



SmartVu™ Controls Version 2.7 for Applied Rooftop Gas Heat/Electric Cooling and Electric Heat/Electric Cooling Units with PIC 6.1 Hardware

Integration Guide

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INTRODUCTION

General

The Carrier SmartVu™ control system is a product integrated control for select Carrier rooftop units, including:

- Carrier 48/50K(2,3,4,5) applied rooftop units with Puron Advance™ refrigerant (R-454B).
- Carrier 48/50V(2,3,4,5) applied rooftop units with Puron Advance™ refrigerant (R-454B).

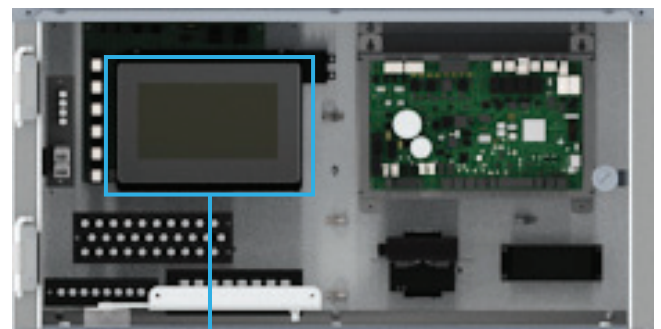
This document provides instruction on integrating Carrier SmartVu™ controls with PIC 6.1 hardware and version 2.7 software into the following building automation system (BAS) protocols and communicating sensors:

- Carrier Comfort Network (CCN).
- BACnet MS/TP.
- BACnet IP.
- Rnet (sensors and displays, not available if BACnet MS/TP is used on software version 2.7.0).

Wiring

Communication wiring is field provided and installed. Communication wiring connections are made in the unit control box. The unit control box location varies by unit model and size. Refer to the unit installation instructions for control box location and wiring access details.

Most communication wiring connections are made at the SmartVu touchscreen display in the control box. See Fig. 1 for SmartVu touchscreen display locations, Fig. 2 for port layout, and Table 1 for port details.



48/50K and 48/50V
SmartVu™ Touchscreen Display

**Fig. 1 — SmartVu™ Display Locations
on 48/50K and 48/50V Units**

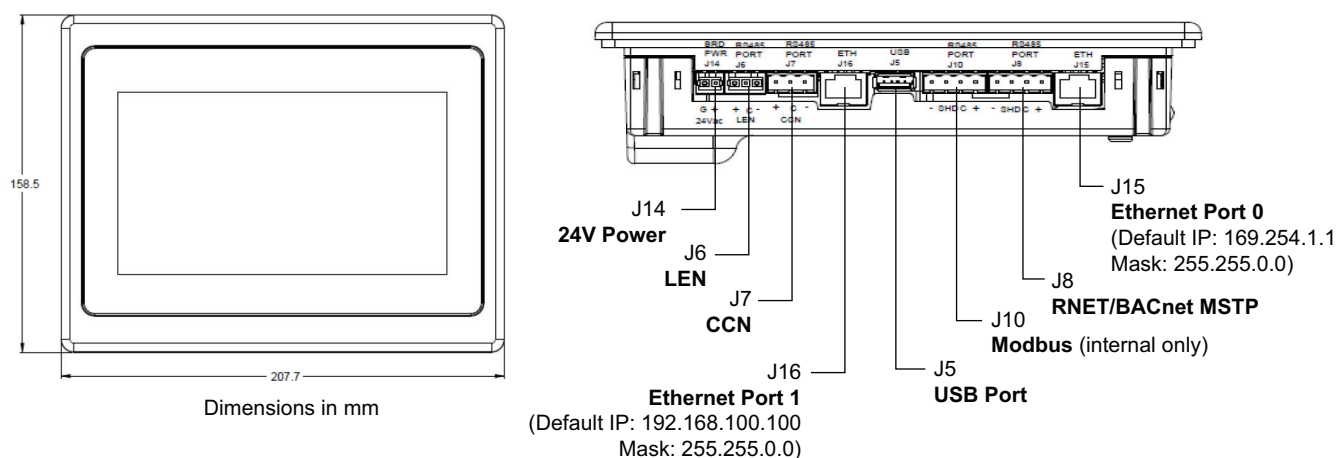


Fig. 2 — Carrier SmartVu™ Touchscreen Display Interface and Connections

Table 1 — SmartVu Display Port Connections

CONNECTOR	TYPE/ PINOUT	FUNCTION
J5	TYPE A	USB-1: Firmware/Software Upgrade
J6	+	RS485-1: LEN System Internal I/O Boards
	C	
J7	+	RS485-2: CCN (factory connected to CCN comm board)
	C	
J8	-	RS485-4: BACnet MS/TP or RNET (not both) NOTE: Requires a field-supplied connector.
	SHD	
	C	
J10	+	RS485-3: Modbus (internal VFD, ECM, and airflow measuring communication, not for BAS use)
	SHD	
	C	
J14	G	24vac Power
	+	
J15	RJ45	Ethernet 0
J16	RJ45	Ethernet 1

Signal Noise

Avoid running communication wires next to power wires or the controller's relay output wires. Other sources of noise can include:

- Spark igniters
- Radio transmitters
- Variable speed drives
- Large electric motors
- Generators
- Relays
- Transformers
- Induction heaters
- Large contactors (i.e., motor starters)
- Video display devices
- Lamp dimmers
- Fluorescent lights
- Parallel runs with power lines
- Other electronic devices

These can be sources of noise that can affect signal quality. If noise is a problem and you cannot move the wiring, use ferrite clamp-on chokes on the cabling to improve signal quality.

Control Interface

Configuring the SmartVu control for network communication can be done from the touchscreen display or with a PC using VNC Viewer software. Refer to the unit installation instruction (SI) for details on control operation, navigation, and VNC Viewer configuration.

Communication configuration is done from the Controller Config Menu.

Control Password

User access level or higher is required to configure the control for communications. See the Table 2 for the SmartVu Passwords. Refer to the unit installation instruction (SI) for details on login.

NOTE: The Controller Config screen required for communication configuration is hidden with basic access. Login with user access or higher is required to show the Controller Config screen.

Table 2 — Control Access Levels

ACCESS LEVEL	PASSWORD	DESCRIPTION
Basic	None	Access level at initial start-up or after a timeout has expired. Provides view only access to select setpoints and settings. Not all screens will be viewable. Basic access can disable the unit.
User	1111	Intermediate access to adjust setpoints and settings and access most screens. User can enable/disable the unit, enable component and system tests, and acknowledge alarms.
Service		The service password is not required for communication configuration. Contact your local Carrier Service or Applied Sales office if the service password is required.

Software Version

This document is based on software version 2.7.0. It is recommended to update to the latest software version prior to setting up unit communication.

IMPORTANT: Software versions prior to 2.4.0 may use different network point instances and point names. Contact your Carrier applied sales office to obtain a software version specific network points list.

The software version is listed on the Login screen under App Version. See Fig. 3 for Login screen layout.

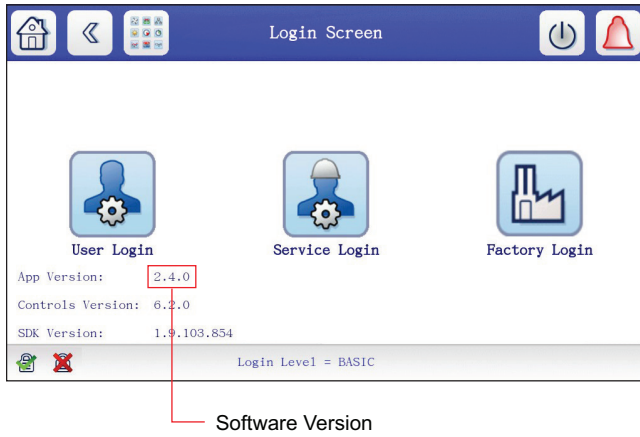


Fig. 3 — Typical Login Screen

Communication Configuration Report

Once communication configuration is complete, fill out Appendix B – Network Communication Report and Appendix C – Unit Communication Report to record the unit communication configurations. A copy of the communication reports should be saved for record and a copy provided to the customer. It is also a good practice to save a copy of the unit communication report in the unit control box.

CARRIER COMFORT NETWORK (CCN)

CCN Wiring

All units with SmartVu controls can be connected to a CCN communication bus. See Table 3 for CCN wire specification.

Table 3 — CCN Wiring Specification

DESCRIPTION	Shielded, 3 conductor cable with drain wire, CM or CMP rated (as needed)
CONDUCTOR	Minimum 20 AWG, stranded copper (tin plated)
INSULATION	PVC (polyvinyl chloride), PVC/ nylon, vinyl, Teflon, or polyethylene
COLOR CODE	Red/White/Black
SHIELDING	Aluminum/polyester 100% foil shield
JACKET	PVC (polyvinyl chloride), PVC/ nylon, vinyl, Teflon, or polyethylene
TEMPERATURE	-4°F to 140°F (-20°C to 60°C) or higher, if required by application
VOLTAGE	Cable voltage must match the application

The CCN bus connection is made at a terminal board with screw terminals next to the touchscreen display in the control box. See Fig. 4 for CCN terminal board location.



Fig. 4 — 48/50V CCN Terminal Board Location

CCN devices are connected to the communication bus in a daisy chain arrangement. The positive pin of each system element communication connector must be wired to the positive pins of the CCN devices on either side of it. The negative and signal ground pins of each system element must also be wired in the same manner. See Fig. 5. for a typical daisy chain CCN bus wiring arrangement.

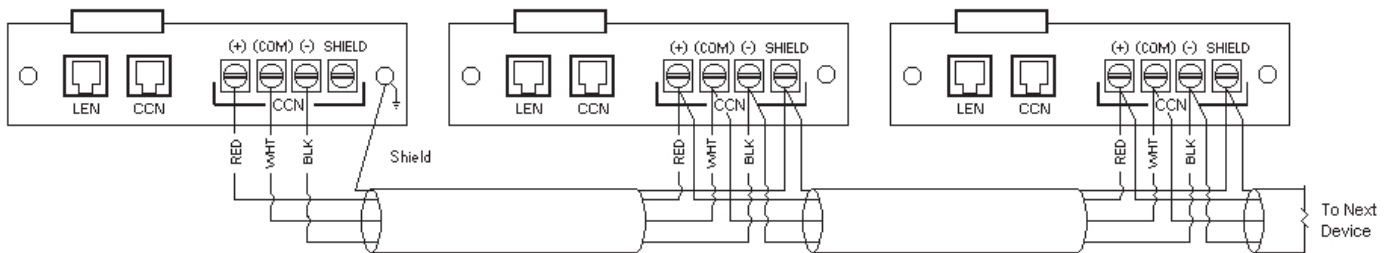


Fig. 5 — Typical CCN Bus Wiring

When connecting to a CCN communication bus, it is important that a color-coding scheme be used for the entire network to simplify the installation. It is recommended that red be used for the signal positive, black for the signal negative, and white for the signal ground. Use a similar scheme for cables containing different colored wires.

At each system element, the shields of its communication bus cables must be tied together. If the communication bus is entirely within one building, the resulting continuous shield must be connected to a ground at one point only. If the communication bus cable exits from one building and enters another, the shields must be connected to grounds at the lightning suppressor in each building where the cable enters or exits the building (one point per building only).

To connect the CCN wiring to the network:

1. Turn off power to the unit and unit controller.
2. Partially cut, then bend and pull off approximately 3 in. of the outer jacket of the cable(s). Do not nick the inner insulation.
3. Strip about 1/4 in. of the inner insulation from each wire.
4. Connect the red wire to (+) terminal, the white wire to COM terminal, and the black wire to the (–) terminal on the CCN terminal board (substitute appropriate colors for different colored cables).
5. Make sure that the wires are electrically isolated and make sure no more than 1/8-in. of the bare wire is exposed.
6. Connect the cable shield to the SHIELD terminal on the CCN terminal board or to a ground (if at the start or end of a bus or segment in a building. Twist both shields together if part of a daisy chain.

IMPORTANT: A shorted CCN bus cable will prevent some routines from running and may prevent the unit from starting. If abnormal conditions occur, disconnect the CCN bus. If conditions return to normal, check the CCN connector and cable. Run new cable if necessary. A short in one section of the bus can cause problems with all system elements on the bus.

Communication Configuration

CCN Communication configuration is done from the Controller Config screen, which will only show with user or higher access level. To access the Controller Config screen:

1. From the Home screen, press the login icon (🔑) to access the Login screen.
2. Login with the user access password (1111).
3. Press the unlock button (🔓) to accept the login and return to the Home screen.
4. From the Home screen, press the link for the Main Menu (☰).
5. From the Main Menu, press the Controller Config icon (⚙️) to go to the Controller Config screen.
NOTE: If the controller config screen does not show, then login may have failed. Try login again.
6. From the Controller Config screen, press the CCN configuration icon (📶) to go to the CCN Configuration screen. See Fig. 6 for the configuration screen layout.
7. Adjust the CCN configuration as needed. See Table 4 for CCN configuration parameters.
8. Once configuration is complete, click on the save icon (💾) to save configuration changes.

NOTE: A controller reboot may be required for some configuration changes to take effect.

9. Reboot or power cycle the controller.

CCN Configuration	
Primary BAS Protocol	CCN
CCN Address	1
CCN Bus	0
Baud Rate	9600
Broadcast Alerts	No
Schedule Number	0
Global Schedule Broadcast	OFF
Broadcast ACK	OFF
Time Broadcast	OFF

Fig. 6 — Typical CCN Configuration Screen

Table 4 — CCN Communication Configurations

NAME	DESCRIPTION
Primary BAS Network	Selects the BAS occupancy control. ^a NOTE: This configuration must be set to CCN to use a CCN schedule. If the primary BAS networks is set to None or CCN, then the local schedule must be set to a schedule number other than 0 to follow a configured schedule. Schedule 0 is occupied 24/7.
CCN Address	Selects the address of the device. NOTE: This address must be different from all other devices on the bus.
CCN Bus	Selects the network bus number.
Baud Rate	Selects the communication rate. Selectable between 9600, 19200, and 38400. NOTE: All devices on a bus should have the same baud rate.
Broadcast Alerts	When selected On, broadcasts the unit alerts and alarms to the CCN network.
Schedule Number	Selects the schedule number. NOTE(S): • Must change from 0 to a valid schedule number (1 or higher) for CCN schedule functionality. Otherwise the controller will be “always occupied.” • Global schedule broadcasters must have a schedule set between 65 and 99.
Global Schedule Broadcast	When selected On, the control broadcasts its schedule. NOTE: One, and only one, global schedule broadcaster is allowed per network. All other devices must have global schedule broadcast set to off.
Broadcast ACK	When selected On, the control acknowledges a time broadcast. NOTE: One, and only one, broadcast acknowledger is required per CCN bus. The time broadcaster cannot be the acknowledger.
Time Broadcast	When selected On, the control broadcast the unit time and date on the CCN bus once per minute. NOTE: Only one time broadcaster is allowed per bus.

NOTE(S):

- a. The network occupant point is not available with CCN.

Network Points

See Appendix A For CCN network points for software version 2.7.0. Contact your Carrier applied sales offices to obtain network points for older software versions.

NOTE: Not all network points will be available for every unit. Point availability will vary by model, unit type, size, and configuration.

BACNET MS/TP

Communication Wiring

All units with SmartVu controls can be connected to a BACnet MS/TP bus. See Table 5 for BACnet MS/TP wire specification.

Table 5 — BACnet MS/TP Wiring Specification

DESCRIPTION	Single twisted pair, low capacitance, CL2P, 22 AWG (7x30), TC foam FEP, plenum rated cable
CONDUCTOR	22 or 24 AWG stranded copper (tin plated)
INSULATION	Foamed FEP
COLOR CODE	Black/White
SHIELDING	Aluminum/Mylar shield with 24 AWG TC drain wire
JACKET	SmokeGard (SmokeGard PVC) • 0.021 in. (0.5334 mm) wall • 0.175 in. (4.445 mm) O.D. Halar (E-CTFE) • 0.010 in. (0.254 mm) wall • 0.144 in. (3.6576 mm) O.D.
RATING	CMP rated
TEMPERATURE	SmokeGard: 167°F (75°C) Halar: -40 to 302°F (-40 to 150°C)
VOLTAGE	300 vac, power limited
MAXIMUM LENGTH	2000 ft (610 m)

The BACnet MS/TP bus connection is made at the SmartVu touchscreen display at port J8. See Fig. 2 for SmartVu port layout and Table 1 for J8 port details.

NOTE: The J8 connector is field supplied. This connector can be either a Phoenix 1757035, Wago 231-304/026-000 or other equivalent connector.

The BACnet MS/TP device are connected to the communication bus in a daisy chain arrangement. The positive pin of each system element communication connector must be wired to the positive pins of the system elements on either side of it. The negative and signal ground pins of each system element must also be wired in the same manner. Wiring connections for BACnet MS/TP should be made at the J8 plug on the SmartVu display. See Fig. 7 for typical daisy chain MS/TP bus wiring arrangement.

The SmartVu control is locally biased. Do not use the SmartVu on a network segments with network biased equipment. Use a TERM485 on the last device on the networked biased segment of the network. The TERM485 device contains both the “end-of-line” resistor and a network biasing resistor.

NOTE: Do not use BACnet router “end-of-line” switches that add network biasing or “end-of-line” termination resistors. Use a termination resistor (e.g., TERM485) at the router when it is at the beginning or the end of a network segment.

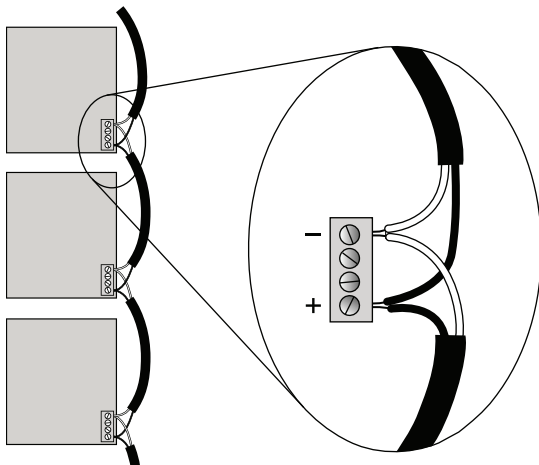


Fig. 7 — Typical BACnet MS/TP Bus Wiring

To connect the BACnet MS/TP wiring to the network:

1. Turn off power to the unit and unit controller.
2. Remove the plug from the J8 port on the touchscreen display.
3. Partially cut, then bend and pull off approximately 1 in. of the outer jacket of the cable(s). Do not nick the inner insulation.
4. Strip about 1/4 in. of the inner insulation from each wire.
5. Connect the white wire to (+) terminal and the black wire to the (-) terminal on the plug (substitute appropriate colors for different colored cables). Make sure that the wires are electrically isolated and make sure no more than 1/8 in. of the bare wire is exposed.
6. If the unit is the first or last node on the network, a termination resistor of 120 ohms should be wired across positive and negative terminals.
7. Connect the cable shield to the SHIELD terminal on the plug or to a ground (if at the start or end of a bus or segment in a building. Twist both shields together if part of a daisy chain. Do not connect the shield to the ground for the control power.
8. Re-insert the plug to the J8 port on the touchscreen display.

Communication Configuration

BACnet MS/TP Communication configuration is done from the Controller Config screen, which will only show with user or higher access level. To access the Controller Config screen:

1. From the Home screen, press the login icon (🔑) to access the Login screen.
2. Login with the user access password (1111).
3. Press the unlock button (🔓) to accept the login and return to the Home screen.
4. From the Home screen, press the link for the Main Menu (☰).
5. From the Main Menu, press the Controller Config icon (⚙️) to go to the Controller Config screen.

NOTE: If the controller config screen does not show, then login may have failed. Try login again.

6. Prior to setting up BACnet MS/TP, the J8 serial port must be configured for MS/TP. J8 serial port configuration is done from the Zone Sensor Config screen, press the Zone Sensor Config icon (🔧) from the Controller Config screen to go to the Zone Sensor Config screen. See Fig. 8 for Zone Sensor Config screen layout.
7. On the Zone Sensor Config Screen, set the Serial Port Config to “Modbus_J8_MSTP”. This sets port J10 to Modbus for internal device communication (VFDs, airflow monitor) and port J8 to MS/TP for BACnet communication.

IMPORTANT: The serial port config **MUST** be set to Modbus for J10 (ex: Modbus J8 MSTP or Modbus J8_RNET) for proper system operation. Make sure Modbus is listed in the configuration before J8 or else the system will not function properly.

8. After the Serial Port Config is set to “Modbus_J8_MSTP”, press the save button at the bottom of the screen (see Fig. 9). The Reboot button will appear at the bottom of the screen (see Fig. 10). You can continue with the BACnet MS/TP communication configuration and reboot once the configuration is done.
9. Press the back button (⬅️) from the Zone Sensor Config screen to get back to the Controller Config screen.

10. From the Controller Config screen, press the BACnet configuration icon (🏠) to go to the BACnet Configuration screen. See Fig. 10 for BACnet config screen layout.
11. On the BACnet Config screen, verify that the Serial Port Config is set to J8 BACnet MS/TP. If not, repeat steps 6-8. Initiate a reboot if the serial port config does not update.
12. Adjust the BACnet configuration as needed. See Table 6 for BACnet configuration parameters.
13. Once configuration is complete, click on the save icon (💾) to save configuration changes before leaving the screen.

NOTE: A controller reboot may be required for some configuration changes to take effect. Press the Reboot button at the bottom of the screen to initiate a reboot. See Fig. 10.

Index	Sensor Address [0-14] (-1 to disable)
1	-1
2	-1
3	-1
4	-1
5	-1

Fig. 8 — Zone Sensor Configuration Screen (Modbus_J8_MSTP)

Primary BAS Protocol	BACnet
BACnet Enable	MS/TP
Serial Port Config	J8 Bacnet/MSTP
Metric Units	No
Network	16101
Identifier	1610101
Percentage Conversion	0.00-1.00
Ethernet Adapter	eth0 (right)
UDP Port	47808

Fig. 9 — BACnet Configuration Screen (J8 Bacnet/MSTP)

Primary BAS Protocol	BACnet
BACnet Enable	MS/TP
Serial Port Config	J8 Bacnet/MSTP
Metric Units	No
Network	16101
Identifier	1610101
Percentage Conversion	0.00-1.00
Ethernet Adapter	eth0 (right)
UDP Port	47808

Fig. 10 — BACnet Configuration Screen (J8 Bacnet/MSTP) — Reboot

Table 6 — BACnet MS/TP Communication Configurations

NAME	DESCRIPTION
Primary BAS Network	Selects the BAS occupancy control. NOTE: This configuration must be set to BACnet to use a BACnet occupancy schedule or the Network Occupancy point. ^{a,b}
BACnet Enable	Selects the type of BACnet communication. NOTE: This configuration must be set at MS/TP for BACnet MS/TP.
Serial Port Config	Selects the configuration of the J8 port. Selectable between MS/TP, Modbus, and Rnet. Must be set to MS/TP for BACnet MS/TP communication. NOTE: Modbus BAS communication is not supported by SmartVu.
MS/TP MAC Address	Assigns the desired MAC address for your network segment. Each device on the segment must have a unique MAC address. NOTE: A best practice is for MAC addresses to be sequential on a segment.
MS/TP Baud Rate	Assign desired baud rate for the network. The maximum number of nodes per segment is determined by the baud rate. 32 nodes are allowed on a 76,800 baud network and 16 nodes are allowed on a 38,400 baud network.
Max Masters	Recommended to be set at 127 on most networks.
MS/TP Max Info Frames	Recommended to be set no higher than 20.
Metric Units	Selects the units type. Selectable between "No" for imperial units and "Yes" for metric units.
Network	Selects the network or subnet of the device. NOTE: This network must match the main network number for MS/TP.
Identifier	Selects the address of the device. The identifier does not need to be adjusted after the MAC address is assigned. NOTE: This address must be different from all other devices on the bus.
Percentage Conversion	Selects the method of communicating percentages. Selectable between 0.00-1.00 for decimal or 0-100 for percentage.

NOTE(S):

- a. If network values are not broadcast every 10 minutes (default network input timeout, service adjustable up to 30 minutes), the system will assume network communication loss.
- b. Occupancy must be re-broadcast to restart unit occupancy after a power cycle.

Network Points

See Appendix A for BACnet network points for software version 2.7.0. Contact your Carrier applied sales offices to obtain network points for older software versions.

NOTE: Not all network points will be available for every unit. Point availability will vary by model, unit type, size, and configuration.

BACNET IP

Communication Wiring

All units with SmartVu controls can be connected to a BACnet IP bus. See Table 7 for BACnet IP wire specification.

Table 7 — BACnet IP Cable Specification

DESCRIPTION	CAT5e or higher Ethernet cable
RATING	CM or CMP rated, as required
MAXIMUM LENGTH	328 ft (100 m)

The BACnet IP cable connection is made at the SmartVu touch-screen display at Ethernet 0 (J15) or Ethernet 1 (J16). See Fig. 2 for SmartVu port layout and Table 1 for ethernet port details. The Ethernet cable can be plugged into the SmartVu control while the controller is powered. Ethernet pass through is not supported.

Communication Configuration

BACnet IP Communication configuration is done from the Controller Config screen, which will only show with user or higher access level. To access the Controller Config screen:

1. From the Home screen, press the login icon (🔑) to access the Login screen.
2. Login with the user access password (1111) .
3. Press the unlock button (🔓) to accept the login and return to the Home screen.
4. From the Home screen, press the link for the Main Menu (☰).
5. From the Main Menu, press the Controller Config icon (⚙️) to go to the Controller Config screen.

NOTE: If the controller config screen does not show, then login may have failed. Try login again.

6. From the Controller Config screen, press the Gateway/DNS icon (🌐) to go to the Gateway/DNS IP configuration screen. See Fig. 11 for Gateway IP screen and Fig. 12 for DNS IP screen layout.

Fig. 11 — Typical Gateway IP Configuration Screen

Fig. 12 — Typical DNS IP Configuration Screen

7. Adjust the Gateway and DNS configuration as needed. See Table 8 for Gateway/DNS IP configuration parameters.
NOTE: Only Gateway IP 2 and DNS IP 2 are utilized.
8. Once configuration is complete, click on the dropdown that says “Not Applied” and select “Applied” to save configuration changes before leaving the screen. Verify the status changes applied successfully.
9. Press the Back button twice (⬅️) to go back to the Controller Config screen.
10. From the Controller Config screen, press the ethernet configuration icon (🌐) to go to the Ethernet Configuration screen. See Fig. 13-14 for Ethernet Screen layout.

Fig. 13 — Typical Ethernet 0 Configuration Screen

Fig. 14 — Typical Ethernet 1 Configuration Screen

11. Adjust the Ethernet configuration as needed. See Table 9 for Ethernet configuration parameters.
12. Once configuration is complete, click on the dropdown that says “Not Applied” and select “Apply” to save configuration changes before leaving the screen. Verify the status changes applied successfully.
13. Press the Back button twice (⬅️) to go back to the Controller Config screen.
14. From the Controller Config screen, press the BACnet configuration icon (🌐) to go to the BACnet Configuration screen. See Fig. 15 for BACnet configuration screen layout.

BACnet Configuration	
Primary BAS Protocol	BACnet
BACnet Enable	BACnet IP
Serial Port Config	0
Metric Units	Yes
Network	16101
Identifier	1610101
Percentage Conversion	0.00-1.00
Ethernet Adapter	eth0 (right)
UDP Port	47808

Fig. 15 — Typical BACnet IP Configuration Screen

- Adjust the BACnet configuration as needed. See Table 10 for BACnet configuration parameters.
- Once configuration is complete, click on the save icon (💾) to save configuration changes before leaving the screen.

NOTE: After the IP configuration and selection for BACnet IP are made the PIC must be rebooted for the IP configurations to be applied. After a reboot, ping the controller. When you can ping the controller successfully and find the BACnet device or PIC at that IP, check to make sure the identity sent to a “Who is” command is the same. Otherwise, wait until the PIC is pinged and responds as a BACnet device as the assigned IP on either ethernet connector (it may be necessary to cycle the power). Proceed with BACnet discovery over that ethernet connector.

Table 8 — Gateway/DNS IP Configurations

NAME	DESCRIPTION
Gateway 2 IP	Selects the gateway IP address.
Gateway 2 Mask	Selects the gateway 2 subnet mask. The gateway setting can allow both ports to be pinged from one ethernet connector, but not from the other, when the same subnets are used for both eth0 and eth1.
DNS IP 2	Selects the domain name service IP address.

Table 9 — Ethernet IP Configurations

NAME	DESCRIPTION
Set IP	Selects the control IP address.
Set Net Mask	Selects the control subnet mask.

Table 10 — BACnet IP Communication Configurations

NAME	DESCRIPTION
Primary BAS Network	Selects the BAS occupancy control. NOTE: This configuration must be set to BACnet to use a BACnet occupancy schedule or the Network Occupancy point. ^{a,b}
BACnet Enable	Selects the type of BACnet communication. NOTE: This configuration must be set at BACnet IP for BACnet IP.
Metric Units	Selects the units type. Selectable between “No” for imperial units and “Yes” for metric units.
Percentage Conversion	Selects the method of communicating percentages. Selectable between 0.00-1.00 for decimal or 0-100 for percentage.
Ethernet Adapter	Selects which ethernet port to use for BACnet IP. Selectable between Ethernet 0 (right side if touchscreen) or Ethernet 1 (bottom of touchscreen).
UDP Port	Selects the user datagram protocol for BACnet. Default UDP port for BACnet is 47808.
BACnet Mgmt Device	Selects the BACnet management device. Selectable between None, Foreign Device, and BACnet Broadcast Management Device (BBMD).
BBMD Address	Selects the BBMD address.
BBMD Time to Live	Selects how long a device can stay registered (in seconds) with the BBMD.

NOTE(S):

- If network values are not broadcast every 10 minutes (default network input timeout, service adjustable up to 30 minutes), the system will assume network communication loss.
- Occupancy must be re-broadcast to restart unit occupancy after a power cycle.

Network Points

See Appendix A for BACnet network points for software version 2.7.0. Contact your Carrier applied sales offices to obtain network points for older software versions.

NOTE: Not all network points will be available for every unit. Point availability will vary by model, unit type, size, and configuration.

Network Input Timeout

The network input timeout (default 10 minutes, service adjustable up to 30 minutes) will determine communication loss and will revert to local inputs if the network values are not written within the network timeout time.

Network Occupancy

The network occupancy point can only be used with BACnet communication. The network occupancy must be written after a power cycle to resume occupancy.

RNET

Communication Wiring

Units with SmartVu control can be connected to an Rnet if BACnet MS/TP communication is not being utilized. See Table 11 for Rnet wire specification. Refer to the ZS sensor installation guide or the Equipment Touch installation guide for additional wiring and details.

Table 11 — Rnet Wiring Specification

Description	4 conductor, shielded or unshielded, CMP, plenum rated cable.
Conductor	22 AWG (7x0096) bare copper
Insulation	Low-smoke PVC (or equivalent)
Color code	Black, white, green, red
Shielding	If shielded, Aluminum/Mylar shield (100% coverage) with TC drain wire
Listing	UL: NEC CL2P, or better
Temperature	32–167°F (0–75°C)
Voltage	300 Vac, power limited
Maximum length	500 feet (152 meters)

An accessory Rnet Harness Kit (accessory part number CRRNETPH001A00) is available to provide 12V power for ZS sensors and a quick connect terminal in the plug panel. See the Rnet Harness Kit accessory installation guide for details.

Without the accessory Rnet power harness, the Rnet connection is made at the SmartVu touchscreen display at port J8. See Fig. 2 for SmartVu port layout and Table 1 for J8 port details.

NOTE: The J8 connector is field supplied. This connector can be either a Phoenix 1757035, Wago 231-304/026-000 or other equivalent connector.

An external 12V power supply is required for ZS sensors. 24V power is available in the control panels at terminal block 4 (TB4) terminals R and C (24VAC) and terminal block 5 (TB5) terminal 10 (24VDC) to power an Equipment Touch device. See Fig. 16 for typical PCI 6.1 Rnet sensor wiring arrangement without the Rnet harness accessory.

TO CONNECT RNET WIRING TO THE PIC 6.1

1. Turn off power to the unit and unit controller.
2. Remove the plug from the J8 port on the touchscreen display.
3. Partially cut, then bend and pull off approximately 1 in. of the outer jacket of the cable(s). Do not nick the inner insulation.
4. Strip about 1/4 in. of the inner insulation from each wire.
5. Connect the white wire to (+) terminal and the black wire to the (–) terminal on the plug (substitute appropriate colors for different colored cables). Make sure that the wires are electrically isolated and make sure no more than 1/8 in. of the bare wire is exposed.
6. If the unit is the first or last node on the network, a termination resistor of 120 ohms should be wired across positive and negative terminals.
7. Connect the cable shield to the SHIELD terminal on the plug or to a ground (if at the start or end of a bus or segment in a building. Twist both shields together if part of a daisy chain. Do not connect the shield to the ground for the control power.
8. Re-insert the plug to the J8 port on the touchscreen display.

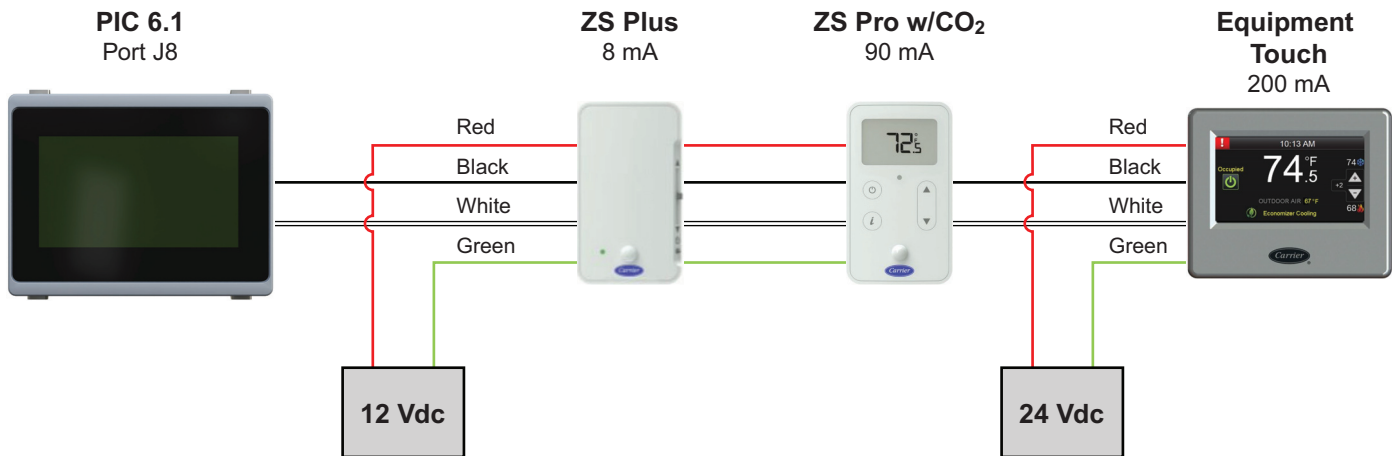


Fig. 16 — PIC 6.1 Typical Rnet Wiring

Communication Configuration

Rnet communication configuration is done from the Controller Config screen, which will only show with user or higher access level. To access the Controller Config screen:

1. From the Home screen, press the login icon (🔑) to access the Login screen.
2. Login with the user access password (1111).
3. Press the unlock button (🔓) to accept the login and return to the Home screen.
4. From the Home screen, press the link for the Main Menu (☰).
5. From the Main Menu, press the Controller Config icon (⚙️) to go to the Controller Config screen.

NOTE: If the controller config screen does not show, then login may have failed. Try login again.

6. From the Controller Config screen, press the Zone Sensor Config icon (🌡️) to go to the Zone Sensor Config screen. Note: the Zone Sensor Config icon is on the second page of the Controller Config screen. Press the down arrow on the bottom right of the screen to get to the second page. See Fig. 17 for Zone Sensor Config screen layout.
7. On the Zone Sensor Config Screen, set the Serial Port Config to “Modbus_J8_RNET”. This sets port J10 to Modbus for internal device communication (VFDs, airflow monitor) and port J8 to Rnet for communicating sensors.

IMPORTANT: The serial port config MUST be set to Modbus for J10 (ex: Modbus_J8_MSTP or Modbus_J8_RNET) for proper system operation. Make sure Modbus is listed in the configuration before J8 or else the system will not function properly.

8. Set the addresses for sensor index 1-5. Setting the address to –1 disables the sensor index. See Table 12 for Zone Sensor configuration parameters.
9. Use Zone Sensor Config screens 2-6 to select the sensors and the system behavior for temperature, relative humidity, CO₂, motion, and space temperature offset readings. See Fig. 18 for sensor temperature configuration screen example.
10. Once configuration is complete, click on the save icon (💾) to save configuration changes before leaving the screen.
11. Power cycle or reboot the controller to ensure the configuration changes take effect.

NOTE: A controller reboot may be required for some configuration changes to take effect. Make all required configuration changes prior to rebooting, to reduce rebooting frequency. Press the Reboot button at the bottom of the screen to initiate a reboot. See Fig. 10 for an example of a Reboot button location.

Index	Sensor Address [0-14] (-1 to disable)
1	0
2	-1
3	-1
4	-1
5	-1

Fig. 17 — Zone Sensor Configuration Screen

Fig. 18 — Zone Temperature Sensor Configuration Screen

Table 12 — Zone Sensor Configurations

NAME	DESCRIPTION
Serial Port Config	Selects the configuration of the J8 port. NOTE: This configuration must be set to MODBUS_J8_RNET for Rnet sensors. IMPORTANT: Do not use MODBUS_J8, MODBUS, MSTP_J8, MODBUS, or RNET_J8_MSTP configurations.
Sensor Address	Enter the sensor address for the associated sensor index. The sensor address can be 0-14 and must match the address dip switch setting on the sensor. Every sensor on the Rnet must have a different address. NOTE: Enter –1 to disable the sensor.
Index Enable	Selects if the system will use the indexed sensor reading for temperature, humidity, CO ₂ , space temperature offset, and motion. Check below the sensor index number to use the sensor value and uncheck to not use the sensor value. NOTE: The sensor functions are listed at the top of the screen.
Combination Algorithm	When using more than one sensor, this configuration determines what value the system uses: Minimum – the lowest sensor value. Maximum – the highest sensor value. Average – average of all of the sensor values.
Show on Sensors	Indicates what value the local sensor will display. Local value – shows the local sensor value. Calculated – shows the system calculated value from the combination algorithm.
Input Smoothing	If the raw value from the sensor(s) changes frequently, you can select one of the following options to send out an average of readings. None – raw output. Minimum – average of the last 2 readings. Medium – average of the last 5 readings. Maximum – average of the last 9 readings.

APPENDIX A — BACNET AND CCN NETWORK POINTS

NOTE: This network points list is for software version 2.7.0. Contact your local Carrier applied sales office for network points for older software versions.

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COV/NC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Air Pressures	Return Air Pressure	RAP	AIRPRESS RAP	AV	1	Type 6	0	No	0	-1	1	IN_H2O	
Air Pressures	Supply Pressure (SP)	SDP	AIRPRESS_SDP	AV	2	Type 6	0	No	0	—	—	IN_H2O	
Air Pressures	Building Pressure (BP)	BP	AIRPRESS_BP	AV	3	Type 6	0	No	0	—	—	IN_H2O	
Air Temperatures	Supply Air Temp (SAT)	SAT	AIRTEMP SAT	AV	4	Type 6	0	No	0	—	—	DEGREE_F	
Air Temperatures	Supply Air Temp Offset	SATO	AIRTEMP SATO	AV	5	Type 6	0	No	0	—	—	DEGREE_F	
Air Temperatures	Return Air Temp (RAT)	RAT	AIRTEMP_RAT	AV	6	Type 6	0	No	0	—	—	DEGREE_F	
Air Temperatures	Space Temp (SPT)	SPT	AIRTEMP SPT	AV	7	Type 6	0	No	0	—	—	DEGREE_F	
Air Temperatures	Space Temp Offset	SPTO	AIRTEMP SPTO	AV	8	Type 6	0	No	0	—	—	DEGREE_F	
Air Temperatures	Outside Air Temp (OAT)	OAT	AIRTEMP_OAT	AV	9	Type 6	0	No	0	—	—	DEGREE_F	
Air Temperatures	Mixed Air Temp (MAT)	MAT	AIRTEMP_MAT	AV	10	Type 6	0	No	0	—	—	DEGREE_F	
Air Temperatures	Exhaust Air Temp (EAT)	EAT	AIRTEMP_EAT	AV	11	Type 6	0	No	0	—	—	DEGREE_F	
Air Temperatures	Staged Gas Limit Temp	LST	AIRTEMP_LST	AV	12	Type 6	0	No	0	—	—	DEGREE_F	
Air Temperatures	Staged Gas LAT	LAT	AIRTEMP_LAT	AV	13	Type 6	0	No	0	—	—	DEGREE_F	
Air Temperatures	Effective Control Point	EFF_CP	AIRTEMP_EFF_CP	AV	14	Type 6	0	No	0	—	—	DEGREE_F	
Air Temperatures	Direct Expansion LAT	DXLAT	AIRTEMP_DXLAT	AV	15	Type 6	0	No	0	—	—	DEGREE_F	
Air Temperatures	Outside Air Dew Point	OADP	AIRTEMP_OADP	AV	120	Type 6	0	No	0	—	—	DEGREE_F	
Air Temperatures	Supply Air Dew Point	SADP	AIRTEMP_SADP	AV	123	Type 6	0	No	0	—	—	DEGREE_F	
Alarm	Alarm Reset	RST_ALM	ALARMRST_RST_ALM	BV	1	Type 4	0	Yes	0	0	1	NO_UNIT	0=NO 1=YES
Alert Configs	SPRH High Limit	SPRHHL	ALERTCFG_SPRHHL	AV	16	Type 6	0	Yes	80	0	100	PERCENT	
Alert Configs	SPRH Low Limit	SPRHLL	ALERTCFG_SPRHLL	AV	17	Type 6	0	Yes	20	0	100	PERCENT	
Alert Configs	SPT Low Occu Limit	SPTLLMT	ALERTCFG_SPTLLMT	AV	18	Type 6	0	Yes	60	-10	245	DEGREE_F	
Alert Configs	SPT High Occu Limit	SPTHLMT	ALERTCFG_SPTHLMT	AV	19	Type 6	0	Yes	85	-10	245	DEGREE_F	
Alert Configs	SPT Low Unoc Limit	SPTLLMTU	ALERTCFG_SPTLLMTU	AV	20	Type 6	0	Yes	45	-10	245	DEGREE_F	
Alert Configs	SPT High Unoc Limit	SPTHLMTU	ALERTCFG_SPTHLMTU	AV	21	Type 6	0	Yes	100	-10	245	DEGREE_F	
Alert Configs	SAT Low Occu Limit	SATLLMT	ALERTCFG_SATLLMT	AV	22	Type 6	0	Yes	40	0	45	DEGREE_F	
Alert Configs	SAT High Occu Limit	SATHLMT	ALERTCFG_SATHLMT	AV	23	Type 6	0	Yes	130	105	160	DEGREE_F	
Alert Configs	SAT Low Unoc Limit	SATLLMTU	ALERTCFG_SATLLMTU	AV	24	Type 6	0	Yes	40	0	45	DEGREE_F	
Alert Configs	SAT High Unoc Limit	SATHLMTU	ALERTCFG_SATHLMTU	AV	25	Type 6	0	Yes	130	105	160	DEGREE_F	
Alert Configs	RAT Low Occu Limit	RATLLMT	ALERTCFG_RATLLMT	AV	26	Type 6	0	Yes	60	-40	245	DEGREE_F	
Alert Configs	RAT High Occu Limit	RATHLMT	ALERTCFG_RATHLMT	AV	27	Type 6	0	Yes	90	-40	245	DEGREE_F	
Alert Configs	RAT High Unoc Limit	RATHLMTU	ALERTCFG_RATHLMTU	AV	28	Type 6	0	Yes	100	-40	245	DEGREE_F	
Alert Configs	RAT Low Unoc Limit	RATLLMTU	ALERTCFG_RATLLMTU	AV	29	Type 6	0	Yes	40	-40	245	DEGREE_F	
Alert Configs	RARH Low Limit	RARH_LT	ALERTCFG_RARH_LT	AV	30	Type 6	0	Yes	0	0	100	PERCENT	
Alert Configs	RARH High Limit	RARH_HT	ALERTCFG_RARH_HT	AV	31	Type 6	0	Yes	100	0	100	PERCENT	
Alert Configs	SP Low Limit	SP_LLMT	ALERTCFG_SP_LLMT	AV	32	Type 6	0	Yes	0.1	0	0.5	IN_H2O	
Alert Configs	SP High Limit	SP_HLMT	ALERTCFG_SP_HLMT	AV	33	Type 6	0	Yes	2	1.5	2.2	IN_H2O	
Alert Configs	BP Low Limit	BP_LLMT	ALERTCFG_BP_LLMT	AV	34	Type 6	0	Yes	-0.1	-0.15	0	IN_H2O	
Alert Configs	BP High Limit	BP_HLMT	ALERTCFG_BP_HLMT	AV	35	Type 6	0	Yes	0.1	0	0.15	IN_H2O	
Alert Configs	SAT Low Limit Alert	SAT_LTMP	ALERTCFG_SAT_LTMP	AV	36	Type 6	0	Yes	45	0	50	DEGREE_F	
Alert Configs	SAT High Limit	SAT_HTMP	ALERTCFG_SAT_HTMP	AV	37	Type 6	0	Yes	130	105	160	DEGREE_F	
Alert Configs	OAT Low Limit	OAT_LLMT	ALERTCFG_OAT_LLMT	AV	38	Type 6	0	Yes	-40	—	—	DEGREE_F	
Alert Configs	OAT High Limit	OAT_HLMT	ALERTCFG_OAT_HLMT	AV	39	Type 6	0	Yes	150	—	—	DEGREE_F	
Alert Configs	IAQ High Limit	IAQ_HLMT	ALERTCFG_IAQ_HLMT	AV	40	Type 6	0	Yes	1200	0	5000	PPM	
Alert Configs	Pre-Filter Change Time	MAINFLT	ALERTCFG_MAINFLT	AV	41	Type 6	0	Yes	2000	168	8760	HOURS	
Alert Configs	Pre-Filter Source	PFLTRSRC	GENUNIT_PREFLTR_SRC	AV	42	Type 6	0	Yes	0	0	3	NO_UNIT	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Alert Configs	Pre-Filter Press Limit	PFLTRLIM	GENUNIT_PREFLTR_LIM	AV	43	Type 6	0	Yes	1.5	0.5	5	IN_H2O	
Alert Configs	Outdoor Air CFM	OCFMSSENS	ALERTCFG_OCFMSSENS	AV	55	Type 6	0	Yes	0	0	1	CFM	
Alert Configs	OAD Min CFM	ECMINCFM	ALERTCFG_ECMINCFM	AV	56	Type 6	0	Yes	0	—	—	CFM	
Alert Configs	Final Filter Reminder	POSTFL	ALERTCFG_POSTFL	AV	59	Type 6	0	Yes	2880	0	43200	NO_UNIT	
Alert Configs	Final Filter Change Time	FFLTCHG	FFLTCHG	AV	614	Type 6	0	Yes	2000	168	8760	HOURS	
Alert Configs	Final Filter Source	FFLTSRC	FFLTSRC	AV	615	Type 6	0	Yes	0	0	2	NO_UNIT	
Alert Configs	Final Filter Press Limit	FFLTLM	FFLTLM	AV	616	Type 6	0	Yes	1.5	0.5	5	IN_H2O	
Alert Configs	RAP Low Limit	LOLIM	RAP_LOLIM	AV	631	Type 6	0	Yes	0	0	3	IN_H2O	
Alert Configs	RAP High Limit	HILIM	RAP_HILIM	AV	632	Type 6	0	Yes	2	0	3	IN_H2O	
Alert Configs	SAT Low Limit Alarm	SAT_LTMA	ALERTCFG_SAT_LTMA	AV	688	Type 6	0	Yes	35	0	50	DEGREE_F	
Analog Inputs	Outdoor Air CFM	OACFM	ANALOGIN_OACFM	AV	111	Type 6	0	No	0	—	—	CFM	
Analog Inputs	Outdoor Air CFM Reset	OACFMRST	ANALOGIN_OACFMRST	AV	112	Type 6	0	No	0	—	—	CFM	
Analog Inputs	OAD 3rd Party Modulation	OD3P_CMD	ANALOGIN_OD3P_CMD	AV	113	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	EXF 3rd Party Modulation	EF3P_CMD	ANALOGIN_EF3P_CMD	AV	114	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	IDF 3rd Party Modulation	SF3P_CMD	ANALOGIN_SF3P_CMD	AV	115	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	IAQ OAD Pos Reset	IAQOPRST	ANALOGIN_IAQOPRST	AV	116	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	Indoor Air Quality	IAQOPRST	ANALOGIN_IAQ	AV	117	Type 6	0	No	0	—	—	PPM	
Analog Inputs	Outdoor Air Quality	OAQ	ANALOGIN_OAQ	AV	118	Type 6	0	No	2000	—	—	PPM	
Analog Inputs	Outdoor Air RH (OARH)	OARH	ANALOGIN_OARH	AV	119	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	Return Air RH (RARH)	RARH	ANALOGIN_RARH	AV	121	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	Supply Air RH (SARH)	SARH	ANALOGIN_SARH	AV	122	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	Space RH (SPRH)	SPRH	ANALOGIN_SPRH	AV	124	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	Zone Damper Position	ZDP	ANALOGIN_ZDP	AV	126	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	OAD Feedback	DAMPPOS	ANALOGIN_DAMPPOS	AV	127	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	RAD Feedback	DAMPPOS2	ANALOGIN_DAMPPOS2	AV	128	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	HGRH Valve Feedback	HMD	ANALOGIN_HMD	AV	129	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	HGRH Valve 2 Feedback	HMD2	ANALOGIN_HMD2	AV	130	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	Comp A1 Speed	CMPA1SPD	ANALOGIN_CMPA1SPD	AV	131	Type 6	0	No	0	—	—	HZ	
Analog Inputs	Comp A2 Speed	CMPA2SPD	ANALOGIN_CMPA2SPD	AV	132	Type 6	0	No	0	—	—	HZ	
Analog Inputs	Comp B1 Speed	CMPB1SPD	ANALOGIN_CMPB1SPD	AV	133	Type 6	0	No	0	—	—	HZ	
Analog Inputs	Comp B2 Speed	CMPB2SPD	ANALOGIN_CMPB2SPD	AV	134	Type 6	0	No	0	—	—	HZ	
Analog Inputs	CF 1 Speed	ODF1SPD	ANALOGIN_ODF1SPD	AV	135	Type 6	0	No	0	—	—	HZ	
Analog Inputs	CF 2 Speed	ODF2SPD	ANALOGIN_ODF2SPD	AV	136	Type 6	0	No	0	—	—	HZ	
Analog Inputs	CF 3 Speed	ODF3SPD	ANALOGIN_ODF3SPD	AV	137	Type 6	0	No	0	—	—	HZ	
Analog Inputs	IDF Speed	IDFSPD	ANALOGIN_IDFSPD	AV	138	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	IDF Speed RPM	IDFRPM	ANALOGIN_IDFRPM	AV	139	Type 6	0	No	0	—	—	RPM	
Analog Inputs	Exhaust Fan Speed	EFSPD	ANALOGIN_EFSPD	AV	140	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	EXV A1	EXV_A1	ANALOGIN_EXV_A1	AV	141	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	EXV A2	EXV_A2	ANALOGIN_EXV_A2	AV	142	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	EXV B1	EXV_B1	ANALOGIN_EXV_B1	AV	143	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	EXV B2	EXV_B2	ANALOGIN_EXV_B2	AV	144	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	Static Pressure Stp1 Rst	SPSR	ANALOGIN_SPSR	AV	145	Type 6	0	No	0	-1	5	IN_H2O	
Analog Inputs	Demand Limit Control	DLC	ANALOGIN_DLC	AV	146	Type 6	0	No	0	—	—	NO_UNIT	
Analog Inputs	Filter Press Drop	FILTRPD	ANALOGIN_FILTERPD	AV	148	Type 6	0	No	0	—	—	IN_H2O	
Analog Inputs	Outdoor Air Enthalpy	OA_ENTH	ANALOGIN_OA_ENTH	AV	149	Type 6	0	No	0	—	—	BTU_LB	
Analog Inputs	Return Air Enthalpy	RA_ENTH	ANALOGIN_RA_ENTH	AV	150	Type 6	0	No	0	—	—	BTU_LB	
Analog Inputs	ERV Bypass Damper 1 Pos	ERVBPOS1	ANALOGIN_ERVBPOS1	AV	612	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	ERV Bypass Damper 2 Pos	ERVBPOS2	ANALOGIN_ERVBPOS2	AV	613	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	Exhaust Air Damper Fdbk	EADFDBK	ANALOGIN_EADFDBK	AV	618	Type 6	0	No	0	0	100	PERCENT	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Analog Inputs	EAD 3rd Party Modulation	EAD3P	ANALOGIN_EAD3P	AV	633	Type 6	0	No	0	0	100	PERCENT	
Analog Inputs	RF 3rd Party Modulation	RF3P_CMD	ANALOGIN_RF3P_CMD	AV	634	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	OAD Command	DAMPCMD	ANALGOUT_DAMPCMD	AV	92	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	RAD Cmd	DAMPCMD2	ANALGOUT_DAMPCMD2	AV	93	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	Actual heat command	HEATCMD	ANALGOUT_HEATCMD	AV	94	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	HGRH Command	HMV	ANALGOUT_HMV	AV	95	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	HGRH 2 Command	HMV2	ANALGOUT_HMV2	AV	96	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	Exhaust Fan Cmd	EFCMD	ANALGOUT_EFCMD	AV	97	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	ERV Outdoor Air Fan	ERV_OAF	ANALGOUT_ERV_OAF	AV	98	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	Comp A1 Command	CMPA1CMD	ANALGOUT_CMPA1CMD	AV	99	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	Comp A2 Command	CMPA2CMD	ANALGOUT_CMPA2CMD	AV	100	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	Comp B1 Command	CMPB1CMD	ANALGOUT_CMPB1CMD	AV	101	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	Comp B2 Command	CMPB2CMD	ANALGOUT_CMPB2CMD	AV	102	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	IDF1 Control Command	IDFCMD	ANALGOUT_IDFCMD	AV	103	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	CF 1 Command	ODF1CMD	ANALGOUT_ODF1CMD	AV	104	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	CF 2 Command	ODF2CMD	ANALGOUT_ODF2CMD	AV	105	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	CF 3 Command	ODF3CMD	ANALGOUT_ODF3CMD	AV	106	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	EXV A1 Cmd	EXVA1CMD	ANALGOUT_EXVA1CMD	AV	107	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	EXV A2 Cmd	EXVA2CMD	ANALGOUT_EXVA2CMD	AV	108	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	EXV B1 Cmd	EXVB1CMD	ANALGOUT_EXVB1CMD	AV	109	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	EXV B2 Cmd	EXVB2CMD	ANALGOUT_EXVB2CMD	AV	110	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	EXV A1 Objective	EXVA1OBJ	OUTPUTS_EXVA1OBJ	AV	523	Type 6	0	No	0	—	—	NO_UNIT	
Analog Outputs	EXV A2 Objective	EXVA2OBJ	OUTPUTS_EXVA2OBJ	AV	524	Type 6	0	No	0	—	—	NO_UNIT	
Analog Outputs	EXV B1 Objective	EXVB1OBJ	OUTPUTS_EXVB1OBJ	AV	525	Type 6	0	No	0	—	—	NO_UNIT	
Analog Outputs	EXV B2 Objective	EXVB2OBJ	OUTPUTS_EXVB2OBJ	AV	526	Type 6	0	No	0	—	—	NO_UNIT	
Analog Outputs	ERV Bypass Damper Cmd	ERVBPCMD	ANALGOUT_ERVBPCMD	AV	611	Type 6	0	No	0	0	100	PERCENT	
Analog Outputs	Exhaust Air Damper Cmd	EADCMD	ANALGOUT_EADCMD	AV	617	Type 6	0	No	0	0	100	PERCENT	
BACnet	Operation Status Color	NA	BACNET_ALC_COLOR	MV	27	Type 5	0	No	—	1	—	NO_UNIT	1=GRAY 2=RED 3=DARKBLUE 4=LIGHTBLUE 5=GREEN 6=LIGHTGREEN 7=YELLOW 8=ORANGE 9=RED 10=WHITE 11=NONE 12=NONE 13=CORAL 14=CHARCOAL 15=PURPLE
BACnet	Sched Linked BACnet Obj	NA	BACNET_SCH_Obj	AV	294	Type 6	0	No	0	0	1	NO_UNIT	
BACnet	Value of Prime variable	NA	BACNET_ALC_PRIME	AV	573	Type 6	0	No	0	-999999	999999	DEGREE_F	
BACnet	BACNET_ovr_ext	BACOVREX	BACNET_ovr_ext	AV	610	Type 6	0	Yes	0	0	600	MINUTES	
Cooling Config	Cool Tempered Venting	TMPDVNT	COOLCFG_TMPDVNT	BV	7	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Cooling Config	Cool/Heat Demand Source	DEMAND	COOLCFG_DEMAND	AV	186	Type 6	0	Yes	3	0	5	NO_UNIT	
Cooling Config	Vent Deadband	SPLYDB	COOLCFG_SPLYDB	AV	187	Type 6	0	Yes	15	10	30	DEGREE_F	
Cooling Config	SAT Reset Source	TPCTLRST	COOLCFG_TPCTLRST	AV	188	Type 6	0	Yes	0	0	5	NO_UNIT	
Cooling Config	SAT Reset Ratio	RSTRATIO	COOLCFG_RSTRATIO	AV	189	Type 6	0	Yes	3	0	10	NO_UNIT	
Cooling Config	SAT Reset Limit	RSTLMIT	COOLCFG_RSTLMIT	AV	190	Type 6	0	Yes	10	0	20	NO_UNIT	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Cooling Config	Cool Trend Level	CLTREND	COOLCFG_CLTREND	AV	191	Type 6	0	Yes	0.2	0.1	5	DEGREE_F	
Cooling Config	Cool Trend Time	CLTNDTM	COOLCFG_CLTNDTM	AV	192	Type 6	0	Yes	2	1	5	MINUTES	
Cooling Config	Cool Heat Gap Config	GAP_CLHT	COOLCFG_GAP_CLHT	AV	193	Type 6	0	Yes	5	2	10	DEGREE_F	
Cooling Config	TC Start Cool Factor	TCSTCOOL	SERVICE_TCSTCOOL	AV	194	Type 6	0	Yes	0	0	60	NO_UNIT	
Cooling Config	SAT Lo Deadband	SATLO_DB	COOLCFG_SATLO_DB	AV	482	Type 6	0	Yes	10	5	15	DEGREE_F	
Cooling Config	SAT High Deadband	SATHI_DB	COOLCFG_SATHI_DB	AV	483	Type 6	0	Yes	5	2.5	10	DEGREE_F	
Cooling Setpoint	Occ Cooling Setpoint	CLSP_OCC	COOLSTP_CLSP_OCC	AV	195	Type 6	0	Yes	73	55	80	DEGREE_F	
Cooling Setpoint	Unocc Cooling Setpoint	CLSP_UNO	COOLSTP_CLSP_UNO	AV	196	Type 6	0	Yes	83	55	110	DEGREE_F	
Cooling Setpoint	Lo Cool SAT	SALOCCLSP	COOLSTP_SALOCCLSP	AV	197	Type 6	0	Yes	65	55	75	DEGREE_F	
Cooling Setpoint	Hi Cool SAT	SAHICLSP	COOLSTP_SAHICLSP	AV	198	Type 6	0	Yes	55	55	75	DEGREE_F	
Cooling Setpoint	100% OA Low Cool SAT	HODALCL	COOLSTP_HODALCL	AV	199	Type 6	0	Yes	75	55	75	DEGREE_F	
Cooling Setpoint	100% OA High Cool SAT	HODAHCL	COOLSTP_HODAHCL	AV	200	Type 6	0	Yes	70	55	75	DEGREE_F	
Cooling Setpoint	Lo Cool On DB	DOLOCLOF	COOLCFG_DOLOCLOF	AV	201	Type 6	0	Yes	1	0	2	DEGREE_F	
Cooling Setpoint	Lo Cool Off DB	DOLOCLOF	COOLCFG_DOLOCLOF	AV	202	Type 6	0	Yes	1	0.5	2	DEGREE_F	
Cooling Setpoint	Hi Cool On DB	DOHICLON	COOLCFG_DOHICLON	AV	203	Type 6	0	Yes	1	0.5	20	DEGREE_F	
Cooling Setpoint	VAV Cooling SAT	VAVCLSP	COOLSTP_VAVCLSP	AV	204	Type 6	0	Yes	55	45	75	DEGREE_F	
Cooling Setpoint	VAV Cool On DB	DOVAVCON	COOLCFG_DOVAVCON	AV	205	Type 6	0	Yes	3.5	0	25	DEGREE_F	
Cooling Setpoint	VAV Cool Off DB	DOVAVCOF	COOLCFG_DOVAVCOF	AV	206	Type 6	0	Yes	2	1	25	DEGREE_F	
Cooling Setpoint	Vent SAT	SPLYAVSP	COOLSTP_SPLYAVSP	AV	207	Type 6	0	Yes	70	55	85	DEGREE_F	
Cooling Setpoint	100% OA Cool SAT	NA	COOLSTP_HODACLSLSP	AV	296	Type 6	0	No	73	55	75	DEGREE_F	
Dehum Config	Unoccupied Dehum	UNOCENAB	DHUMCFG_UNOCENAB	BV	9	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Dehum Config	Vent/None Dehum	DHUMVENT	DHUMCFG_DHUMVENT	BV	11	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Dehum Config	VAV Cool Dehum	DHUMVAV	DHUMCFG_DHUMVAV	BV	12	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Dehum Config	High Cool Dehum	DHUMHICL	DHUMCFG_DHUMHICL	BV	13	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Dehum Config	Low Cool Dehum	DHUMLOCL	DHUMCFG_DHUMLOCL	BV	14	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Dehum Config	High Heat Dehum	DHUMHIHT	DHUMCFG_DHUMHIHT	BV	15	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Dehum Config	Low Heat Dehum	DHUMLOHT	DHUMCFG_DHUMLOHT	BV	16	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Dehum Config	OA Dehum Enable	OADHUMEN	OADCFCG_OADHUMEN	BV	17	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Dehum Config	Occupied Free Dehum	OFDHUMEN	DHUMCFG_OFDHUMEN	BV	18	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Dehum Config	Unoccupied Free Dehum	UFDHUMEN	DHUMCFG_UFDHUMEN	BV	19	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Dehum Config	Dehum Demand Source	DMD_SRC	DHUMCFG_DMD_SRC	AV	208	Type 6	0	Yes	3	0	8	NO_UNIT	
Dehum Config	Dehum Control Mode	DHUMMODE	DHUMCFG_DHUMMODE	AV	484	Type 6	0	Yes	0	0	3	NO_UNIT	
Dehum Setpoint	Dehum RH	DHUMRHSP	DHUMSTP_DHUMRHSP	AV	215	Type 6	0	Yes	55	40	100	PERCENT	
Dehum Setpoint	Dehum RH On DB	RLOS_ON	DHUMCFG_RLOS_ON	AV	216	Type 6	0	Yes	5	0	20	PERCENT	
Dehum Setpoint	Dehum RH Off DB	RLOS_OFF	DHUMCFG_RLOS_OFF	AV	217	Type 6	0	Yes	5	1	20	PERCENT	
Dehum Setpoint	Dehum CCT	CCTSTP	DHUMSTP_CCTSTP	AV	218	Type 6	0	Yes	55	—	—	DEGREE_F	
Dehum Setpoint	Dehum DP Off DB	DLOS_OFF	DHUMCFG_DLOS_OFF	AV	674	Type 6	0	No	5	1	20	DEGREE_F	
Dehum Setpoint	Dehum DP On DB	DLOS_ON	DHUMCFG_DLOS_ON	AV	675	Type 6	0	No	5	0	20	DEGREE_F	
Dehum Setpoint	Dehum DP	DHUMDPSP	DHUMSTP_DHUMDPSP	AV	687	Type 6	0	No	55	50	75	DEGREE_F	
Device Address	AUX	NA	COMMAADDR_AUX1	AV	152	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	NGC IOB 1	NA	COMMAADDR_NGC1	AV	153	Type 6	0	No	0	—	—	NO_UNIT	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Device Address	PD4 EXV	NA	COMMMADDR_PD4_EXV1	AV	154	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	SIOB 1	NA	COMMMADDR_SIOB1	AV	155	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	SIOB 2	NA	COMMMADDR_SIOB2	AV	156	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	SIOB 3	NA	COMMMADDR_SIOB3	AV	157	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	ZIOB	NA	COMMMADDR_SYSTEMVU	AV	158	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	Compressor A1	NA	COMMMADDR_COMP_A1	AV	159	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	Supply Fan 1	IDF_1	COMMMADDR_IDF_1	AV	160	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	Supply Fan 2	IDF_2	COMMMADDR_IDF_2	AV	161	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	Supply Fan 3	IDF_3	COMMMADDR_IDF_3	AV	162	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	Supply Fan 4	NA	COMMMADDR_IDF_4	AV	163	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	Supply Fan 5	NA	COMMMADDR_IDF_5	AV	164	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	Supply Fan 6	NA	COMMMADDR_IDF_6	AV	165	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	ODF 1	NA	COMMMADDR_ODF_1	AV	166	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	ODF 2	NA	COMMMADDR_ODF_2	AV	167	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	Return Fan 1	NA	COMMMADDR_RF_1	AV	169	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	Return Fan 2	NA	COMMMADDR_RF_2	AV	170	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	Power Exhaust 1	NA	COMMMADDR_PWREXH_1	AV	171	Type 6	0	No	0	—	—	NO_UNIT	
Device Address	Power Exhaust 2	NA	COMMMADDR_PWREXH_2	AV	172	Type 6	0	No	0	—	—	NO_UNIT	
Discrete Input	Indoor Fan Input (G)	TSTAT_G	DISCIN_TSTAT_G	BV	20	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Lo Cool Input (Y1)	TSTAT_Y1	DISCIN_TSTAT_Y1	BV	21	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Hi Cool Input (Y2)	TSTAT_Y2	DISCIN_TSTAT_Y2	BV	22	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Lo Heat Input (W1)	TSTAT_W1	DISCIN_TSTAT_W1	BV	23	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Hi Heat Input (W2)	TSTAT_W2	DISCIN_TSTAT_W2	BV	24	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Fire Shutdown Switch	FIRESW	DISCIN_FIRESW	BV	25	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Smoke Detector	SMOKESW	DISCIN_SMOKESW	BV	26	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Smoke Purge Switch	SMKPRGSW	DISCIN_SMKPRGSW	BV	27	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Phase Monitor	PMR_STAT	DISCIN_PMR_STAT	BV	28	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Shutdown Switch	SHTDWNWSW	DISCIN_SHTDWNWSW	BV	29	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	Filter Switch	FILTSTAT	DISCIN_FILTSTAT	BV	30	Type 4	0	No	0	0	1	NO_UNIT	0=CLEAN 1=DIRTY
Discrete Input	Indoor Fan Limit Switch	IDF_LSM	DISCIN_IDF_LSM	BV	31	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Heat Alarm	HT_ALARM	DISCIN_HT_ALARM	BV	32	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	COFS	CNDOSW	DISCIN_CNDOSW	BV	33	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Dehumidify Switch	DEHUMSW	DISCIN_DEHUMSW	BV	34	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Comp A1 Feedback	CMFPBKA1	DISCIN_CMFPBKA1	BV	35	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	Comp A2 Feedback	CMFPBKA2	DISCIN_CMFPBKA2	BV	36	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Discrete Input	Comp B1 Feedback	CMPFKB1	DISCIN_CMPFBK1	BV	37	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	Comp B2 Feedback	CMPFKB2	DISCIN_CMPFBK2	BV	38	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	Cir A HPS Switch	HPSA	DISCIN_HPSA	BV	39	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Cir B HPS Switch	HPSB	DISCIN_HPSB	BV	40	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	Remote Switch	RESW	DISCIN_RESW	BV	41	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Input	ERV Frost Indicator	ERV_FRST	DISCIN_ERV_FRST	BV	42	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	ERV Motion Sensor	WHEEL_ST	DISCIN_WHEEL_ST	BV	43	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	ERV OD Filtr Stat Switch	ERVFSS	DISCIN_ERVFSS	BV	44	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	DemandLimSwitch1	DLS1	DISCIN_DLS1	BV	45	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	DemandLimSwitch2	DLS2	DISCIN_DLS2	BV	46	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	IGC IDF Switch	IGCFANSW	DISCIN_IGCFANSW	BV	47	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	Pre Filter Switch	PFPSS	DISCIN_PFPSS	BV	48	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	Fire Press Switch	PRESSSW	DISCIN_PRESSSW	BV	49	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	Smoke Evac Switch	EVACSW	DISCIN_EVACSW	BV	50	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	Hydronic Freeze Switch	FRZSW	DISCIN_FRZSW	BV	51	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	Pressure Safety	PPSS	DISCIN_PPSS	BV	52	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	IAQ Switch	IAQSW	DISCIN_IAQSW	BV	53	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	OAQ Switch	OAQSW	DISCIN_OAQSW	BV	54	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	Outdoor Enthalpy	ODENTHSW	DISCIN_ODENTHSW	BV	55	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	OAD Neg Pressure	ENEGPRES	DISCIN_ENEGPRES	BV	56	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	VS Oil Level Switch A	VSOLSWA	DISCIN_VSOLSWA	BV	57	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Input	Indoor RFG Sensor ALM	INRFGK	DISCIN_INRFGK	BV	58	Type 4	0	No	0	0	1	NO_UNIT	0=NORMAL 1=ALARM
Discrete Input	Outdoor RFG Sensor ALM	OUTRFGK	DISCIN_OUTRFGK	BV	59	Type 4	0	No	0	0	1	NO_UNIT	0=NORMAL 1=ALARM
Discrete Output	Compressor A1	CPA1	DISCOUT_CPA1	BV	60	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Comp A1 Modulation RLY	CMPRELA1	DISCOUT_CMPRELA1	BV	61	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE
Discrete Output	Compressor A2	CPA2	DISCOUT_CPA2	BV	62	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Comp A2 Modulation RLY	CMPRELA2	DISCOUT_CMPRELA2	BV	63	Type 4	0	No	0	0	1	NO_UNIT	0=OPEN 1=CLOSE

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Discrete Output	Compressor B1	CPB1	DISCOUNT_CPB1	BV	64	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Compressor B2	CPB2	DISCOUNT_CPB2	BV	65	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	IDF VFD Bypass Relay	IDFBYREL	DISCOUNT_IDFBYREL	BV	66	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	CF 1 Relay	ODF1	DISCOUNT_ODF1	BV	67	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	CF 2 Relay	ODF2	DISCOUNT_ODF2	BV	68	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	CF 3 Relay	ODF3	DISCOUNT_ODF3	BV	69	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	CCH A	CCHRA	DISCOUNT_CCHRA	BV	70	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	CCH B	CCHRB	DISCOUNT_CCHRB	BV	71	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Reheat 3-way valve	HMS	DISCOUNT_HMS	BV	72	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	3rd Party Reheat Relay	RH3PRLY	DISCOUNT_RH3PRLY	BV	73	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	ERV Wheel	ERVWHEEL	DISCOUNT_ERVWHEEL	BV	74	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Heat Enable 1	STGHEAT1	DISCOUNT_STGHEAT1	BV	75	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Heat Enable 2	STGHEAT2	DISCOUNT_STGHEAT2	BV	76	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Heat Enable 3	STGHEAT3	DISCOUNT_STGHEAT3	BV	77	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Heat Enable 4	STGHEAT4	DISCOUNT_STGHEAT4	BV	78	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Heat Enable 5	STGHEAT5	DISCOUNT_STGHEAT5	BV	79	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Heat Enable 6	STGHEAT6	DISCOUNT_STGHEAT6	BV	80	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	ERV Bypass Damper	BYP_DAMP	DISCOUNT_BYP_DAMP	BV	81	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Zone Damper Override RLY	ZDOR	DISCOUNT_ZDOR	BV	82	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Aux Relay	AUXRLY	DISCOUNT_AUXRLY	BV	83	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Heat Interlock Relay	HIR	DISCOUNT_HIR	BV	84	Type 4	0	No	0	—	—	NO_UNIT	0=OFF 1=ON
Discrete Output	Humidifier	HMFR	DISCOUNT_HMFR	BV	85	Type 4	0	No	0	—	—	NO_UNIT	0=OFF 1=ON
Discrete Output	Heat Reclaim	HRR	DISCOUNT_HRR	BV	86	Type 4	0	No	0	—	—	NO_UNIT	0=OFF 1=ON
Discrete Output	Power Exh A	PEA	DISCOUNT_PEA	BV	87	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Power Exh B	PEB	DISCOUNT_PEB	BV	88	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Power Exh C	PEC	DISCOUNT_PEC	BV	89	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Fan Auto Address	AUTOADDR	DISCOUNT_AUTOADDR	BV	90	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
Discrete Output	Power Exhaust Enable	POWEXH1	DISCOUNT_POWEXH1	AV	219	Type 6	0	No	0	0	1	NO_UNIT	0=OFF 1=ON

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Discrete Output	VSC A1 Safe Stop	VSCA1_SS	DISCOUT_VSCA1_SS	BV	445	Type 4	0	No	1	0	1	NO_UNIT	0=OFF 1=ON
EnergyX Config	ERV Check Type	CHKTYPE	ERVCFG_CHKTYPE	AV	260	Type 6	0	Yes	0	0	2	NO_UNIT	
EnergyX Config	ERV Temp Tolerance	TMPTOL	ERVCFG_TMPTOL	AV	261	Type 6	0	Yes	10	0	20	DELTA_F	
EnergyX Config	ERV Enthalpy Tolerance	ENTTOL	ERVCFG_ENTTOL	AV	262	Type 6	0	Yes	2	0	2	BTU_LB	
EnergyX Config	ERV Fan Max Bypass Open	MAXBYPPOP	ERVCFG_MAXBYPPOP	AV	263	Type 6	0	Yes	100	0	100	PERCENT	
EnergyX Config	ERV Fan Max Bypass Close	MAXBYPCL	ERVCFG_MAXBYPCL	AV	264	Type 6	0	Yes	100	0	100	PERCENT	
EnergyX Config	ERV Fan Damper Min Pos	ERVMINPS	ERVCFG_ERVMINPS	AV	265	Type 6	0	Yes	10	0	100	PERCENT	
EnergyX Config	ERV Wheel-Minimum Pos	WHMINPOS	ERVCFG_WHMINPOS	AV	266	Type 6	0	Yes	10	0	100	PERCENT	
EnergyX Config	ERV Wheel Exh Min Speed	ERVEFMIN	ERVCFG_ERVEFMIN	AV	267	Type 6	0	Yes	0	0	100	PERCENT	
EnergyX Config	ERV Off Temp DB	OFFTMPDB	ERVCFG_OFFTMPDB	AV	268	Type 6	0	Yes	5	0	10	DELTA_F	
EnergyX Config	ERV Off Enthalpy DB	OFFENTDB	ERVCFG_OFFENTDB	AV	269	Type 6	0	Yes	0.5	0	2	BTU_LB	
Equipment Config	OACFM Sensor	OACFMEN	EQUIPCFG_OACFMEN	BV	103	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Equipment Config	IDF 3rd Party Mod	SF3PEN	EQUIPCFG_SF3PEN	BV	105	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Equipment Config	EXF 3rd Party Mod	EF3PEN	EQUIPCFG_EF3PEN	BV	107	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Equipment Config	3rd Party Reheat Enable	RH3PEN	EQUIPCFG_RH3PEN	BV	108	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Equipment Config	OAD 3rd Party Mod	OAD3PEN	EQUIPCFG_OAD3PEN	BV	109	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Equipment Config	ERV	ERVEN	EQUIPCFG_ERVEN	BV	110	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Equipment Config	ERV OAF	ERVOAFEN	EQUIPCFG_ERVOAFEN	BV	111	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Equipment Config	ERV Bypass Damper	ERVBYPEN	EQUIPCFG_ERVBYPEN	BV	112	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Equipment Config	Exhaust Fan	EFEN	EQUIPCFG_EFEN	BV	116	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Equipment Config	Economizer (OAD)	ECONEN	EQUIPCFG_ECONEN	BV	117	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Equipment Config	IAQ/OAD Input Config	SIO1AI10	EQUIPCFG_SIO1AI10	AV	257	Type 6	0	Yes	0	0	5	NO_UNIT	
Equipment Config	Heat Enable	HEATEN	EQUIPCFG_HEATEN	BV	454	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Equipment Config	SAT Sensor	SATEN	EQUIPCFG_SATEN	BV	462	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Equipment Config	Return Fan Enable	RFEN	EQUIPCFG_RFEN	BV	631	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Equipment Config	3rd Party Relief	RELIEF3P	RELIEF3P	AV	635	Type 6	0	Yes	0	0	2	NO_UNIT	
Equipment Config	EAD 3rd Party/BP	SIO3AI10	SIO3AI10	AV	636	Type 6	0	Yes	0	0	2	NO_UNIT	
EXV Service Config	User Setpoint Enable	SETPTENB	EXVSTP_SETPTENB	BV	128	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
EXV Service Config	Manual Start Pos Enable	EXVSTENB	EXVSTP_EXVSTENB	BV	129	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
EXV Service Config	A1 Superheat Setpoint	SupHIA1	EXVSTP_SupHIA1	AV	270	Type 6	0	Yes	0	—	—	DEGREE_F	
EXV Service Config	A2 Superheat Setpoint	SupHIA2	EXVSTP_SupHIA2	AV	271	Type 6	0	Yes	0	—	—	DEGREE_F	
EXV Service Config	B1 Superheat Setpoint	SupHIB1	EXVSTP_SupHIB1	AV	272	Type 6	0	Yes	0	—	—	DEGREE_F	
EXV Service Config	B2 Superheat Setpoint	SupHIB2	EXVSTP_SupHIB2	AV	273	Type 6	0	Yes	0	—	—	DEGREE_F	
EXV Service Config	A1 Start Pos	EXVSTA1	EXVSTP_EXVSTA1	AV	274	Type 6	0	Yes	35	0	100	PERCENT	
EXV Service Config	A2 Start Pos	EXVSTA2	EXVSTP_EXVSTA2	AV	275	Type 6	0	Yes	35	0	100	PERCENT	
EXV Service Config	B1 Start Pos	EXVSTB1	EXVSTP_EXVSTB1	AV	276	Type 6	0	Yes	35	0	100	PERCENT	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
EXV Service Config	B2 Start Pos	EXVSTB2	EXVSTP_EXVSTB2	AV	277	Type 6	0	Yes	35	0	100	PERCENT	
Fan Service Config	IDF VFD Bypass	IDFVFDY	EQUIPCFG_IDFVFDY	BV	104	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Fan Service Config	ABB IDF Set Frequency	SET_FREQ	ABBIDF_SET_FREQ	AV	576	Type 6	0	Yes	60	0	100	HZ	
Fan Service Config	Number of Return Fans	NUMRETF	NUMRETF	AV	653	Type 6	0	Yes	0	—	—	NO_UNIT	
Fan Service Config	Indoor Fan Limit Switch	IDFSWINV	SWTCHCFG_IDFSWINV	AV	684	Type 6	0	No	0	—	—	NO_UNIT	1=NORMAL 2=INVERTED
Free Cooling Config	Occ Free Cool	FREECLEN	FRECLCFG_FREECLEN	BV	130	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Free Cooling Config	Unocc Free Cooling	UFC	FRECLCFG_UFC	BV	131	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Free Cooling Config	Dry Bulb Chngover (OAT)	DRYBLB	FRECLCFG_DRYBLB	BV	132	Type 4	0	Yes	1	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Free Cooling Config	OADP Limit Check	DEWLIM	FRECLCFG_DEWLIM	BV	133	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Free Cooling Config	OAQ Check	ODAIRQ	FRECLCFG_ODAIRQ	BV	147	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Free Cooling Config	Changeover Select	CHNGSEL	FRECLCFG_CHNGSEL	AV	278	Type 6	0	Yes	0	0	3	NO_UNIT	
Free Cooling Config	Diff Enthalpy Threshold	DIFFENTH	FRECLCFG_DIFFENTH	AV	279	Type 6	0	Yes	0.5	0	2	BTU_LB	
Free Cooling Config	OAT Dry Bulb Threshold	DRYBLBTH	FRECLCFG_DRYBLBTH	AV	280	Type 6	0	Yes	75	—40	120	DEGREE_F	
Free Cooling Config	OADP Threshold	DEWLIMTH	FRECLCFG_DEWLIMTH	AV	281	Type 6	0	Yes	55	50	62	DEGREE_F	
Free Cooling Config	Diff Dry Bulb Threshold	DIFFDBTH	FRECLCFG_DIFFDBTH	AV	282	Type 6	0	Yes	0	0	10	DEGREE_F	
Free Cooling Config	IAQ Switch OAD Pos Reset	IAQOADRS	FRECLCFG_IAQOADRS	AV	283	Type 6	0	Yes	—10	—100	0	PERCENT	
Free Cooling Config	OAQ Lockout	ODAIRQTH	FRECLCFG_ODAIRQTH	AV	395	Type 6	0	Yes	1300	1000	2000	PPM	
Free Cooling Config	Free Cool Timeguard	FCOOL_TG	FRECLCFG_FCOOL_TG	AV	473	Type 6	0	Yes	5	0	30	MINUTES	
Heat Service Config	Heat Stage 1 Relay	HT1EN	EQUIPCFG_HT1EN	BV	118	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Heat Service Config	Heat Stage 2 Relay	HT2EN	EQUIPCFG_HT2EN	BV	119	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Heat Service Config	Heat Stage 3 Relay	HT3EN	EQUIPCFG_HT3EN	BV	120	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Heat Service Config	Heat Stage 4 Relay	HT4EN	EQUIPCFG_HT4EN	BV	121	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Heat Service Config	Heat Tempered Cooling DB	HEATTTDB	HEATCFG_HEATTTDB	AV	306	Type 6	0	Yes	0	—	—	NO_UNIT	
Heat Service Config	Heat 2Stage Dn Timeguard	HT2DTG	HEATCFG_HT2DTG	AV	309	Type 6	0	Yes	120	30	300	SECONDS	
Heat Service Config	Heat 2Stage Up Timeguard	HT2UTG	HEATCFG_HT2UTG	AV	310	Type 6	0	Yes	120	30	300	SECONDS	
Heat Service Config	Heat Fan Off Delay Timer	HEAT_FOD	HEATCFG_HEAT_FOD	AV	312	Type 6	0	Yes	45	30	120	SECONDS	
Heat Service Config	ZDOR Heat Cap Thresh	ZDORCAP	SERVICE1_ZDORCAP	AV	470	Type 6	0	Yes	50	50	100	PERCENT	
Heat Service Config	Minimum Heat Command	MINTDWN	SERVICE_MINTDWN	AV	673	Type 6	0	No	0	0	100	PERCENT	
Heat Service Config	Heat Pre-IDF Time	HPREIDFT	IDFCFG_HPREIDFT	AV	679	Type 6	0	No	30	0	120	SECONDS	
Heating Config	Heat Tempered Venting	HTMPDVNT	HEATCFG_HTMPDVNT	BV	134	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Heating Config	Heat Tempered Cooling	HTTEMPCL	HEATCFG_HTTEMPCL	BV	135	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Heating Config	Heat Trend Level	HTTREND	HEATCFG_HTTREND	AV	307	Type 6	0	Yes	0.1	0.1	5	DEGREE_F	
Heating Config	Heat Trend Time	HTTNDTM	HEATCFG_HTTNDTM	AV	308	Type 6	0	Yes	120	30	600	SECONDS	
Heating Config	TC Start Heat Factor	TCSTHEAT	SERVICE_TCSTHEAT	AV	311	Type 6	0	Yes	0	0	60	NO_UNIT	
Heating Config	Occupied Heating	MRN_ENBL	HEAT_MRN_ENBL	AV	637	Type 6	0	Yes	0	0	2	NO_UNIT	
Heating Setpoint	Dmd Reset Heat Adjust	DMDRSTHT	HEATSTP_DMDRSTHT	AV	234	Type 6	0	Yes	4	0	10	DEGREE_F	
Heating Setpoint	Occ Heating Setpoint	HTSP_OCC	HEATSTP_HTSP_OCC	AV	313	Type 6	0	Yes	68	55	80	DEGREE_F	
Heating Setpoint	Unocc Heating Setpoint	HTSP_UNO	HEATSTP_HTSP_UNO	AV	314	Type 6	0	Yes	58	40	99	DEGREE_F	
Heating Setpoint	Lo Heat SAT	SALOHTSP	HEATSTP_SALOHTSP	AV	315	Type 6	0	Yes	85	60	125	DEGREE_F	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Heating Setpoint	Hi Heat SAT	SAHIHTSP	HEATSTP_SAHITSP	AV	316	Type 6	0	Yes	95	60	125	DEGREE_F	
Heating Setpoint	100% OA Low Heat SAT	HODALHT	HEATSTP_HODALHT	AV	317	Type 6	0	Yes	75	65	125	DEGREE_F	
Heating Setpoint	100% OA High Heat SAT	HODAHHT	HEATSTP_HODAHHT	AV	318	Type 6	0	Yes	85	65	125	DEGREE_F	
Heating Setpoint	Lo Heat On DB	DOLOHTON	HEATCFG_DOLOHTON	AV	319	Type 6	0	Yes	1	0	2	DEGREE_F	
Heating Setpoint	Lo Heat Off DB	DOLOHTOF	HEATCFG_DOLOHTOF	AV	320	Type 6	0	Yes	1	0.5	2	DEGREE_F	
Heating Setpoint	Lo Heat On DB	DOHIHTON	HEATCFG_DOHIHTON	AV	321	Type 6	0	Yes	1	0.5	20	DEGREE_F	
Indoor Fan Config	SP Reset Limit	SDPRLMIT	IDFCFG_SDPRLMIT	AV	288	Type 6	0	No	0.75	0	3	IN_H2O	
Indoor Fan Config	IDF Control	OPSELECT	IDFCFG_OPSELECT	AV	322	Type 6	0	Yes	1	0	8	NO_UNIT	
Indoor Fan Config	SAV Mode Selection	SAVTYPE	IDFCFG_SAVTYPE	AV	323	Type 6	0	Yes	0	0	1	NO_UNIT	
Indoor Fan Config	Indoor Fan Min Speed	IDFMNSPD	IDFCFG_IDFMNSPD	AV	324	Type 6	0	Yes	34	0	100	PERCENT	
Indoor Fan Config	Indoor Fan Max Speed	IDFMXSPD	IDFCFG_IDFMXSPD	AV	325	Type 6	0	Yes	100	0	100	PERCENT	
Indoor Fan Config	Lo Cool IDF Speed	IDFCSPD1	IDFCFG_IDFCSPD1	AV	326	Type 6	0	Yes	66	0	100	PERCENT	
Indoor Fan Config	Med Cool IDF Speed	IDFCMSPD	IDFCFG_IDFCMSPD	AV	327	Type 6	0	Yes	88	0	100	PERCENT	
Indoor Fan Config	Hi Cool IDF Speed	IDFCSPD2	IDFCFG_IDFCSPD2	AV	328	Type 6	0	Yes	100	0	100	PERCENT	
Indoor Fan Config	SAV Low Cool Cap Thresh	SAVLCCTH	IDFCFG_SAVLCCTH	AV	329	Type 6	0	Yes	70	0	100	PERCENT	
Indoor Fan Config	SAV Med Cool Cap Thresh	SAVMCCCTH	IDFCFG_SAVMCCCTH	AV	330	Type 6	0	Yes	75	0	100	PERCENT	
Indoor Fan Config	SAV High Cool Cap Thresh	SAVHCCTH	IDFCFG_SAVHCCTH	AV	331	Type 6	0	Yes	90	0	100	PERCENT	
Indoor Fan Config	Lo Heat IDF Speed	IDFHSPD1	IDFCFG_IDFHSPD1	AV	332	Type 6	0	Yes	66	0	100	PERCENT	
Indoor Fan Config	Hi Heat IDF Speed	IDFHSPD2	IDFCFG_IDFHSPD2	AV	333	Type 6	0	Yes	100	0	100	PERCENT	
Indoor Fan Config	IDF PURGE Speed	IDFPURGE	IDFCFG_IDFPURGE	AV	334	Type 6	0	Yes	34	0	100	PERCENT	
Indoor Fan Config	IDF Pressurization Speed	IDFPRESS	IDFCFG_IDFPRESS	AV	335	Type 6	0	Yes	34	0	100	PERCENT	
Indoor Fan Config	IDF Evacuation Speed	IDFEVAC	IDFCFG_IDFEVAC	AV	336	Type 6	0	Yes	34	0	100	PERCENT	
Indoor Fan Config	Occupied Fan	OCCUCFG	IDFCFG_OCCUCFG	AV	337	Type 6	0	Yes	0	0	1	NO_UNIT	
Indoor Fan Config	Unoccupied Fan	UNOCCFG	IDFCFG_UNOCCFG	AV	338	Type 6	0	Yes	0	0	1	NO_UNIT	
Indoor Fan Config	SP Reset Source	SDPRS	IDFCFG_SDPRES	AV	339	Type 6	0	Yes	0	0	5	NO_UNIT	
Indoor Fan Config	SP Reset Ratio	SDPRRTIO	IDFCFG_SDPRTIO	AV	340	Type 6	0	Yes	0.2	0	3	IN_H2O	
Indoor Fan Config	SDP Reset Time	SDPRTIME	IDFCFG_SDPRTIME	AV	341	Type 6	0	Yes	15	5	30	MINUTES	
Indoor Fan Config	SDP Reset ZDP Threshold	SDPRZDP	IDFCFG_SDPZDP	AV	342	Type 6	0	Yes	85	40	100	PERCENT	
Indoor Fan Config	SDP Reset Sensor Max	SDPRMAX	IDFCFG_SDPMAX	AV	676	Type 6	0	No	3	2.5	3.5	IN_H2O	
Indoor Fan Config	SDP Reset Sensor Min	SDPRMIN	IDFCFG_SDPMIN	AV	677	Type 6	0	No	0	0	0.5	IN_H2O	
Indoor Fan Service Config	IDF Ramp Down Time Config	RMPDN	IDFCFG_RMPDN	AV	680	Type 6	0	No	30	30	120	SECONDS	
Indoor Fan Service Config	IDF Ramp Up Time Config	RMPUP	IDFCFG_RMPUP	AV	681	Type 6	0	No	30	30	120	SECONDS	
Indoor Fan Setpoint	Zone Pressure	NA	IDFSTP_ZPSETPT	AV	287	Type 6	0	No	0.05	-0.25	0.25	IN_H2O	
Indoor Fan Setpoint	CO2 Level	CO2LVL	IDFSTP_CO2LVL	AV	343	Type 6	0	Yes	2000	0	2000	PPM	
Indoor Fan Setpoint	Supply Pressure	DUCTSET	IDFSTP_DUCTSET	AV	344	Type 6	0	Yes	1.5	0	2.5	IN_H2O	
Indoor Fan Setpoint	Air Flow Setpoint	AIRFLOW	IDFSTP_AIRFLOW	AV	345	Type 6	0	Yes	1200	0	50000	CFM	
Limiting	Demand Switch Enable	DLSWSEN	DMDLMCFG_DLWSSEN	BV	91	Type 4	0	Yes	0	0	1	NO_UNIT	0-DISABLE 1=ENABLE
Limiting	Demand/Capacity Anlg In	DMDLIM	EQUIPCFG_DMDLIM	BV	93	Type 4	0	Yes	0	0	1	NO_UNIT	0-DISABLE 1=ENABLE
Limiting	Demand Reset Switch	DMDRSTEN	EQUIPCFG_DMDRSTEN	BV	122	Type 4	0	Yes	0	—	—	NO_UNIT	0-DISABLE 1=ENABLE
Limiting	Demand Limit Source	DMDLMSC	DMDLMCFG_DMDLMSC	AV	220	Type 6	0	Yes	0	0	3	NO_UNIT	
Limiting	Analog Limit Mode	AICLSEL	DMDLMCFG_AICLSEL	AV	221	Type 6	0	Yes	0	0	2	NO_UNIT	
Limiting	Capacity Limit Source	CAPLMSC	DMDLMCFG_CAPLMSC	AV	222	Type 6	0	Yes	0	0	3	NO_UNIT	
Limiting	Max Cool Capacity	CLCAPSTP	COOLSTP_CLCAPSTP	AV	223	Type 6	0	Yes	100	50	100	PERCENT	
Limiting	Cool Capacity Limit S1	NA	COOLSTP_CAPLIMS1	AV	224	Type 6	0	Yes	50	0	100	PERCENT	
Limiting	Cool Capacity Limit S2	CCPLIMS2	COOLSTP_CAPLIMS2	AV	225	Type 6	0	Yes	0	0	100	PERCENT	
Limiting	Cool Demand Limit S1	CDLIMS1	COOLSTP_DMDLIMS1	AV	226	Type 6	0	Yes	4	0	10	DELTA_F	
Limiting	Cool Demand Limit S2	CDLIMS2	COOLSTP_DMDLIMS2	AV	227	Type 6	0	Yes	6	0	10	DELTA_F	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Limiting	Max Heat Capacity	HTCAPSTP	HEATSTP_HTCAPSTP	AV	228	Type 6	0	Yes	100	50	100	PERCENT	
	Heat Capacity Limit S1	HCPLIMS1	HEATSTP_CAPLIMS1	AV	229	Type 6	0	Yes	50	0	100	PERCENT	
	Heat Capacity Limit S2	HCPLIMS2	HEATSTP_CAPLIMS2	AV	230	Type 6	0	Yes	0	0	100	PERCENT	
	Heat Demand Limit S1	HDLIMS1	HEATSTP_DMDLIMS1	AV	231	Type 6	0	Yes	4	0	10	DELTA_F	
	Heat Demand Limit S2	HDLIMS2	HEATSTP_DMDLIMS2	AV	232	Type 6	0	Yes	6	0	10	DELTA_F	
	Dmd Reset Cool Adjust	DMDRSTCL	COOLSTP_DMDRSTCL	AV	233	Type 6	0	Yes	4	0	10	DEGREE_F	
	Demand Limit Enable	NA	DMDLMCFG_DMDLMEN	AV	304	Type 6	0	No	0	0	1	NO_UNIT	
	Capacity Limit Enable	NA	DMDLMCFG_DMDCPEN	AV	305	Type 6	0	No	0	0	1	NO_UNIT	
	Circuit A Mode	CIRCAMDN	MDESTS_CIRCAMDN	MV	1	Type 5	0	No	—	1	—	NO_UNIT	1=NORMAL 2=TEST
	Circuit B Mode	CIRCBMDN	MDESTS_CIRCBMDN	MV	2	Type 5	0	No	—	1	—	NO_UNIT	1=NORMAL 2=TEST
	Comp A1 Mode	CMPA1MDN	MDESTS_CMPA1MDN	MV	3	Type 5	0	No	—	1	—	NO_UNIT	1=NONE 2=MANUAL 3=FLD_TEMP 4=DP_HIGH 5=DP_LOW 6=P_HIGH 7=SP_LOW 8=DT_HIGH 9=MOTTMPHI 10=FLDTMPHI 11=INVTMPHI 12=RCTTMPHI 13=OILVISLO 14=MOTCURHI 15=CMPSURGE 16=MODE_MAX 17=DP_HIGHF 18=SP_LOWF
	Comp A2 Mode	CMPA2MDN	MDESTS_CMPA2MDN	MV	4	Type 5	0	No	—	1	—	NO_UNIT	1=NONE 2=MANUAL 3=FLD_TEMP 4=DP_HIGH 5=DP_LOW 6=P_HIGH 7=SP_LOW 8=DT_HIGH 9=MOTTMPHI 10=FLDTMPHI 11=INVTMPHI 12=RCTTMPHI 13=OILVISLO 14=MOTCURHI 15=CMPSURGE 16=MODE_MAX 17=DP_HIGHF 18=SP_LOWF

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVING	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION																																																				
Mode	Comp B1 Mode	CMPB1MDN	MDESTS_CMPB1MDN	MV	5	Type 5	0	No	—	1	—	NO_UNIT	1=NONE 2=MANUAL 3=FLD_TEMP 4=DP_HIGH 5=DP_LOW 6=P_HIGH 7=SP_LOW 8=DT_HIGH 9=MOTTMPHI 10=FLDTMPHI 11=INVTMPHI 12=RCTTMPHI 13=OILVISLO 14=MOTCURHI 15=CMPSURGE 16=MODE_MAX 17=DP_HIGHF 18=SP_LOWF																																																				
													Mode	Comp B2 Mode	CMPB2MDN	MDESTS_CMPB2MDN	MV	6	Type 5	0	No	—	1	—	NO_UNIT	1=NONE 2=MANUAL 3=FLD_TEMP 4=DP_HIGH 5=DP_LOW 6=P_HIGH 7=SP_LOW 8=DT_HIGH 9=MOTTMPHI 10=FLDTMPHI 11=INVTMPHI 12=RCTTMPHI 13=OILVISLO 14=MOTCURHI 15=CMPSURGE 16=MODE_MAX 17=DP_HIGHF 18=SP_LOWF																																							
																										Mode	CF 1 Mode	ODF1MDN	MDESTS_ODF1MDN	MV	7	Type 5	0	No	—	1	—	NO_UNIT	1=NONE 2=MANUAL 3=DP_OPT 4=DP_LOW 5=DP_LOW 6=DP_HIGH 7=DT_HIGH																										
																																							Mode	CF 2 Mode	ODF2MDN	MDESTS_ODF2MDN	MV	8	Type 5	0	No	—	1	—	NO_UNIT	1=NONE 2=MANUAL 3=DP_OPT 4=DP_LOW 5=DP_LOW 6=DP_HIGH 7=DT_HIGH													
																																																				Mode	CF 3 Mode	ODF3MDN	MDESTS_ODF3MDN	MV	9	Type 5	0	No	—	1	—	NO_UNIT	1=NONE 2=MANUAL 3=DP_OPT 4=DP_LOW 5=DP_LOW 6=DP_HIGH 7=DT_HIGH

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Mode	Indoor Fan Mode	IDFMDNUM	MDESTS_IDFMDNUM	MV	10	Type 5	0	No	—	1	—	NO_UNIT	1=NONE 2=MANUAL 3=SDP_NOM 4=SDP_HIGH 5=SDP_LOW 6=CO2_NOM 7=CO2_LOW 8=CTLFLUID 9=SST_LOW 10=ST_LOW 11=FLOW_NOM 12=BP_NOM 13=BP_HIGH 14=BP_LOW 15=TRACK 16=ON
				MV	11	Type 5	0	No	—	1	NO_UNIT	1=NONE 2=SAT 3=RAT 4=ZONE 5=MAT 6=EXTERNAL 7=SAT 8=RAT 9=ZONE 10=MAT 11=EXTERNAL 12=MANUAL	
				MV	12	Type 5	0	No	—	1	NO_UNIT	1=NONE 2=MANUAL 3=AMB_FLOW 4=MNAIRQLY 5=NOM_TRAC 6=SAT 7=IAQ_OVR 8=AMBLWSW	
				BV	138	Type 4	0	No	0	0	1	NO_UNIT	0=FALSE 1=TRUE
				BV	139	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
				BV	177	Type 4	0	No	0	—	—	NO_UNIT	0=OFF 1=ON
				AV	638	Type 6	0	No	0	—	—	NO_UNIT	
				AV	639	Type 6	0	No	0	—	—	NO_UNIT	
				AV	640	Type 6	0	No	0	—	—	NO_UNIT	
				AV	689	Type 6	0	No	0	—	—	NO_UNIT	
				AV	690	Type 6	0	No	0	—	—	NO_UNIT	
				BV	141	Type 4	0	Yes	0	0	1	NO_UNIT	0=OFF 1=ON
				BV	142	Type 4	0	Yes	0	0	1	NO_UNIT	0=OFF 1=ON
				BV	143	Type 4	0	Yes	0	0	1	NO_UNIT	0=OFF 1=ON
				BV	144	Type 4	0	Yes	0	0	1	NO_UNIT	0=OFF 1=ON
				BV	145	Type 4	0	Yes	0	0	1	NO_UNIT	0=OFF 1=ON
Mode	Heater Mode	HEATRMDN	MDESTS_HEATRMDN	MV	11	Type 5	0	No	—	1	—	NO_UNIT	1=NONE 2=SAT 3=RAT 4=ZONE 5=MAT 6=EXTERNAL 7=SAT 8=RAT 9=ZONE 10=MAT 11=EXTERNAL 12=MANUAL
				MV	12	Type 5	0	No	—	1	NO_UNIT	1=NONE 2=MANUAL 3=AMB_FLOW 4=MNAIRQLY 5=NOM_TRAC 6=SAT 7=IAQ_OVR 8=AMBLWSW	
				BV	138	Type 4	0	No	0	0	1	NO_UNIT	0=FALSE 1=TRUE
				BV	139	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
				BV	177	Type 4	0	No	0	—	—	NO_UNIT	0=OFF 1=ON
				AV	638	Type 6	0	No	0	—	—	NO_UNIT	
				AV	639	Type 6	0	No	0	—	—	NO_UNIT	
				AV	640	Type 6	0	No	0	—	—	NO_UNIT	
				AV	689	Type 6	0	No	0	—	—	NO_UNIT	
				AV	690	Type 6	0	No	0	—	—	NO_UNIT	
				BV	141	Type 4	0	Yes	0	0	1	NO_UNIT	0=OFF 1=ON
				BV	142	Type 4	0	Yes	0	0	1	NO_UNIT	0=OFF 1=ON
				BV	143	Type 4	0	Yes	0	0	1	NO_UNIT	0=OFF 1=ON
				BV	144	Type 4	0	Yes	0	0	1	NO_UNIT	0=OFF 1=ON
				BV	145	Type 4	0	Yes	0	0	1	NO_UNIT	0=OFF 1=ON
				Network Input	Network Y1	Y1_NET	NETIN_Y1_NET	BV	141	Type 4	0	Yes	0
BV	142	Type 4	0					Yes	0	0	1	NO_UNIT	0=OFF 1=ON
BV	143	Type 4	0					Yes	0	0	1	NO_UNIT	0=OFF 1=ON
BV	144	Type 4	0					Yes	0	0	1	NO_UNIT	0=OFF 1=ON
BV	145	Type 4	0					Yes	0	0	1	NO_UNIT	0=OFF 1=ON
AV	638	Type 6	0					No	0	—	—	NO_UNIT	
AV	639	Type 6	0					No	0	—	—	NO_UNIT	
AV	640	Type 6	0					No	0	—	—	NO_UNIT	
AV	689	Type 6	0					No	0	—	—	NO_UNIT	
AV	690	Type 6	0					No	0	—	—	NO_UNIT	
BV	141	Type 4	0					Yes	0	0	1	NO_UNIT	0=OFF 1=ON
BV	142	Type 4	0					Yes	0	0	1	NO_UNIT	0=OFF 1=ON
BV	143	Type 4	0					Yes	0	0	1	NO_UNIT	0=OFF 1=ON
BV	144	Type 4	0					Yes	0	0	1	NO_UNIT	0=OFF 1=ON
BV	145	Type 4	0					Yes	0	0	1	NO_UNIT	0=OFF 1=ON

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Network Input	Network HSTAT	HSTATNET	NETIN_HSTATNET	BV	146	Type 4	0	Yes	0	0	1	NO_UNIT	0=OFF 1=ON
Network Input	Net SPRH	SPRHNET	ANALOGIN_SPRHNET	AV	347	Type 6	0	Yes	0	0	100	PERCENT	
Network Input	Net RARH	RARHNET	ANALOGIN_RARHNET	AV	348	Type 6	0	Yes	0	0	100	PERCENT	
Network Input	Net Outdoor Air CFM	OACFMNET	ANALOGIN_OACFMNET	AV	349	Type 6	0	Yes	0	—	—	CFM	
Network Input	Net OA CFM Reset	OCFMRNET	ANALOGIN_OCFMRNET	AV	350	Type 6	0	Yes	0	—	—	CFM	
Network Input	Net IAQ OAD Pos Reset	IAQORNET	ANALOGIN_IAQORNET	AV	351	Type 6	0	Yes	0	0	100	PERCENT	
Network Input	Net Building Pressure	BPNET	AIRPRESS_BPNET	AV	352	Type 6	0	Yes	0	—	—	IN_H2O	
Network Input	Net 3rd Party EXF	EF3P_NET	ANALOGIN_EF3P_NET	AV	353	Type 6	0	Yes	0	0	100	PERCENT	
Network Input	Net 3rd Party OAD	OD3P_NET	ANALOGIN_OD3P_NET	AV	354	Type 6	0	Yes	0	0	100	PERCENT	
Network Input	Net 3rd Party IDF	SF3P_NET	ANALOGIN_SF3P_NET	AV	355	Type 6	0	Yes	0	0	100	PERCENT	
Network Input	Net Outdoor Air Quality	OAQNET	ANALOGIN_OAQNET	AV	356	Type 6	0	Yes	0	—	—	PPM	
Network Input	Net Indoor Air Quality	IAQNET	ANALOGIN_IAQNET	AV	357	Type 6	0	Yes	0	—	—	PPM	
Network Input	Net IAQ Reset	IAQRNET	ANALOGIN_IAQRNET	AV	358	Type 6	0	Yes	0	—	—	PPM	
Network Input	Network Supply Pressure	SDP_NET	AIRPRESS_SDP_NET	AV	359	Type 6	0	Yes	0	—	—	IN_H2O	
Network Input	Net SPT	SPTNET	AIRTEMP_SPTNET	AV	360	Type 6	0	Yes	0	—	—	DEGREE_F	
Network Input	Net Space Temp Offset	SPTONET	AIRTEMP_SPTONET	AV	361	Type 6	0	Yes	0	—	—	DEGREE_F	
Network Input	Net OAT	OATNET	AIRTEMP_OATNET	AV	362	Type 6	0	Yes	0	—	—	DEGREE_F	
Network Input	Network Occupancy (BACnet Only)	NETOCC	GENUNIT_NETOCC	AV	363	Type 6	0	Yes	2	0	2	NO_UNIT	0=UNOCCUPIED 1=OCCUPIED 2=NOT USED
Network Input	Net SP Reset	SPSR_NET	ANALOGIN_SPSR_NET	AV	364	Type 6	0	Yes	0	-1	5	IN_H2O	
Network Input	Net Zone Damper Position	ZDPNET	ANALOGIN_ZDPNET	AV	365	Type 6	0	Yes	0	0	100	PERCENT	
Network Input	Occupied Standby Net	OCCSBNET	OCCSBNET	AV	366	Type 6	0	Yes	0	0	0	NO_UNIT	
Network Input	Network Input Timeout	NETINTO	SERVICE_NETINTO	AV	500	Type 6	0	Yes	10	1	30	MINUTES	
Network Input	RF 3rd Party Mod	RF3PEN	RF3PEN	BV	630	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Network Input	Net 3rd Party EAD	EAD3PNET	ANALOGIN_EAD3PNET	AV	641	Type 6	0	Yes	0	0	100	PERCENT	
Network Input	Net 3rd Party RF	RF3P_NET	ANALOGIN_RF3P_NET	AV	642	Type 6	0	Yes	0	0	100	PERCENT	
OAD Service Config	OACFM Sensor Max Range	MAXOACFM	SERVICE_MAXOACFM	AV	467	Type 6	0	Yes	11000	1	40000	CFM	
OAD Service Config	CFM Fixed Duct Offset	FXDCTOFS	OACFM_FXDCTOFS	AV	584	Type 6	0	Yes	6.8374	—	—	NO_UNIT	
OAD Service Config	CFM Fixed Duct Area	DUCTFCTR	OACFM_DUCTFCTR	AV	585	Type 6	0	Yes	-0.0267	—	—	NO_UNIT	
OAD Service Config	CFM Offset Calc Offset	OFSETOF	OACFM_OFFSETOF	AV	586	Type 6	0	Yes	372.73	—	—	NO_UNIT	
OAD Service Config	CFM Fixed Offset Value	OFFSTFCT	OACFM_OFFSTFCT	AV	587	Type 6	0	Yes	3.0197	—	—	NO_UNIT	
OAD Service Config	Return Air Damper Enable	RADEN	EQUIPCFG_RADEN	BV	615	Type 4	0	No	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
OAD Service Config	Econ Fdbk Low Limit	OADFBLM	OADFBLM	AV	629	Type 6	0	Yes	0	-2	102	PERCENT	
OAD Service Config	Econ Fdbk High Limit	OADFBLM	OADFBLM	AV	630	Type 6	0	Yes	100	0	102	PERCENT	
OAD Service Config	OAD Unoccupied DOAS Pos	UCHODAPO	OADCFCG_UCHODAPos	AV	643	Type 6	0	Yes	0	0	100	PERCENT	
Open Linkage	Local Sched Occ Request	NA	BACNET_loc_occ	AV	295	Type 6	0	No	0	0	1	NO_UNIT	
Open Linkage	ASL Occupancy State	ASLOCCST	BACNET_ASL_Occupcy_State	AV	588	Type 5	0	Yes	2	0	2	NO_UNIT	
Open Linkage	ASL Occupancy space temp	ASLOCSPT	BACNET_ASL_Occ_Space_Temp	AV	589	Type 6	0	Yes	80	-40	245	DEGREE_F	
Open Linkage	ASL Space Humidity	ASLSPH	BACNET_ASL_Space_Humidty	AV	590	Type 6	0	Yes	0	0	100	PERCENT	
Open Linkage	ASL Space IAQ	ASLSPIAQ	BACNET_ASL_Space_IAQ	AV	591	Type 6	0	Yes	0	0	2000	PPM	
Open Linkage	ASL Occ Cool Setpoint	ASLOCLSP	BACNET_ASL_Occ_CSptoint	AV	592	Type 6	0	Yes	70	55	80	DEGREE_F	
Open Linkage	ASL Occ Heat Setpoint	ASLOHTSP	BACNET_ASL_Occ_HSptoint	AV	593	Type 6	0	Yes	80	-40	245	DEGREE_F	
Open Linkage	ASL Unocc Cool Setpoint	ASLUCLSP	BACNET_ASL_Unocc_CSptnt	AV	594	Type 6	0	Yes	80	-40	245	DEGREE_F	
Open Linkage	ASL Unocc Heat Setpoint	ASLUHTSP	BACNET_ASL_Unocc_HSptnt	AV	595	Type 6	0	Yes	80	-40	245	DEGREE_F	
Open Linkage	ASL Damper Position	ASLDMAMP	BACNET_ASL_Damper_Pos	AV	596	Type 6	0	Yes	0	0	100	PERCENT	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Open Linkage	ASL Maximum Airflow	ASLMAXAIR	BACNET_ASL_Max_Airflow	AV	597	Type 6	0	Yes	0	0	5000	CFM	
Open Linkage	ASL Outside Air Temp	ASLOAT	BACNET_ASL_OutsideAirTem	AV	598	Type 6	0	Yes	80	-40	245	DEGREE_F	
Open Linkage	ASL Supply Air Temp	ASLSAT	BACNET_ASL_Supply_AirTemp	AV	599	Type 6	0	Yes	0	-40	240	DEGREE_F	
Open Linkage	ASL Supply Air Pressure	ASLSAP	BACNET_ASL_Supply_AirPres	AV	600	Type 6	0	Yes	0	0	5	IN_HG	
Open Linkage	ASL Air Source Mode	ASLSRCMD	BACNET_ASL_Air_Src_Mode	AV	601	Type 6	0	Yes	0	-6553655	6553655	NO_UNIT	
Open Linkage	ASL Cooling Required	ASLCLREQ	BACNET_ASL_Cooling_Req	AV	602	Type 6	0	Yes	0	0	30	NO_UNIT	
Open Linkage	ASL Heating Required	ASLHTRREQ	BACNET_ASL_Heating_Req	AV	603	Type 6	0	Yes	0	0	30	NO_UNIT	
Open Linkage	ASL Occ Cooling Required	ASLOCLRQ	BACNET_ASL_Occ_Coolg_Req	AV	604	Type 6	0	Yes	0	0	30	NO_UNIT	
Open Linkage	ASL Occ Heating Required	ASLOHTRQ	BACNET_ASL_Occ_Heatg_Req	AV	605	Type 6	0	Yes	0	0	30	NO_UNIT	
Open Linkage	ASL Optimal Start	ASLOPTST	BACNET_ASL_Optimal_Start	AV	606	Type 6	0	Yes	0	0	180	NO_UNIT	
Open Linkage	BACnet Linkage Active	ASLACTVE	BACNET_ASL_Link_Active	BV	607	Type 4	0	Yes	0	0	1	NO_UNIT	0=NO 1=YES
Open Linkage	Airside Linkage Validity	ASLVALID	BACNET_ASL_Link_Validity	BV	608	Type 4	0	Yes	0	0	1	NO_UNIT	0=NO 1=YES
Open Linkage	ASL Percent Display Sel	ASLPCTSL	BACNET_ASL_Percent_Displ	BV	609	Type 4	0	Yes	0	0	1	NO_UNIT	0=OFF 1=ON
Outdoor Air Damper Config	IAQ-OD Pos Reset Enable	IAQOREN	EQUIPCFG_IAQOREN	BV	125	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Outdoor Air Damper Config	IAQ Vent Standby Demand	IAQSBVEN	OADCFCG_IAQSBVEN	BV	148	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Outdoor Air Damper Config	IAQ Pre-Occ Purge	IAQPOP	OADCFCG_IAQPOP	BV	149	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Outdoor Air Damper Config	Ventilation Control	ECONCTRL	OADCFCG_ECONCTRL	AV	368	Type 6	0	Yes	0	0	5	NO_UNIT	
Outdoor Air Damper Config	IAQ Override Conf	IAQOCFG	OADCFCG_IAQOCFG	AV	369	Type 6	0	Yes	0	0	2	NO_UNIT	
Outdoor Air Damper Config	OAD Min Position	MINPOS	OADCFCG_MINPOS	AV	370	Type 6	0	Yes	10	0	100	PERCENT	
Outdoor Air Damper Config	OAD Max Position	MAXPOS	OADCFCG_MAXPOS	AV	371	Type 6	0	Yes	100	0	100	PERCENT	
Outdoor Air Damper Config	OAD Smoke Evac Speed	OADEVAC	OADCFCG_OADEVAC	AV	373	Type 6	0	Yes	0	0	100	PERCENT	
Outdoor Air Damper Config	IDF Vent Speed 1	VENTSPD1	IDFCFG_VENTSPD1	AV	374	Type 6	0	Yes	34	0	100	PERCENT	
Outdoor Air Damper Config	IDF Vent Speed 2	VENTSPD2	IDFCFG_VENTSPD2	AV	375	Type 6	0	Yes	50	0	100	PERCENT	
Outdoor Air Damper Config	IDF Vent Speed 3	VENTSPD3	IDFCFG_VENTSPD3	AV	376	Type 6	0	Yes	70	0	100	PERCENT	
Outdoor Air Damper Config	IDF Vent Speed 4	VENTSPD4	IDFCFG_VENTSPD4	AV	377	Type 6	0	Yes	90	0	100	PERCENT	
Outdoor Air Damper Config	OA Damper Vent Pos 1	OADPOS1	OADCFCG_OADPOS1	AV	378	Type 6	0	Yes	40	0	100	PERCENT	
Outdoor Air Damper Config	OA Damper Vent Pos 2	OADPOS2	OADCFCG_OADPOS2	AV	379	Type 6	0	Yes	30	0	100	PERCENT	
Outdoor Air Damper Config	OA Damper Vent Pos 3	OADPOS3	OADCFCG_OADPOS3	AV	380	Type 6	0	Yes	25	0	100	PERCENT	
Outdoor Air Damper Config	OA Damper Vent Pos 4	OADPOS4	OADCFCG_OADPOS4	AV	381	Type 6	0	Yes	10	0	100	PERCENT	
Outdoor Air Damper Config	IAQ Reset Source	IAQRESET	OADCFCG_IAQRESET	AV	382	Type 6	0	Yes	0	0	3	NO_UNIT	
Outdoor Air Damper Config	IAQ Override Threshold	IAQOTH	OADCFCG_IAQOTH	AV	383	Type 6	0	Yes	1200	400	2000	PPM	
Outdoor Air Damper Config	IAQ Override Deadband	IAQODB	OADCFCG_IAQODB	AV	384	Type 6	0	Yes	200	100	1000	PPM	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Outdoor Air Damper Config	IAQ Override Position	IAQOPOS	OADCFG_IAQOPOS	AV	385	Type 6	0	Yes	50	0	100	PERCENT	
Outdoor Air Damper Config	IAQ Purge Duration	IAQPDUR	OADCFG_IAQPDUR	AV	386	Type 6	0	Yes	15	5	60	MINUTES	
Outdoor Air Damper Config	IAQ Purge Lockout	IAQPLOCK	OADCFG_IAQPLOCK	AV	387	Type 6	0	Yes	50	35	70	DEGREE_F	
Outdoor Air Damper Config	IAQ Purge OAT Lo Lockout	IAQPRGLL	OADCFG_IAQPRGLL	AV	388	Type 6	0	Yes	45	0	50	DEGREE_F	
Outdoor Air Damper Config	IAQ Purge OAT Hi Lockout	IAQPRGHL	OADCFG_IAQPRGHL	AV	389	Type 6	0	Yes	95	85	115	DEGREE_F	
Outdoor Air Damper Config	IAQ Purge Lo Temp Pos	IAQPLOTIP	OADCFG_IAQPLOTIP	AV	390	Type 6	0	Yes	10	0	100	PERCENT	
Outdoor Air Damper Config	IAQ Purge Hi Temp Pos	IAQPHITP	OADCFG_IAQPHITP	AV	391	Type 6	0	Yes	35	0	100	PERCENT	
Outdoor Air Damper Config	IAQ OA CFM Reset	IAQCFMRS	OADCFG_IAQCFMRS	AV	392	Type 6	0	Yes	0	-40000	0	CFM	
Outdoor Air Damper Config	Purge Short Duration	PRGSHORT	OADCFG_PRGSHORT	AV	393	Type 6	0	Yes	20	5	30	MINUTES	
Outdoor Air Damper Config	Purge Long Duration	PRGLONG	OADCFG_PRGLONG	AV	394	Type 6	0	Yes	60	10	60	MINUTES	
Outdoor Air Damper Config	Bid Pressure Override En	OABPOREN	OADCFG_OABPOREN	AV	396	Type 6	0	Yes	0	0	1	NO_UNIT	
Outdoor Air Damper Config	Bid Pressure Threshold	OABPORTH	OADCFG_OABPORTH	AV	397	Type 6	0	Yes	0.02	0	0.2	IN_H2O	
Outdoor Air Damper Config	Bid Pressure Deadband	OABPORDB	OADCFG_OABPORDB	AV	398	Type 6	0	Yes	0.01	0	0.05	IN_H2O	
Outdoor Air Damper Config	OACFM Setpoint	CFMSP	OADCFG_CFMSP	AV	399	Type 6	0	Yes	780	0	20000	CFM	
Refrigerant Pressure	Cir A Suction Pressure	SPA	RFGPRESS_SPA	AV	400	Type 6	0	No	0	—	—	PSIG	
Refrigerant Pressure	Cir B Suction Pressure	SPB	RFGPRESS_SPB	AV	401	Type 6	0	No	0	—	—	PSIG	
Refrigerant Pressure	Cir A Discharge Pressure	DPA	RFGPRESS_DPA	AV	402	Type 6	0	No	0	—	—	PSIG	
Refrigerant Pressure	Cir B Discharge Pressure	DPB	RFGPRESS_DPB	AV	403	Type 6	0	No	0	—	—	PSIG	
Refrigerant Service Alert	Lockout Notification	LOCK_OUT	ALERTCFG_LOCK_OUT	BV	4	Type 4	0	Yes	0	—	—	NO_UNIT	0=OFF 1=ON
Refrigerant Service Alert	High SST Time	HIGH_SST	ALERTCFG_HIGH_SST	AV	48	Type 6	0	Yes	10	—	—	MINUTES	
Refrigerant Service Alert	Min Suc Chg Cir A	MINSUCA	ALERTCFG_MINSUCA	AV	49	Type 6	0	Yes	20	0	99	PSIG	
Refrigerant Service Alert	Min Disc Chg Cir A	MINDISA	ALERTCFG_MINDISA	AV	50	Type 6	0	Yes	11	0	99	PSIG	
Refrigerant Service Alert	Min Suc Chg Cir B	MINSUCB	ALERTCFG_MINSUCB	AV	51	Type 6	0	Yes	20	0	99	PSIG	
Refrigerant Service Alert	Min Disc Chg Cir B	MINDISB	ALERTCFG_MINDISB	AV	52	Type 6	0	Yes	11	0	99	PSIG	
Refrigerant Service Alert	Off Press Ratio	OFF_PRES	ALERTCFG_OFF_PRES	AV	53	Type 6	0	Yes	-0.2	-1	1	PSIG	
Refrigerant Service Alert	Compressor Cmd Time	CMPCMD_T	ALERTCFG_CMPCMD_T	AV	54	Type 6	0	Yes	15	1	30	SECONDS	
Refrigerant Service Alert	Comp Cycling Threshold	CP_C_TH	ALERTCFG_CP_C_TH	AV	60	Type 6	0	Yes	200	0	0	MINUTES	
Refrigerant Service Alert	Low SST 4Min Threshold	LSST4T	ALERTCFG_LSST4T	AV	61	Type 6	0	Yes	20	-30	40	DEGREE_F	
Refrigerant Service Alert	Low SST 2Min Threshold	LSST2T	ALERTCFG_LSST2T	AV	62	Type 6	0	Yes	10	-30	40	DEGREE_F	
Refrigerant Service Alert	Low SST 1Min Threshold	LSST1T	ALERTCFG_LSST1T	AV	63	Type 6	0	Yes	0	-30	40	DEGREE_F	
Refrigerant Service Alert	Low SST 20Sec Threshold	LSST20sT	ALERTCFG_LSST20sT	AV	64	Type 6	0	Yes	-20	-30	40	DEGREE_F	
Refrigerant Service Alert	Low SSH A Alert	SSHLOW	ALERTCFG_SSHLOW	AV	65	Type 6	0	Yes	4	2	10	DEGREE_F	
Refrigerant Service Alert	Low SSH A Part Load Alrt	SSHAPLLO	ALERTCFG_SSHAPLLO	AV	66	Type 6	0	Yes	9	2	15	DEGREE_F	
Refrigerant Service Alert	Low SSH A Full Load Alrt	SSHAFLLLO	ALERTCFG_SSHAFLLLO	AV	67	Type 6	0	Yes	4	2	10	DEGREE_F	
Refrigerant Service Alert	Low SSH B Alert	SSHBLOW	ALERTCFG_SSHBLOW	AV	68	Type 6	0	Yes	4	2	10	DEGREE_F	
Refrigerant Service Alert	Low SSH B Part Load Alrt	SSHBPLLO	ALERTCFG_SSHBPLLO	AV	69	Type 6	0	Yes	9	7	15	DEGREE_F	
Refrigerant Service Alert	Low SSH B Full Load Alrt	SSHBFFLLO	ALERTCFG_SSHBFFLLO	AV	70	Type 6	0	Yes	4	2	10	DEGREE_F	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Refrigerant Service Alert	Low SSH Alert Time	LSSHTIME	ALERTCFG_LSSHTIME	AV	71	Type 6	0	Yes	30	5	120	SECONDS	
Refrigerant Service Alert	Low Press Ratio Limit	LPRL	ALERTCFG_LPRL	AV	72	Type 6	0	Yes	1.3	1	2	PSIG	
Refrigerant Service Alert	Low Pressure Ratio Time	LPRTIME	LPRTIME	AV	73	Type 6	0	Yes	30	5	120	SECONDS	
Refrigerant Service Alert	Compressor Stuck On Time	CMPSSTKTM	CMPSSTKTM	AV	87	Type 6	0	Yes	4	2	20	SECONDS	
Refrigerant Service Alert	Compressor Failure Timer	CMPLRLTM	CMPLRLTM	AV	88	Type 6	0	Yes	5	2	20	SECONDS	
Refrigerant Service Alert	High Heat Sink Temp DB	HSHTMPDB	HEATSINK_HSHTMPDB	AV	90	Type 6	0	Yes	8	0	20	DEGREE_F	
Refrigerant Service Alert	High Heat Sink Temp	HSHTEMP	HEATSINK_HSHTEMP	AV	91	Type 6	0	Yes	200	100	250	DEGREE_F	
Refrigerant Service Alert	Full Load Percentage	SSHFL_LD	ALERTCFG_SSHFL_LD	AV	671	Type 6	0	Yes	99.5	0	100	PERCENT	
Refrigerant Temperature	Cooling Coil Temp	CCT	RFGTEMP_CCT	AV	293	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	Suction Gas Temp 1	NA	RFGTEMP_SGT1	AV	299	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	Discharge Gas Temp A	NA	RFGTEMP_DGTA	AV	300	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	Saturated Suction A	SSTA	RFGTEMP_SSTA	AV	404	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	Saturated Suction B	SSTB	RFGTEMP_SSTB	AV	405	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	Saturated Discharge CirA	SDTA	RFGTEMP_SDTA	AV	406	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	Saturated Discharge CirB	SDTB	RFGTEMP_SDTB	AV	407	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	A1 Superheat Temp	SSHA1	RFGTEMP_SSHA1	AV	408	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	A2 Superheat Temp	SSHA2	RFGTEMP_SSHA2	AV	409	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	B1 Superheat Temp	SSHB1	RFGTEMP_SSHB1	AV	410	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	B2 Superheat Temp	SSHB2	RFGTEMP_SSHB2	AV	411	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	Suction Gas Temp Cir A1	SGTA1	RFGTEMP_SGTA1	AV	412	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	Suction Gas Temp Cir A2	SGTA2	RFGTEMP_SGTA2	AV	413	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	Suction Gas Temp Cir B1	SGTB1	RFGTEMP_SGTB1	AV	414	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	Suction Gas Temp Cir B2	SGTB2	RFGTEMP_SGTB2	AV	415	Type 6	0	No	0	—	—	DEGREE_F	
Refrigerant Temperature	Oil Sump Temp	OILTSMPA	RFGTEMP_OILTSMPA	AV	416	Type 6	0	No	0	—	—	DEGREE_F	
Relief Fan Config	EXF Control Config	CONTROL	EFCFG_CONTROL	AV	235	Type 6	0	Yes	0	0	3	NO_UNIT	
Relief Fan Config	EXF Min Speed	MINSPD	EFCFG_MINSPD	AV	236	Type 6	0	Yes	10	0	100	PERCENT	
Relief Fan Config	EXF Max Speed	MAXSPD	EFCFG_MAXSPD	AV	237	Type 6	0	Yes	50	20	100	PERCENT	
Relief Fan Config	EXF Speed OAD Pos 1	SPEED1	EFCFG_SPEED1	AV	238	Type 6	0	Yes	25	0	100	PERCENT	
Relief Fan Config	EXF Speed OAD Pos 2	SPEED2	EFCFG_SPEED2	AV	239	Type 6	0	Yes	50	0	100	PERCENT	
Relief Fan Config	EXF OAD Pos 1	DAMPPOS1	EFCFG_DAMPPOS1	AV	240	Type 6	0	Yes	50	0	100	PERCENT	
Relief Fan Config	EXF OAD Pos 2	DAMPPOS2	EFCFG_DAMPPOS2	AV	241	Type 6	0	Yes	100	0	100	PERCENT	
Relief Fan Config	EXF OAD Position 1	PEOAD1	EFCFG_PEOAD1	AV	242	Type 6	0	Yes	25	0	100	PERCENT	
Relief Fan Config	EXF OAD Position 2	PEOAD2	EFCFG_PEOAD2	AV	243	Type 6	0	Yes	50	0	100	PERCENT	
Relief Fan Config	EXF OAD Position 3	PEOAD3	EFCFG_PEOAD3	AV	244	Type 6	0	Yes	75	0	100	PERCENT	
Relief Fan Config	EXF OAD Position 4	PEOAD4	EFCFG_PEOAD4	AV	245	Type 6	0	Yes	100	0	100	PERCENT	
Relief Fan Config	EXF OAD Position 5	PEOAD5	EFCFG_PEOAD5	AV	246	Type 6	0	Yes	100	0	100	PERCENT	
Relief Fan Config	EXF OAD Position 6	PEOAD6	EFCFG_PEOAD6	AV	247	Type 6	0	Yes	100	0	100	PERCENT	
Relief Fan Config	EXF Smoke Purge Speed	EXFPURGE	EFCFG_EXFPURGE	AV	248	Type 6	0	Yes	0	0	100	PERCENT	
Relief Fan Config	EXF Evacuation Speed	EXFEVAC	EFCFG_EXFEVAC	AV	249	Type 6	0	Yes	0	0	100	PERCENT	
Relief Fan Config	Return Air Config	RF_CONF	SFAN_RF_CONF	AV	644	Type 6	0	Yes	0	0	8	NO_UNIT	
Relief Fan Config	Delta CFM Reset Ratio	RF_DCFRR	SFAN_RF_DCFRR	AV	645	Type 6	0	Yes	10000	1	1000000	IN_H2O	
Relief Fan Config	SA/RA CFM Reset Min	RF_SRCRM	SFAN_RF_SRCRM	AV	646	Type 6	0	Yes	0	0	10000	NO_UNIT	
Relief Fan Config	SA/RA CFM Reset Max	RF_SRCRX	SFAN_RF_SRCRX	AV	647	Type 6	0	Yes	0	0	1000000	NO_UNIT	
Relief Fan Config	OAD Critical Pos	RF_OADCP	SFAN_RF_OADCP	AV	648	Type 6	0	Yes	10	0	100	PERCENT	
Relief Fan Config	RAD Critical Pos	RF_RADCP	SFAN_RF_RADCP	AV	649	Type 6	0	Yes	90	0	100	PERCENT	
Relief Fan Config	OAD Critical Pos 2	RF_OADC2	SFAN_RF_OADC2	AV	650	Type 6	0	Yes	75	0	100	PERCENT	
Relief Fan Config	SA/RA Delta CFM CP	RF_SARA	SFAN_RF_SARA	AV	652	Type 6	0	Yes	0	—	—	NO_UNIT	
Relief Fan Config	Return Fan Min Speed	MINSPD	RFCFG_MINSPD	AV	654	Type 6	0	Yes	10	0	100	PERCENT	
Relief Fan Config	Return Fan Max Speed	MAXSPD	RFCFG_MAXSPD	AV	655	Type 6	0	Yes	50	20	100	PERCENT	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Relief Fan Config	RTF Speed 2	RFSPD2	RFSPD2	AV	656	Type 6	0	Yes	58	0	100	PERCENT	
Relief Fan Config	RTF Speed 3	RFSPD3	RFSPD3	AV	657	Type 6	0	Yes	72	0	100	PERCENT	
Relief Fan Config	RTF Speed 4	RFSPD4	RFSPD4	AV	658	Type 6	0	Yes	86	0	100	PERCENT	
Relief Fan Config	RTF IDF Speed 1	RFIFSPD1	RFCFG_RFIFSPD1	AV	659	Type 6	0	Yes	34	0	100	PERCENT	
Relief Fan Config	RTF IDF Speed 2	RFIFSPD2	RFCFG_RFIFSPD2	AV	660	Type 6	0	Yes	50	0	100	PERCENT	
Relief Fan Config	RTF IDF Speed 3	RFIFSPD3	RFCFG_RFIFSPD3	AV	661	Type 6	0	Yes	67	0	100	PERCENT	
Relief Fan Config	RTF IDF Speed 4	RFIFSPD4	RFCFG_RFIFSPD4	AV	662	Type 6	0	Yes	84	0	100	PERCENT	
Relief Fan Config	RTF IDF Speed 5	RFIFSPD5	RFCFG_RFIFSPD5	AV	663	Type 6	0	Yes	100	0	100	PERCENT	
Relief Fan Config	RTF Dissipation Speed	DSSPATN	RFCFG_DSSPATN	AV	664	Type 6	0	Yes	100	0	100	PERCENT	
Relief Fan Config	RTF Evac Speed	RTFEVAC	RFCFG_RTFEVAC	AV	665	Type 6	0	Yes	100	0	100	PERCENT	
Relief Fan Config	RTF Press Speed	RTFPRESS	RFCFG_RTFPRESS	AV	666	Type 6	0	Yes	0	0	100	PERCENT	
Relief Fan Config	RTF Smoke Purge Speed	RTFPURGE	RFCFG_RTFPURGE	AV	667	Type 6	0	Yes	100	0	100	PERCENT	
Relief Fan Setpoint	Building Pressure	EFBPSPT	EFSTP_EFBPSPT	AV	250	Type 6	0	Yes	0.05	-0.3	0.3	IN_H2O	
Relief Fan Setpoint	Return Pressure Setpoint	RF_PRSTP	SFAN_RF_PRSTP	AV	651	Type 6	0	Yes	0	—	—	IN_H2O	
Runtime	Reset Comp A1 Min/Starts	NA	RESET_RT_CMPA1	BV	150	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset Comp A2 Min/Starts	NA	RESET_RT_CMPA2	BV	151	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset Comp B1 Min/Starts	NA	RESET_RT_CMPB1	BV	152	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset Comp B2 Min/Starts	NA	RESET_RT_CMPB2	BV	153	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset CF 1 Min/Starts	NA	RESET_RT_CND1	BV	154	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset CF 2 Min/Starts	NA	RESET_RT_CND2	BV	155	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset CF 3 Min/Starts	NA	RESET_RT_CND3	BV	156	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset CF A Min/Starts	NA	RESET_RT_CNDA	BV	157	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset CF B Min/Starts	NA	RESET_RT_CNDB	BV	158	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset IDF Min/Starts	NA	RESET_RT_IDF	BV	159	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset EXF Min/Starts	NA	RESET_RT_EFAN	BV	160	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset CCH A Min/Starts	NA	RESET_RT_CCHA	BV	161	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset CCH B Min/Starts	NA	RESET_RT_CCHB	BV	162	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset CCH Min/Starts	NA	RESET_RT_CCH	BV	163	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset OAD Min/Starts	NA	RESET_RT_DAMP	BV	164	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset Heat Min/Starts	NA	RESET_RT_STGHEAT	BV	165	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset HGRH Min/Starts	NA	RESET_RT_HMZRVLV	BV	166	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset Pre-Filter Hours	FLTR_RST	GENUNIT_FLTR_RST	BV	167	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset Oil Cnt Cir A	NA	RESET_RT_OILCYCLA	BV	168	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Runtime	Reset OilCnt Cir B	NA	RESET_RT_OILCYCLB	BV	169	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset Humidimer Cnt	NA	RESET_RT_HUMIPURC	BV	170	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Pre-Filter Hours	NA	SERVICE1_M_FILTER	AV	298	Type 6	0	No	0	—	—	HOURS	
Runtime	Comp A1 Minutes	NA	RUNTIME_COMPA1RT	AV	417	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Comp A1 Start Count	NA	RUNTIME_COMPA1SC	AV	418	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Comp A1 Reset Count	NA	RUNTIME_COMPA1RC	AV	419	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Comp A2 Minutes	NA	RUNTIME_COMPA2RT	AV	420	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Comp A2 Start Count	NA	RUNTIME_COMPA2SC	AV	421	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Comp A2 Reset Count	NA	RUNTIME_COMPA2RC	AV	422	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Comp B1 Minutes	NA	RUNTIME_COMPB1RT	AV	423	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Comp B1 Start Count	NA	RUNTIME_COMPB1SC	AV	424	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Comp B1 Reset Count	NA	RUNTIME_COMPB1RC	AV	425	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Comp B2 Minutes	NA	RUNTIME_COMPB2RT	AV	426	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Comp B2 Start Count	NA	RUNTIME_COMPB2SC	AV	427	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Comp B2 Reset Count	NA	RUNTIME_COMPB2RC	AV	428	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CF 1 Minutes	NA	RUNTIME_CND1_RT	AV	429	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CF 1 Start Count	NA	RUNTIME_CND1_SC	AV	430	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CF 1 Reset Count	NA	RUNTIME_CND1_RC	AV	431	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CF 2 Minutes	NA	RUNTIME_CND2_RT	AV	432	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CF 2 Start Count	NA	RUNTIME_CND2_SC	AV	433	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CF 2 Reset Count	NA	RUNTIME_CND2_RC	AV	434	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CF 3 Minutes	NA	RUNTIME_CND3_RT	AV	435	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CF 3 Start Count	NA	RUNTIME_CND3_SC	AV	436	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CF 3 Reset Count	NA	RUNTIME_CND3_RC	AV	437	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Indoor Fan Minutes	NA	RUNTIME_IDF_RT	AV	438	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Indoor Fan Start Count	NA	RUNTIME_IDF_SC	AV	439	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Indoor Fan Reset Count	NA	RUNTIME_IDF_RC	AV	440	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Exhaust Fan Minutes	NA	RUNTIME_EFAN_RT	AV	441	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Exhaust Fan Start Count	NA	RUNTIME_EFAN_SC	AV	442	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Exhaust Fan Reset Count	NA	RUNTIME_EFAN_RC	AV	443	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Heat Minutes	NA	RUNTIME_SHEAT_RT	AV	444	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Heat Start Count	NA	RUNTIME_SHEAT_SC	AV	445	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Heat Reset Count	NA	RUNTIME_SHEAT_RC	AV	446	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	HGRH Valve Minutes	NA	RUNTIME_HMVLV_RT	AV	447	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	HGRH Valve Start Count	NA	RUNTIME_HMVLV_SC	AV	448	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	HGRH Valve Reset Count	NA	RUNTIME_HMVLV_RC	AV	449	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	OAD Minutes	NA	RUNTIME_DAMP_RT	AV	450	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	OAD Start Count	NA	RUNTIME_DAMP_SC	AV	451	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	OAD Reset Count	NA	RUNTIME_DAMP_RC	AV	452	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CCH A Minutes	NA	RUNTIME_CCHRA_RT	AV	453	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CCH A Start Count	NA	RUNTIME_CCHRA_SC	AV	454	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CCH A Reset Count	NA	RUNTIME_CCHRA_RC	AV	455	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CCH B Minutes	NA	RUNTIME_CCHRB_RT	AV	456	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CCH B Start Count	NA	RUNTIME_CCHRB_SC	AV	457	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	CCH B Reset Count	NA	RUNTIME_CCHRB_RC	AV	458	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Oil Cir A Count	NA	RUNTIME_OILACYSC	AV	459	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Oil Cir B Count	NA	RUNTIME_OILBCYSC	AV	460	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Humidizer Cycle Cnt	NA	RUNTIME_HUMIPUSC	AV	465	Type 6	0	No	0	—	—	NO_UNIT	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Runtime	Pre-Filter Minutes	FILT_RT	GENUNIT_FILT_RT	AV	466	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Reset RETF Min/Starts	NA	RESET_RT_RFAN	BV	612	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Reset EAD Min/Starts	NA	RESET_RT_EAD	BV	613	Type 4	0	Yes	0	—	—	NO_UNIT	0=NO 1=YES
Runtime	Return Fan Minutes	NA	RUNTIME_RFAN_RT	AV	619	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Return Fan Start Count	NA	RUNTIME_RFAN_SC	AV	620	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Return Fan Reset Count	NA	RUNTIME_RFAN_RC	AV	621	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	EAD Minutes	NA	RUNTIME_EAD_RT	AV	622	Type 6	0	No	0	—	—	MINUTES	
Runtime	EAD Start Count	NA	RUNTIME_EAD_SC	AV	623	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	EAD Reset Count	NA	RUNTIME_EAD_RC	AV	624	Type 6	0	No	0	—	—	NO_UNIT	
Runtime	Final Filter Hours	FFLT_RT	GENUNIT_FFLT_RT	AV	625	Type 6	0	No	0	—	—	HOURS	
Runtime	Reset Final Filter Hours	FFLT_RST	GENUNIT_FFLT_RST	AV	626	Type 6	0	No	0	—	—	NO_UNIT	
Sensor Config	Occupied Standby Enable	OCCSB_EN	OCCSB_EN	BV	92	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	EAT Sensor	EATEN	EQUIPCFG_EATEN	BV	102	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	SPSR Sensor	SPSREN	EQUIPCFG_SPSREN	BV	106	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	Occupied Standby	OCCSB_EN	OCCSB	BV	179	Type 4	0	No	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	Occupied Standby Time	OCCSTNDT	OCCSTNDT	AV	258	Type 6	0	Yes	5	5	30	MINUTES	
Sensor Config	Occupancy Override Time	OCC_OT	UNITCFG_OCC_OT	AV	259	Type 6	0	Yes	2	0	4	HOURS	
Sensor Config	SPT Sensor	SPTEN	EQUIPCFG_SPTEN	BV	456	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	SPT Offset	SPTOFFEN	EQUIPCFG_SPTOFFEN	BV	457	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	SPRH Sensor	SPRHEN	EQUIPCFG_SPRHEN	BV	458	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	MAT Sensor	MATEN	EQUIPCFG_MATEN	BV	459	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	OARH Sensor	OARHEN	EQUIPCFG_OARHEN	BV	460	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	RARH Sensor	RARHEN	EQUIPCFG_RARHEN	BV	461	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	SAT Offset	SATOEN	EQUIPCFG_SATOEN	BV	463	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	Supply Pressure Sensor	SDPEN	EQUIPCFG_SDPEN	BV	465	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	Building Pressure Sensor	BPEN	EQUIPCFG_BPEN	BV	466	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	OAQ Sensor	OAQEN	EQUIPCFG_OAQEN	BV	467	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	IAQ Sensor	IAQEN	EQUIPCFG_IAQEN	BV	468	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	Return Air Press Sensor	RAP_EN	EFCFG_RAP_EN	BV	469	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Sensor Config	SP High Range	SDPHIRNG	IDFCFG_SDPHIRNG	AV	577	Type 6	0	Yes	3	0	5	IN_H2O	
Sensor Config	SP Low Range	SDPLORNG	IDFCFG_SDPLOING	AV	578	Type 6	0	Yes	0	0	5	IN_H2O	
Sensor Config	BP High Range	BPHIRNG	IDFCFG_BPHIRNG	AV	579	Type 6	0	Yes	0.25	-1	1	IN_H2O	
Sensor Config	BP Low Range	BPLORNG	IDFCFG_BPLORNG	AV	580	Type 6	0	Yes	-0.25	-1	1	IN_H2O	
Sensor Config	IAQ Low Range	IAQ_LOW	ALERTCFG_IAQ_LOW	AV	581	Type 6	0	Yes	0	—	—	PPM	
Sensor Config	IAQ High Range	IAQ_HI	ALERTCFG_IAQ_HI	AV	582	Type 6	0	Yes	5000	—	—	PPM	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Sensor Config	SPT Occupancy Override	OCCUOVER	UNITCFG_OCCUOVER	AV	583	Type 6	0	Yes	0	0	1	NO_UNIT	
Sensor Config	Filter Press Drop	FLTPDEN	EQUIPCFG_FLTPDEN	BV	617	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Service	SDT Setpoint Enable	SDTSipEn	CNDSTP_SDTSipEn	BV	171	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Service	CF User Start Spd Enab	SPDSipEn	CNDSTP_SPDSipEn	BV	172	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Service	Send Email option	NA	EMAILCFG_Send	AV	251	Type 6	0	Yes	0	0	1	NO_UNIT	
Service	Port Number	portNbr	EMAILCFG_portNbr	AV	252	Type 6	0	Yes	0	—	—	NO_UNIT	
Service	Server Timeout	srvTim	EMAILCFG_srvTim	AV	253	Type 6	0	Yes	0	—	—	NO_UNIT	
Service	Attach Blackbox Log	NA	EMAILCFG_attach_blackbox	AV	254	Type 6	0	Yes	0	0	1	NO_UNIT	
Service	Humidizer Purge	NA	HMZR_CONDPURG	AV	301	Type 6	0	No	0	—	—	NO_UNIT	
Service	Cir A VSC Boost State	BOOSTSTA	CMPASTS_BOOSTSTA	AV	346	Type 6	0	No	0	—	—	NO_UNIT	
Service	Oil Recovery Actv Cir A	NA	CMPASTS_OILRECAC	AV	461	Type 6	0	No	0	—	—	NO_UNIT	
Service	Cir A Oil Rec Time Left	ORTMLFTA	CMPASTS_ORTMLFTA	AV	462	Type 6	0	No	0	—	—	SECONDS	
Service	Oil Recovery Actv Cir B	CBORECAC	CMPBSTS_OILRECAC	AV	463	Type 6	0	No	0	—	—	NO_UNIT	
Service	Cir B Oil Rec Time Left	ORTMLFTB	CMPBSTS_ORTMLFTB	AV	464	Type 6	0	No	0	—	—	SECONDS	
Service	Cmp Nominal Spd Max A1	CMPMAXA1	COOLSTP_CMPMAXA1	AV	474	Type 6	0	Yes	100	0	100	PERCENT	
Service	Cmp Nominal Spd Min A1	CMPMINA1	COOLSTP_CMPMINA1	AV	475	Type 6	0	Yes	0	0	100	PERCENT	
Service	Cmp Nominal Spd Max A2	CMPMAXA2	COOLSTP_CMPMAXA2	AV	476	Type 6	0	Yes	100	0	100	PERCENT	
Service	Cmp Nominal Spd Min A2	CMPMINA2	COOLSTP_CMPMINA2	AV	477	Type 6	0	Yes	0	0	100	PERCENT	
Service	Cmp Nominal Spd Max B1	CMPMAXB1	COOLSTP_CMPMAXB1	AV	478	Type 6	0	Yes	100	0	100	PERCENT	
Service	Cmp Nominal Spd Min B1	CMPMINB1	COOLSTP_CMPMINB1	AV	479	Type 6	0	Yes	0	0	100	PERCENT	
Service	Cmp Nominal Spd Max B2	CMPMAXB2	COOLSTP_CMPMAXB2	AV	480	Type 6	0	Yes	100	0	100	PERCENT	
Service	Cmp Nominal Spd Min B2	CMPMINB2	COOLSTP_CMPMINB2	AV	481	Type 6	0	Yes	0	0	100	PERCENT	
Service	SDT Setpoint 1	SDTTEMP1	CNDSTP_SDTEMP1	AV	493	Type 6	0	Yes	0	0	0	DEGREE_F	
Service	SDT Setpoint 2	SDTTEMP2	CNDSTP_SDTEMP2	AV	494	Type 6	0	Yes	0	—	—	DEGREE_F	
Service	SDT Setpoint 3	SDTTEMP3	CNDSTP_SDTEMP3	AV	495	Type 6	0	Yes	0	—	—	DEGREE_F	
Service	Load Request Comp A1	A1LOADRQ	CMPA1STS_LOADREQ	AV	519	Type 6	0	No	0	—	—	NO_UNIT	
Service	Load Request Comp A2	A2LOADRQ	CMPA2STS_LOADREQ	AV	520	Type 6	0	No	0	—	—	NO_UNIT	
Service	Load Request Comp B1	B1LOADRQ	CMPB1STS_LOADREQ	AV	521	Type 6	0	No	0	—	—	NO_UNIT	
Service	Load Request Comp B2	B2LOADRQ	CMPB2STS_LOADREQ	AV	522	Type 6	0	No	0	—	—	NO_UNIT	
Service	SST Env Min CirA	SSTENMNA	CMPASTS_SSTENVMN	AV	528	Type 6	0	No	0	—	—	NO_UNIT	
Service	SST Env Max CirA	SSTENMXA	CMPASTS_SSTENVMX	AV	529	Type 6	0	No	0	—	—	NO_UNIT	
Service	SDT Env Min CirA	SDTENMNA	CMPASTS_SDTEENVMN	AV	530	Type 6	0	No	0	—	—	NO_UNIT	
Service	SDT Env Max CirA	SDTENMXA	CMPASTS_SDTEENVMX	AV	531	Type 6	0	No	0	—	—	NO_UNIT	
Service	SST Env Min Cir B	SSTENMNB	CMPBSTS_SSTENVMN	AV	532	Type 6	0	No	0	—	—	NO_UNIT	
Service	SST Env Max Cir B	SSTENMXB	CMPBSTS_SSTENVMX	AV	533	Type 6	0	No	0	—	—	NO_UNIT	
Service	SDT Env Min Cir B	SDTENMNB	CMPBSTS_SDTEENVMN	AV	534	Type 6	0	No	0	—	—	NO_UNIT	
Service	SDT Env Max Cir B	SDTENMXB	CMPBSTS_SDTEENVMX	AV	535	Type 6	0	No	0	—	—	NO_UNIT	
Service	SST Abs Min CirA	SSTABMNA	CMPASTS_SSTABSMN	AV	536	Type 6	0	No	0	—	—	NO_UNIT	
Service	SST Abs Max CirA	SSTABMXA	CMPASTS_SSTABSMX	AV	537	Type 6	0	No	0	—	—	NO_UNIT	
Service	SDT Abs Min Cir A	SDTABMNA	CMPASTS_SDTABSMN	AV	538	Type 6	0	No	0	—	—	NO_UNIT	
Service	SDT Abs Max Cir A	SDTABMXA	CMPASTS_SDTABSMX	AV	539	Type 6	0	No	0	—	—	NO_UNIT	
Service	SST Abs Min Cir B	SSTABMNB	CMPBSTS_SSTABSMN	AV	540	Type 6	0	No	0	—	—	NO_UNIT	
Service	SST Abs Max Cir B	SSTABMXB	CMPBSTS_SSTABSMX	AV	541	Type 6	0	No	0	—	—	NO_UNIT	
Service	SDT Abs Min Cir B	SDTABMNB	CMPBSTS_SDTABSMN	AV	542	Type 6	0	No	0	—	—	NO_UNIT	
Service	SDT Abs Max Cir B	SDTABMXB	CMPBSTS_SDTABSMX	AV	543	Type 6	0	No	0	—	—	NO_UNIT	
Service	Compressor A1 Enable	CMPRA1EN	CMPRA1EN	BV	616	Type 4	0	Yes	1	0	1	NO_UNIT	0=DISABLE 1=ENABLE

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Service Alert Config	Prognostics SP Enable	PG_SP_EN	UNITCFG_PG_SP_EN	BV	2	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Service Alert Config	Prognostics BP Enable	PG_BP_EN	UNITCFG_PG_BP_EN	BV	3	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Service Alert Config	T24 Diagnostic	T24ENAB	ALERTCFG_T24ENAB	BV	5	Type 4	0	Yes	1	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Service Alert Config	ERV Frost Alert Limit	ERV_ALRT	ALERTCFG2_ERV_ALRT	AV	45	Type 6	0	Yes	35	25	40	DEGREE_F	
Service Alert Config	Prognostics SP Deadband	PG_SP_DB	UNITCFG_PG_SP_DB	AV	46	Type 6	0	Yes	0.25	0	5	IN_H2O	
Service Alert Config	Prognostics BP Deadband	PG_BP_DB	UNITCFG_PG_BP_DB	AV	47	Type 6	0	Yes	0.05	0	1	IN_H2O	
Service Alert Config	OAD Fault Detect Gap	FLTGP	OADCFG_FLTGP	AV	57	Type 6	0	Yes	5	2	100	PERCENT	
Service Alert Config	OAD Fault Detect Time	FLTTIME	OADCFG_FLTTIME	AV	58	Type 6	0	Yes	240	60	600	SECONDS	
Service Alert Config	COFS Action	COFS_ACT	ALERTCFG_COFS_ACT	AV	74	Type 6	0	Yes	0	0	1	NO_UNIT	
Service Alert Config	COFS Trips	COFS_TRP	ALERTCFG_COFS_TRP	AV	75	Type 6	0	Yes	5	1	20	NO_UNIT	
Service Alert Config	COFS Time	COFS_TME	ALERTCFG_COFS_TME	AV	76	Type 6	0	Yes	5	1	20	HOURS	
Service Alert Config	T24 OA RA diff	OARADIFF	ALERTCFG_OARADIFF	AV	77	Type 6	0	Yes	15	5	20	DEGREE_F	
Service Alert Config	T24 SAT Move Chk	SATMOVE	ALERTCFG_SATMOVE	AV	78	Type 6	0	Yes	10	10	20	PERCENT	
Service Alert Config	T24 Sat Change	SATCHANGE	ALERTCFG_SATCHANGE	AV	79	Type 6	0	Yes	0.2	0	5	DEGREE_F	
Service Alert Config	T24 Move Detect	MOVEDTEC	ALERTCFG_MOVEDTEC	AV	80	Type 6	0	Yes	1	1	10	PERCENT	
Service Alert Config	T24 SAT Settle	SASETTLE	ALERTCFG_SASETTLE	AV	81	Type 6	0	Yes	120	5	450	SECONDS	
Service Alert Config	T24 Econ Min Pos	T24ECMIN	ALERTCFG_T24ECMIN	AV	82	Type 6	0	Yes	15	0	50	PERCENT	
Service Alert Config	T24 Econ Max Pos	T24ECMAX	ALERTCFG_T24ECMAX	AV	83	Type 6	0	Yes	85	50	100	PERCENT	
Service Alert Config	T24 Heat-Cool Delay	HCDELAY	ALERTCFG_HCDELAY	AV	84	Type 6	0	Yes	25	0	60	MINUTES	
Service Alert Config	Ret Air Press Threshold	RAP_TH	EFCFG_RAP_TH	AV	85	Type 6	0	Yes	-0.4	-1	1	IN_H2O	
Service Alert Config	Static Duct Press Limit	MSDPT	ALERTCFG_MSDPT	AV	86	Type 6	0	Yes	3	0	5	IN_H2O	
Service Alert Config	Heat Sink Ctrl Offset	HSCTRLOF	HEATSINK_HSCTRLOF	AV	89	Type 6	0	Yes	10	0	20	DEGREE_F	
Service Alert Config	Low Power Alarm Enable	LPALMEN	LPALMEN	BV	448	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Service Alert Config	Low Power Hysteresis(mS)	LPALMHYS	LPALMHYS	AV	575	Type 6	0	Yes	500	0	2000	NO_UNIT	
Service Alert Config	OAD/RAD % Open Limit	DAMPLVL	OADCFG_DAMPLVL	AV	682	Type 6	0	No	50	0	100	PERCENT	
Service Alert Config	RAD Feedback Time	FEEDBKTM	OADCFG_FEEDBKTM	AV	685	Type 6	0	No	300	120	600	SECONDS	
Service Alert Config	RAD FeedBack Tolerance	FEEDBKTL	OADCFG_FEEDBKTL	AV	686	Type 6	0	No	10	5	50	PERCENT	
Service Config	Supplemental Heat	SUPPHEAT	DHUMCFG_SUPPHEAT	BV	10	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Service Config	Service Lock Out	DISABLEM	SERVICE_DISABLEM	BV	173	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Service Config	Low Cap Req Comp On	LCRCO	COOLCFG_LCRCO	BV	174	Type 4	0	Yes	1	0	1	NO_UNIT	0=NO 1=YES
Service Config	VSC Fixed Speed Override	VSCFS_OR	COOLCFG_VSCFS_OR	BV	175	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Service Config	High MT Dehum Lockout	DHMTLCK	DHUMCFG_DHMTLCK	AV	209	Type 6	0	Yes	105	90	115	DEGREE_F	
Service Config	HGRH Coil Open Time	RHTOPTME	DHUMCFG_RHTOPTME	AV	210	Type 6	0	Yes	2	1	5	MINUTES	
Service Config	HGRH Coil Closed Time	RHTCLTME	DHUMCFG_RHTCLTME	AV	211	Type 6	0	Yes	45	5	120	MINUTES	
Service Config	Con Coil Bypass Time	CCBYPTME	DHUMCFG_CCBYPTME	AV	212	Type 6	0	Yes	0	0	0	MINUTES	
Service Config	Cond Coil Purge Pos	CCPRGPOS	DHUMCFG_CCPRGPOS	AV	213	Type 6	0	Yes	50	0	100	PERCENT	
Service Config	Cond Coil Purge Time	CCPRGTME	DHUMCFG_CCPRGTME	AV	214	Type 6	0	Yes	10	—	—	MINUTES	
Service Config	Outdoor Leak Detector	OUTLKEN	OUTLKEN	BV	455	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Service Config	Humidimizer Cntrl Valve	HUMZEN	EQUIPCFG_HUMZEN	BV	464	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Service Config	Heat to Cool Guard	HTTOCL	SERVICE1_HTTOCL	AV	468	Type 6	0	Yes	10	0	20	MINUTES	
Service Config	Cool to Heat Guard	CLTOHT	SERVICE1_CLTOHT	AV	469	Type 6	0	Yes	10	0	20	MINUTES	

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Service Config	CCH A OAT Lockout	CCHTHA	COOLCFG_CCHTHA	AV	471	Type 6	0	Yes	80	50	90	DEGREE_F	
Service Config	VS Oil Level Switch A	VSOLAEN	EQUIPCFG_VSOLAEN	BV	471	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Service Config	CCH B OAT Lockout	CCHTHB	COOLCFG_CCHTHB	AV	472	Type 6	0	Yes	80	50	90	DEGREE_F	
Service Config	SCT High Limit	SCT_HLIM	COOLCFG_SCT_HLIM	AV	485	Type 6	0	Yes	115	100	140	DEGREE_F	
Service Config	SCT Low Limit	SCT_LLIM	COOLCFG_SCT_LLIM	AV	486	Type 6	0	Yes	80	40	90	DEGREE_F	
Service Config	HGRH Valve Min Pos	RHMINPOS	DHUMCFG_RHMINPOS	AV	487	Type 6	0	Yes	1	0	50	PERCENT	
Service Config	HGRH Valve Max Pos	RHMAXPOS	DHUMCFG_RHMAXPOS	AV	488	Type 6	0	Yes	99	50	100	PERCENT	
Service Config	HGRH Start Pos	RHSTART	DHUMCFG_RHSTART	AV	489	Type 6	0	Yes	5	0	100	PERCENT	
Service Config	HGRH Startup Time	RHTIME	DHUMCFG_RHTIME	AV	490	Type 6	0	Yes	30	0	120	SECONDS	
Service Config	Comp MAT Lockout	CMPMATL	SERVICE1_CMPMATL	AV	491	Type 6	0	Yes	65	-20	70	DEGREE_F	
Service Config	Comp OAT Lock	CMPOATL	SERVICE1_CMPOATL	AV	492	Type 6	0	Yes	60	-20	70	DEGREE_F	
Service Config	CF Speed MIN	CFSPDMN1	COOLCFG_CFSPDMN1	AV	496	Type 6	0	Yes	0	0	100	PERCENT	
Service Config	CF Speed MAX	CFSPDMX1	COOLCFG_CFSPDMX1	AV	497	Type 6	0	Yes	100	0	100	PERCENT	
Service Config	CF User Start Speed	CFSTSPD1	COOLCFG_CFSTSPD1	AV	498	Type 6	0	Yes	0	0	100	PERCENT	
Service Config	Test Mode Timeout	NA	SERVICE1_SVTESTMT	AV	499	Type 6	0	Yes	8	1	168	HOURS	
Service Config	Lead Lag Config	LLAGCFG	SERVICE_LLAGCFG	AV	501	Type 6	0	Yes	1	1	2	NO_UNIT	
Service Config	Recycle Limit	RCYCLIM	SERVICE_RCYCLIM	AV	502	Type 6	0	Yes	45	35	50	DEGREE_F	
Service Config	Recycle DB	RCYCDB	SERVICE_RCYCDB	AV	503	Type 6	0	Yes	5	0	10	DEGREE_F	
Service Config	Oil Recov Low Thld	OILLOWTH	DHUMCFG_OILLOWTH	AV	504	Type 6	0	Yes	20	0	100	PERCENT	
Service Config	Oil Recov High Thld	OILHITH	DHUMCFG_OILHITH	AV	505	Type 6	0	Yes	50	0	100	PERCENT	
Service Config	Dehum Oil Recov Time	OILTIME	DHUMCFG_OILTIME	AV	506	Type 6	0	Yes	60	0	120	MINUTES	
Service Config	Num of ODF VFDs in Unit	VFDODFNM	EQUIPCFG_VFDODFNM	AV	627	Type 6	0	No	1	1	3	NO_UNIT	
Start/Stop	Auto Restart	AUTRST	UNITCFG_AUTRST	BV	207	Type 4	0	Yes	0	0	1	NO_UNIT	0=OFF 1=ON
States	Cool Comfort Trending	CMTRNDAC	SVCOUT_CMTRNDAC	BV	8	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
States	Circuit A State	CIRCASTN	STATES_CIRCASTN	MV	13	Type 5	0	No	—	1	—	NO_UNIT	1=OFF 2=NOT_RDY 3=READY 4=STARTING 5=RUNNING 6=STOPPING 7=DISABLE 8=TRIPOUT 9=MAX
States	Circuit B State	CIRCBSTN	STATES_CIRCBSTN	MV	14	Type 5	0	No	—	1	—	NO_UNIT	1=OFF 2=NOT_RDY 3=READY 4=STARTING 5=RUNNING 6=STOPPING 7=DISABLE 8=TRIPOUT 9=MAX
States	Comp A1 State	CMPPA1STN	STATES_CMPPA1STN	MV	15	Type 5	0	No	—	1	—	NO_UNIT	1=OFF 2=NOT_RDY 3=READY 4=STARTING 5=RUNNING 6=STOPPING 7=DISABLE 8=TRIPOUT 9=MAX

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
States	Comp A2 State	CMPA2STN	STATES_CMPA2STN	MV	16	Type 5	0	No	—	1	—	NO_UNIT	1=OFF 2=NOT_RDY 3=READY 4=STARTING 5=RUNNING 6=STOPPING 7=DISABLE 8=TRIPOUT 9=MAX
States	Comp B1 State	CMPB1STN	STATES_CMPB1STN	MV	17	Type 5	0	No	—	1	—	NO_UNIT	1=OFF 2=NOT_RDY 3=READY 4=STARTING 5=RUNNING 6=STOPPING 7=DISABLE 8=TRIPOUT 9=MAX
States	Comp B2 State	NA	STATES_CMPB2STN	MV	18	Type 5	0	No	—	1	—	NO_UNIT	1=OFF 2=NOT_RDY 3=READY 4=STARTING 5=RUNNING 6=STOPPING 7=DISABLE 8=TRIPOUT 9=MAX
States	ODF A State	ODF1STN	STATES_ODF1STN	MV	19	Type 5	0	No	—	1	—	NO_UNIT	1=OFF 2=NOT_RDY 3=READY 4=STARTING 5=RUNNING 6=STOPPING 7=DISABLE 8=TRIPOUT 9=MAX
States	CF 2 State	ODF2STN	STATES_ODF2STN	MV	20	Type 5	0	No	—	1	—	NO_UNIT	1=OFF 2=NOT_RDY 3=READY 4=STARTING 5=RUNNING 6=STOPPING 7=DISABLE 8=TRIPOUT 9=MAX
States	CF 3 State	ODF3STN	STATES_ODF3STN	MV	21	Type 5	0	No	—	1	—	NO_UNIT	1=OFF 2=NOT_RDY 3=READY 4=STARTING 5=RUNNING 6=STOPPING 7=DISABLE 8=TRIPOUT 9=MAX

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
States	Indoor Fan State	IDFNUM	STATES_IDFNUM	MV	22	Type 5	0	No	—	1	—	NO_UNIT	1=OFF 2=NOT_RDY 3=READY 4=STARTING 5=RUNNING 6=STOPPING 7=DISABLE 8=TRIPOUT 9=MAX
States	HGRH State	RHTSTNUM	STATES_RHTSTNUM	MV	23	Type 5	0	No	—	1	—	NO_UNIT	1=OFF 2=NOT_RDY 3=READY 4=STARTING 5=RUNNING 6=STOPPING 7=DISABLE 8=TRIPOUT 9=MAX
States	Heater State	HEATRSTN	STATES_HEATRSTN	MV	24	Type 5	0	No	—	1	—	NO_UNIT	1=OFF 2=NOT_RDY 3=READY 4=STARTING 5=RUNNING 6=STOPPING 7=DISABLE 8=TRIPOUT 9=MAX
States	OAD State	ECONNUM	STATES_ECONNUM	MV	25	Type 5	0	No	—	1	—	NO_UNIT	1=OFF 2=NOT_RDY 3=READY 4=STARTING 5=RUNNING 6=STOPPING 7=DISABLE 8=TRIPOUT 9=MAX
States	Add Heat Comfort Trend	CMTRNDAH	SVCOUT_CMTRNDAH	BV	136	Type 4	0	Yes	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
States	Pre-Occ Purge State	PURGEACT	STATES_PURGEACT	BV	178	Type 4	0	No	0	0	1	NO_UNIT	0=OFF 1=ON
States	EXV A1 State Number	EXVA1STN	STATES_EXVA1STN	AV	668	Type 6	0	No	0	—	—	NO_UNIT	
States	EXV A2 State Number	EXVA2STN	STATES_EXVA2STN	AV	669	Type 6	0	No	0	—	—	NO_UNIT	
States	Exhaust Fan State Number	EFSTN	STATES_EFSTN	AV	670	Type 6	0	No	0	—	—	NO_UNIT	
States	EXV B1 State Number	EXVB1STN	STATES_EXVB1STN	AV	692	Type 6	0	No	0	—	—	NO_UNIT	
Status	EXV B2 State Number	EXVB2STN	STATES_EXVB2STN	AV	693	Type 6	0	No	0	—	—	NO_UNIT	
Status	IDF Feedback Status	IDFFDBK	IDFFDBK_STATUS	BV	6	Type 4	0	No	1	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Status	Occupancy Source	OCCSRNUM	STATES_OCCSRNUM	MV	26	Type 5	0	No	—	1	—	NO_UNIT	1=DEFAULTSCHEDULE 2=LOCALSCHEDULE 3=BMSSCHEDULE 4=REMOTESWITCH 5=TIMEDOVERRIDE 6=LINKAGE 7=FORCED 8=MOTIONSENSING
Status	CCN Linkage Active	NA	LINK_ACT	BV	140	Type 4	0	No	0	—	—	NO_UNIT	0=NO 1=YES

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Status	Free Cooling Available	OKTOFRCL	STATES_OKTOFRCL	BV	176	Type 4	0	No	0	—	—	NO_UNIT	0=YES 1=NO
Status	Free Dehum Status	OKTOFDHM	STATES_OKTOFDHM	BV	180	Type 4	0	No	0	—	—	NO_UNIT	0=DISABLE 1=ENABLE
Status	Heat Request from UI	HEATREQ	HCSTATUS_HEATREQ	AV	284	Type 6	0	No	0	—	—	PERCENT	
Status	Supply Air Temp Cntrl Pt	NA	HCSTATUS_SATCTLPT	AV	285	Type 6	0	No	0	—	—	NO_UNIT	
Status	Cooling Capacity	NA	HCSTATUS_CAPACITY	AV	286	Type 6	0	No	0	—	—	NO_UNIT	
Status	Occupied	OCCUPIED	GENUNIT_OCCUPIED	AV	289	Type 6	0	No	0	—	—	NO_UNIT	0=UNOCCUPIED 1=OCCUPIED 2=NOT USED
Status	Demand Determination	DMD_DET	MDESTS_DMD_DET	AV	290	Type 6	0	No	0	—	—	NO_UNIT	0=NONE 1=LOW COOL 2=MED COOL 3=HIGH COOL 4=VAV Cool 5=LOW HEAT 6=HIGH HEAT 7=VENTILATION 8=DOAS 9=FORCED 10=DOAS COOL 11=DOAS HEAT 12=COOL TEMPERED VENT 13=HEAT TEMPERED VENT

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Status	Operational State	OP_STATE	MDESTS_OP_STATE	AV	291	Type 6	0	No	0	—	—	NO_UNIT	0=NONE 1=FREE COOLING 2=MECH COOLING 3=INTEGRATED COOLING 4=HEAT TEMPERED COOLING 5=2-STAGE HEATING 6=MOD HEATING 7=ELECTRIC HEATING 8=HYDRONIC HEATING 9=DEHUM HEATING 10=DEHUM VENT 11=DEHUM COOL 12=FAN ONLY 13=SMOKE PRESS 14=SMOKE EVAC 15=SMOKE PURGE 16=FIRE SHUTDOWN 17=COOL TEMPERED VENT 18=HEAT TEMPERED VENT 19=OIL RECOVERY 20=HZMR PURGE 21=HZMR RECHARGE 22=COOLING PREVENTED 23=HEATING PREVENTED 24=RECYCLE 25=TEST 26=EMERGENCY 27=OA DEHUM
Status	Heat/Cool status	NA	GENUNIT_HEATCOOL	AV	292	Type 6	0	No	0	0	2	NO_UNIT	0=NONE 1=COOL 2=HEAT
Status	Filter Status	NA	FILTER_STATUS	AV	297	Type 6	0	No	0	—	—	NO_UNIT	1=CLEAN 2=DIRTY
Status	Occupied Standby ZS	ZS_OCCSB	ZS_OCCSB	AV	367	Type 6	0	Yes	0	—	—	NO_UNIT	
Status	Time Until Next Occupied	MINTILOC	STATES_MINTILOC	AV	516	Type 6	0	No	0	—	—	MINUTES	
Status	SAT Selpt	ACTV_SP	COOLSTP_ACTV_SP	AV	527	Type 6	0	No	0	—	—	DEGREE_F	
Status	Sys Max Cool Cap	SMAxCCAP	GENUNIT_SMAxCCAP	AV	567	Type 6	0	No	0	0	100	PERCENT	
Status	Sys Max Heat Cap	SMAxHCAP	GENUNIT_SMAxHCAP	AV	568	Type 6	0	No	0	0	100	PERCENT	
Status	Linkage Active	SUPR_ADR	LINKAGE	AV	628	Type 6	0	No	0	0	1	NO_UNIT	
Status	First Wakeup Flag	NA	SYSTEM_FRSTWAKE	BV	635	Type 5	0	No	1	0	1	NO_UNIT	0=NORMAL 1=ALARM
Switch Configs	Smoke Detector	SMOKEEN	EQUIPCFG_SMOKEEN	BV	94	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Switch Configs	Thermostat	TSTATEN	EQUIPCFG_TSTATEN	BV	95	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE
Switch Configs	Humidistat	HUMSWEN	EQUIPCFG_HUMSWEN	BV	96	Type 4	0	Yes	0	0	1	NO_UNIT	0=DISABLE 1=ENABLE

APPENDIX A — BACNET AND CCN NETWORK POINTS (cont)

CATEGORY	DESCRIPTION	CCN POINT NAME	BACNET OBJECT NAME	TYPE	INSTANCE	OPTION	COVINC	WRITE?	DEFAULT	LOW LIMIT	HIGH LIMIT	UNITS	ENUMERATION
Switch Configs	Pre-Filter Switch	FILTSWEN	EQUIPCFG_FILTSWEN	BV	97	Type 4	0	Yes	0	0	1	NO_UNIT	0-DISABLE 1-ENABLE
Switch Configs	Phase Monitor	PMREN	EQUIPCFG_PMREN	BV	98	Type 4	0	Yes	0	0	1	NO_UNIT	0-DISABLE 1-ENABLE
Switch Configs	Emergency Shutdown En	SHTDWNEN	EQUIPCFG_SHTDWNEN	BV	99	Type 4	0	Yes	0	0	1	NO_UNIT	0-DISABLE 1-ENABLE
Switch Configs	ZDOR	ZDOREN	EQUIPCFG_ZDOREN	BV	100	Type 4	0	Yes	0	0	1	NO_UNIT	0-DISABLE 1-ENABLE
Switch Configs	Fire Switch	FIRESWEN	EQUIPCFG_FIRESWEN	BV	113	Type 4	0	Yes	0	0	1	NO_UNIT	0-DISABLE 1-ENABLE
Switch Configs	Evacuation Switch	EVACEN	EQUIPCFG_EVACEN	BV	114	Type 4	0	Yes	0	0	1	NO_UNIT	0-DISABLE 1-ENABLE
Switch Configs	Pressurization Switch	PRESSEN	EQUIPCFG_PRESSEN	BV	115	Type 4	0	Yes	0	0	1	NO_UNIT	0-DISABLE 1-ENABLE
Switch Configs	COFS	CONDEN	EQUIPCFG_CONDEN	BV	123	Type 4	0	Yes	0	0	1	NO_UNIT	0-DISABLE 1-ENABLE
Switch Configs	Remote Input	RESWEN	EQUIPCFG_RESWEN	AV	255	Type 6	0	Yes	0	0	2	NO_UNIT	
Switch Configs	Aux Relay	AUXRELAY	EQUIPCFG_AUXRELAY	AV	256	Type 6	0	Yes	0	0	2	NO_UNIT	
Switch Configs	Freeze Switch	NA	EQUIPCFG_FRZSWEN	AV	303	Type 6	0	No	0	0	1	NO_UNIT	
Switch Configs	Select IAQ or OAQ Switch	SIO3DI7	EQUIPCFG_SIO3DI7	AV	574	Type 6	0	Yes	0	0	2	NO_UNIT	1-DISABLE 2-ENABLE
Switch Configs	OAQ Switch	OAQSWEN	EQUIPCFG_OAQSWEN	AV	678	Type 6	0	No	0	0	1	NO_UNIT	1-DISABLE 2-ENABLE
Switch Configs	IAQ Switch	IAQSWEN	EQUIPCFG_IAQSWEN	AV	683	Type 6	0	No	0	—	—	NO_UNIT	1-DISABLE 2-ENABLE

APPENDIX B — NETWORK COMMUNICATION REPORT

The communication details are to be recorded by the installing contractor or controls contractor that configures the unit for communication. A copy of the communication details should be saved for record and shared with the customer. It may also be beneficial to store a copy in the unit control panel.

PROJECT INFORMATION

Project Name	_____	Controls Installer	_____
Address	_____	Contact Name	_____
City	_____	Contact Phone	_____
State/Providence	_____ Zip Code	Contact Email	_____

Building Automation System

Make	_____	Model	_____	Version	_____
Communication Type	☐ CCN	☐ BACnet MS/TP	☐ BACnet IP	☐	_____

Communication Details

APPENDIX C — UNIT COMMUNICATION REPORT

UNIT INFORMATION

Model Number _____
Unit Tag/Name _____

Serial Number _____
Unit Location _____

CCN Communication

NAME	CONFIGURATION
Primary BAS Network	CCN
CCN Address	
CCN Bus	
Baud Rate	
Broadcast Alerts	On / Off
Schedule Number	
Global Schedule Broadcast	
Broadcast ACK	On / Off
Time Broadcast	On / Off

BACnet MS/TP Communication

NAME	CONFIGURATION
Primary BAS Network	BACnet
BACnet Enable	MS/TP
Serial Port Config	MS/TP
Metric Units	On / Off
Network	
Identifier	
Percentage Conversion	0.00-1.00 / 0-100%

BACnet IP Communication

NAME	CONFIGURATION
Gateway 2 IP	
Gateway 2 Mask	
Set IP	
Set Net Mask	
Primary BAS Network	BACnet
BACnet Enable	BACnet IP
Metric Units	On / Off
Percentage Conversion	0.00-1.00 / 0-100%
Ethernet Adapter	Eth0 / Eth 1
UDP Port	
BACnet Mgmt Device	None / Foreign Device / BBMD
BBMD Address	
BBMD Time to Live	
MAC Address	