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BACnet Protocol Implementation Conformance Statement (PICS)

Date: April 14, 2021 Vendor Name: Lutron Electronics Co., Inc. Product Name: Athena Processor BACnet Integration

NOTE: All features listed in this document are available to be configured on-site by Lutron field service for new or existing systems by October 15, 2021.

BACnet Protocol Revision: 13 Vendor ID: 176

Product Description

BACnet IP is embedded in the Athena processor. There are two types of BACnet devices available in Athena 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 of the building, that provide area level functionality such as area lighting scenes, occupancy state, 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:

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 Athena processor is able to register as a foreign device. The Athena 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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Athena

BACnet PIC Statement for Athena

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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} {Instance}	DEVICE	22 bit GUID	Х	-	-	—		—	—	—	_
	Notes: Th Th	e System Name e Instance is the	is the l same	ogical n as the u	ame o unique	f the Athe Device ID	na syster assigned	n that is used b I to this Athena	by BACnet of System.	clients to i	nteract with system wide functionality.
Master Loadshed Enabled	BV	2	X	X	X		0	1	Disabled	Enabled	—
	Notes: Th Enabled, 1 level redu Disabled,	is value determi for all areas in th ced by the perc the lights will re	nes wh ne syste entage eturn to	ether al em that specifie their pr	l areas have lo d in th evious	in the Atl bad shed e Load Sh level and	nena syst allowed, a led Goal v the spec	em are being c any dimmable li value in Lutron ified switched l	ontrolled v ights in ead Designer. 1 oads will re	ia load she ch area tha The specif eturn to th	edding. When this value is set to at are turned on will have their light ied switched loads will turn off. When eir previous state.
{AreaName} {Instance}	DEVICE	22 bit GUID	X								
	Notes: Th un	e Area Name is ique Device ID a	the logi issigned	ical nan d to eac	he that h area	typically	correspoi	nds to a physica	al location	in a buildir	ng. The Instance is the same as the
Lighting Scene	MSV	4	X	X	X		1	Number of scenes defined for this area in Lutron Designer +2	_		{Scene Name}
	Notes: The turn Lig	e lighting preset t n all lights to OFF hting Scenes, co	o which . An are rrespon	the ligh a that is ding to 'l	ting fix not in a Unknov	tures in tha any of the vn'. {Scene	at area are predefined Name} is	e currently set. If d scenes will retu a text string of t	the value is urn the high he name of	s set to 1, t lest value c each scen	he Off Scene will be selected, which will defined in the Present Value column for e that is defined in Lutron Designer.
Occupancy State	MSV	8	X		X		1	4		_	1 = Un-occupied 2 = Occupied 3 = Inactive (unused) 4 = Unknown
Notes: A read-only property that indicates the occupancy of the entire area. Occupied means that at least one sensor i occupancy. Unoccupied means that all the sensors in the area are indicating unoccupied. Unknown indicates the the area have reported their status.					t one sensor in the area is indicating n indicates that not all the sensors in						

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

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