3691088a 1 02.07.18

ASHRAE's BACnet Protocol Implementation Conformance Statement (PICS)

Date: February 7, 2018

Vendor Name: Lutron Electronics Co., Inc. Product Name: myRoom BACnet Integration

Applications Software Version: 2.0

Firmware Revision: 3.3 BACnet Protocol Revision: 4

Vendor ID: 176



BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International (B)).

Product Description

BACnet IP is embedded in the myRoom processor. There are two types of BACnet devices available in myRoom: system devices and area devices. The system devices are main BACnet devices; typically, one main device per guestroom. The area devices are virtual BACnet devices of the system device, there can be one or more per guestroom. It is normal to have multiple system main devices and area virtual 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.

LITEON CDECIEICATION CHEMITTAI

Limitations:

Certain BACnet objects and values that are not supported by the myRoom system may show up in the BACnet terminal. Those should not be used. Only the BACnet objects and values mentioned in this document should be used.

※LUTAUN	SPECIFICATION SUBMITTAL	raye
Job Name:	Model Numbers:	
Job Number:		

3691088a 2 02.07.18

Dago

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.

SPECIFICATION SUBMITTAL

Data Link Layer Options:

BACnet IP

Device Address Binding:

Is static device binding supported? No.

Networking Options:

BACnet/IP Annex J — non-BBMD functionality; the myRoom processor is able to register as a foreign device. The myRoom 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.

• ANSI X3.4

BACnet Routing:

Routes between the connected physical BACnet network and a virtual BACnet network.

SECTION SELCTIONING	ON SUBMITTAL	raye
Job Name:	Model Numbers:	
Job Number:		

Software License

myRoom

BACnet PIC Statement for myRoom Main Devices using Version 3.3

3691088a 3 02.07.18

Object Name	Туре	Instance	Read	Write	COV	Units	Min PV	Max PV	Inactive Text (0)	Active Text (1)	State Text (Multi-State)
{SystemName} {Instance}	DEVICE	{Base} + {System} + 1	Х	_	_	_	_	_	_	_	_
		e System Name tance is the sar								ically corr	esponds to a physical guestroom. The
{TimeclockName} Enabled	BV	1000 to 1999	Х	Х	Х	_	0	1	Disabled	Enabled	_
	Notes: For each timeclock in the myRoom system, there will be one instance number in the range from 1000 to 1999, that can either Enable or Disable that timeclock in the system, or query its current enable state. Please note that for each such instance, there will be a corresponding instance at the same offset but within the range from 2000 to 2999, a {TimeclockName} Enable Command object, similar but with more functionality. Write with 0 to Disable Permanently. The timeclock will no longer affect objects in the system. Write with 1 to Enable Without Catch Up. The timeclock will affect objects in the system as programmed, but only starting with future events. Read {TimeclockName} Enabled will return 0 (Disabled) if the last {TimeclockName} Enable Command was any of the following Disable Until End of Day Without Catch Up Disable Until End of Day Without Catch Up Read {TimeclockName} Enabled will return 1 (Enabled) if the last {TimeclockName} Enable Command was any of Enable Without Catch Up Enable Without Catch Up Enable With Catch Up Enable With Catch Up							ame offset but within the range from ionality. ystem. as programmed, but only starting with able Command was any of the following:			

(continued on next page)

BV = Binary-Value

{SystemName} is a text string defined in the Lutron myRoom system configuration software

{Instance} is a number defined in the Lutron myRoom system configuration software that is equal to the {Base} number + {System} number +1

{Base} is a 22-bit value set in the Lutron myRoom system configuration software (default 1760000)

{System} is an 8-bit value set in the Lutron myRoom system configuration software (0 to 127)

{TimeclockName} is a text string defined in the Lutron myRoom system configuration software

{VariableName} is a text string defined in the Lutron myRoom system configuration software

{VariableStateCount} is the number of states defined for this variable in the Lutron myRoom system configuration software

{StateName} is a text string defined in the Lutron myRoom system configuration software

PV = Present-Value

\$LUTRON	SPECIFICATION	SUBMITTAL
-----------------	---------------	-----------

Page

Job Name:	Model Numbers:
Job Number:	

BACnet PIC Statement for myRoom Main Devices using Version 3.3

3691088a 4 02.07.18

Object Name	Туре	Instance	Read	Write	COV	Units	Min PV	Max PV	Inactive Text (0)	Active Text (1)	State Text (Multi-State)
{TimeclockName} Enable Command	MSV	2000 to 2999	Х	Х	Х	_	1	6	_	_	1 = Disable Permanently 2 = Disable Until End of Day Without Catch Up 3 = Disable Until End of Day With Catch Up 4 = Enable Without Catch Up 5 = Enable With Catch Up 6 = Enable and Run Previous Event Only
	 Notes: F	l or each time	l clock ir	the my	Room	l system,	there w	l ill be one in	l stance nur	l nber in th	e range from 2000 to 2999, that can either Enable
	F F E S V V V t	1999, a {Time Please note the system device WRITING: Write with 1 the with 1 the with 2 the with 2 the with 3 the with 3 the will affor will affor will affor will affor will affor with 3 the will "catch"	hat for declock! hat if th m device. To Disab fect obj to Disab up", or	each sud lame} Ei ere are ce. To ei ole Perm ole Until ects in t ole Until set obje	ch instrabled multiphable of anent End of the system of th	ance, the lobject, so le system or disable ly. The til f Day Wit stem as p f Day Wit the system	ere will I similar b ns, the i the tim meclock hout Ca brogram h Catch	pe a corresp ut with less nstance nu leclock for a will no long toth Up. The med, but or Up. The time e net state t	conding instanctional mber represall systems ger affect of timeclock ally starting neclock will that would	ity. senting ar , write to t bjects in t will not af with futur I not affec	ffect objects in the system until midnight, at which
	1	hereafter, it	will aff	ect obje	cts in	the syste	m as pr	ogrammed.			stem as programmed, but only starting with future
	\ (\ (btained had bjects in the	the tim systen to Enab	eclock r n as pro le and R	never I gramn un Pre	oeen disa ned. evious Ev	ıbled (ad	counting fo	r missed e	vents for ı	in the system to the net state that would have up to the last seven days). Thereafter, it will affect a single last scheduled event. Thereafter, it will affect
	l • [• [• [6	f timeclock s Disable Perm Disable Until Disable Until	anently End of I End of I will ret	Day With Day With urn the	nout C	atch Up h Up			,		nd any of: y writing to {TimeclockName} Enable Command was
	• E • E F I: (Enable With (Enable and R Read thereof f timeclock s Command wi	Catch U un Prev will reto tate wa Il returr tate wa	p ious Eve urn 4 (E is last cl i 1 (Disa is last cl	nable ' nange ible Pe nange	Without (d by writ ermanent d by writi	ng 0 to ly). ng 1 to	the {Timecl	•		nstance, then read of {TimeclockName} Enable nstance, then read of {TimeclockName} Enable
{VariableName} Current Variable State	MSV	4000 to 4999	Х	Х	X	<u> </u>	1	{Variable State Count}	_	<u> </u>	{StateName}
	p c ti	rogramming onfigured in:	as con side the	figured myRoo	in the m sys	myRoom tem conf	system iguratio	configurati n software.	on softwar The myRo	e. The nu om systen	evaluation of conditional logic on button mber of states, as well as the state names, must be in uses Guest Presence Detection (GPD) to determine variable can be monitored for the GPD state of the

BV = Binary-Value, MSV = Multi-State-Value

{TimeclockName} is a text string defined in the Lutron myRoom system configuration software

{VariableName} is a text string defined in the Lutron myRoom system configuration software

{VariableStateCount} is the number of states defined for this variable in the Lutron myRoom system configuration software

{StateName} is a text string defined in the Lutron myRoom system configuration software

PV = Present-Value

Lutron and Lutron are trademarks of Lutron Electronics Co., Inc., registered in the U.S. and other countries. myRoom is a trademark of Lutron Electronics Co., Inc.

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

ELUTRON SPECIFICATION SUBMITTA	ΑL
--	----

Page

Job Name:	Model Numbers:
Job Number:	