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The Future of IoT is Now Project Connected Home over IP

A few details about the webinar...

A recording of the webinar will be made available on the Alliance website.

We will leave time for questions at the end of the webinar. Please enter your questions in the Question Box at any time.

If we do not get to your question during the webinar you may contact us at help@zigbee.org

Agenda

- Who is the Zigbee Alliance?
- What is Project Connected Home over IP?
- Unifying the IoT Industry
- How the Standard Stacks Up
- Device Types & Network Topology
- Looking Ahead
 - Security & Privacy
 - Open Source
 - Certification and Testing
 - How to Get Started

Speakers



Michelle Mindala-Freel
Zigbee Alliance
Head of Marketing



Daniel Moneta | Google Project CHIP Marketing & Product Sub Group Chair



Kevin Po | GoogleZigbee Alliance
Board Director



Anthony Scocco | GoogleProject CHIP Certification
Sub Group Vice Chair



Mark Tekippe Samsung SmartThings Zigbee Alliance Board Director



Naveen Kommareddi | Apple Project CHIP Certification Sub Group Chair



Oren Segal | Apple Project CHIP Steering Committee



Asad Haque | Comcast Project CHIP Steering Committee



Steve Hanna | Infineon Technologies
Project CHIP Security Marketing
Team Lead



Ann Olivo-Shaw | Tuya Smart Zigbee Alliance Promoter Member

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What you will hear today

- The Alliance brings together the world's most innovative companies to create and evolve technologies
- Project CHIP will be the single, IP-based, smart home connectivity standard unifying the IoT
- The comprehensive and resilient security approach of Project CHIP
- Testing begins now, certification begins Late 2021
- The Time Is Now. CHIP Is Progressing. Get Involved.

Zigbee Alliance grounded in strength

The Alliance is the foundation and future of the IoT.

Since 2002, the Alliance's diverse global membership has collaborated to create and evolve universal open standards for the products that are transforming the way we live, work, and play.

- Driven by experienced global membership
- Robust and established certification programs
- Full suite of open IoT solutions



Project Connected Home over IP



To date, the initiative is supported by:

- 3 Project CHIP Sub Groups with 30+ subcommittees
- 180 Member organizations (of all sizes, across a range of business categories)
- 1,700+ Members who bring passion, patience and expertise to each conversation

To unify the IoT industry

The single, unified connectivity standard will catapult Smart Home technology from an emerging technology to mass household adoption, soaring past \$53B USD by 2022*

Commercial is part of the roadmap.



CONSUMERS

- Increased choice & compatibility
- Simplified setup & control



DEVELOPERS

- Single SKU
- Lower development & operational cost
- More time for innovation



RETAILERS

- Minimized returns
- Simplified purchasing experience

^{*} Statista, Global smart home market revenue 2016-2022, 2020

How we stack up



Common application layer + data model

Interoperability, simplified setup & control

IP-based

Convergence layer across all compatible networks

Secure

AES-128-CCM encryption with 128-bit AES-CBC

Open-source development approach

Based on market-proven technologies

Common protocol across device and mobile

Extendible to cloud

Common data model

Core operational functions, multiple device types

Low overhead

MCU-class compute, <128KB RAM, <1MB Flash

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Target device types

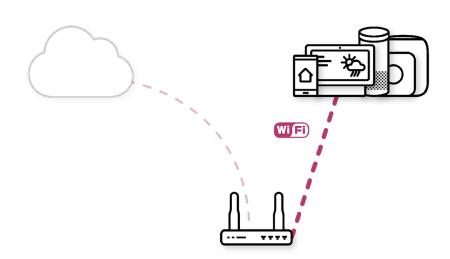


Scoping exercises for additional device types and use cases underway and continual.

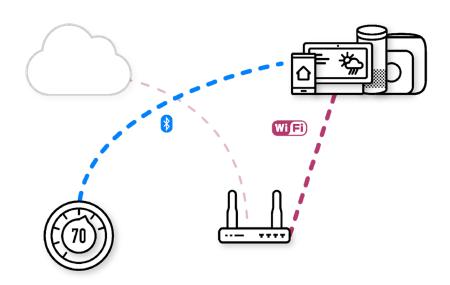
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a variety of devices and interfaces

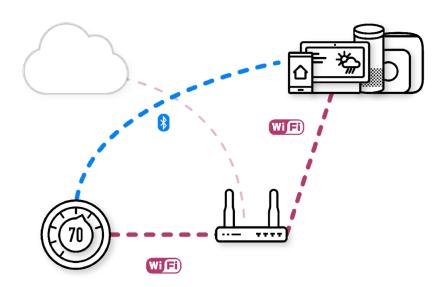
Controller connects to Wi-Fi router



Controller commissions device via Bluetooth LE

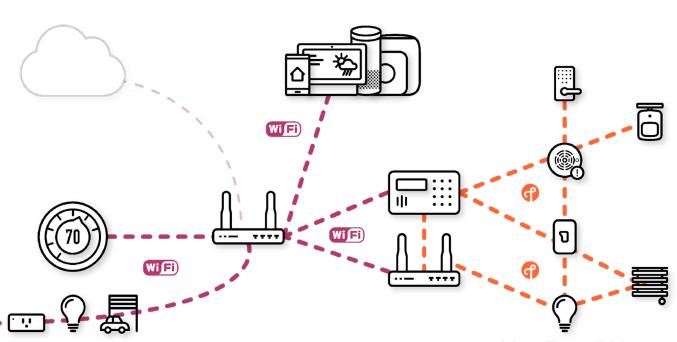


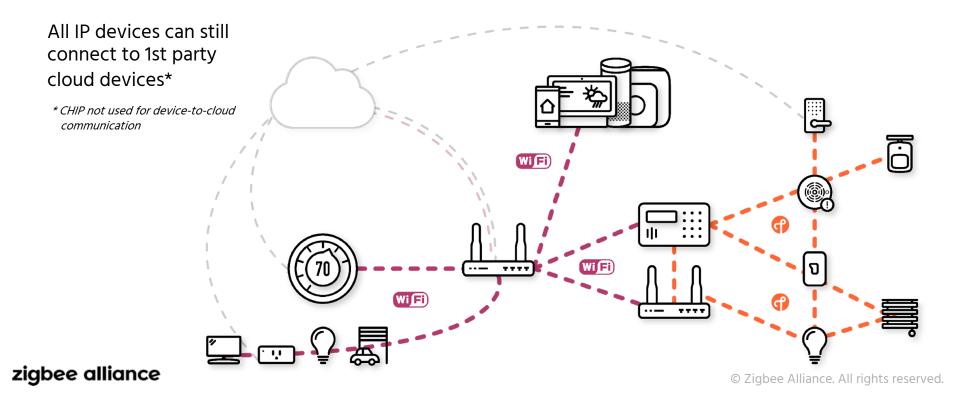
Device joins Wi-Fi network

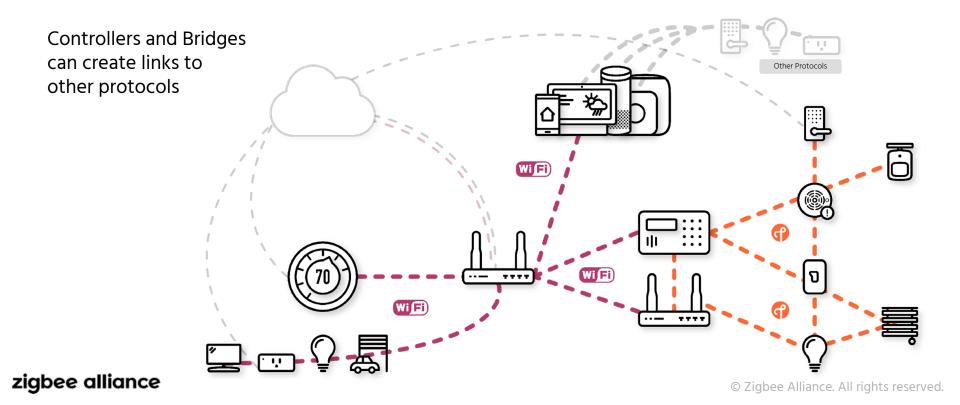


Additional CHIP devices connected to Wi-Fi Wi Fi

Thread devices connect to other IP networks through Border Routers







Security & Privacy

Comprehensive

Layered approach

Strong

Well-tested standard cryptographic algorithms such as ECC NIST P256 & AES-CCM-128

Easy

Improve ease of use not decrease it

Resilient

Protect, Detect and Recover

Agile

With Crypto-flexibility in mind to address new developments and threats.



Open Source

Project CHIP open source project:

github.com/project-chip/connectedhomeip

Collaborative, open-source development

Accessible, transparent, robust, and secure. Code examples showing interactions on multiple transports.

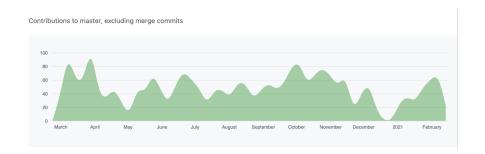
Built on market-proven technologies

Companies from across the industry are contributing market-proven technologies and best practices.

Implementation-first approach

Growing to implement the overall architecture. Not just a technical spec, but deployable code.





Certification and Testing

Progress

Targeting formal certification program launch in late 2021

Tooling and Infrastructure

Easily accessible and free to use for all members. Designed with automation and testability in mind for easy integration into vendors' testing processes.

Test events

Test event series started in March and continues through September. Active participation from dozens of device makers and chipset vendors. Participants successfully completing the test events, will be the first to receive certification.

Join now, to be part of the first group of certified devices, or wait until the specification is released and formal certification opens in late 2021.



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Looking ahead



Note: Preliminary timeline, subject to change

Build the future of the IoT

Join the Zigbee Alliance!

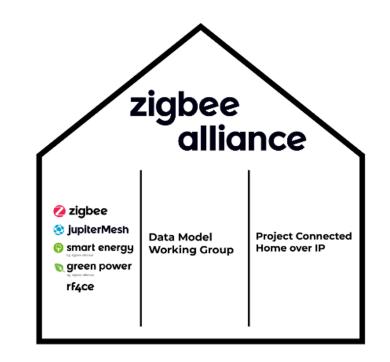
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Learn more:

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Q & A