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# BACnet Protocol Implementation Conformance Statement (PICS)

Date: September 15, 2025

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.

### 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 | Type | 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 | X | — | — | — | — | — | — | — | — |
| | 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. | | | | | | | | | | |
| Master Load Shed Enabled[1] | BV | 2 | X | X | X | — | 0 | 1 | Disabled | 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.



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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| {AreaName} {Instance} | DEVICE | 22 bit GUID | X | — | — | — | — | — | — | — | — |
| | Notes: The Area Name is the logical name that typically corresponds to a physical location in a building. The Instance is the same as the unique Device ID assigned to each area. | | | | | | | | | | |
| Lighting State | BV | 3 | X | X | X | — | 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 "write" sends the lighting fixtures in the room to a lighting preset. 1 is the Off scene, which will turn the lights off. A "read" returns the lighting preset selected in the room, via this point. If the area is not in a pre-defined lighting preset, Unknown will be returned. Lighting Scenes are not used as part of in-room control or automation in myRoom XC, they are used primarily for lighting integration. {SceneName} is a text string of the name of each scene that is defined in Lutron Designer. | | | | | | | | | | |
| Occupancy State | MSV | 8 | X | — | X | — | 1 | 4 | — | — | 1 = Unoccupied<br>2 = Occupied<br>3 = Inactive (unused)<br>4 = Unknown[2] |
| | Notes: A read-only property that indicates the occupancy of the entire area. Occupied means that at least one sensor in the area is indicating occupancy. Unoccupied means that all of the sensors in the area are indicating unoccupied. Unknown indicates that not all of the sensors in the area have reported their status. This holds the sensor status for the given Guest Room Area and does not accurately reflect the Guest Presence Status of the room. | | | | | | | | | | |
| Total Lighting Power | AV | 18 | X | — | X | Watts | 0 | None | — | — | — |
| Maximum Lighting Power | AV | 19 | X | — | X | Watts | 0 | None | — | — | — |
| Guest Presence Detection State | MSV | 20 | X | — | — | — | 1 | 256 | — | — | 1 = Unoccupied<br>2 = Occupied<br>256 = Unknown[2] |
| {HVACZoneName} Temperature Celsius | AV | 7100 | X | X | X | Degrees Celsius | 0 | 100 | — | — | — |
| | Notes: If no FCU controller nor VRV/VRF interface is connected directly to the Palladiom thermostat, this point is write-only for a BACnet client. The HVAC system (provided by others) must write the temperature to this point, where it will be displayed on the Palladiom thermostat. Otherwise, this point is read-only for a BACnet client. The Lutron system will write to this point using the Palladiom thermostat's temperature display value (rolling average). | | | | | | | | | | |
| {HVACZoneName} Temperature Fahrenheit | AV | 7103 | X | X | X | Degrees Fahrenheit | 32 | 212 | — | — | |
| | Notes: If no FCU controller nor VRV/VRF interface is connected directly to the Palladiom thermostat, this point is write-only for a BACnet client. The HVAC system (provided by others) must write the temperature to this point, where it will be displayed on the Palladiom thermostat. Otherwise, this point is read-only for a BACnet client. The Lutron system will write to this point using the Palladiom thermostat's temperature display value (rolling average). | | | | | | | | | | |
| {HVACZoneName} Operating Mode | MSV | 7106 | X | X | X | — | 1 | 256 | — | — | 1 = Off<br>4 = Auto<br>256 = Unknown[2] |
| | Notes: A write will set the operating mode of the thermostat. A read will return the current operating mode of the thermostat. | | | | | | | | | | |

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



| Job Name: | Model Numbers: | |
|---|---|---|
| | | |
| Job Number: | | |

| Object Name | Type | 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:<br>1 = None, Heat Last<br>2 = Heating<br>6 = None, Cool Last<br>7 = Cooling<br>9 = Off<br>256 = Unknown[2] |
| | Notes: The stage information currently reported for the HVAC zone and its unit. This value will be read-only if the HVAC equipment is connected to the thermostat's modbus link. This value will be read/write if the HVAC equipment is connected over BACnet. | | | | | | | | | | |
| {HVACZoneName} Fan Mode | MSV | 7108 | X | X | X | — | 1 | 256 | — | — | 1 = Auto<br>4 = No Fan<br>5 = High<br>6 = Medium<br>7 = Low<br>256 = Unknown[2] |
| | Notes: The fan operating mode commanded for HVAC zone. This value will be read-only if the HVAC equipment is connected to the thermostat's modbus link. This value will be read/write if the HVAC equipment is connected over BACnet. | | | | | | | | | | |
| {HVACZoneName} Fan State | MSV | 7109 | X | X | X | — | 1 | 256 | — | — | 1 = Unknown<br>2 = Off<br>3 = High/On<br>4 = Medium<br>5 = Low<br>256 = Unknown[2] |
| | Notes: If no FCU controller nor VRV/VRF interface is connected directly to the Palladiom thermostat, this point is write-only for a BACnet client. The HVAC system (provided by others) must write the state to this point, where it will be displayed on the Palladiom thermostat. Otherwise, this point is read-only for a BACnet client. The Lutron system will write to this point. | | | | | | | | | | |
| {HVACZoneName} Single Setpoint Celsius | AV | 7114 | X | X | X | Degrees Celsius | 0 | 100 | — | — | — |
| {HVACZoneName} Single Setpoint Fahrenheit | AV | 7115 | X | X | X | Degrees Fahrenheit | 32 | 212 | — | — | — |
| {HVACZoneName} Negative (Heating) Drift Celsius | AV | 7116 | X | X | X | Degrees Celsius | 0 | 8 | — | — | — |
| {HVACZoneName} Positive (Cooling) Drift Celsius | AV | 7117 | X | X | X | Degrees Celsius | 0 | 8 | — | — | — |
| {HVACZoneName} Negative (Heating) Drift Fahrenheit | AV | 7118 | X | X | X | Degrees Fahrenheit | 0 | 15 | — | — | — |

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



| Job Name: | Model Numbers: | |
|---|---|---|
| | | |
| Job Number: | | |

| Object Name | Type | 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 | X | X | Degrees Fahrenheit | 0 | 15 | — | — | — |
| {HVACZoneName} Relative Humidity | AV | 7120 | X | X | X | Percent | 0 | 100 | — | — | — |
| | Notes: The relative humidity currently measured in the HVAC zone of this area. If no FCU controller nor VRV/VRF interface is connected directly to the Palladiom thermostat, this point is write-only for a BACnet client. The HVAC system (provided by others) must write the humidity value to this point. Otherwise, this point is read-only for a BACnet client. The Lutron system will write to this point using the Palladiom thermostat's humidity sensor. | | | | | | | | | | |
| Measured Temperature Reading (Celsius) | AV | 8000 | X | — | X | Degrees Celsius | 0 | 100 | — | — | — |
| | Notes: The reported temperature has a precision of 0.5 °C. The Lutron system will write to this point using the Palladiom thermostat's temperature sensor value (updated approximately every 15 seconds). | | | | | | | | | | |
| Measured Temperature Reading (Fahrenheit) | AV | 8001 | X | — | X | Degrees Fahrenheit | 32 | 212 | — | — | — |
| | Notes: The reported temperature has a precision of 1 °F. The Lutron system will write to this point using the Palladiom thermostat's temperature sensor value (updated approximately every 15 seconds). | | | | | | | | | | |

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Job Name:

Job Number:

Model Numbers: