

## Master BACnet Points List

Description	Name	Object Type	ID
Analog Input	ANALOG_INPUT_100ssxx	ANALOG_VALUE	100ssxx
Digital Input	DIGITAL_INPUT_100ssxx	BINARY_VALUE	100ssxx
Load Status	LOAD_STATUS_110ssxx	BINARY_VALUE	110ssxx
Line Voltage Input	LINE_VOLTAGE_INPUT_120ssxx	BINARY_VALUE	120ssxx
Device	nnnn_DEVICE_OBJECT_132rraa	DEVICE	132rraa
Analog Output Low Trim Percentage	AO_LOW_TRIM_PCT_150ssxx	MULTISTATE_VALUE	150ssxx
Analog Output High Trim Percentage	AO_LOW_TRIM_PCT_151ssxx	MULTISTATE_VALUE	151ssxx
Channel Status	CHANNEL_STATUS_200zzcc	BINARY_VALUE	200zzcc
Channel Level	CHANNEL_LEVEL_201zzcc	ANALOG_VALUE	201zzcc
Occupancy Timer Occupied Mode	OCC_TIMER_OCC_MODE_210zzcc	ANALOG_VALUE	210zzcc
Occupancy Timer Unoccupied Mode	OCC_TIMER_UNOCC_MODE_211zzcc	ANALOG_VALUE	211zzcc
Timer Unoccupied Mode	TIMER_UNOCC_212zzcc	ANALOG_VALUE	212zzcc
Timer Occupied Mode	TIMER_OCC_213zzcc	ANALOG_VALUE	213zzcc
Off Light Level Percentage Occupied Mode	OLL_OCC_PCT_214zzcc	MULTISTATE_VALUE	214zzcc
Off Light Level Percentage Unoccupied Mode	OLL_UNOCC_PCT_215zzcc	MULTISTATE_VALUE	215zzcc
Daylight Harvesting Setpoint	DAY_HARVEST_SETPT_220zzcc	ANALOG_VALUE	220zzcc
Daylight Harvesting Ramp Step Size Percent	DLH_RAMP_STEP_PCT_221zzcc	MULTISTATE_VALUE	221zzcc
Daylight Harvesting Ramping Period Seconds	DLY_RAMP_PERIOD_SECS_222zzcc	ANALOG_VALUE	222zzcc
Daylight Harvesting Ramp Affordance Percent	DLH_RAMP_AFFORD_PCT_223zzcc	MULTISTATE_VALUE	223zzcc
Initial Light Level Enable Occupied Mode	ILL_OCC_ENABLE_230zzcc	BINARY_VALUE	230zzcc
Initial Light Level Enable Unoccupied Mode	ILL_UNOCC_ENABLE_231zzcc	BINARY_VALUE	231zzcc
Run Command	RUN_COMMAND_300zz00	BINARY_VALUE	300zz00
Schedule	SCHEDULE_310zz00	SCHEDULE	310zz00
Demand Response Level	DEMAND_RESPONSE_LEVEL_320zzcc	MULTISTATE_VALUE	320zzcc
Channel Demand Response Level 1 Binary Output Policy	CH_DMND_RESP_LVL_1_BIN_321zzcc	BINARY_VALUE	321zzcc
Channel Demand Response Level 1 Analog Output Ceiling	CH_DMND_RESP_LVL_1_PCT_321zzcc	MULTISTATE_VALUE	321zzcc

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Description	Name	Object Type	ID
Channel Demand Response Level 2 Binary Output Policy	CH_DMND_RESP_LVL_2_BIN_322zzcc	BINARY_VALUE	322zzcc
Channel Demand Response Level 2 Analog Output Ceiling	CH_DMND_RESP_LVL_2_PCT_322zzcc	MULTISTATE_VALUE	322zzcc
Channel Demand Response Level 3 Binary Output Policy	CH_DMND_RESP_LVL_3_BIN_323zzcc	BINARY_VALUE	323zzcc
Channel Demand Response Level 3 Analog Output Ceiling	CH_DMND_RESP_LVL_3_PCT_323zzcc	MULTISTATE_VALUE	323zzcc
Emergency Override	EMERGENCY_OVERRIDE_325zzcc	BINARY_VALUE	325zzcc
Occupied/Unoccupied Mode Source	OCCUNOCC_MODE_SOURCE_330zzcc	MULTISTATE_VALUE	330zzcc
Virtual Station On Off	VS_ON_OFF_340tttb	MULTISTATE_VALUE	340tttb
Virtual Station Indicator LED	VS_BUTTON_INDICATOR_341tttb	MULTISTATE_VALUE	341tttb
Virtual Station Level Set	VS_LEVEL_SET_342tttb	MULTISTATE_VALUE	342tttb

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<b>Parameter Ranges : Current Products</b>
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Product	b - Button or Button Set	zz - Zone	cc - Channel	ss - CAN Address	Station ttt - Address	Router rr - Address	Device aa - Address	Device Name nnnn - Name	Digital Input xx - Instance	Load Status Input xx - Instance	Line Voltage Input xx - Instance	Analog Input xx - Instance
CM01T	NA	01 - 64	01 - 08	NA	000 - 063	01 - 99	00 - 99	CM01	NA	NA	NA	NA
CM02T	NA	01 - 64	01 - 08	NA	000 - 063	01 - 99	00 - 99	CM02	NA	NA	NA	NA
CM04T	NA	01 - 64	01 - 08	NA	000 - 063	01 - 99	00 - 99	CM04	NA	NA	NA	NA
CM08T	NA	01 - 64	01 - 08	NA	000 - 063	01 - 99	00 - 99	CM08	NA	NA	NA	NA
CM16T	NA	01 - 64	01 - 08	NA	000 - 063	01 - 99	00 - 99	CM16	NA	NA	NA	NA
CM32T	NA	01 - 64	01 - 08	NA	000 - 063	01 - 99	00 - 99	CM32	NA	NA	NA	NA
CM02TD	NA	01 - 64	01 - 08	NA	000 - 063	01 - 99	00 - 99	CM02	NA	NA	NA	NA
CM04TD	NA	01 - 64	01 - 08	NA	000 - 063	01 - 99	00 - 99	CM04	NA	NA	NA	NA
CM08TD	NA	01 - 64	01 - 08	NA	000 - 063	01 - 99	00 - 99	CM08	NA	NA	NA	NA
CM16TD	NA	01 - 64	01 - 08	NA	000 - 063	01 - 99	00 - 99	CM16	NA	NA	NA	NA
CM32TD	NA	01 - 64	01 - 08	NA	000 - 063	01 - 99	00 - 99	CM32	NA	NA	NA	NA
AO08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AU48	NA	NA	NA	01 - 32	NA	NA	NA	NA	01 - 08	NA	NA	01 - 08
DU88	NA	NA	NA	01 - 32	NA	NA	NA	NA	01 - 08	NA	NA	01 - 08
RD16	NA	NA	NA	01 - 32	NA	NA	NA	NA	NA	01 - 16	NA	NA
RE04	NA	NA	NA	01 - 32	NA	NA	NA	NA	NA	01 - 04	NA	NA
RE224	NA	NA	NA	01 - 32	NA	NA	NA	NA	01 - 04	01 - 02	NA	01 - 04
RO04	NA	NA	NA	01 - 32	NA	NA	NA	NA	NA	01 - 04	NA	NA
RO224	NA	NA	NA	01 - 32	NA	NA	NA	NA	01 - 04	01 - 02	NA	01 - 04
UI16	NA	NA	NA	01 - 32	NA	NA	NA	NA	01 - 16	NA	NA	01 - 16
TS02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CTS1CH	1	NA	NA	NA	000 - 063	NA	NA	NA	NA	NA	NA	NA
CTS2CH	1 - 2	NA	NA	NA	000 - 063	NA	NA	NA	NA	NA	NA	NA
CTS3CH	1 - 3	NA	NA	NA	000 - 063	NA	NA	NA	NA	NA	NA	NA
CTS4CH	1 - 4	NA	NA	NA	000 - 063	NA	NA	NA	NA	NA	NA	NA
CTS6CH	1 - 6	NA	NA	NA	000 - 063	NA	NA	NA	NA	NA	NA	NA
CTS1RL	1	NA	NA	NA	000 - 063	NA	NA	NA	NA	NA	NA	NA
CTS2RL	1 - 2	NA	NA	NA	000 - 063	NA	NA	NA	NA	NA	NA	NA
CTS3PR	1 - 4	NA	NA	NA	000 - 063	NA	NA	NA	NA	NA	NA	NA
CTS6PR	1 - 6	NA	NA	NA	000 - 063	NA	NA	NA	NA	NA	NA	NA

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### Parameter Ranges : Legacy Products

Product	b - Button or Button Set	zz -Zone	cc - Channel	ss - CAN Address	Station ttt - Address	Router rr - Address	Device aa - Address	Device Name nnnn - Name	Digital Input xx - Instance	Load Status xx - Instance	Line Voltage Input xx - Instance	Analog Input xx - Instance
MICB	NA	01 - 64	01 - 08	NA	NA	01 - 99	00 - 99	MICB	NA	NA	NA	NA
ZCSB	NA	01	01 - 08	00	NA	01 - 99	00 - 99	ZCSB	01 - 06	01 - 02	01 - 02	01 - 06
ZCSS	NA	01 - 02	01 - 08	00	NA	01 - 99	00 - 99	ZCSS	01 - 06	01 - 02	01 - 02	01 - 06
ZCDS	NA	01 - 02	01 - 08	00	NA	01 - 99	00 - 99	ZCDS	01 - 06	01 - 02	01 - 02	01 - 06
ZCDE	NA	01 - 04	01 - 08	00	NA	01 - 99	00 - 99	ZCDE	01 - 06	01 - 02	01 - 02	01 - 06
RPSB	NA	01 - 64	01 - 08	00	NA	01 - 99	00 - 99	RPSB	01 - 24	NA	NA	01 - 24
RPSS	NA	01 - 64	01 - 08	00	NA	01 - 99	00 - 99	RPSS	01 - 24	NA	NA	01 - 24
RPDS	NA	01 - 64	01 - 08	00	NA	01 - 99	00 - 99	RPDS	01 - 24	NA	NA	01 - 24
RKUN	NA	01 - 64	01 - 08	00	NA	01 - 99	00 - 99	RKUN	01 - 24	NA	NA	01 - 24
RKUS	NA	01 - 64	01 - 08	00	NA	01 - 99	00 - 99	RKUS	01 - 24	01 - 64	NA	01 - 24
SCSS	NA	NA	NA	01 - 32	NA	NA	NA	NA	01 - 06	01 - 02	01 - 02	01 - 06
SCDS	NA	NA	NA	01 - 32	NA	NA	NA	NA	01 - 06	01 - 02	01 - 02	01 - 06
RP-FI1-C	NA	NA	NA	01 - 32	NA	NA	NA	NA	NA	01 - 16	NA	NA
LEXP32	NA	NA	NA	01 - 04	NA	NA	NA	NA	01 - 32	NA	NA	NA

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Device	Description	Type	Default	Access
Object_Identifier	BACnet device object for the controller.	BACnetObjectIdentifier	132rraa	Read/Write
Object_Name		CharacterString	nnnn_DEVICE_OBJECT_132rraa	Read
Object_Type		BACnetObjectType	DEVICE	Read
System_Status		BACnetDeviceStatus		Read
Vendor_Name		CharacterString	Blue Ridge Technologies International, LLC	Read
Vendor_Identifier		Unsigned16	132	Read
Model_Name		CharacterString		Read
Firmware_Revision		CharacterString		Read
Application_Software_Version		CharacterString		Read
Protocol_Version		Unsigned		Read
Protocol_Revision		Unsigned		Read
Protocol_Services_Supported		BACnetServicesSupported		Read
Protocol_Object_Types_Supported		BACnetObjectTypesSupported		Read
Object_List		BACnetARRAY[N] of BACnetObjectIdentifier		Read
Max_APDU_Length_Accepted		Unsigned	480	Read
Segmentation_Supported		BACnetSegmentation	NO_SEGMENTATION	Read
Local_Time		Time		Read
Local_Date		Date		Read
UTC_Offset		INTEGER		Read/Write
Daylight_Savings_Status		BOOLEAN		Read/Write
APDU_Timeout		Unsigned	6000	Read
Number_Of_APDU_Retries		Unsigned	3	Read
Max_Master		Unsigned (1..127)	99	Read
Max_Info_Frames		Unsigned	10	Read/Write
Device_Address_Binding	BACnetList of BACnetAddressBinding		Read	
Database_Revision	Unsigned		Read	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier		Read	

Digital Input	Description	Type	Default	Access
Object_Identifier	Indicates the status of a binary input, either on or off.	BACnetObjectIdentifier	100ssxx	Read
Object_Name		CharacterString	DIGITAL_INPUT_100ssxx	Read
Object_Type		BACnetObjectType	BINARY_VALUE	Read
Present_Value		Any	0	Read
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

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Load Status	Description	Type	Default	Access
Object_Identifier	Indicates whether a given load relay is open or closed. On indicates the relay is closed. Off indicates the relay is open.	BACnetObjectIdentifier	110ssxx	Read
Object_Name		CharacterString	LOAD_STATUS_110ssxx	Read
Object_Type		BACnetObjectType	BINARY_VALUE	Read
Present_Value		Any	0	Read
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

Line Voltage Input	Description	Type	Default	Access
Object_Identifier	Indicates the status of a line voltage input, either on or off.	BACnetObjectIdentifier	120ssxx	Read
Object_Name		CharacterString	LINE_VOLTAGE_INPUT_120ssxx	Read
Object_Type		BACnetObjectType	BINARY_VALUE	Read
Present_Value		Any	0	Read
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

Channel Status	Description	Type	Default	Access
Object_Identifier	Indicates the status of a Channel, either lights on or lights off.	BACnetObjectIdentifier	200zzcc	Read
Object_Name		CharacterString	CHANNEL_STATUS_200zzcc	Read
Object_Type		BACnetObjectType	BINARY_VALUE	Read
Present_Value		Any	0	Read
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

Initial Light Level Enable Occupied Mode	Description	Type	Default	Access
Object_Identifier	This commandable object sets whether the Initial Light Level is enabled for Occupied Mode. 1 equals Enabled. 0 equals Disabled. Default is 0/Disabled. The Initial Light Level percentage is settable from within Essentials.	BACnetObjectIdentifier	230zzcc	Read
Object_Name		CharacterString	ILL_OCC_ENABLE_230zzcc	Read
Object_Type		BACnetObjectType	BINARY_VALUE	Read
Present_Value		Any	0	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		BACnetBinaryPV	0	Read/Write
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier		Read	

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Initial Light Level Enable Unoccupied Mode	Description	Type	Default	Access
Object_Identifier	This commandable object sets whether the Initial Light Level is enabled for Unoccupied Mode. 1 equals Enabled. 0 equals Disabled. Default is 0/Disabled. The Initial Light Level percentage is settable from within Essentials.	BACnetObjectIdentifier	231zzcc	Read
Object_Name		CharacterString	ILL_UNOCC_ENABLE_231zzcc	Read
Object_Type		BACnetObjectType	BINARY_VALUE	Read
Present_Value		Any	0	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		BACnetBinaryPV	0	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

Run Command	Description	Type	Default	Access
Object_Identifier	Controls mode of operation. On is when occupants are expected present. Off when occupants are expected not present.	BACnetObjectIdentifier	300zz00	Read
Object_Name		CharacterString	RUN_COMMAND_300zz00	Read
Object_Type		BACnetObjectType	BINARY_VALUE	Read
Present_Value		Any	1	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		BACnetBinaryPV	1	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

Channel Demand Response Level 1 Binary Output Policy	Description	Type	Default	Access
Object_Identifier	Dictates the policy of a Channel's Binary Outputs [Relay Outputs and Digital Outputs] when the Channel's Demand Response Level is 1. Value of 0 means continue normal effectuation of outputs. Value of 1 means suppress (force off) these outputs. Default is 0.	BACnetObjectIdentifier	321zzcc	Read
Object_Name		CharacterString	CH_DMND_RESP_LVL_1_BIN_321zzcc	Read
Object_Type		BACnetObjectType	BINARY_VALUE	Read
Present_Value		Any	0	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		BACnetBinaryPV	0	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

Channel Demand Response Level 2 Binary Output Policy	Description	Type	Default	Access
Object_Identifier	Dictates the policy of a Channel's Binary Outputs [Relay Outputs and Digital Outputs] when the Channel's Demand Response Level is 2. Value of 0 means continue normal effectuation of outputs. Value of 1 means suppress (force off) these outputs. Default is 0.	BACnetObjectIdentifier	322zzcc	Read
Object_Name		CharacterString	CH_DMND_RESP_LVL_2_BIN_322zzcc	Read
Object_Type		BACnetObjectType	BINARY_VALUE	Read
Present_Value		Any	0	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		BACnetBinaryPV	0	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

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<b>Channel Demand Response Level 3 Binary Output Policy</b>	<b>Description</b>	<b>Type</b>	<b>Default</b>	<b>Access</b>
Object_Identifier	Dictates the policy of a Channel's Binary Outputs [Relay Outputs and Digital Outputs] when the Channel's Demand Response Level is 3. Value of 0 means continue normal effectuation of outputs. Value of 1 means suppress (force off) these outputs. Default is 0.	BACnetObjectIdentifier	323zzcc	Read
Object_Name		CharacterString	CH_DMND_RESP_LVL_3_BIN_323zzcc	Read
Object_Type		BACnetObjectType	BINARY_VALUE	Read
Present_Value		Any	0	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		BACnetBinaryPV	0	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

<b>Emergency Override</b>	<b>Description</b>	<b>Type</b>	<b>Default</b>	<b>Access</b>
Object_Identifier	Used to command the Channel to Emergency Override mode. Value of 0 indicates no override. Value of 1 indicates override. Override takes precedence over all sequential logic except manual lock.	BACnetObjectIdentifier	325zzcc	Read
Object_Name		CharacterString	EMERGENCY_OVERRIDE_325zzcc	Read
Object_Type		BACnetObjectType	BINARY_VALUE	Read
Present_Value		Any	0	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		BACnetBinaryPV	0	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

<b>Analog Input</b>	<b>Description</b>	<b>Type</b>	<b>Default</b>	<b>Access</b>
Object_Identifier	Indicates the status value of an analog input. Units and range are configured within BRT Essentials.	BACnetObjectIdentifier	100ssxx	Read
Object_Name		CharacterString	ANALOG_INPUT_100ssxx	Read
Object_Type		BACnetObjectType	ANALOG_VALUE	Read
Present_Value		Any	0	Read
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Units		BACnetEngineeringUnits		Read
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

<b>Channel Level</b>	<b>Description</b>	<b>Type</b>	<b>Default</b>	<b>Access</b>
Object_Identifier	Indicates the lighting output level in % for a channel.	BACnetObjectIdentifier	201zzcc	Read
Object_Name		CharacterString	CHANNEL_LEVEL_201zzcc	Read
Object_Type		BACnetObjectType	ANALOG_VALUE	Read
Present_Value		Any	0	Read
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Units		BACnetEngineeringUnits	percent	Read
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read



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Occupancy Timer Occupied Mode	Description	Type	Default	Access
Object_Identifier	Timer value in minutes used to count down time during occupied mode as occupancy timer times out.	BACnetObjectIdentifier	210zzcc	Read
Object_Name		CharacterString	OCC_TIMER_OCC_MODE_210zzcc	Read
Object_Type		BACnetObjectType	ANALOG_VALUE	Read
Present_Value		Any	30	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Units		BACnetEngineeringUnits	minutes	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		BACnetBinaryPV	30	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

Occupancy Timer Unoccupied Mode	Description	Type	Default	Access
Object_Identifier	Timer value in minutes used to count down time during unoccupied mode as occupancy timer times out.	BACnetObjectIdentifier	211zzcc	Read
Object_Name		CharacterString	OCC_TIMER_UNOCC_MODE_211zzcc	Read
Object_Type		BACnetObjectType	ANALOG_VALUE	Read
Present_Value		Any	30	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Units		BACnetEngineeringUnits	minutes	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		BACnetBinaryPV	30	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

Timer Unoccupied Mode	Description	Type	Default	Access
Object_Identifier	Timer value in minutes used to count down time when override is initiated by the space occupant during Unoccupied Mode. Default 120. Range 1-1440.	BACnetObjectIdentifier	212zzcc	Read
Object_Name		CharacterString	TIMER_UNOCC_212zzcc	Read
Object_Type		BACnetObjectType	ANALOG_VALUE	Read
Present_Value		Any	60	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Units		BACnetEngineeringUnits	minutes	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		BACnetBinaryPV	120	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

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Timer Occupied Mode	Description	Type	Default	Access
Object_Identifier	Timer value in minutes used to count down time when override is initiated by the space occupant during Occupied Mode. Default 120. Range 1-1440.	BACnetObjectIdentifier	213zzcc	Read
Object_Name		CharacterString	TIMER_OCC_213zzcc	Read
Object_Type		BACnetObjectType	ANALOG_VALUE	Read
Present_Value		Any	120	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Units		BACnetEngineeringUnits	minutes	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		BACnetBinaryPV	120	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

Daylight Harvesting Setpoint	Description	Type	Default	Access
Object_Identifier	Daylight harvesting setpoint in foot candles.	BACnetObjectIdentifier	220zzcc	Read
Object_Name		CharacterString	DAY_HARVEST_SETPT_220zzcc	Read
Object_Type		BACnetObjectType	ANALOG_VALUE	Read
Present_Value		Any	0	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Units		BACnetEngineeringUnits	foot candles or lux	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		BACnetBinaryPV	0	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

Daylight Harvesting Ramping Period Seconds	Description	Type	Default	Access
Object_Identifier	This commandable object is used to set the time period in seconds between the evaluations of Daylight Harvesting. The default period is 10 seconds. The permissible range is 1-600 (10Min) seconds.	BACnetObjectIdentifier	222zzcc	Read
Object_Name		CharacterString	DLY_RAMP_PERIOD_SECS_222zzcc	Read
Object_Type		BACnetObjectType	ANALOG_VALUE	Read
Present_Value		Any	10	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Units		BACnetEngineeringUnits	seconds	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		BACnetBinaryPV	10	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

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Schedule	Description	Type	Default	Access
Object_Identifier	Controls mode of operation based on schedule. On is when occupants are expected present. Off when occupants are expected not present.	BACnetObjectIdentifier	310zz00	Read
Object_Name		CharacterString	SCHEDULE_310zz00	Read
Object_Type		BACnetObjectType	SCHEDULE	Read
Present_Value		Any	0	Read
Effective_Period		BACnetDateRange		Read/Write
Weekly_Schedule		BACnetARRAY[7] of BACnetDailySchedule		Read/Write
Exception_Schedule		BACnetARRAY[N] of BACnetSpecialEvent		Read/Write
Schedule_Default		Any	0	Read
List_Of_Object_Property_References		BACnetLIST of BACnetDeviceObjectPropertyReference		Read
Priority_For_Writing		Unsigned (1..16)	16	Read
Status_Flags		BACnetStatusFlags		Read
Reliability		BACnetReliability		Read
Out_Of_Service		BOOLEAN	FALSE	Read
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier		Read	

Analog Output Low Trim Percentage	Description	Type	Default	Access
Object_Identifier	This commandable object is used to set the low trim level of an Analog Output. This is the lowest percentage this AO may go within its containing channel. It will stop at this floor even if the channel goes below this pct. It may be equal to but not greater than the high trim percentage. Default is 0%.	BACnetObjectIdentifier	150ssxx	Read
Object_Name		CharacterString	AO_LOW_TRIM_PCT_150ssxx	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	101	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	101	Read
State_Text		BACnetARRAY[N] of CharacterString	[1] "1Pct" [2] "2Pct" ... [99] "99Pct" [100] "100Pct" [101] "0Pct" ([0] is not a legal MSV value, thus use of 101 for "0Pct" )	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		Unsigned	101	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

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Analog Output High Trim Percentage	Description	Type	Default	Access
Object_Identifier	This commandable object is used to set the high trim level of an Analog Output. This is the highest percentage this AO may go within its containing channel. It will stop at this ceiling even if the channel goes above this pct. It may be equal to, but not less than the low trim percentage. Default is 100%.	BACnetObjectIdentifier	151ssxx	Read
Object_Name		CharacterString	AO_LOW_TRIM_PCT_151ssxx	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	100	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	101	Read
State_Text		BACnetARRAY[N] of CharacterString	[1] "1Pct" [2] "2Pct" ... [99] "99Pct" [100] "100Pct" [101] "0Pct" ([0] is not a legal MSV value, thus use of 101 for "0Pct" )	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default	Unsigned	100	Read/Write	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier		Read	

Off Light Level Percentage Occupied Mode	Description	Type	Default	Access
Object_Identifier	This commandable object sets the percentage of the Off Light Level for a Channel when in Occupied Mode. Off Light Level for Occupied Mode must be enabled via a checkbox in Essentials for this point to be applicable, and to have the option of it being exposed in the first place. Default is 0%.	BACnetObjectIdentifier	214zzcc	Read
Object_Name		CharacterString	OLL_OCC_PCT_214zzcc	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	101	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	101	Read
State_Text		BACnetARRAY[N] of CharacterString	[1] "1Pct" [2] "2Pct" ... [99] "99Pct" [100] "100Pct" [101] "0Pct" ([0] is not a legal MSV value, thus use of 101 for "0Pct" )	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default	Unsigned	101	Read/Write	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier		Read	

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Off Light Level Percentage Unoccupied Mode	Description	Type	Default	Access
Object_Identifier	This commandable object sets the percentage of the Off Light Level for a Channel when in Unoccupied Mode. Off Light Level for Unoccupied Mode must be enabled via a checkbox in Essentials for this point to be applicable, and to have the option of it being exposed in the first place. Default is 0%.	BACnetObjectIdentifier	215zzcc	Read
Object_Name		CharacterString	OLL_UNOCC_PCT_215zzcc	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	101	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	101	Read
State_Text		BACnetARRAY[N] of CharacterString	[1] "1Pct" [2] "2Pct" ... [99] "99Pct" [100] "100Pct" [101] "0Pct" ([0] is not a legal MSV value, thus use of 101 for "0Pct" )	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default	Unsigned	101	Read/Write	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier		Read	

Daylight Harvesting Ramp Step Size Percent	Description	Type	Default	Access
Object_Identifier	This commandable object sets the step size, in channel level percentage that Daylight Harvesting will move in either direction while attempting to achieve a reading approximating the setpoint. Default is 1%. Zero percent not allowed.	BACnetObjectIdentifier	221zzcc	Read
Object_Name		CharacterString	DLH_RAMP_STEP_PCT_221zzcc	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	1	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	100	Read
State_Text		BACnetARRAY[N] of CharacterString	[1] "1Pct" [2] "2Pct" ... [99] "99Pct" [100] "100Pct"	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default	Unsigned	1	Read/Write	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier		Read	

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Daylight Harvesting Ramp Affordance Percent	Description	Type	Default	Access
Object_Identifier	This commandable object sets the affordance in percent plus or minus the Daylight Harvesting Setpoint. Daylight harvesting will stop altering the channel level if it achieves a reading that is within the affordance band of the setpoint. Default is 10%.	BACnetObjectIdentifier	223zzcc	Read
Object_Name		CharacterString	DLH_RAMP_AFFORD_PCT_223zzcc	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	10	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	100	Read
State_Text		BACnetARRAY[N] of CharacterString	[1] "1Pct" [2] "2Pct" ... [99] "99Pct" [100] "100Pct"	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default	Unsigned	10	Read/Write	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier		Read	

Demand Response Level	Description	Type	Default	Access
Object_Identifier	Used to set the demand response level for a given Channel. The Channel can then respond by turning lights off or clamping the light level at a predetermined level.	BACnetObjectIdentifier	320zzcc	Read
Object_Name		CharacterString	DEMAND_RESPONSE_LEVEL_320zzcc	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	0	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	4	Read
State_Text		BACnetARRAY[N] of CharacterString	[1] Response Level 1 [2] Response Level 2 [3] Response Level 3 [4] No Response Level	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default	Unsigned	4	Read/Write	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier		Read	

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Channel Demand Response Level 1 <b>Analog Output Ceiling</b>	Description	Type	Default	Access
Object_Identifier	Dictates a Channel's Analog Outputs' maximum percentage level when the Channel's Demand Response Level is 1. Even if the channel level moves above this ceiling DR will cap the AOs' maximum percentage level. Default is 100%.	BACnetObjectIdentifier	321zzcc	Read
Object_Name		CharacterString	CH_DMND_RESP_LVL_1_PCT_321zzcc	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	100	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	101	Read
State_Text		BACnetARRAY[N] of CharacterString	[1] "1Pct" [2] "2Pct" ... [99] "99Pct" [100] "100Pct" [101] "0Pct" ([0] is not a legal MSV value, thus use of 101 for "0Pct" )	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		Unsigned	100	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

Channel Demand Response Level 2 <b>Analog Output Ceiling</b>	Description	Type	Default	Access
Object_Identifier	Dictates a Channel's Analog Outputs' maximum percentage level when the Channel's Demand Response Level is 1. Even if the channel level moves above this ceiling DR will cap the AOs' maximum percentage level. Default is 100%.	BACnetObjectIdentifier	322zzcc	Read
Object_Name		CharacterString	CH_DMND_RESP_LVL_2_PCT_322zzcc	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	100	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	101	Read
State_Text		BACnetARRAY[N] of CharacterString	[1] "1Pct" [2] "2Pct" ... [99] "99Pct" [100] "100Pct" [101] "0Pct" ([0] is not a legal MSV value, thus use of 101 for "0Pct" )	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		Unsigned	100	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

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<b>Channel Demand Response Level 3 Analog Output Ceiling</b>	<b>Description</b>	<b>Type</b>	<b>Default</b>	<b>Access</b>
Object_Identifier	Dictates a Channel's Analog Outputs' maximum percentage level when the Channel's Demand Response Level is 1. Even if the channel level moves above this ceiling DR will cap the AOs' maximum percentage level. Default is 100%.	BACnetObjectIdentifier	323zzcc	Read
Object_Name		CharacterString	CH_DMND_RESP_LVL_3_PCT_323zzcc	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	100	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	101	Read
State_Text		BACnetARRAY[N] of CharacterString	[1] "1Pct" [2] "2Pct" ... [99] "99Pct" [100] "100Pct" [101] "0Pct" ([0] is not a legal MSV value, thus use of 101 for "0Pct" )	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		Unsigned	100	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

<b>Occupied/Unoccupied Mode Source</b>	<b>Description</b>	<b>Type</b>	<b>Default</b>	<b>Access</b>
Object_Identifier	Determines whether the Channel's mode is determined by Remote Command, Schedule or Remote Command with Schedule Fallback. In the later instance, Fallback is initiated when the Remote Command is not refreshed within 2 minutes.	BACnetObjectIdentifier	330zzcc	Read
Object_Name		CharacterString	OCCUNOCC_MODE_SOURCE_330zzcc	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	1	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	3	Read
State_Text		BACnetARRAY[N] of CharacterString	[1]Remote Command [2]Local Schedule [3]Remote with Local Schedule Fallback	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default		Unsigned	1	Read/Write
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read



## Master BACnet Points List

Virtual Station On Off	Description	Type	Default	Access
Object_Identifier	This commandable object is used to either toggle the on/off state of the channel, or to directly set the state to either on or off. The purpose is to allow the system designer to provide a virtual on/off button from a BACnet source other than a physical station.	BACnetObjectIdentifier	340tttb	Read
Object_Name		CharacterString	VS_ON_OFF_340tttb	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	2	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	3	Read
State_Text		BACnetARRAY[N] of CharacterString	[1]Toggle [2]On [3]Off	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default	Unsigned	2	Read/Write	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier		Read	

Virtual Station Indicator LED	Description	Type	Default	Access
Object_Identifier	This object provides indication as to whether the Station Button should light or unlight its indicator LED.	BACnetObjectIdentifier	341tttb	Read
Object_Name		CharacterString	VS_BUTTON_INDICATOR_341tttb	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	1	Read
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	4	Read
State_Text		BACnetARRAY[N] of CharacterString	[1]Off [2]On [3]Flash [4]Dim	Read
Property_List		BACnetARRAY[N] of BACnetPropertyIdentifier		Read

## Master BACnet Points List

Virtual Station Level Set	Description	Type	Default	Access
Object_Identifier	This commandable object is used to either set the channel light level percentage directly, or to increment the level up or down by a fixed percentage. The purpose is to allow the system designer to provide raise/lower functionality from a BACnet source other than a physical station.	BACnetObjectIdentifier	342tttb	Read
Object_Name		CharacterString	VS_LEVEL_SET_342tttb	Read
Object_Type		BACnetObjectType	MULTISTATE_VALUE	Read
Present_Value		Unsigned	100	Read/Write
Status_Flags		BACnetStatusFlags	0	Read
Event_State		BACnetEventState	NORMAL	Read
Out_Of_Service		BOOLEAN	FALSE	Read
Number_Of_States		Unsigned	110	Read
State_Text		BACnetARRAY[N] of CharacterString	[1]1 percent [2]2 percent ... [100]100 percent [101]-5 percent change [102]-4 percent change [103]-3 percent change [104]-2 percent change [105]-1 percent change [106]+1 percent change [107]+2 percent change [108]+3 percent change [109]+4 percent change [110]+5 percent change	Read
Priority_Array		BACnetPriorityArray		Read
Relinquish_Default	Unsigned	100	Read/Write	
Property_List	BACnetARRAY[N] of BACnetPropertyIdentifier		Read	

Note - Whether a given input is exposed as a BV or an AV is based on input configuration.