

VX4 Energy Management Thermostats with BACnet Integration

Combining Verdant's award-winning energy management system with a BMS can further optimize the performance of the whole building via BACnet Integration

Key features



Seamlessly Integrates with BACNet

Verdant's energy management system seamlessly connects a network of thermostats using our proprietary 900MHz communication protocol and one networking device - our Online Connection Kit.



No Need for WiFi

Our proprietary mesh network makes Verdant Thermostats the preferred player in commercial properties.



Cost Effective BACnet Solution

Verdant's proven control strategies balance energy savings with superior occupant comfort while sharing vital room info via BACnet integration (i.e., occupancy, temperature, and humidity), allowing the implementation of advanced and more efficient sequences for other mechanical systems.



Seamlessly Integrate with a Property's:

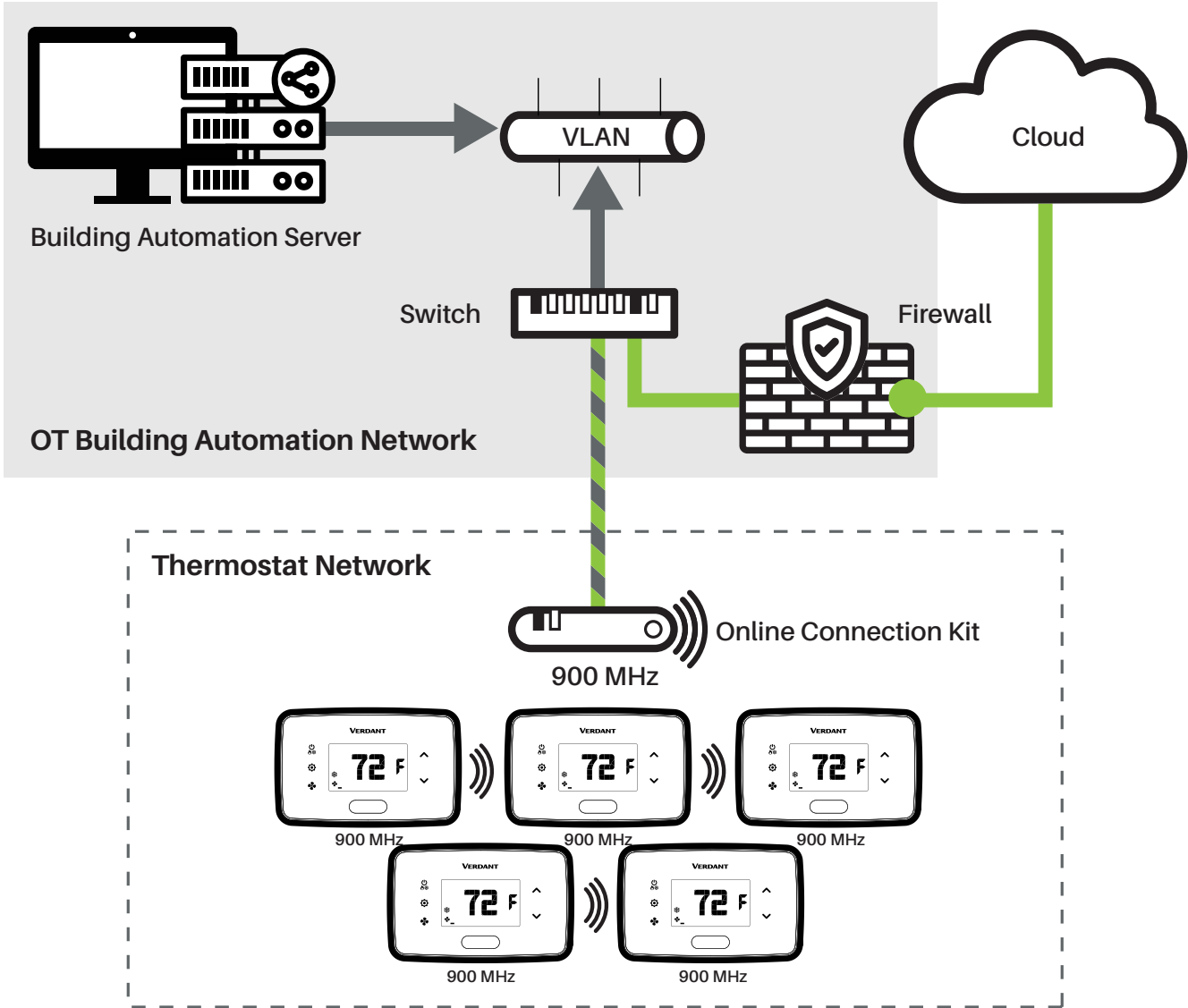
- Heating, Ventilation and Air Conditioning
- Lighting Control
- Elevator Monitoring
- Access Control
- Security and Fire Alarm Systems
- Energy Management and Energy Devices
- Operations Data



Data Point	Read/Write
Battery Percentage	R
Last Updated Timestamp	R
System Mode	R/W
Fan Speed	R/W
Min Setpoint Limit	R/W
Max Setpoint Limit	R/W
Gateway Online Status	R
Heat EQP Lockout	R/W

BACnet Data Points

Object	Type	Instance Number	R/W	Unit	Range	Description
Cool Setpoint	AV	100000 + hex2dec(room number)	R	°F	N/A	Cool Setpoint of Room#
Heat Setpoint	AV	200000 + hex2dec(room number)	R	°F	N/A	Heat Setpoint of Room#
Guest Setpoint	AV	300000 + hex2dec(room number)	RW	°F	60-90	Guest Setpoint of Room#
Thermostat Status	AV	400000 + hex2dec(room number)	RW	N/A	0 - TSTAT_STATE_REGULAR_ON 1 - TSTAT_STATE_REGULAR_OFF 2 - TSTAT_STATE_INSETBACK_ON //in setback and system is ON (room is unoccupied) 3 - TSTAT_STATE_INSETBACK_OFF //in setback and system is OFF	Heat/cool status (actively heating/cooling or setbacks) Combination of system mode and tstat-status would determine the heating/cooling status
Room Temperature	AV	500000 + hex2dec(room number)	R	°F	N/A	Room Temperature of Room#
Room Humidity	AV	600000 + hex2dec(room number)	R	rH%	N/A	Room Humidity of Room#
Occupancy State	BV	700000 + hex2dec(room number)	R	N/A	N/A	Occupancy State of Room#
Battery Percentage	AV	800000 + hex2dec(room number)	R	N/A	0-100	Battery Percentage of Thermostat in Room#
Last Updated Timestamp	AV	900000 + hex2dec(room number)	R	N/A	N/A	Last Packet Received Timestamp of room#
System Mode	AV	1000000 + hex2dec(room number)	RW	N/A	0 - SYSTEM_AUTO 1 - SYSTEM_HEAT 2 - SYSTEM_COOL	System Mode of Room#
Fan Speed	AV	1100000 + hex2dec(room number)	RW	N/A	READ VALUES: 0 - Fan Off 1 - Fan Low 3 - Fan High 2 - Fan Low and High WRITE VALUES: 0 - FAN_AUTO 170 - FAN_MEDIUM 1 - FAN_OFF 254 - FAN_HIGH 85 - FAN_LOW 255 - FAN_INVALID	Fan Mode and Speed of a Room#
Minimum Setpoint Limit	AV	1200000 + hex2dec(room number)	RW	°F		Minimum Setpoint Limit of a Room#
Maximum setpoint limit	AV	1300000 + hex2dec(room number)	RW	°F		Maximum Setpoint Limit of a Room#
Gateway Online Status	BV	1400000 + hex2dec(room number)	R	N/A	0 - Offline 1 - Online	Gateway Online Status
Heat EQP Lockout	AV	1500000 + hex2dec(room number)	RW	N/A	1 = Electric Lockout 2 = Compressor Lockout 0 = No Lockout	Heat Equipment Profile Lockout for Rooms



To learn more, visit verdant.copeland.com

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