

BACnet® Protocol Implementation Conformance Statement (PICS)

Date: July 13, 2011

Vendor Name: Lutron Electronics Co., Inc.

Product Name: Quantum® BACnet® Integration

Applications Software Version: 2.0

Firmware Revision: 2.0

BACnet® Protocol Revision: 4

Vendor ID: 176

Product Description

BACnet® IP is embedded in the Quantum® processor. There are two types of BACnet® devices available in Quantum®: subsystem devices and area devices. The subsystem devices are main BACnet® devices; typically, one main device per floor of the building. The area devices are virtual BACnet® devices of the subsystem device. It is possible to have multiple subsystem devices in a project.

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.

BACnet is a registered trademark of American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE).

Job Name:	Model Numbers:
Job Number:	

Standard Object Types Supported:*Device*

1. Dynamically creatable using BACnet®'s CreateObject service? **No.**
2. Dynamically deletable using BACnet®'s 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®'s CreateObject service? **No.**
2. Dynamically deletable using BACnet®'s DeleteObject service? **No.**
3. List of optional properties supported: **Reliability, 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.**

Data Link Layer Options:

BACnet® IP

Device Address Binding:Is static device binding supported? **No.****Networking Options:**

BACnet®/IP Broadcast Management Device (BBMD)

Character Sets Supported:

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.
ANSI X3.4

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)	Notes
{SystemName} {Instance}	DEVICE	{BASE}+{{SYSTEM}}+1	X									Main device name is the system name, a space, and the instance number.
Master Loadshed Enabled	BV	2	X	X	X		0	1	Disabled	Enabled		Global control over areas
Master Hyperion Enabled	BV	3	X	X			0	1	Disabled	Enabled		
{TimeclockName} Enabled	BV	1000 to 1999	X	X			0	1	Disabled	Enabled		{TimeclockName} is prefixed with Timeclock if name does not contain Timeclock
Hyperion mode Sunny or Dark	BV	4	X	X			0	1	Dark	Sunny	Dark, Sunny	Used to override the Hyperion solar adaptive shade control system.

BV=Binary-Value, PV=Present-Value

{BASE} is a 22-bit value set up in the Lutron system configuration software (default 1760000).
 {SYSTEM} is an 8-bit value set up in the Lutron system configuration software (0 to 127).
 {TimeclockName} is a text string defined in the Lutron system configuration software
 {SystemName} is a text string defined in the Lutron system configuration software
 {Instance} is a number defined in the Lutron system configuration software that is equal to the {BASE} number + {{SYSTEM} number + 1

Job Name:	Model Numbers:
Job Number:	