

BACnet® Protocol Implementation Conformance Statement (PICS)

Date: March 24, 2020

Vendor Name: Lutron Electronics Co., Inc.

Product Name: Limelight BACnet® Integration

BACnet® Applications Software Version: 5.00

Limelight Firmware Revision: 5.00

BACnet® Protocol Revision: 13

Vendor ID: 176

Product Description

BACnet® IP is embedded in the Limelight gateway.

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.

Job Name:	Model Numbers:
Job Number:	

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**, **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**.

Analog Value

1. Dynamically creatable using the BACnet® CreateObject service? **No**.
2. Dynamically deletable using BACnet® DeleteObject service? **No**.
3. List of optional properties supported: **COV_Increment** (See Table for objects that support this property).
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**.

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**.

Device Address Binding:

Is static device binding supported? **No**.

Networking Options:

BACnet®/IP Annex J – non-BBMD functionality; the Limelight gateway is able to register as a foreign device. The Limelight gateway 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

COV Subscription:

A BACnet® Client is recommended to periodically re-subscribe COV points (hourly).

Job Name: Job Number:	Model Numbers:
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Object Name	Type	Instance	Read	Write	COV	Units	Min PV	Max PV	Inactive Text (0)	Active Text (1)	State Text (Multi-State)	Notes
{Facility Name} {Instance}	DEVICE	22 bit GUID	X	—	—	—	—	—	—	—	—	The Facility Name is the logical name of one of the Limelight gateways that typically corresponds to a physical portion of a parking garage such as a floor or a region of the parking lot. The instance is the same as the unique Device ID assigned to each Limelight gateway.
Total Instantaneous Power	AV	2	X	—	X	Watts	0	800,000	—	—	—	The total power being used by all fixtures on this gateway at this instant. For accurate values, Insta-Test must be run on any new fixture or replaced fixture.
Maximum Instantaneous Power	AV	3	X	—	X	Watts	0	800,000	—	—	—	The maximum power that will be used if all fixtures on this gateway are set to the highest light level. For accurate values, Insta-Test must be run on any new fixture or replaced fixture.
Wireless Node Error Count	AV	4	X	—	X	—	0	800	—	—	—	Indicates the number of wireless nodes that are in an error state or not responding to the Limelight system. When the number is 0, all programmed nodes are operational with no errors. The following conditions are detected and reported- a) Lighting node not responding to wireless commands, b) Dimming error, c) Total LED failure, d) Sensor failures. An error is logged when the gateway tries to change the light level and the device either does not respond or responds with an error. Nodes that are not controlled by lighting events (e.g., nodes without lighting loads, or nodes not affected by any schedule, etc.) will not report errors.
{Event Name} Override	BV	1000-2000	X	X	X	—	0	1	Inactive	Active	—	The Limelight software allows you to define manual events that override daylighting, occupancy and scheduled events. The duration of this event is defined in the software (ranging from 15 to 32,767 minutes) after which the system will automatically revert to normal system operation. Active: Lights are at the override level. Inactive: Lights are at the level specified by the current schedule.

AV = Analog-Value, BV = Binary-Value, MSV = Multi-State-Value, PV = Present-Value

{Facility Name}/{Event Name} is a text string defined in the Lutron Limelight system configuration software
 {Instance} is a number defined in the Lutron Limelight system configuration

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LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	