BERT® CONNECT

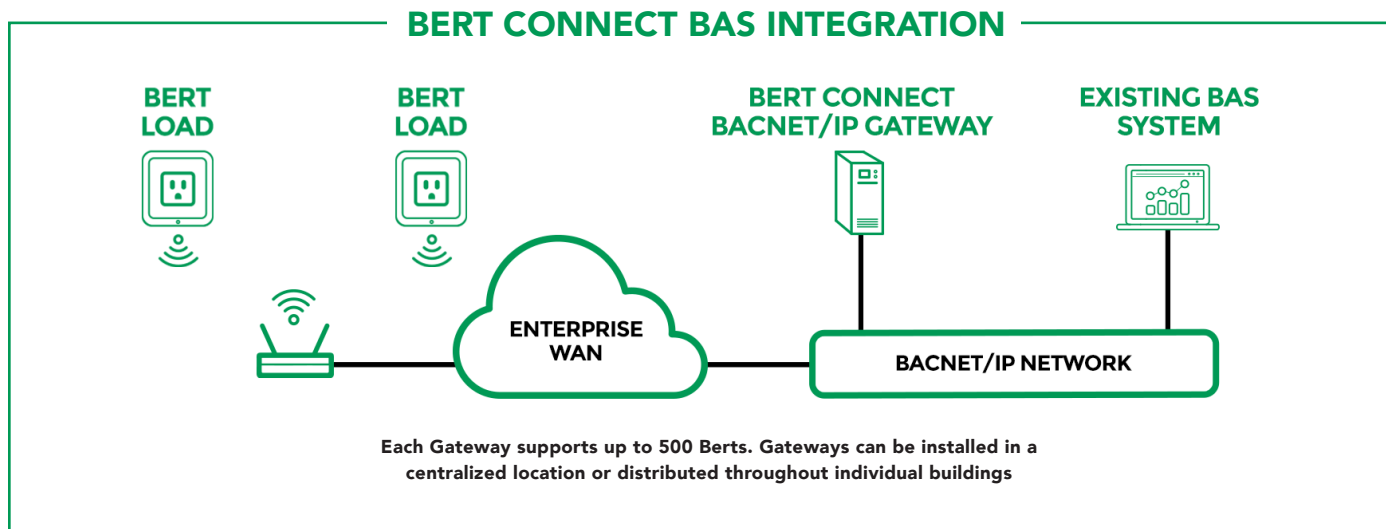## BACNET/IP SOFTWARE GATEWAY
BAS PLUG LOAD INTEGRATION

INTEGRATION OVERVIEW

Integrate plug and hardwired loads into BACnet/IP Building Automation Systems with **BERT CONNECT**. With Bert, building operators monitor and control distributed building loads using the BAS UI. Frequently controlled loads include: AC units, water heaters, exhaust fans, air handling units, vending machines, office and breakroom equipment.

BERT CONNECT discovers Bert hardware devices, stores energy, temperature and building data from individual Berts, and translates BAS commands. Individual Berts use the existing 802.11 Wi-Fi network to communicate with the Bert server.

Benefits include significant energy savings and improved building efficiency.

BERT CONNECT BAS INTEGRATION

BERT LOAD   **BERT LOAD**   **BERT CONNECT BACNET/IP GATEWAY**   **EXISTING BAS SYSTEM**

ENTERPRISE WAN

BACNET/IP NETWORK

Each Gateway supports up to 500 Berts. Gateways can be installed in a centralized location or distributed throughout individual buildings

BERT ADDS VALUE TO THE BAS

- Increased energy savings - distributed loads can be easily turned off when buildings are empty
- Improved efficiency – Bert provides valuable data to improve overall building operation
- Monitor and trend plug load energy usage and space temperature with BAS

- Add water heaters and AC units to demand response programs
- Turn loads and circuits off based on occupancy sensor input
- Adjust HVAC using temperature data from individual Berts
- Use alarms to report warm electrical closets and occupant spaces
- Use alarms to report excessive volts, amps or watts

TECHNICAL OVERVIEW

BACNET DEVICE PROFILE

B-ASC BACnet Application Specific Controller
B-GW BACnet Gateway
Compatible with all Bert hardware models

MINIMUM SERVER REQUIREMENTS

OS: Windows 10
CONFIGURATION: VM or Standalone
RAM: 4 - 8 GB RAM
PROCESSOR: i5 Compatible Quad-Core
STORAGE: 32 GB HDD

SUPPORTED WI-FI ENVIRONMENTS

IEEE STANDARD: 802.11 A/B/G/N
SECURITY: WPA2-Personal or Enterprise
RADIO FREQUENCY: 2.4 or 5 GHz

All Plug and Hardwired Loads