



Thread and Convergence

Informa Smart Home Summit 2019

November, 19 2019

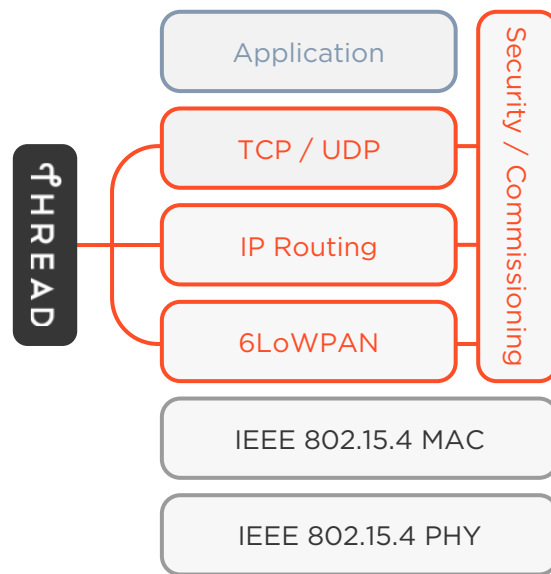
Thread Overview

THREAD GROUP | What Thread Delivers

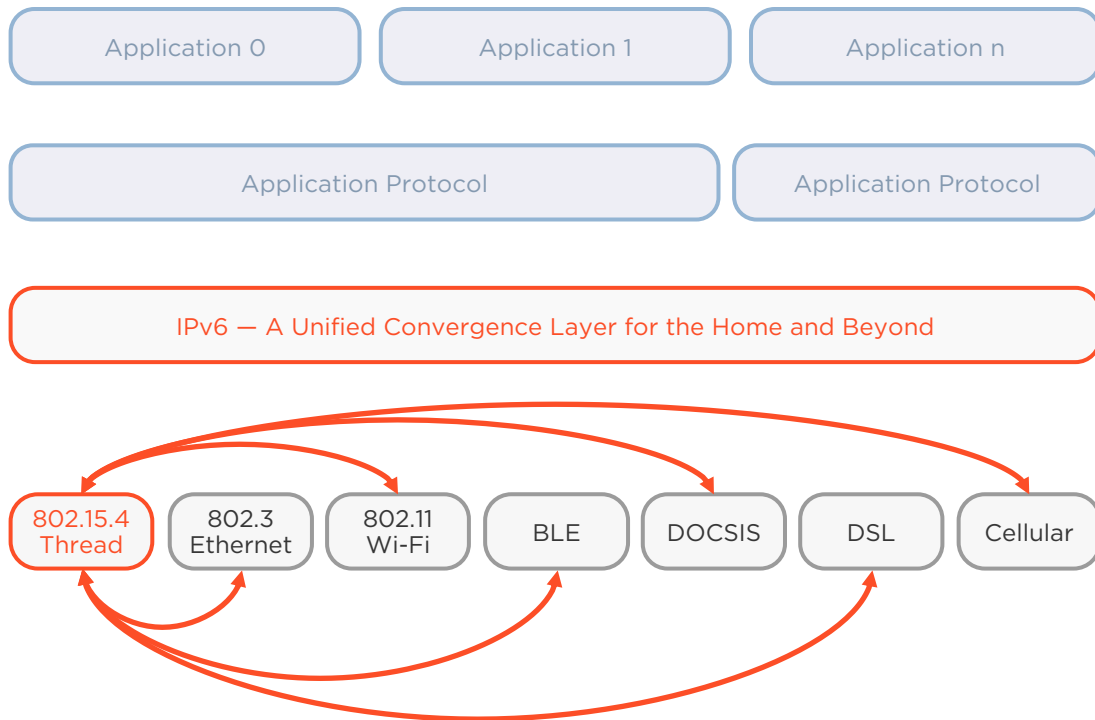
A secure, low power wireless mesh network for connected products within your home and beyond

- Built on proven, widely available and supported technologies
 - Uses IPv6
- Runs on existing 802.15.4 silicon from multiple providers

Thread can support many application layer protocols



THREAD GROUP | Thread Is IP



Unified convergence layer across all networks in the home and beyond

- Reuse software stacks

Enables direct device-to-device, device-to-mobile, and device-to-cloud, and one-to-many communication

- Nodes can communicate directly with each other and with multiple apps or backend services

Support for many application layers

- Any low bandwidth application layer that can run over IPv6 can run over Thread

THREAD GROUP | Thread Strengths

Built for IoT

Low energy footprint

Secure and reliable connectivity

No single point of failure

Interoperability

Scalability

Based on proven standards

IP-Based

Convergence layer across all networks

Ease of Development

Application layer choices

Multiple Ecosystems

Flexibility to add or change app layers, ecosystems

Device-to-device and device-to-cloud communication

Seamlessly Integrated

Seamlessly and securely works with users' existing networks

Extends the internet into low power end devices without translators

Easily extends to personal devices and enterprise systems

Low Overhead

Broad selection of silicon

Many certified stacks

Publicly available specification

Active certification program

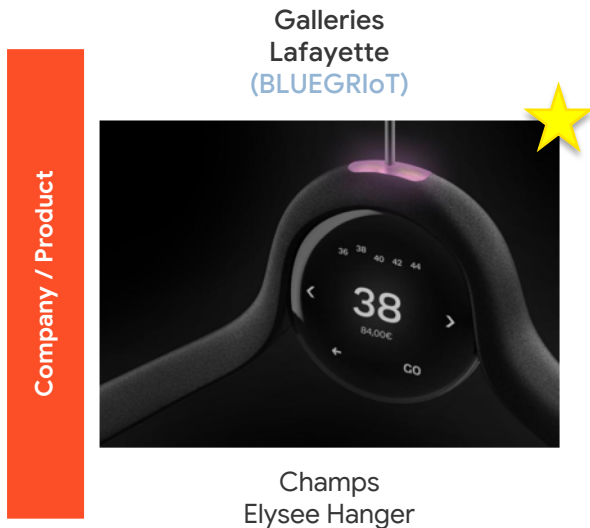
Fast-ramp tools accelerating time to market

Global solution

THREAD GROUP | Product Success Stories

Company / Product	eero	Google Nest	Google Nest	Yale	Google Nest	Particle	Rigado	Google Nest	Google Nest	Google Nest	Google Nest	Farm Jenny	Tridonic
													
	Home WiFi System	Guard	Detect	Lock	Connect	Mesh	Cascade 500 IoT Gateway	Thermostat E	Hub Max	WiFi Router	WiFi Point	Field Receiver	net4more border ROUTER PoE-Thread

THREAD GROUP | Product Success Stories



1,800
Connected
Nodes and
Growing

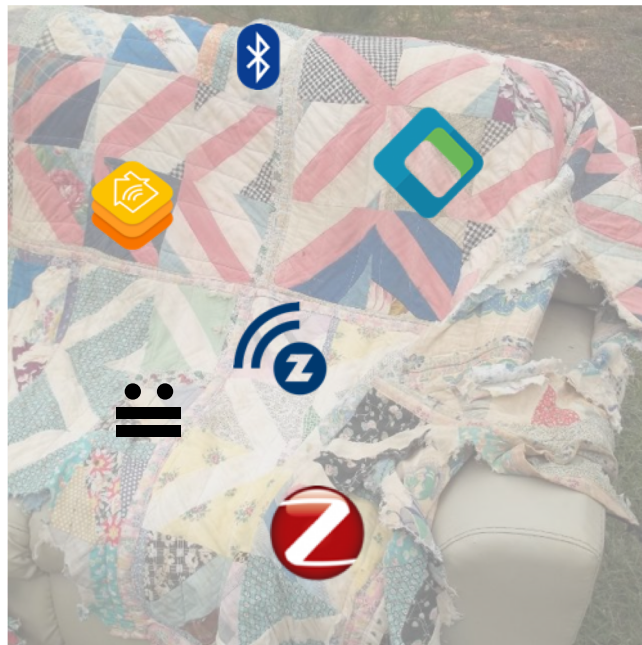
Thread and Convergence

THREAD GROUP | Current Connected Home Patchwork

Today, the consumer Internet of Things market is:

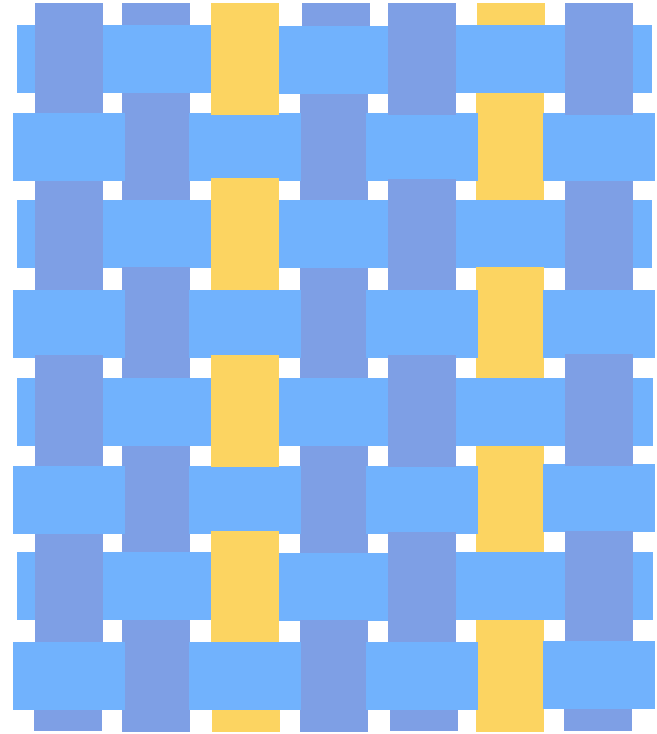
Fragmented

Technical patchwork of
incompatible de jure
standards



THREAD GROUP | Making a Cohesive Fabric with Voice Assistants

Voice assistants address today's fragmented world and bind that fabric together.

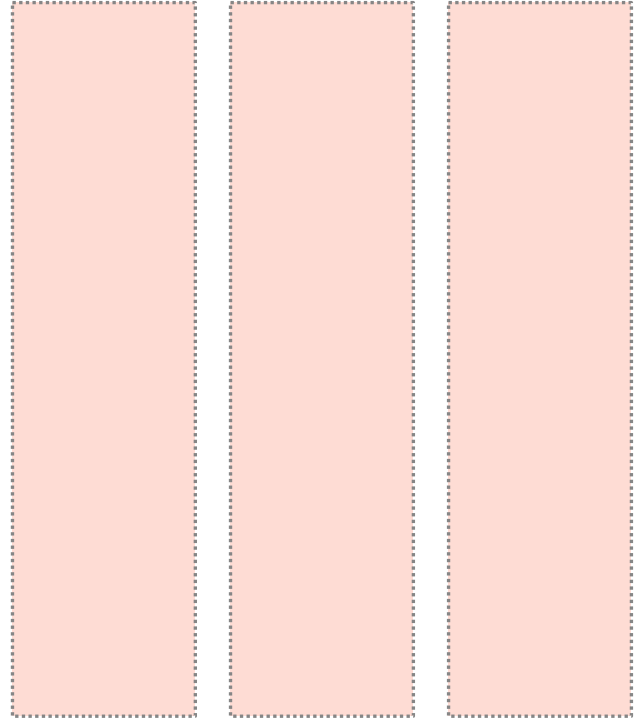


THREAD GROUP | Looking Forward

The shape and form of the smart home technology stack landscape are evolving.

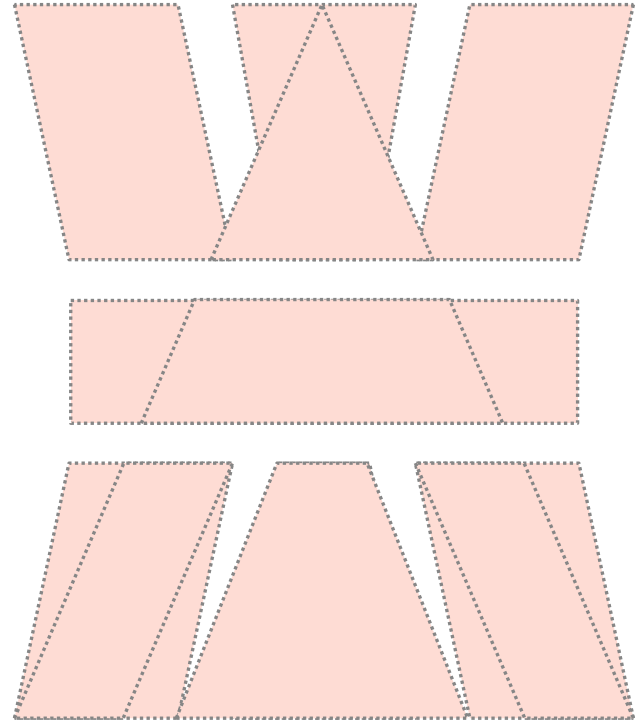
THREAD GROUP | Looking Forward

The market is evolving away from fragmented patchworks and silos



THREAD GROUP | Looking Forward

The industry and market are evolving towards convergence.



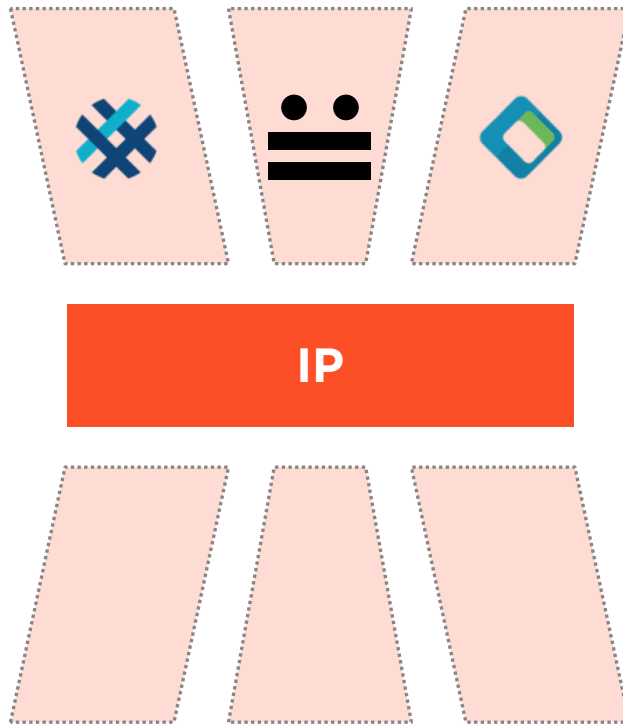
THREAD GROUP | Looking Forward

Convergence will happen in
two waves:

THREAD GROUP | Looking Forward

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First around **the Internet Protocol (IP)**

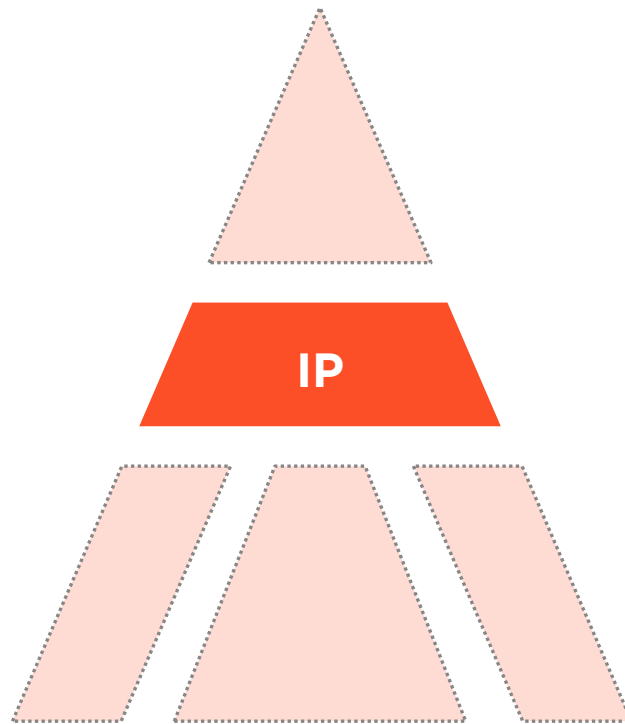


THREAD GROUP | Looking Forward

Convergence will happen in two waves:

First around **the** Internet Protocol (IP)

Second around **a** unified application layer



THREAD GROUP | Looking Forward

Supporting those two waves of convergence...

Thread provides a

scalable

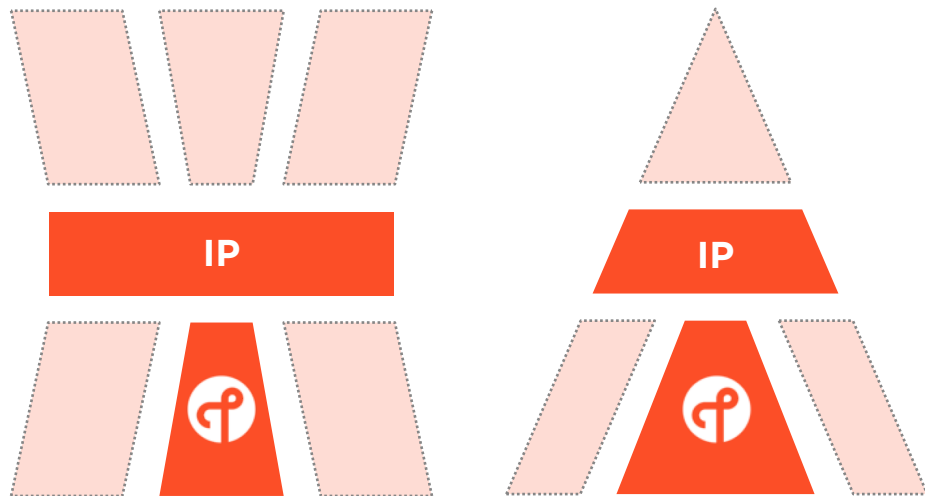
robust

end-to-end secure

low cost

low power

wireless solution



Benefits of Thread

Consumer Benefits of Thread

THREAD GROUP | Consumer Benefits of Thread

Elimination of burdensome and costly one-off gateways, hubs, translators, and proxies.



THREAD GROUP | Consumer Benefits of Thread

Elimination of burdensome and costly one-off gateways, hubs, translators, and proxies.

Support for end-to-end application security



Developer Benefits of Thread

THREAD GROUP | Developer Benefits of Thread

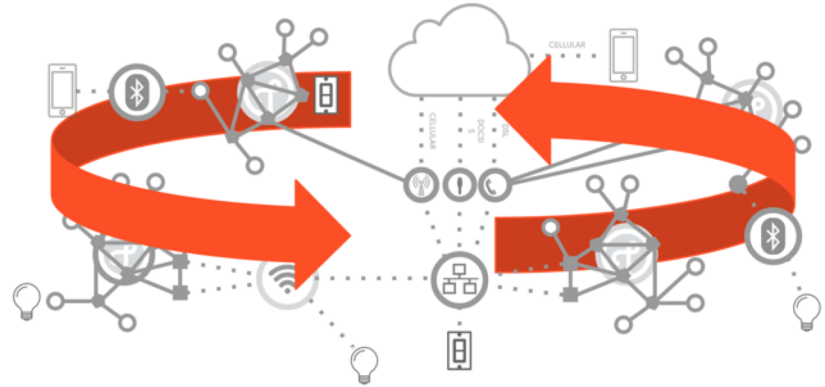
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THREAD GROUP | Developer Benefits of Thread

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Singular programming model for devices, cloud, and mobile.



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Seamless integration with other networks.

Singular programming model for devices, cloud, and mobile.

One solution for home and commercial / enterprise.



THREAD GROUP | Developer Benefits of Thread

All of these benefits lower your development and deployment costs.



THREAD GROUP | Calls to Action

1. **Join the Thread Group**
2. **Connect with your preferred silicon partner**
3. **Start planning your convergence strategy**



Questions and Answers

THREAD GROUP | Contact

Grant Erickson

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Backup

THREAD GROUP | Abstract

Thread and Convergence

Today the consumer Internet of Things market is a fragmented, technical patchwork of incompatible de jure standards that the world's voice assistants help bind together into a usable fabric.

However, the Thread Group believes that this patchwork is starting to drive towards convergence that will come in two waves. The first wave, is around the Internet Protocol (IP) and IoT application layers built atop it. The second wave, is around convergence of those application layers into a singular, unified IoT application layer. As a basis for those two waves of convergence, Thread provides a future-proof scalable, robust, end-to-end secure, low-cost, and low-power wireless solution that supports that convergence.

In this presentation, Grant Erickson, President, Thread Group, will provide a brief background on Thread, talk about Thread's role at the center of this convergence, and enumerate the consumer and developer benefits of Thread.