



THREAD SMART BUILDINGS

FACT SHEET

WHAT IS THREAD FOR SMART BUILDINGS?

Thread is an open standard for wireless communication designed for easy integration in enterprise networks. It reliably & securely connects thousands of wireless Internet of Things or IoT devices in buildings, enabling smart building automation.

We designed Thread to deliver these important benefits:



BASED ON IP

Thread is an IPv6-based mesh network, with 6LoWPAN as its foundation. Standardized interfaces & Thread's IP protocols benefit IoT ecosystem developers with an accelerated development pace, future-proof products & applications, and the ability to stay connected to end users & data.



SECURE

Thread is based on IPv6 & does not need proprietary hubs or gateways to do packet translation, ensuring network security by using end-to-end encryption from the cloud to an individual device.



FLEXIBLE

Thread's IP network is not tied to specific application domains or device types, it allows for very easy (re)configuration of the network. New devices can be added, or devices can be replaced or assigned new properties.



APPLICATION PROTOCOLS

Many existing building automation platforms have converted, or are in the process of converting, to IP-based solutions. Thread's IP-based network infrastructure can be used for multiple application protocols simultaneously.



ONE GLOBAL STANDARD

Thread uses IEEE 802.15.4 radio technology on the 2.4 GHz spectrum, which can be deployed worldwide. This enables large scale production & ease of installation, as the same devices & network technologies can be used in all regions.



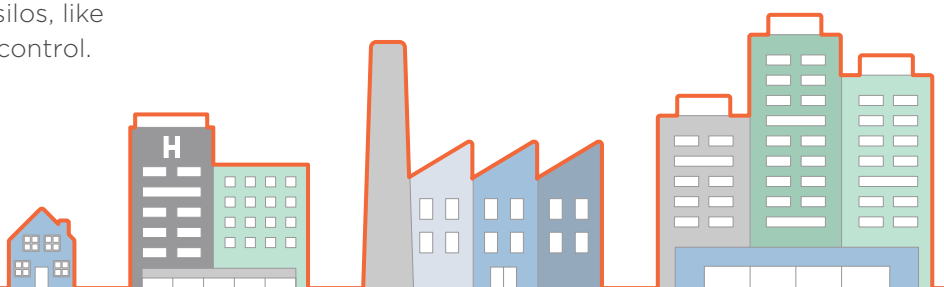
ENERGY EFFICIENT MESH

Devices using different application protocols share & extend the same mesh network, increasing reliability & enhancing reach of the network.

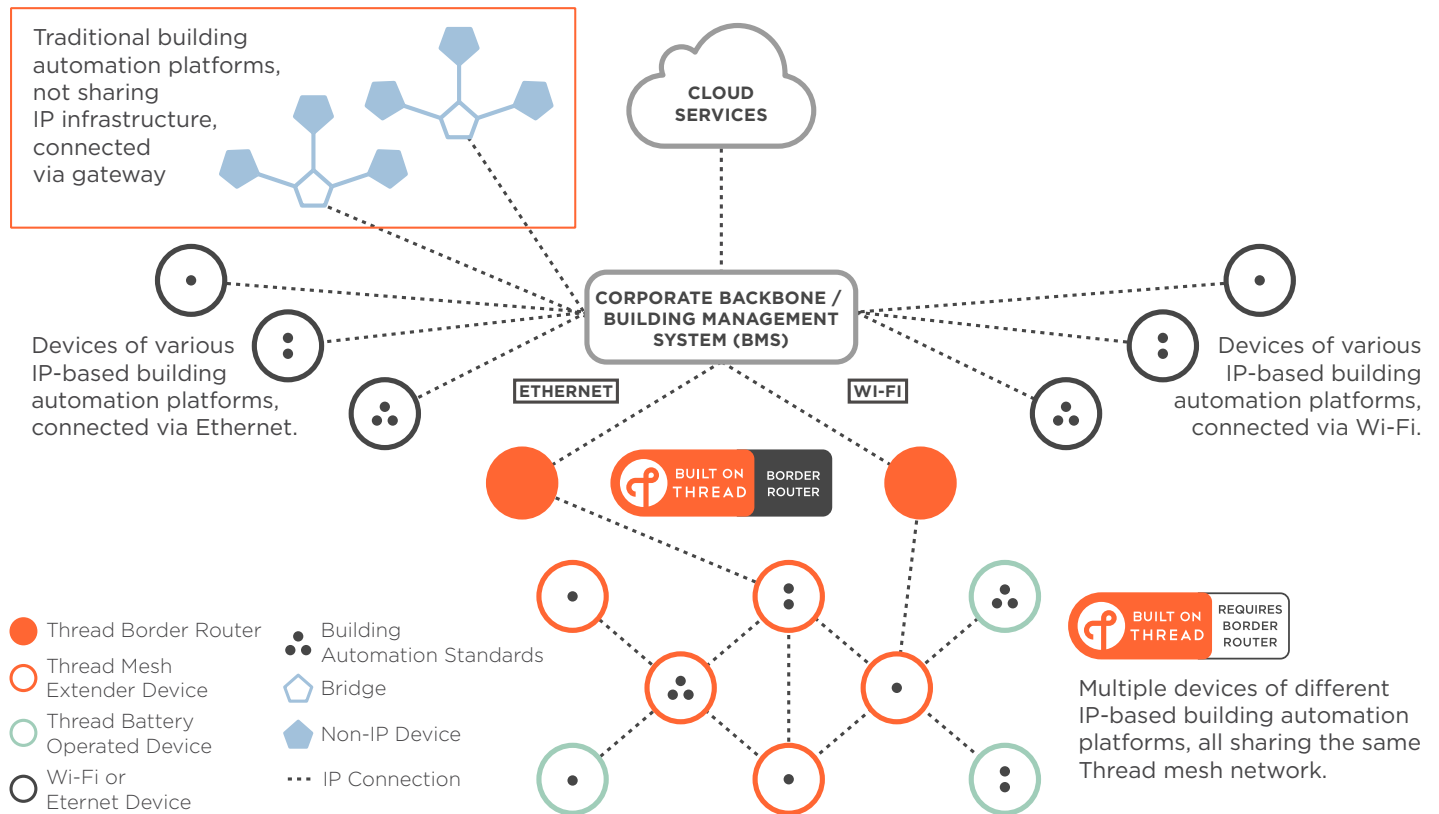


SIMPLE NETWORK INSTALLATION & MAINTENANCE

Thread allows the familiarity & flexibility of an IP-based infrastructure to extend to domains that were previously independent silos, like lighting, climate systems & access control.



THREAD SMART BUILDING NETWORK TOPOLOGY



WHY CHOOSE THREAD?

DEVICE MANUFACTURERS - Devices being able to easily integrate with a reliable wireless mesh network solution, lets you focus on product innovation instead of network technology.

BUILDING AUTOMATION PLATFORMS - Offer familiarity of platform tools to your users while delivering full IP capabilities on efficient mesh networks, allowing for new low power applications & devices.

PLANNERS/INSTALLERS - Integration with existing IP infrastructure minimizes installation complexity, & the option to run previously siloed applications on one network lowers cost.

IT SUPPORT/MAINTENANCE - Use familiar tools to set up permissions & domains, and allow easy remote access for off-site maintenance.

WIDE SUPPORT FOR IP-BASED BUILDING PLATFORMS

Thread works with a wide variety of IP-based applications & platforms, which can be used simultaneously on the same network.

Supported smart building platforms include, but are not limited to:



THREAD GROUP

5000 Executive Parkway, Suite 302 | San Ramon, CA 94583 | help@threadgroup.org | +1.925.275.6644 | threadgroup.org