

Secure Continuous Remote Management of Legacy BCUs!

Systems Integrators implementing HVAC solutions are constrained with limited connectivity to legacy BCU's to manage their HVAC systems 7x24. Logging in through Dial-Up modems, starting an application on a remote PC, and downloading data for small fixed periods of time do not allow for continuous monitoring and preventive maintenance of HVAC systems.

IoTium's platform provides a Secure, Cloud Managed, Zero Touch Provisioning software defined network enabling 7x24 secure remote connectivity to any legacy BCU for continuous remote monitoring and preventive maintenance.

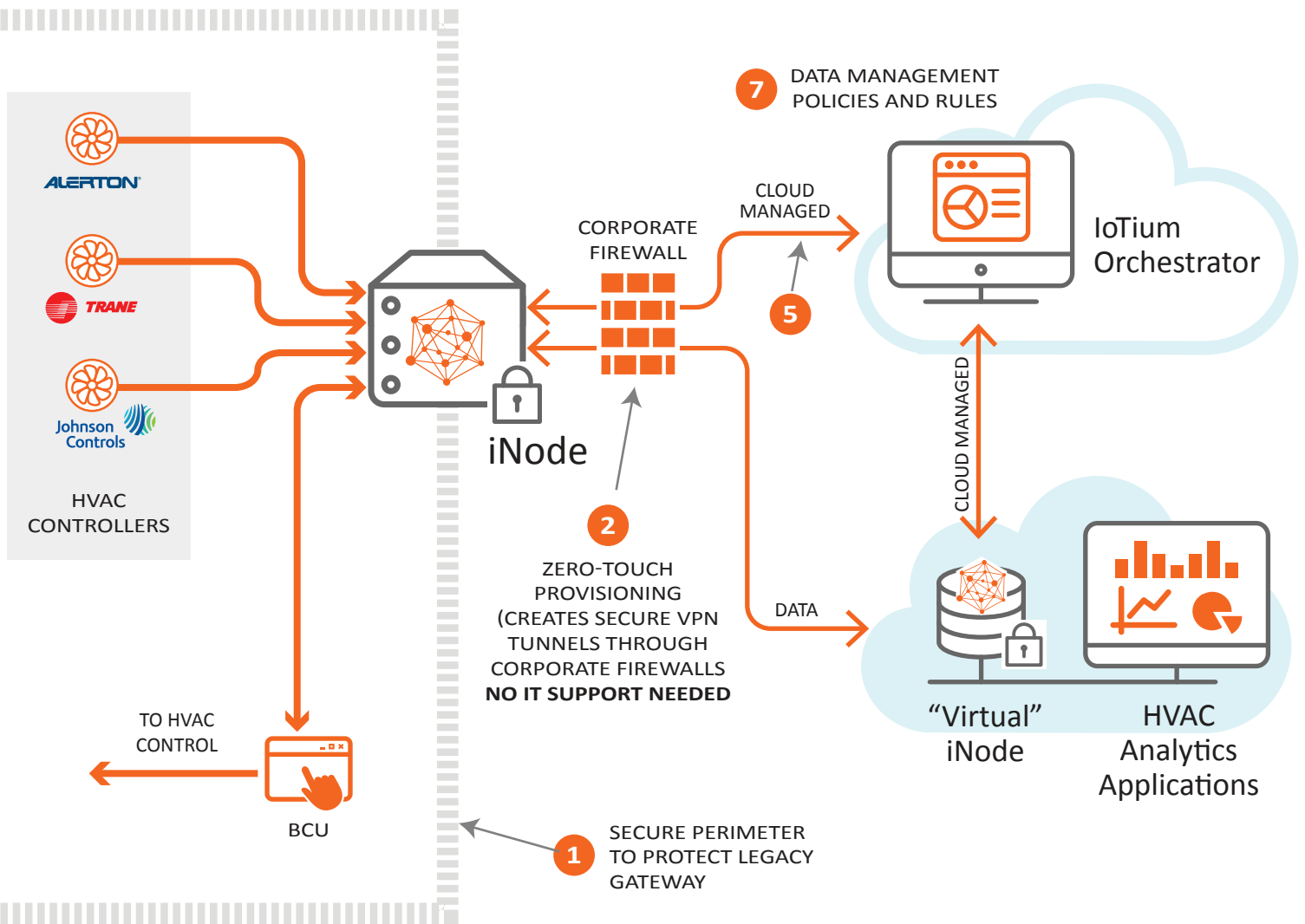


Figure 1: Smart HVAC Use Case

The Smartest Network Infrastructure for Smart HVAC

Network Infrastructure for Smart HVAC needs the following key attributes:

1. **Security**—Create a secure perimeter around the BCU to limit network penetration threats that target the BCU or BACnet gateway. Completely eliminate the impact of such threats to other IT assets.
2. **Zero-touch provisioning**—Plug in the internet cable, internal network cable and power and you are provisioned! Achieve exponential reduction in provisioning and operating costs—no more truck rolls and no need to call IT for network support.
3. **Data Isolation**—Enable a secure tunnel between the BCU and the HVAC Analytics application to isolate the HVAC data traffic while allowing both to use the same physical infrastructure. This delivers significant reduction in transport costs because there is no need for dedicated VPN agreements with operators.
4. **Interoperability**—Ability to bridge legacy brownfield BCUs with new greenfield Smart Building Applications. Enable service chaining between legacy between old and new systems to support scenarios such as, “If greenfield LED Light ON turn legacy HVAC on and vice-versa.”
5. **Cloud-managed**—Network infrastructure should be completely cloud-managed to enable remote protocol software lifecycle management, version control, and more—all at the click of a button. This will allow you to manage thousands of BCUs remotely through a single dashboard view.
6. **Multi-tenancy**—Network infrastructure needs to support multi-tenancy to enable multiple authorized and authenticated entities to access the BCU in complete isolation from one another.
7. **Policy-based WAN Optimization** – Enable dynamic policy-based filtering so as to ensure that only relevant entities access relevant data at the relevant time (***Minimize data transport costs***)

For More Information:

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