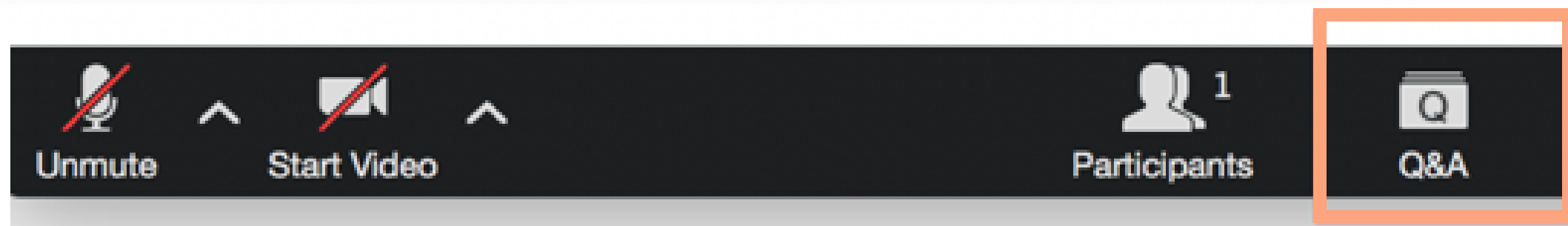# Exploring the Latest

in ᲗHREAD

Webinar

Webinar Logistics

Post your questions at any time during the webinar for the speakers via the Q&A feature shown on the right of your screen.

Questions will be read and addressed at the end of the presentation.

A recording of this webinar will be made available on the Thread Group website.

Agenda

Introduction

What is Thread?

Thread Benefits

How Thread Works

What to Expect in 2025

Wrap Up

Q & A

Agenda

Introduction

What is Thread?

Thread Benefits

How Thread Works

What to Expect in 2025

Wrap Up

Q & A

Speakers

Sujata Neidig
Vice President of Marketing,
Thread Group

NXP

Stuart Cheshire
Board Director,
Thread Group

Ann Olivo
Marketing Committee Co-Chair,
Thread Group

SILICON LABS

Daniel Moneta
Business Development
North America Lead,
Thread Group

SmartThings

Agenda

Thread Foundations

The technologies that power the internet
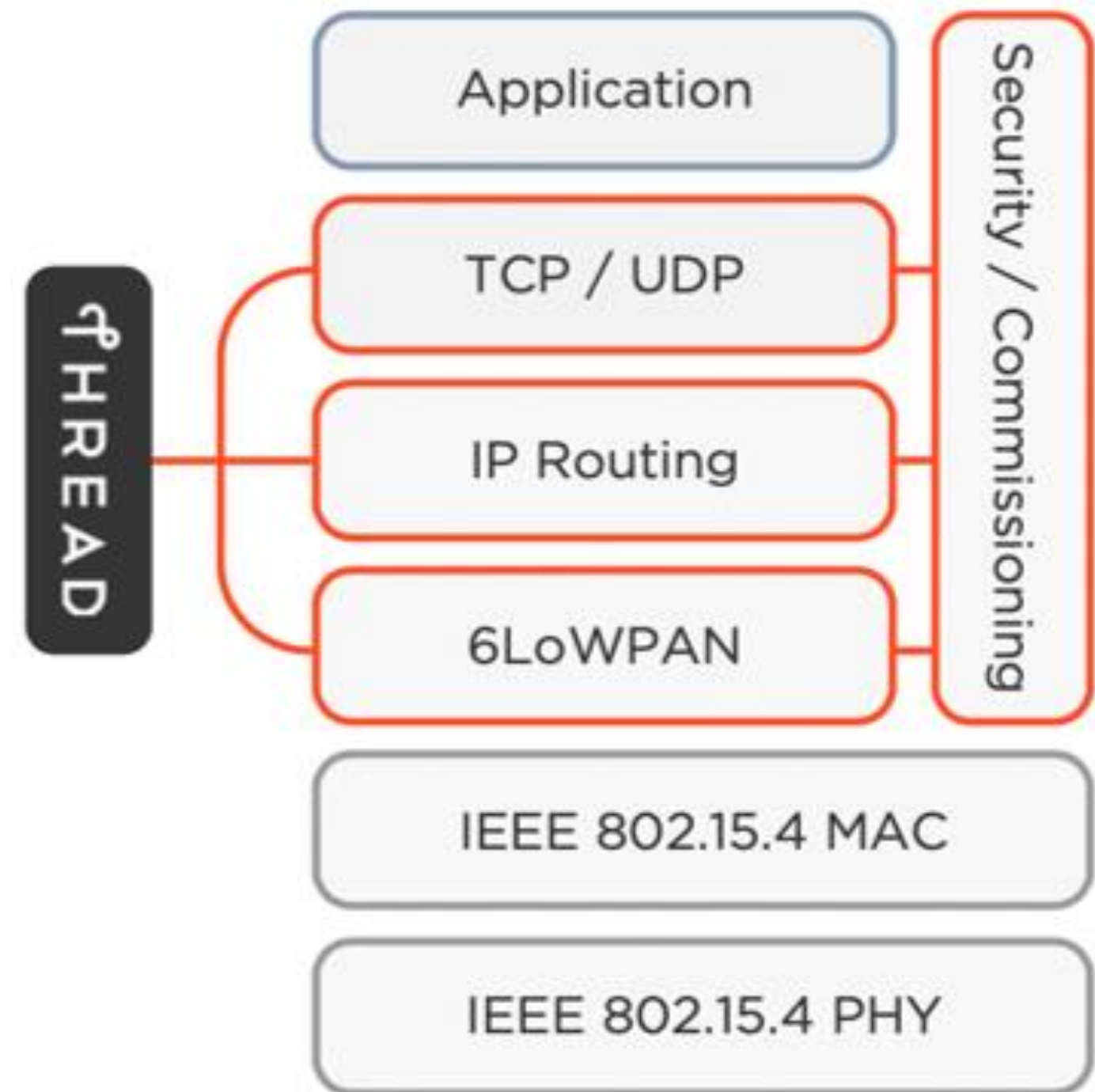
Broadly available 802.15.4 silicon

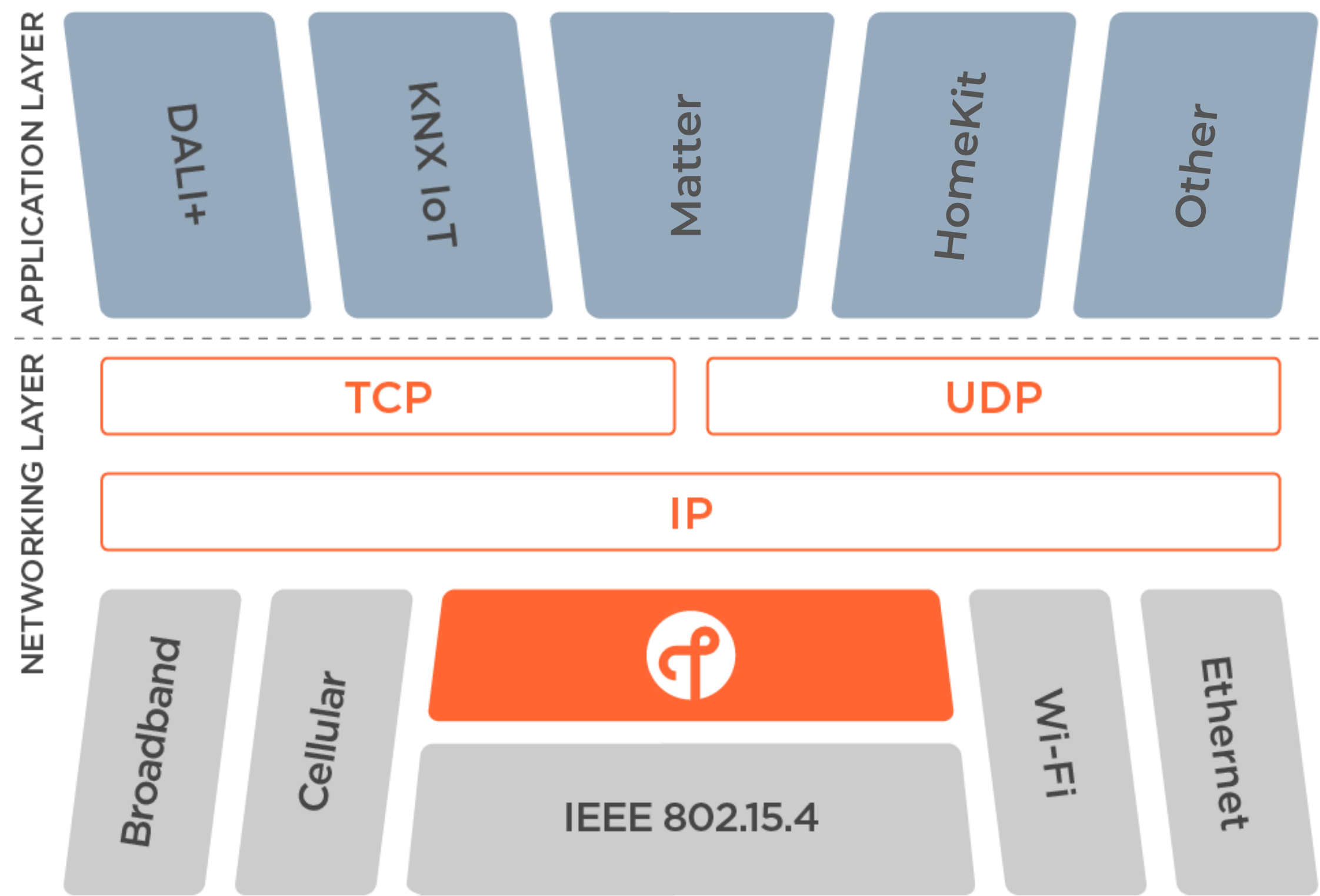Tailored for embedded devices

Low power and long battery life

Scalable mesh for range and reliability

Simply and securely add and manage products

Thread can support many application layer protocols

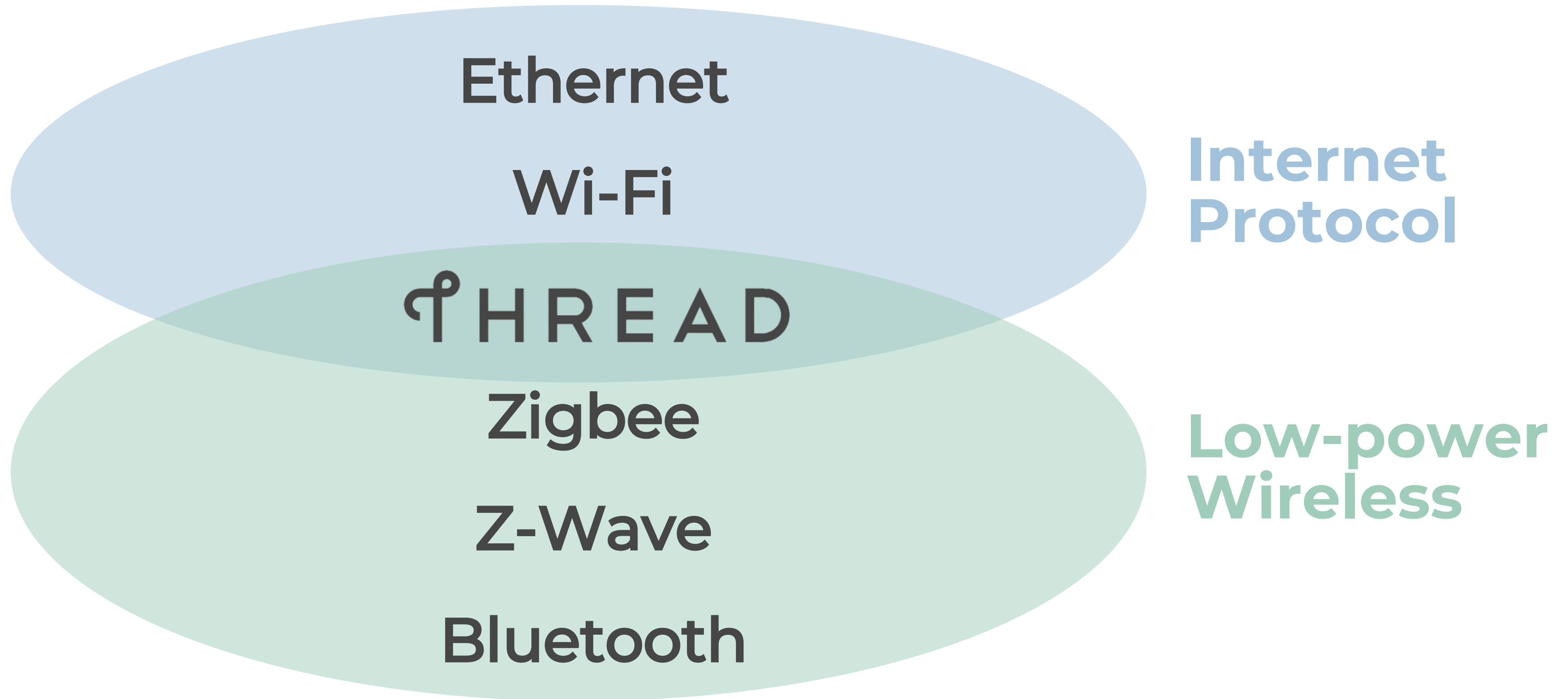# Thread Works with Various Application Protocols

Agenda

Introduction

What is Thread?

Thread Benefits

How Thread Works

What to Expect in 2025

Wrap Up

Q & A

Thread for Home and Building Communication

Ethernet

Wi-Fi

Internet Protocol

ꓕHREAD

Zigbee

Z-Wave

Low-power Wireless

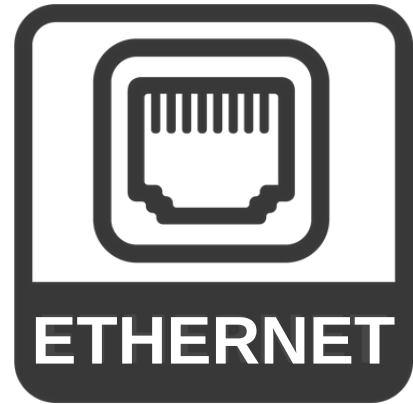Bluetooth

Wireless Networking in the Home

THREAD

> One IP Border Router serves all devices
> IP enables end-to-end security

Zigbee
Z-Wave
Bluetooth

> Each vendor supplies different hub

IP for Home and Building Communication

ETHERNET	Great when wiring is convenient
WiFi™	Great for high throughput
	Great for range and multi-year battery life

Thread IPv6 Mesh

250 kb/s Data Rate

- Low hardware cost
- Low power consumption for battery devices

Self-Configuring IPv6 Mesh

- Range extension
- Extra robustness and resilience
- One Border Router covers whole house

THREAD-Designed for the Smart Home

We've been using Wi-Fi for 25 years

- Great technology — designed for high throughput

Thread created to support smart home networking

- Built for IoT
- Designed for multitude of low-rate devices

Agenda

Thread in a Smart Home with Matter Devices

OPTIONAL
Matter Bridge to control
Other IoT Network Standard
with Matter apps & devices.

INTERNET

Another ecosystem/platform
may be used at the same time to
control the same Matter devices.

✳ matter

MATTER CONTROLLER

ETHERNET

WI-FI

Border Router can be built into
many devices such as access
points, smart speakers, etc.

BUILT ON THREAD | BORDER ROUTER

BUILT ON THREAD | REQUIRES BORDER ROUTER

Matter Devices of
different types & brands,
sharing the same Thread
mesh network.

KEY

✳ Matter Device

◯ Thread Mesh Extender

🔴 Thread Border Router

◯ Thread Battery Operated Device

⬠ Matter Bridge

⬠ Non-IP Device

••• IP Connection

Thread in a Smart Building with Multiple Automation Standards
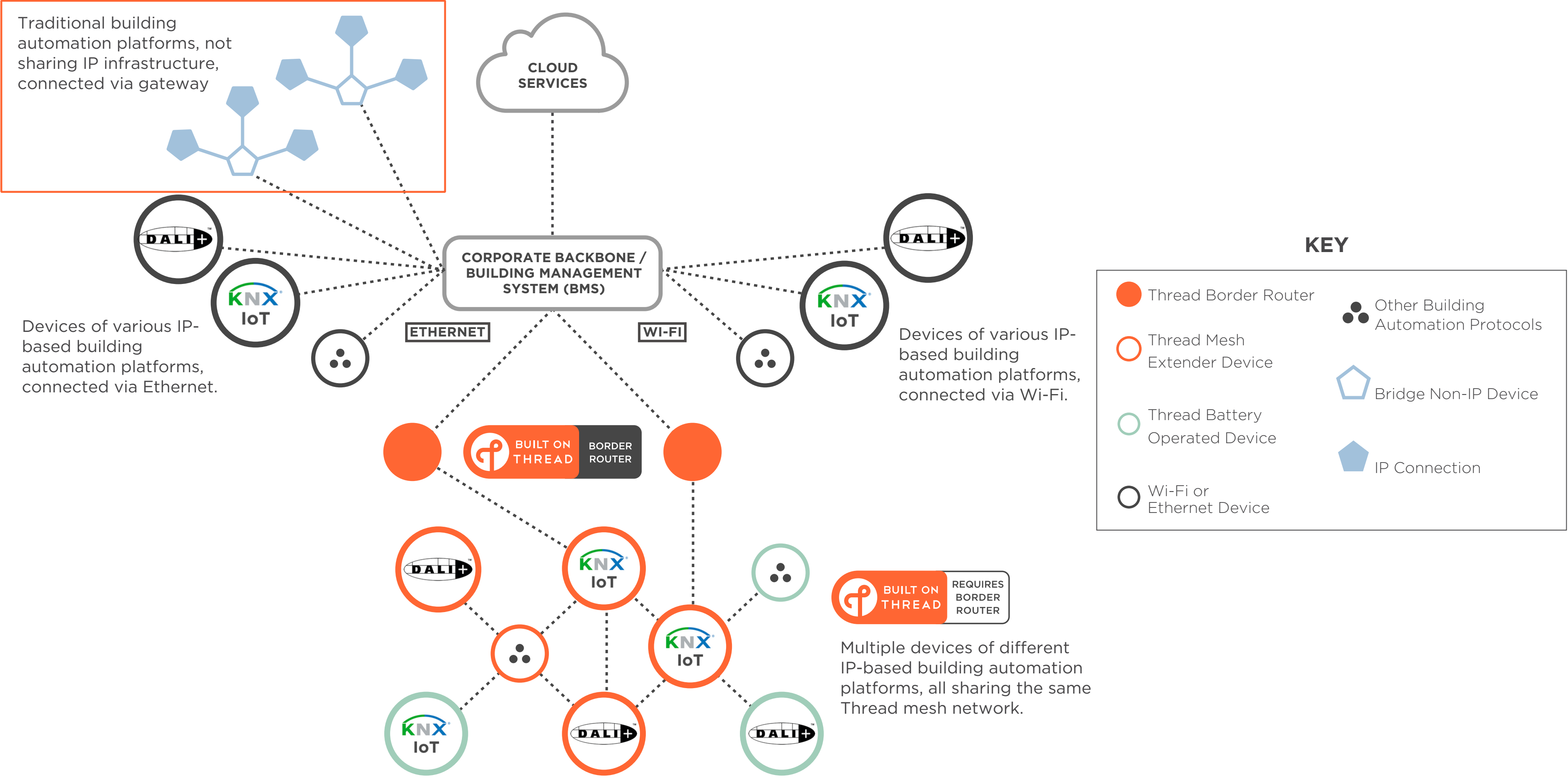
Traditional building automation platforms, not sharing IP infrastructure, connected via gateway

CLOUD SERVICES

CORPORATE BACKBONE / BUILDING MANAGEMENT SYSTEM (BMS)

ETHERNET

WI-FI

Devices of various IP-based building automation platforms, connected via Ethernet.

Devices of various IP-based building automation platforms, connected via Wi-Fi.

BUILT ON THREAD | **BORDER ROUTER**

BUILT ON THREAD | **REQUIRES BORDER ROUTER**

Multiple devices of different IP-based building automation platforms, all sharing the same Thread mesh network.

KEY

- ● Thread Border Router
- ○ Thread Mesh Extender Device
- ○ Thread Battery Operated Device
- ○ Wi-Fi or Ethernet Device
- ⠿ Other Building Automation Protocols
- ⬠ Bridge Non-IP Device
- ⬠ IP Connection

Thread in Action

Yale Assure Lock SL with Matter

"Our Thread-based door locks have proved to be the most reliable and have the fewest calls to customer service and the lowest return rate."

nami

Mesh Sensor Accessories for Safety and Healthcare

"Choosing Thread has been transformative for nami. The technology's flexibility and scalability have allowed us to focus on creating tailored solutions for safety and healthcare challenges."
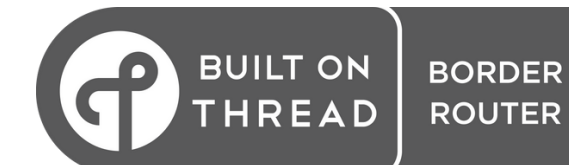
Aqara

Suite of Border Routers, Components, and End Products

"The adoption of Thread enables our success, and our dedication to innovative, user-centric designs. Thread expands our addressable market and sets our brand apart in this very competitive marketplace."

Aeotec	Smart Home Hub	
ALLEGION	Schlage Encode Plus Deadbolt	
Homey	Homey Pro	
belkin	Wemo Stage	
BOKE	Dimmable Constant Current LED Driver	
ChampOn	Onvis Contact Sensor	
Energy magic cube	Magic Cube - Smart Window Covering	
eve.	Eve Aqua - Irrigation Control	
Google	Google TV Streamer	

THREAD Certified - What's New

- **Door Locks:** Touch screens, deadbolts, keypads
- **Window Coverings:** Shades, roller blinds, curtain motors
- **Hubs, Gateways, and Border Routers**
- **Sensors:** Contact, motion, temperature, humidity, leak detection, air quality
- **Electric:** Plugs, outlets
- **Water Management:** Flow controller
- **Lighting:** Switches, dimmers, controllers, drivers
- **Development Boards & Certified Components**

BUILT ON THREAD   BUILT ON THREAD | BORDER ROUTER   THREAD CERTIFIED COMPONENT

Agenda

Introduction

What is Thread?

Thread Benefits

How Thread Works

What to Expect in 2025

Wrap Up

Q & A

What to Expect in 2025

Driving Differentiation and Demand

The benefits of Thread are particularly attractive for devices like smart locks. Thread connectivity should significantly improve battery life... response times and help ensure your lock stays connected. (The Verge)

"I have zero issues with Thread. Have over 45 Thread devices... My Thread network is rock solid. Eve Energy, Schlage Encode Plus x3 and Nanoleaf bulbs. Eve motion detectors and door sensors. Response is basically instant." (Reddit)

"I'm only buying Matter/Thread smart home products now and these fit the bill. They were easy to add to Apple Home and seem to work well." (Amazon review)
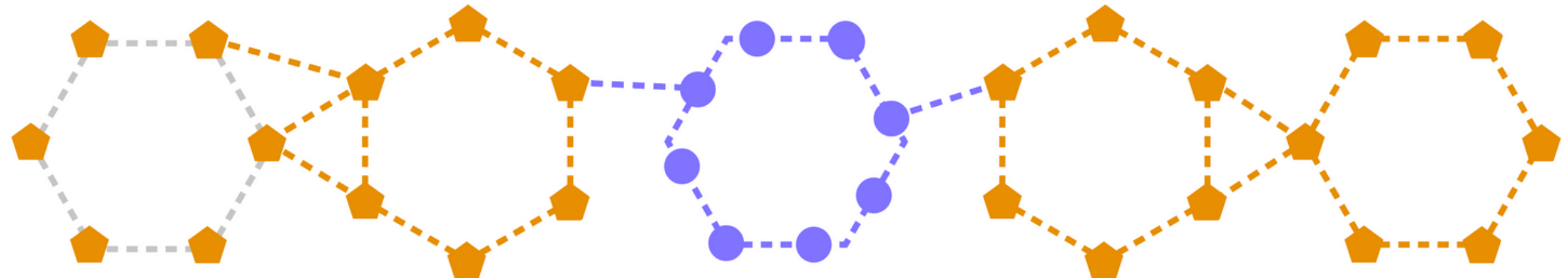
What to Expect in 2025

Driving Differentiation and Demand

Thread Everywhere

Easier, Stronger, More Flexible

Agenda

Introduction

What is Thread?

Thread Benefits

How Thread Works

What to Expect in 2025

Wrap Up

Q & A

Now what?

Get a Thread board from a silicon vendor

Develop a product concept

Join the Thread Group

Certify finished product

Engage in Marketing & Technical Committee meetings!

Agenda
Introduction
What is Thread?
Thread Benefits
How Thread Works
What to Expect in 2025
Wrap Up
Q & A

Q & A

THANK YOU!

For more information:
visit threadgroup.org

Contact us at:
help@threadgroup.org

ᚦTHREAD GROUP

Connect With Us

- in @Thread-Group
- Ⓜ @ThreadGroup
- ▶ @ThreadGroup2752
- 𝕏 @TheThreadGroup
- 💬 Thread Group WeChat