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BACnet Protocol Implementation Conformance Statement (PICS)

Date: June 16, 2023 Vendor Name: Lutron Electronics Co., Inc. Product Name: myRoom XC Processor BACnet Integration **BACnet Protocol Revision: 13** Vendor ID: 176

Product Description

BACnet IP is embedded in the myRoom XC processor. There are two types of BACnet devices available in myRoom XC systems: System devices and Area devices.

- The System device provides system level functionality, affecting all areas/rooms in the system, such as master load shed.
- The area devices are virtual BACnet devices, typically one per room or hospitality "key" in a building, that provide area level functionality such as area lighting scenes, occupancy state, thermostats, etc.

Each processor must have a unique BACnet network number. Each network can contain a variable number of areas depending upon the system layout.

BACnet Interoperability Building Blocks Supported (Annex K):

K.1.2 BIBB	Data Sharing	ReadProperty-B (DS-RP-B)
K.1.4 BIBB	Data Sharing	ReadPropertyMultiple-B (DS-RPM-B)
K.1.8 BIBB	Data Sharing	WriteProperty-B (DS-WP-B)
K.1.10 BIBB	Data Sharing	WritePropertyMultiple-B (DS-WPM-B)
K.1.12 BIBB	Data Sharing	COV-B (DS-COV-B)
K.5.2 BIBB	Device Management	DynamicDeviceBinding-B (DM-DDB-B)
K.5.4 BIBB	Device Management	DynamicObjectBinding-B (DM-DOB-B)
K.5.6 BIBB	Device Management	DeviceCommunicationControl-B (DM-DCC-B)

BACnet Standardized Device Profile (Annex L):

BACnet Application Specific Controller (B-ASC)

Segmentation Capability:

Segmented requests supported? No.	Window Size: n/a
Segmented responses supported? No.	Window Size: n/a

Non-Standard Application Services:

Non-standard application services are not supported.

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Standard Object Types Supported:

Device

- 1. Dynamically creatable using BACnet CreateObject service? No.
- 2. Dynamically deletable using BACnet DeleteObject service? No.
- 3. List of optional properties supported: Active COV Subscriptions, Description, Location, Profile Name.
- 4. List of all properties that are writable where not otherwise required by this standard: None.
- 5. List of proprietary properties: None.
- 6. List of any property value range restrictions: None.

Binary Value

- 1. Dynamically creatable using BACnet CreateObject service? No.
- 2. Dynamically deletable using BACnet DeleteObject service? No.
- 3. List of optional properties supported: Active Text, Inactive Text.
- 4. List of all properties that are writable where not otherwise required by this standard: None.
- 5. List of proprietary properties: None.
- 6. List of any property value range restrictions: See Table.

Multi-State Value

- 1. Dynamically creatable using BACnet CreateObject service? No.
- 2. Dynamically deletable using BACnet DeleteObject service? No.
- 3. List of optional properties supported: State_Text.
- 4. List of all properties that are writable where not otherwise required by this standard: None.
- 5. List of proprietary properties: None.
- 6. List of any property value range restrictions: See Table.

Data Link Layer Options:

BACnet IP

Other: These devices are virtual devices and are represented by a six octet address equal to the 48-bit device instance of the virtual device.

Device Address Binding:

Is static device binding supported? No.

Networking Options:

BACnet/IP Annex J - non-BBMD functionality; the myRoom XC processor is able to register as a foreign device. The myRoom XC processor is able to initiate original-broadcast-NPDU.

Character Sets Supported:

Indicating support for multiple character sets does not imply that they can all be supported simultaneously. • UTF-8

BACnet Routing:

Routes between the connected physical BACnet network and a virtual BACnet network.

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Object Name	Туре	Instance	Read	Write	COV	Units	Min PV	Max PV	Inactive Text (0)	Active Text (1)	State Text (Multi-State)
{System Name}	DEVICE	22 bit GUID	Х	—	—	—	—	—	—	—	—
{Instance}	Notes: The System Name is the logical name of the myRoom XC system that is used by BACnet clients to interact with system wide functionality. The Instance is the same as the unique Device ID assigned to this myRoom XC System.									to interact with system wide stem.	
Master Load Shed	BV	2	Х	Х	Х	—	0	1	Disabled	Enabled	—
Enabled	Notes: This value determines whether all areas in the myRoom XC system are being controlled via load shedding. When this value is set to Enabled, for all areas in the system that have load shed allowed, any dimmable lights in each area that are turned on will have their light level reduced by the percentage specified in the Load Shed Goal value in Lutron Designer. The specified switched loads will turn off. When Disabled, the lights will return to their previous level and the specified switched loads will remain at their load shed level e.g., Off.										

BV = Binary-Value

MSV = Multi-State-Value

{SystemName}, {AreaName} and {SceneName} are text strings defined in Lutron Designer

{Instance} is a number defined in Lutron Designer

PV = Present-Value

¹ This object only appears on the processor that is designated as the main processor. Reference your BACnet Report to determine which is the main processor.

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Object Name	Туре	Instance	Read	Write	COV	Units	Min PV	Max PV	Inactive Text (0)	Active Text (1)	State Text (Multi-State)
{AreaName}	DEVICE	22 bit GUID	Х	—	—	—	—	—	—	—	—
{Instance}	Notes: The Area Name is the logical name that typically corresponds to a physical location in a building. The Instance is the same unique Device ID assigned to each area.										
Lighting State	BV	3	Х	Х	Х	—	0	1	Off	On	—
	Notes: If any lighting zone in the area is On, this will return On. Receptacles are not included.										
Lighting Scene	MSV	4	X	X	X	_	1	Number of scenes defined for this area in Lutron Designer +2	_		{Scene Name}
	Notes: A " ligh Sce a te	write" sends the ating preset select enes are not used ext string of the n	lighting ted in th d as par ame of	fixtures ne room, t of in-ro each sco	in the via thi om co ene tha	room to a lig s point. If the ntrol or auto tt is defined	hting prea e area is r mation in in Lutron	set. 1 is the Off s lot in a pre-defin myRoom XC, the Designer.	scene, whick ed lighting ey are used	h will turn t preset, Unl primarily f	the lights off. A "read" returns the known will be returned. Lighting or lighting integration. {SceneName} is
Total Lighting Power	AV	18	Х	—	Х	Watts	0	None	—	—	—
Maximum Lighting Power	AV	19	X	—	Х	Watts	0	None	—	—	—
Guest Presence Detection State	MSV	20	X	-	-	-	1	256	-	—	1 = Unoccupied2 = Occupied256 = Unknown2
{HVACZoneName} Temperature Celsius	AV	7100	X	X	Х	Degrees Celsius	0	100	—	—	—
	Notes: If r cli the the	no FCU controlle ent. The HVAC s ermostat. Other ermostat's temp	er nor Vl system (wise, th erature	RV/VRF (provide is point sensor	interf d by o is rea	ace is conn thers) must d-only for a	ected dire write the BACnet	ectly to the Pall temperature to client. The Lutro	adiom ther o this point on system	mostat, th , where it will write	is point is write-only for a BACnet will be displayed on the Palladiom to this point using the Palladiom
{HVACZoneName} Temperature	AV	7103	X	X	X	Degrees Farenheit	32	212	—	—	
Farenheit	Notes: If r cli the the	no FCU controlle ent. The HVAC s ermostat. Other ermostat's temp	er nor Vl system (wise, th erature	RV/VRF (provide iis point sensor	interf d by o is rea	ace is conn thers) must d-only for a	ected dire write the BACnet	ectly to the Pall temperature to client. The Lutr	adiom ther o this point on system	mostat, th , where it will write t	is point is write-only for a BACnet will be displayed on the Palladiom to this point using the Palladiom
{HVACZoneName} Operating Mode	MSV	7106	X	X	X	—	1	256	—		1 = Off 4 = Auto $256 = Unknown^2$
	Notes: A v	write will set the	operat	ing mod	de of th	ne thermost	at. A rea	d will return the	current op	erating m	ode of the thermostat.

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² "Unknown" is a transitional state after a power cycle.

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Object Name	Туре	Instance	Read	Write	COV	Units	Min PV	Max PV	Inactive Text (0)	Active Text (1)	State Text (Multi-State)
{HVACZoneName} Operating State	MSV	7107	X	X	X	—	1	256	_	_	Operating State: 1 = None, Heat Last 2 = Heating 6 = None, Cool Last 7 = Cooling 9 = Off 256 = Unknown ²
	Notes: Th	e stage informa nnected to the t	tion cur hermos	rently ro tat's mo	eporte odbus	d for the HVA link. This val	C zone a ue will be	nd its unit. This read/write if t	he HVAC e	be read-o quipment	nly if the HVAC equipment is is connected over BACnet.
{HVACZoneName} Fan Mode	MSV	7108	X	Х	Х		1	256	—	—	1 = Auto 4 = No Fan 5 = High 6 = Medium 7 = Low 256 = Unknown2
	Notes: Th	e fan operating ermostat's mod	mode c bus link	omman . This va	ded fo alue w	r HVAC zone. II be read/w	. This valu rite if the	ue will be read- HVAC equipme	only if the ent is conne	HVAC equ ected over	ipment is connected to the BACnet.
{HVACZoneName} Fan State	MSV	7109	X	x	Х		1	256		_	$1 = Unknown$ $2 = Off$ $3 = High / On$ $4 = Medium$ $5 = Low$ $256 = Unknown^{2}$
	Notes: If r clie the	no FCU controlle ent. The HVAC s ermostat. Other	er nor VI system (wise, th	RV/VRF provide is point	interfa d by of is read	ace is connec thers) must v 1-only for a E	cted direc vrite the s BACnet cl	tly to the Palla state to this poi ient. The Lutroi	diom therm nt, where i n system w	iostat, this t will be d rill write to	point is write-only for a BACnet splayed on the Palladiom this point.
{HVACZoneName}	AV	7113	Х	—	Х	Watts	0	None	—	—	—
HVAC Power	Notes: A r	read-only, calcu	lated va	lue whi	ch indi	cates the ins	tantaneo	us power cons	umption of	this HVAC	zone in watts.
{HVACZoneName} Single Setpoint Celsius	AV	7114	X	X	Х	Degrees Celsius	0	100	—		—
{HVACZoneName} Single Setpoint Fahrenheit	AV	7115	Х	Х	Х	Degrees Fahrenheit	32	212	—	—	—
{HVACZoneName} Negative (Heating) Drift Celsius	AV	7116	X	X	Х	Degrees Celsius	0	8	—	_	—
{HVACZoneName} Positive (Cooling) Drift Celsius	AV	7117	X	X	Х	Degrees Celsius	0	8	—	—	—
{HVACZoneName} Negative (Heating) Drift Fahrenheit	AV	7118	Х	Х	Х	Degrees Fahrenheit	0	15			—

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Object Name	Туре	Instance	Read	Write	COV	Units	Min PV	Max PV	Inactive Text (0)	Active Text (1)	State Text (Multi-State)
{HVACZoneName} Positive (Cooling) Drift Fahrenheit	AV	7119	X	Х	Х	Degrees Fahrenheit	0	15	—	—	—
{HVACZoneName}	AV	7120	Х		Х	Percent	0	100	—	—	—
Relative numbury	Notes: Th	e relative humid	lity curr	ently m	easure	d in the HVA	C zone o	f this area.			

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