IoT Architecture Examples

Commercial vs Residential

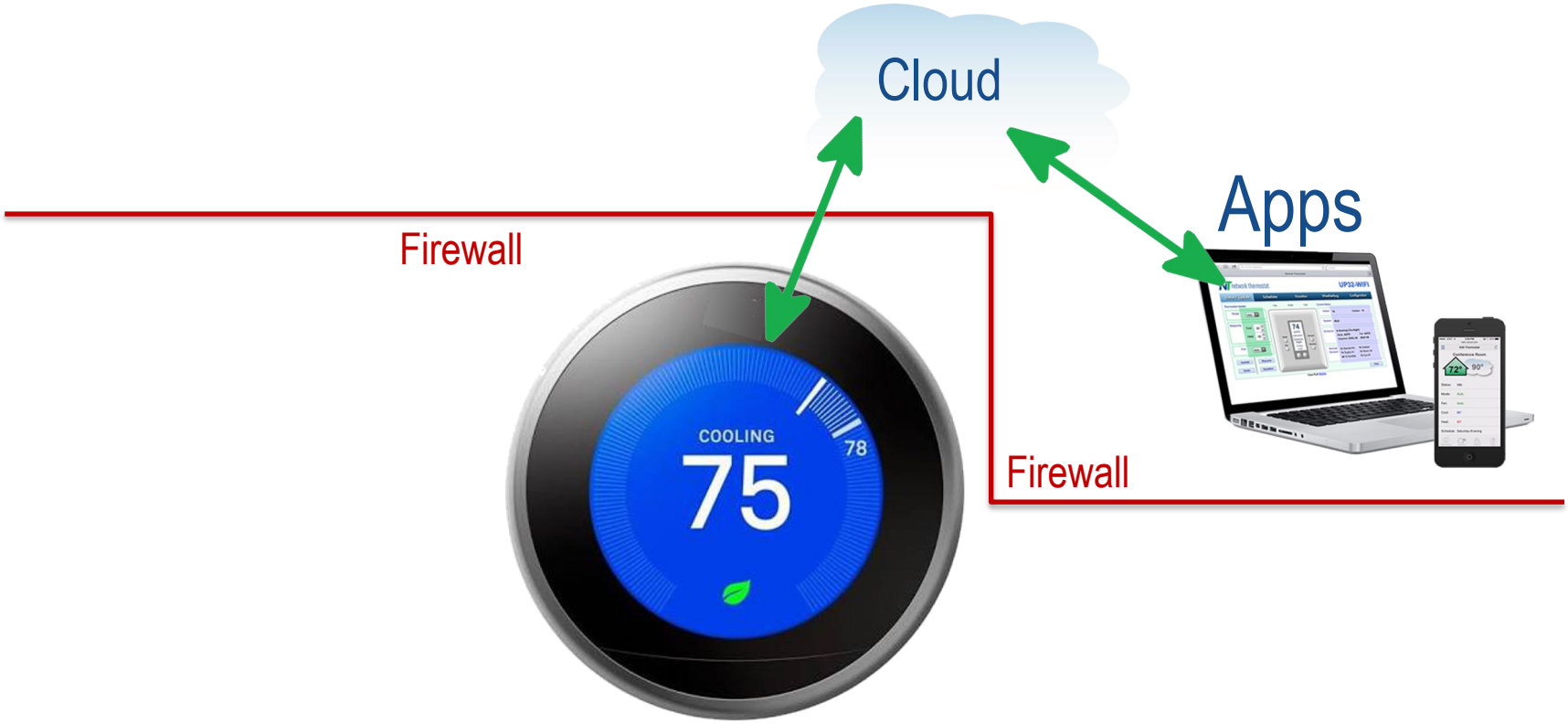
5.1”

4.7”

(relative sizes)

network thermostat

Typical Residential IoT Architecture



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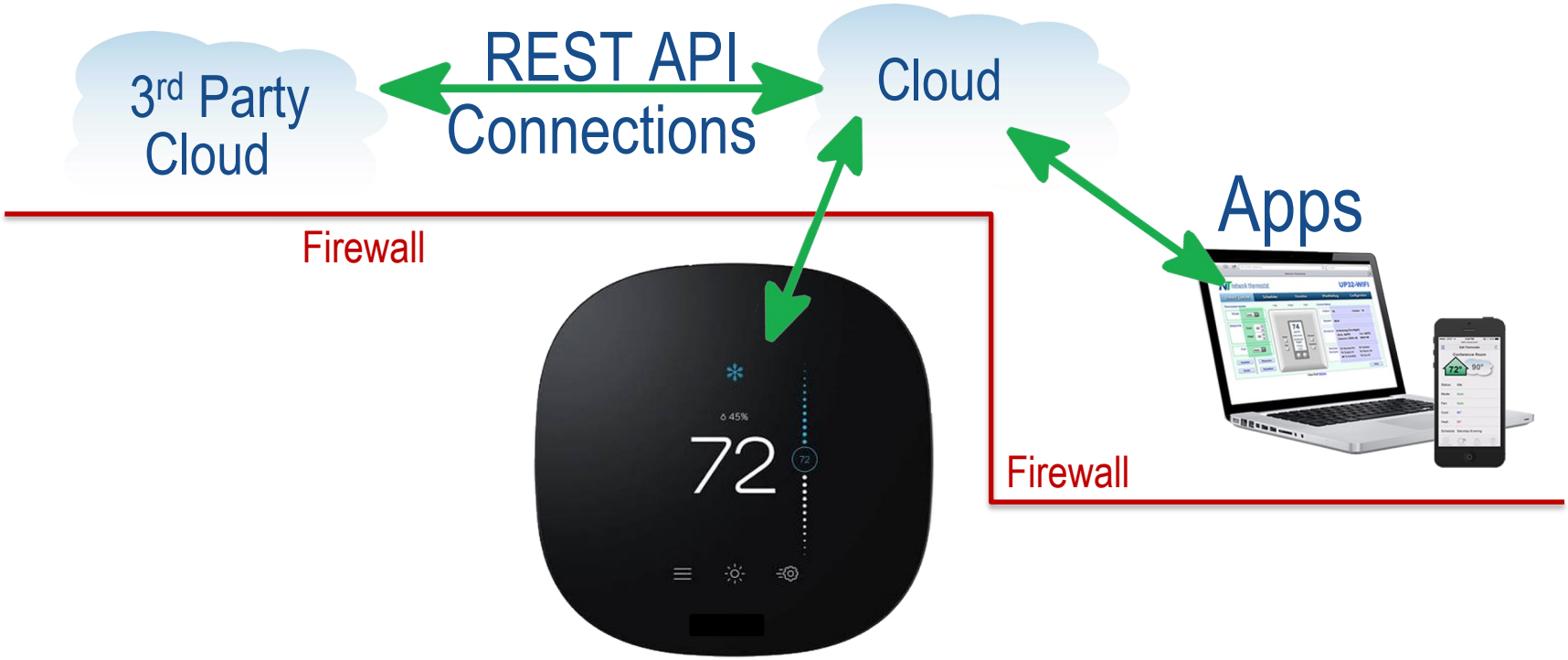
Typical Residential IoT Architecture



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NetX Commercial IoT Architecture

network thermostat

NetX Commercial IoT Architecture

Built-In Web Server (responsive) & API

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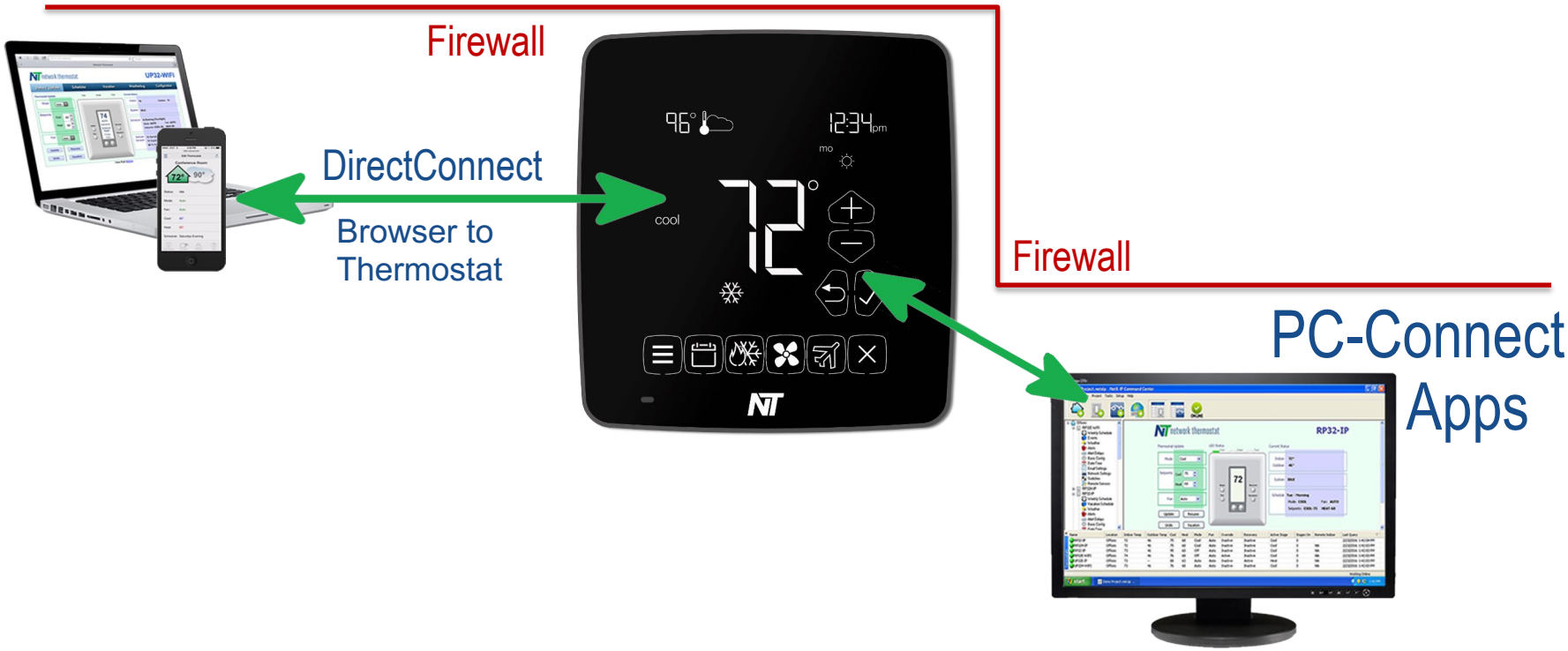
NetX Commercial IoT Architecture

Add PC Application

(uses Native API)



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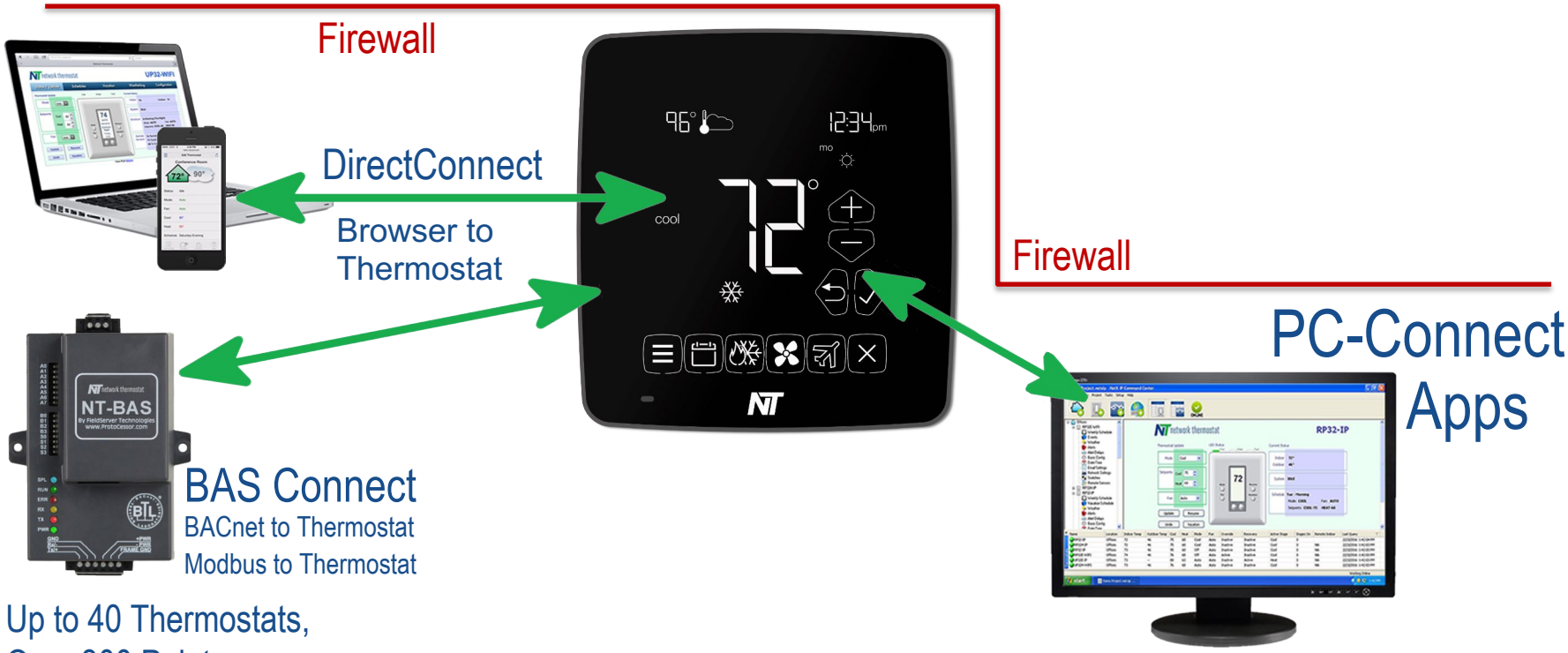
NetX Commercial IoT Architecture

Add BACnet/Modbus/N2/Echelon Gateway for Large BAS (if needed)



Add Cloud Dashboard and Apps

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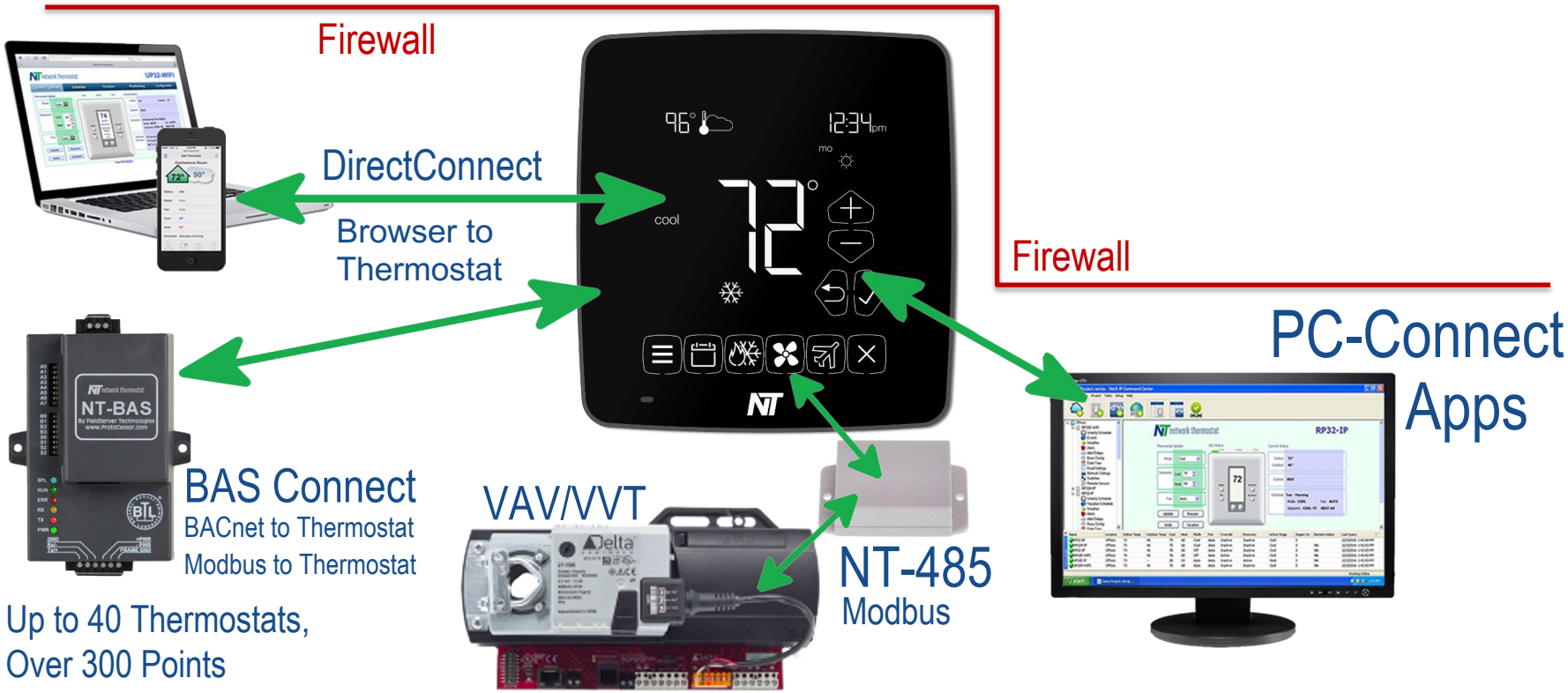
NetX Commercial IoT Architecture

Add VAV / VVT Controls (if needed)



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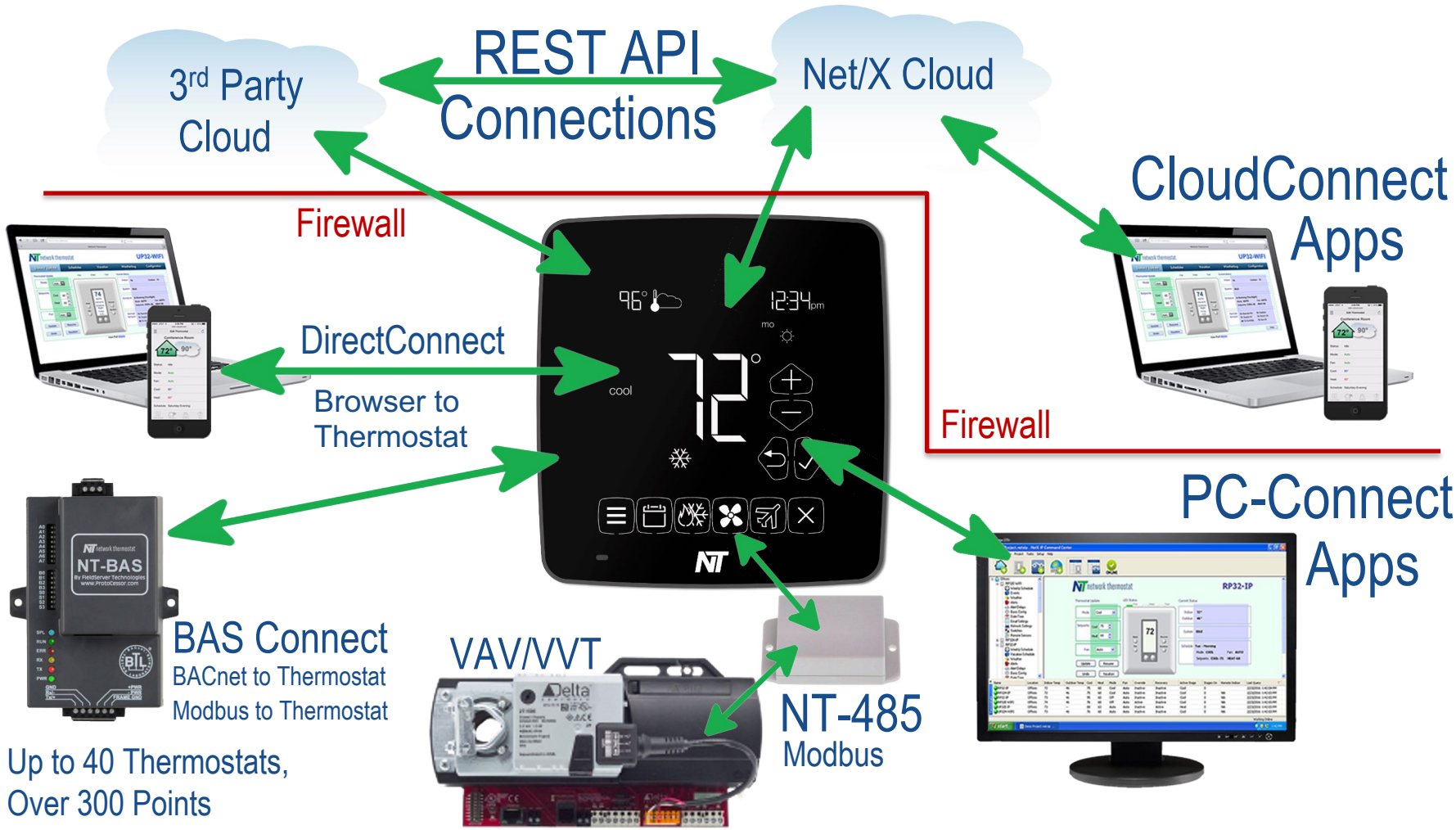
NetX Commercial IoT Architecture



Add Cloud Dashboard and Apps

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NetX Commercial Wired Sensors

NetX RSBus Protocol

- 10 Sensor Types
- 300+ Ft Range
- Full Integration with X5 & X7
- Alerting & Logging
- Includes Modbus translation

All X5 and X7 Series Thermostats
Both Wi-Fi and Ethernet

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NetX Commercial Wireless Sensors

Outdoor Temp/Hum

Indoor Temp/Hum
(up to 6)

X7U Thermostats
Both Wi-Fi and Ethernet

Aux 1-7

Any
Temperature
Use

DECT/ULE Wireless

- Up to 52 Sensors (6 types)
- Multi-Year Battery
- Meet ULE Standards
- 150-200’ Range
- Full Integration with X7U
- Alerting & Logging on X7U
- Can Be Used With NetX Wired Sensors

Water Sensor
(up to 10)

Door/Window Sensor
(up to 16)

Occupancy Sensor
(up to 10)

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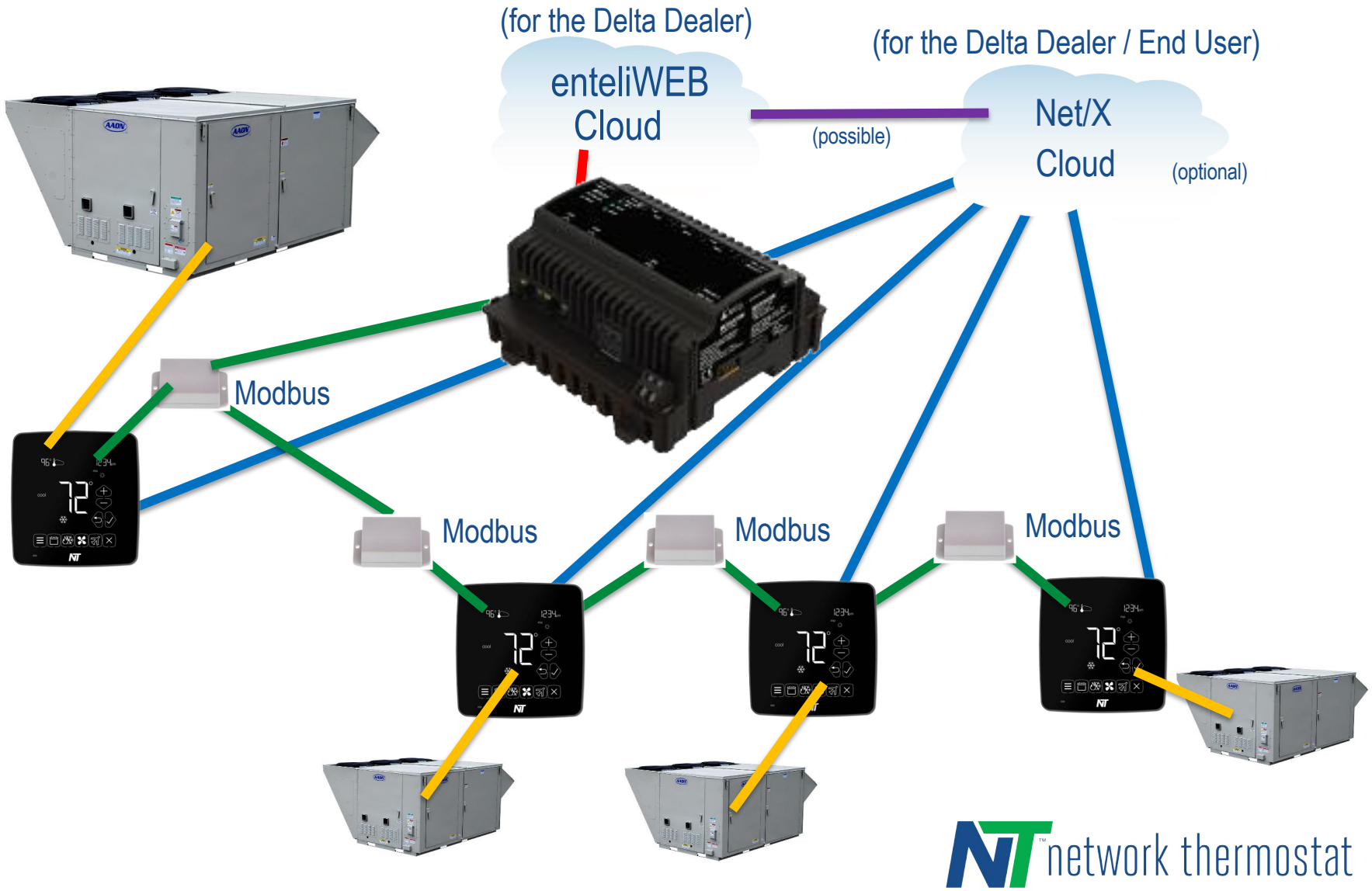
NetX-Delta IoT Architecture



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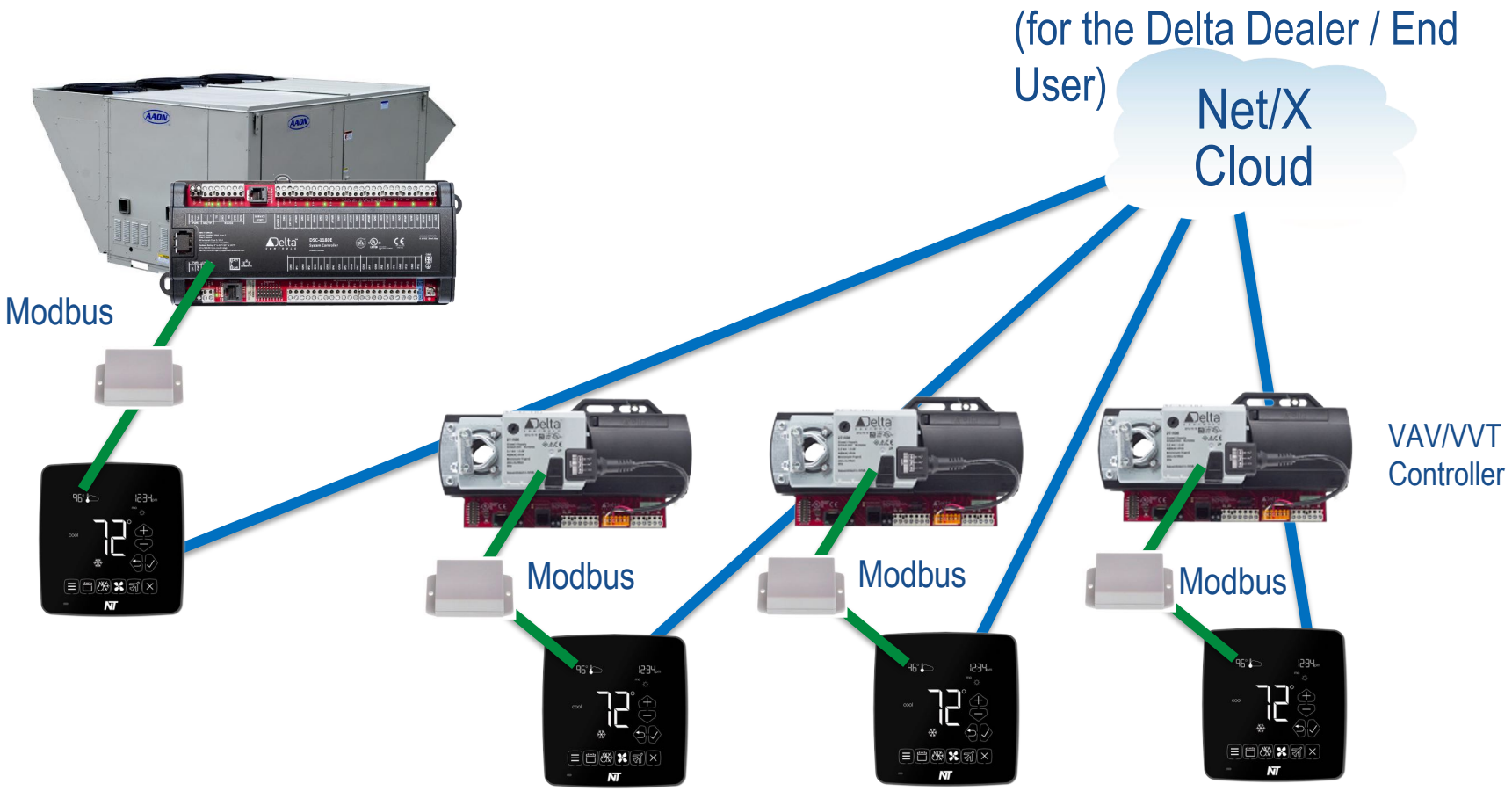
NetX-Delta IoT Architecture



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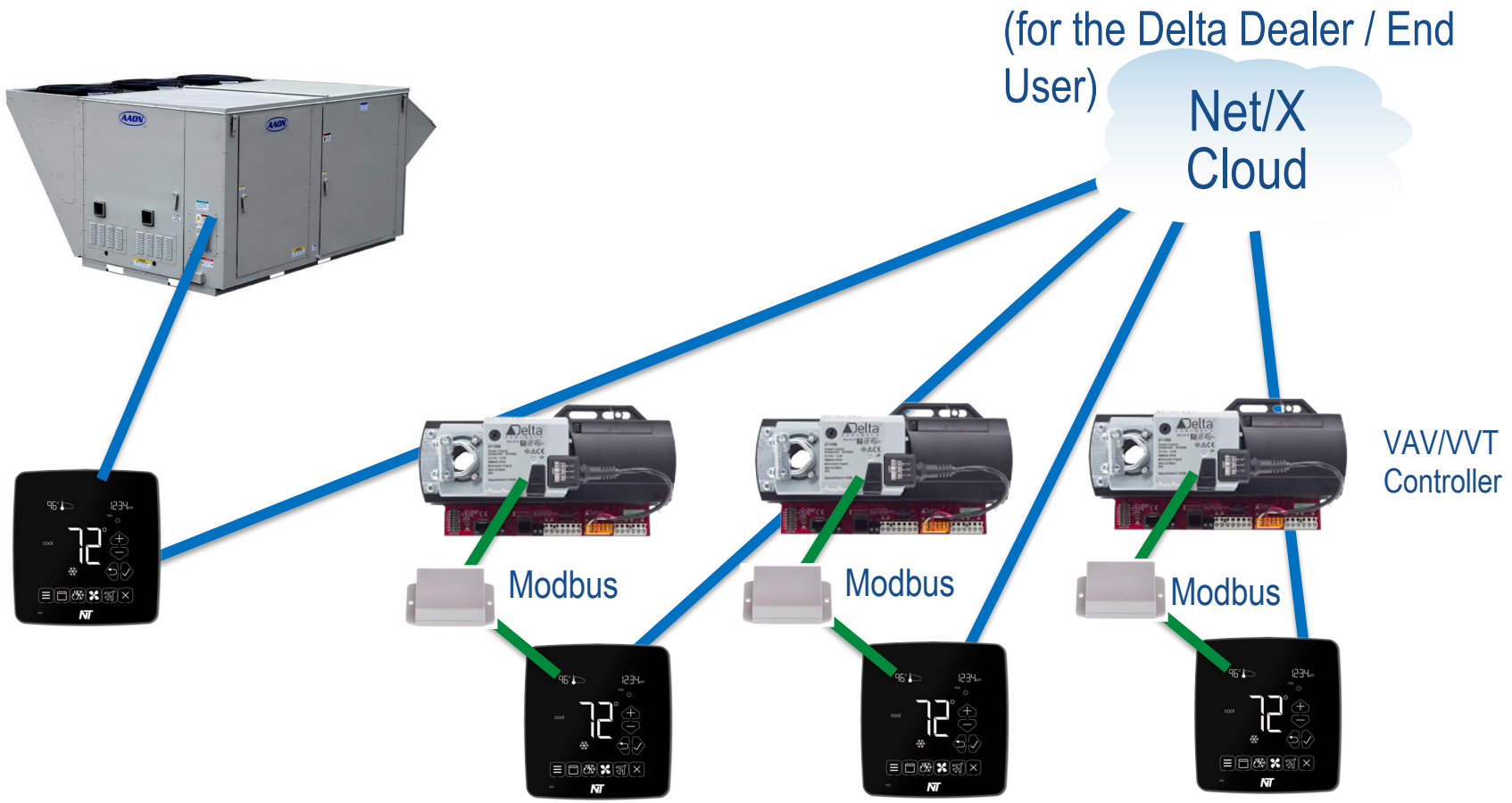
NetX-Delta IoT Architecture



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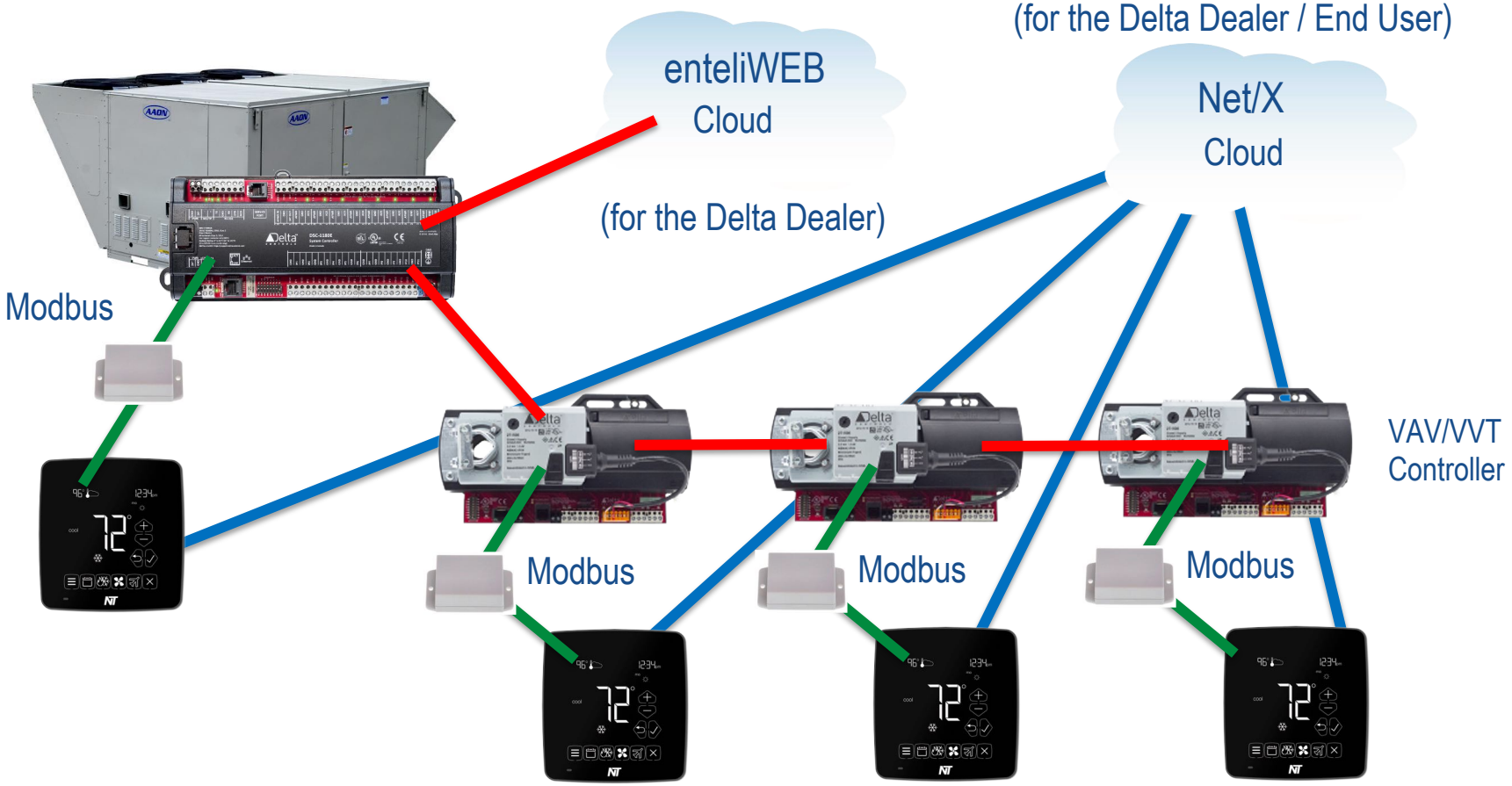
NetX-Delta IoT Architecture



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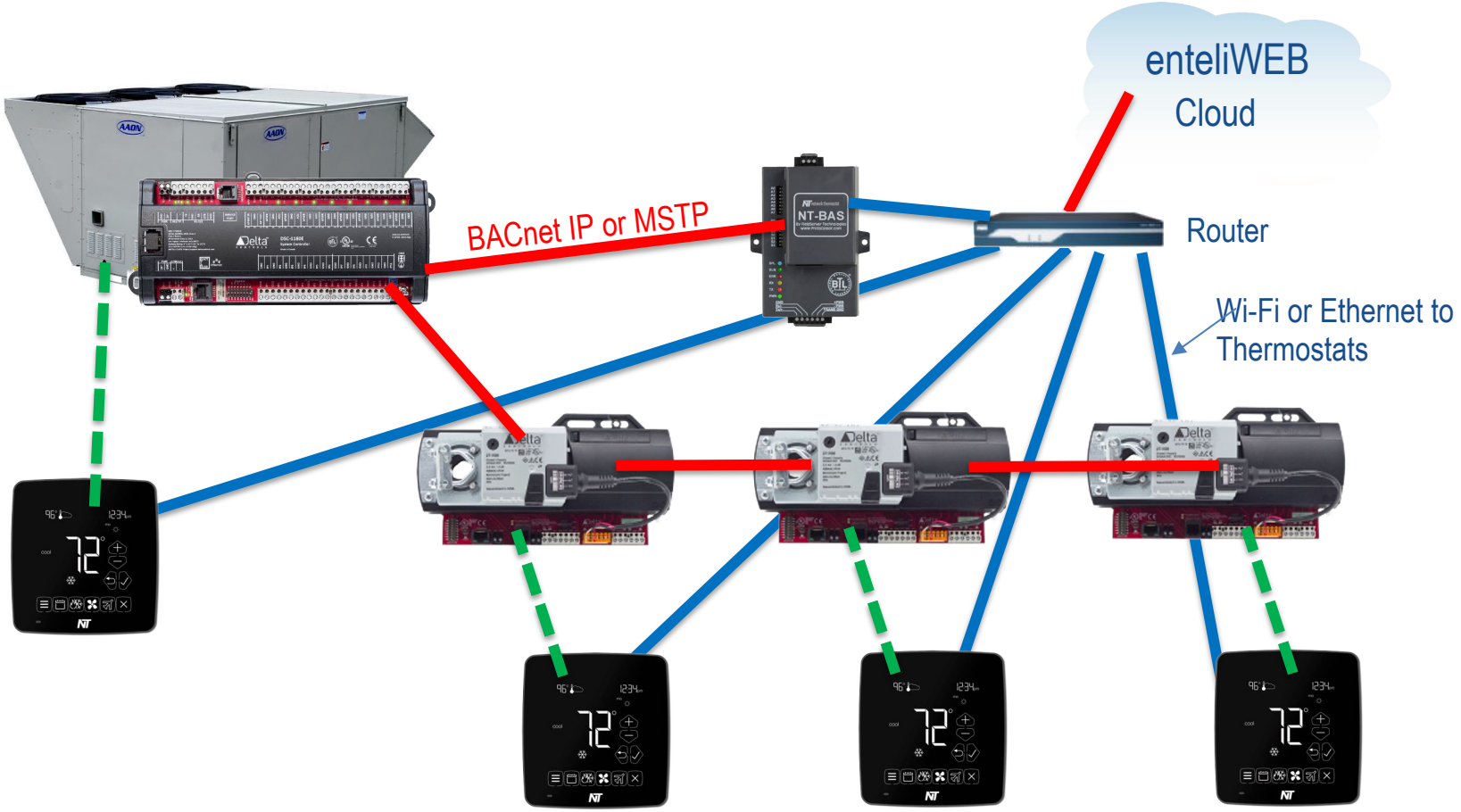
NetX-Delta IoT Architecture



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