or potentiometer level	

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

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)

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 (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:

_____
_____
_____

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