

BACnet® Software License for *Quantum* Shades

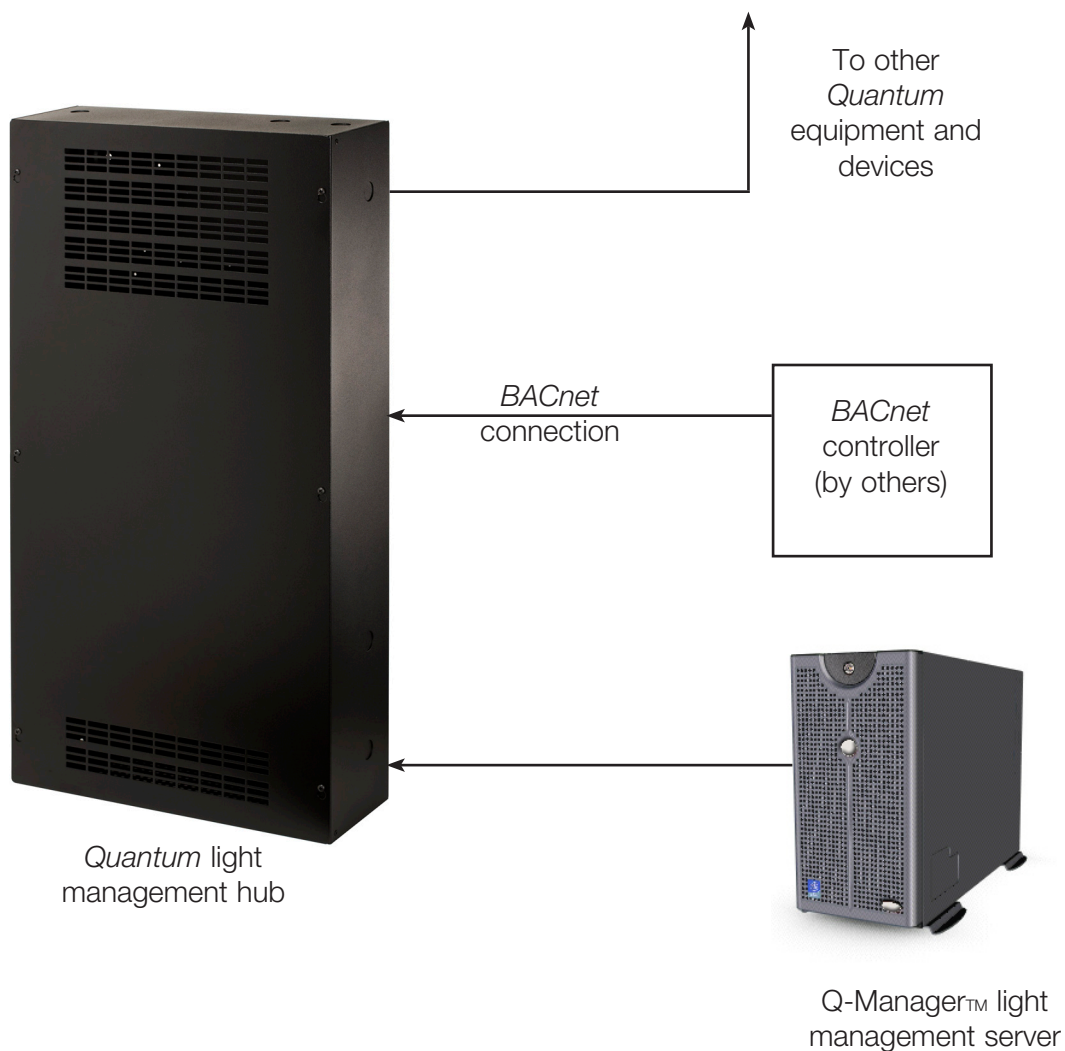


Description

This license for *BACnet* software enables a building management system to control, monitor, and manage energy for shades in the *Quantum* system. This license must be activated by a Lutron Field Service Engineer. One license is required for each processor.

System Network Diagram

Note: Requires use of Q-Admin™ software package



Job Name:	Model Numbers:
Job Number:	

BACnet® Protocol Implementation Conformance Statement (PICS)

Date: September 10, 2008

Vendor Name: Lutron Electronics Co., Inc.

Product Name: *Quantum BACnet* Integration

Product Model Number: QSW-BAC-L-PP-A

Applications Software Version: 1.9

Firmware Revision: 1.9

BACnet® Protocol Revision: 4

Version History

Applications Software Versions: 1.6, 1.7, 1.8

Firmware Revisions: 1.6, 1.7, 1.8

BACnet® Protocol Revision: 2

Product Description

License for *Quantum* light management hub to enable *BACnet* IP Integration. Allows control of *Quantum* system components. *BACnet* IP is embedded in the *Quantum* light management hub.

BACnet Interoperability Building Blocks Supported (Annex K):

K.1.1 BIBB	Data Sharing	ReadProperty-B (DS-RP-B)
K.1.8 BIBB	Data Sharing	WriteProperty-B (DS-WP-B)
K.1.4 BIBB	Data Sharing	ReadPropertyMultiple-B (DS-RPM-B)
K.1.10 BIBB	Data Sharing	WritePropertyMultiple-B (DS-WPM-B)
K.5.2 BIBB	Device Management	DynamicDeviceBinding-B (DM-DDB-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*'s CreateObject service? **No.**
2. Dynamically deletable using *BACnet*'s DeleteObject service? **No.**
3. List of optional properties supported: **None.**
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.**

Job Name:	Model Numbers:
Job Number:	

Analog Value

1. Dynamically creatable using the BACnet® CreateObject service? **No.**
2. Dynamically deletable using *BACnet*'s DeleteObject service? **No.**
3. List of optional properties supported: **Min, Max.**
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*'s CreateObject service? **No.**
2. Dynamically deletable using *BACnet*'s DeleteObject service? **No.**
3. List of optional properties supported: **None.**
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*'s CreateObject service? **No.**
2. Dynamically deletable using *BACnet*'s DeleteObject service? **No.**
3. List of optional properties supported: **None.**
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:

None

Character Sets Supported:

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

ANSI X3.4

If this product is a communication gateway, describe the types of non-BACnet equipment/network(s) that the gateway supports:

The device is a communication gateway between the *BACnet* protocol and EcoSystem® ballasts and modules in Lutron's *Quantum* light control system.

Job Name:	Model Numbers:
Job Number:	

BACnet® Objects												
Area Device	Read	Write	Type	Instance	{Area Name}	COV Supported	Units	Min PV	Max PV	Active Text	Inactive Text	State Text
Hyperion Enabled 1	X	X	BV	17	Hyperion Enabled			0	1	Enabled (1)	Disabled (0)	
Shade Group Level: Control/Monitor the position of a shade group in an area.	X	X	AV	2000-2999	{GroupName} Level		%	0	100 101=Mixed On 102=Unknown			
Shade Group Preset: Control/Monitor the preset positions for a shade group in an area.	X	X	MSV	3000-3999	{GroupName} Preset		--	1	34			{Preset Name}
System Device												
Master Hyperion Enabled 1	X	X	BV	3	Master Hyperion Enabled			0	1	Enabled	Disabled	
AV = Analog Value												
BV = Binary Value												
MSV = Multi-State Value												
COV = Change of Value												
PV = Present Value												
{ } = Name specified in the system by Lutron												
1 = Features only available in Quantum 1.7 or later.												
2 = "Shade Group" will be prefixed if the name does not include the phrase "Shade Group".												

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