

MAT-102

# Is Matter Right for My Products?

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Rob Alexander  
Principle Product Manager



# Agenda

Is Matter the right technology for my products?

What Matter network transport is right for me?

What are the challenges of Matter enabled products?

How can Silicon Labs help me along my journey?

Is Matter the right technology for my products?

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# Is Matter Right for Me?

## Questions you should ask:

- Do my products need to work multiple Ecosystems?
- Do Matter Ecosystems exist in my target markets?
- Do I need an open Ecosystem to allow other devices to join, or do I want a closed Ecosystem?
- Do my devices need to have direct support of IP (Internet Protocol), or can I use a gateway?
- Do I need sub-GHz for range or propagation?
- Can I use Wi-Fi and/or Thread for my products?
- What are my battery life requirements?
- Does Matter support my device types?
- Do I have existing devices in the market that I need to interoperate with?

# Advantages of Matter Technology



## SIMPLICITY

Matter aims to provide a consistent setup experience across all devices, making it easier for consumers to add and manage new devices in their smart home ecosystem.



## INTEROPERABILITY

Devices from different brands and platforms can work together seamlessly, controlled by voice or app, thanks to Matter's universal protocol.



## RELIABILITY

Matter uses established IP technologies like Wi-Fi and Thread to build a unified connectivity ecosystem, ensuring reliable communication between devices.



## SECURITY

Matter emphasizes strong security protocols to protect smart home devices and user data.

# Smart Home Technologies Compared

	Bluetooth LE	Bluetooth Mesh	Wi-Fi	Zigbee	Z-Wave	Amazon Sidewalk	Matter
Market Focus (Home)							
Frequency Bands							
Mesh Networking							
Range							
Throughput							
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Ecosystems Support							
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<b>Ecosystems Support</b>	Amazon, Apple, Google, Signify	Amazon, Leedarson, Alibaba, Xiaomi	All	Amazon, IKEA, Signify, Somfy, Legrand, Tuya, Samsung	Alarm.com, Ring, ADT, Leedarson, Assa Abloy, Samsung	Amazon (Ring)	Amazon, Apple, Google, Comcast, SmartThings, IKEA, Tuya
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<b>Additional Notes</b>	Location services, Direct phone connectivity	Direct phone connectivity	Ubiquitous connectivity	Mature technology, 4000+ certified devices, Battery-less ZGP	Mature technology, 4000+ certified devices, new Long Range	Multiple PHY support and long range	Self-healing (Thread), State of art security, Large ecosystems interest

# Matter & The Ecosystems – Past, Present, and Future

## PREVIOUSLY

### Fragmentation

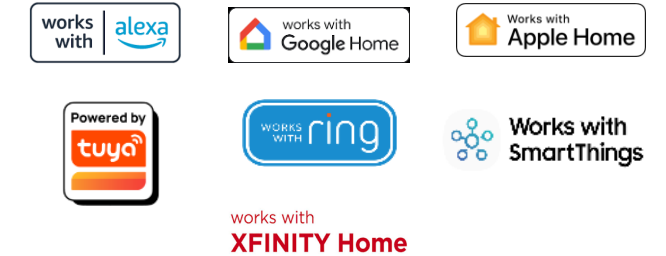
## DEVICE TRANSITION

Software updates to devices in millions of homes, let people use Matter with many devices they already have. **Hundreds of devices have been certified!**

Other devices won't get left behind — Matter supports bridging to technologies like Zigbee and Z-Wave, and major ecosystems will support existing integrations.

## 2023 AND BEYOND

### Unification



# Ecosystem Supported Devices



- Apple HomePod (2<sup>nd</sup> gen)
- Apple HomePod Mini
- Apple TV 4K
- **Apple HomePod (1<sup>st</sup> gen)**



- Nest Hub (2<sup>nd</sup> gen)
- Nest Hub Max
- Google Nest Wi-Fi Pro
- Google Nest Wi-Fi Router
- **Nest Audio**
- **Nest Mini**
- **Nest Hub (1<sup>st</sup> gen)**
- **Google Home**
- **Home Mini**



- Echo Hub
- Echo (4<sup>th</sup> gen)
- Eero Pro 6
- Echo Show (3<sup>rd</sup> gen)
- Eero Max 7
- **Echo smart speakers**
- **Echo Pop**
- **Echo Dot**
- **Echo Studio**
- **Echo Show 5, 6 (2<sup>nd</sup> gen)**
- **Echo Show 10 (3<sup>rd</sup> gen)**



SmartThings

- Aeotec Smart Home Hub
- SmartThings Station
- SmartThings Hub Dongle
- SmartThings Hub v3
- Smart TVs (select models)
- Smart Monitors (select models)
- Smart Soundbar (select models)
- **SmartThings Hub v2**
- **Family Hub fridge**
- **Smart Monitors (2022)**
- **Smart TVs (2022)**

## Other Platforms

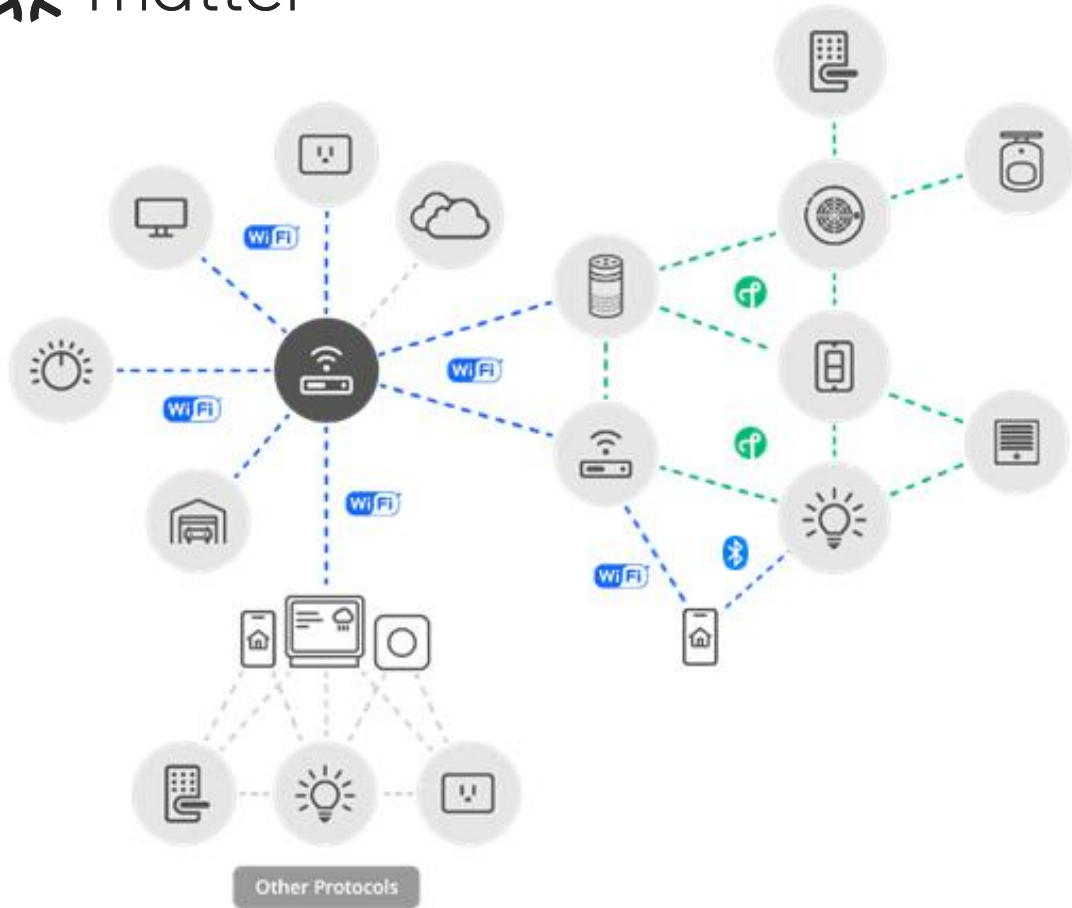
- Aqara Hub M3
- Home Assistant Yellow
- Home Assistant Green
- Comcast xFi Gateway
- Habitat Elevation
- Homey Pro hub
- HOOBS Pro
- **LG smart TVs (webOS)**

What Matter network transport is right  
for me?

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# Network Protocol and Topology



Based on Internet Protocol v6

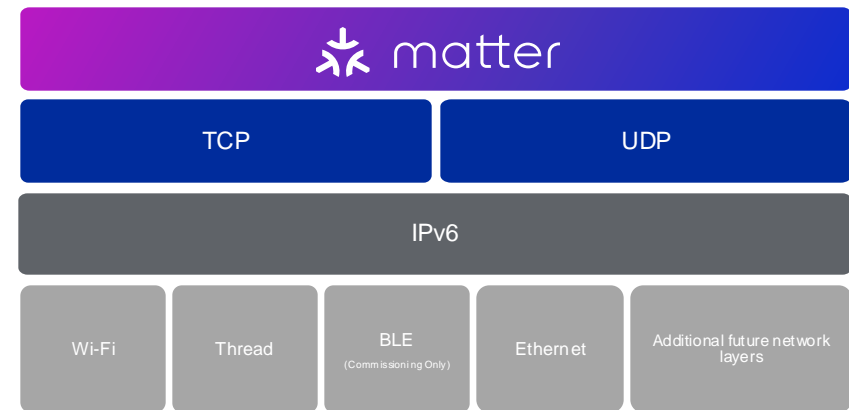
Native support for Wi-Fi and Thread

Thread devices require border routers

Devices use Bluetooth for commissioning

Bridges can link to other protocols

- Zigbee, Z-Wave, Proprietary





# Wi-Fi and Thread Comparison for Matter Devices



Universal wireless networking technology connecting many devices in the home today including high bandwidth & real-time applications like streaming video and audio, as well as line powered devices like light bulbs and thermostats.



An energy-efficient wireless mesh network that enables smart home devices such as lighting as well as battery operating devices including door locks, sensors and switches.

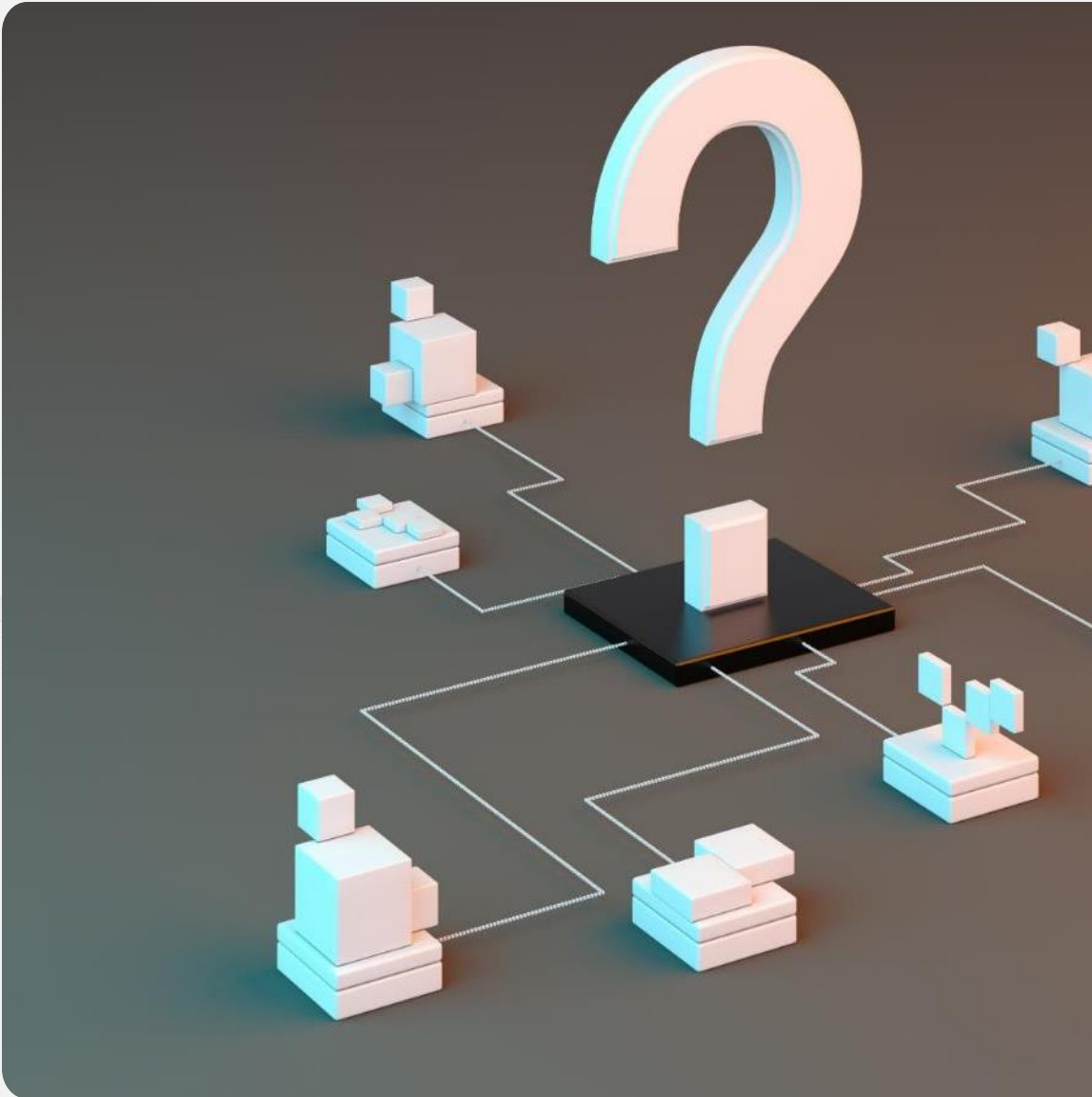
Category	Sub-Category	Wi-Fi	Thread
Connectivity	<b>Existing Infrastructure</b>	<b>Ubiquitous</b>	<b>Growing Adoption</b>
	Point-to-point	Rarely supported	Mandatory in all routers
	Mesh Networking	Requires dedicated devices from same MFG	Mandatory in all routers
Power	<b>Bandwidth</b>	<b>Very High (600 Mbps+)</b>	<b>Low (250 Kbps)</b>
	Power requirements	55 $\mu$ A (SiWx917 standby)	2.9 $\mu$ A (EFR32MG24 sleep)
	<b>Battery Type</b>	<b>Rechargeable, Alkaline (i.e. AA)</b>	<b>Alkaline (i.e. AA), Coin cell</b>
Stack	Low Power Infrastructure	Rarely supported by Access points (WMN)	Mandatory in all routers (CSL)
	IP Support	Both IPv4 and IPv6	IPv6 only
	Broadcast Support	Broadcasts are problematic	Optimized for broadcasts
	Internet Support	Extremely easy	Difficult

What are the challenges of Matter enabled products?

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# Challenges in Rolling Out Matter Enabled Products



- Device type support
- Membership and certification cost
- Interoperability & integration with existing systems
- Ecosystems and competition
- Low power and battery life
- Security and increased manufacturing complexity
- Consumer education

# Matter Device Type (May 2024)

## Controllers, Bridges, Routers, AP

- Bridges

## Media Devices

- Casting Media Players (TV)
- Video Players
- Speaker
- Remote Control

## Closures

- Door lock / controller
- Window covering / controller

## Energy Management

- Electric Vehicle Supply Equipment
- Electric Vehicle Charger (EVSE)

## Robot Devices

- Robot vacuum

## HVAC Control

- Thermostat
- Fan
- Room air conditioners

## White Goods (Appliances)

- Refrigerators / Freezers
- Washing machines
- Dryers
- Dishwashers
- Microwave Ovens
- Ovens
- Cooktops
- Extractor Hoods
- Laundry Dryers

## Lighting and Electrical

- LED Bulbs (On/Off, Dimming, Temperature, Color)
- On/Off Plug
- Dimmable Plug
- Pump

## Switches

- Light switches (On/Off, Dimming, Color)
- Generic Switch
- Pump Controller

## Smoke and CO Detection

- Smoke and CO alarms

## Sensing

- Light Sensor
- Temperature Sensor
- Pressure Sensor
- Flow Sensor
- Humidity Sensor
- On/Off Sensor

## Water Management Sensors

- Leak detectors
- Frost detectors
- Rain sensors
- Valve Control

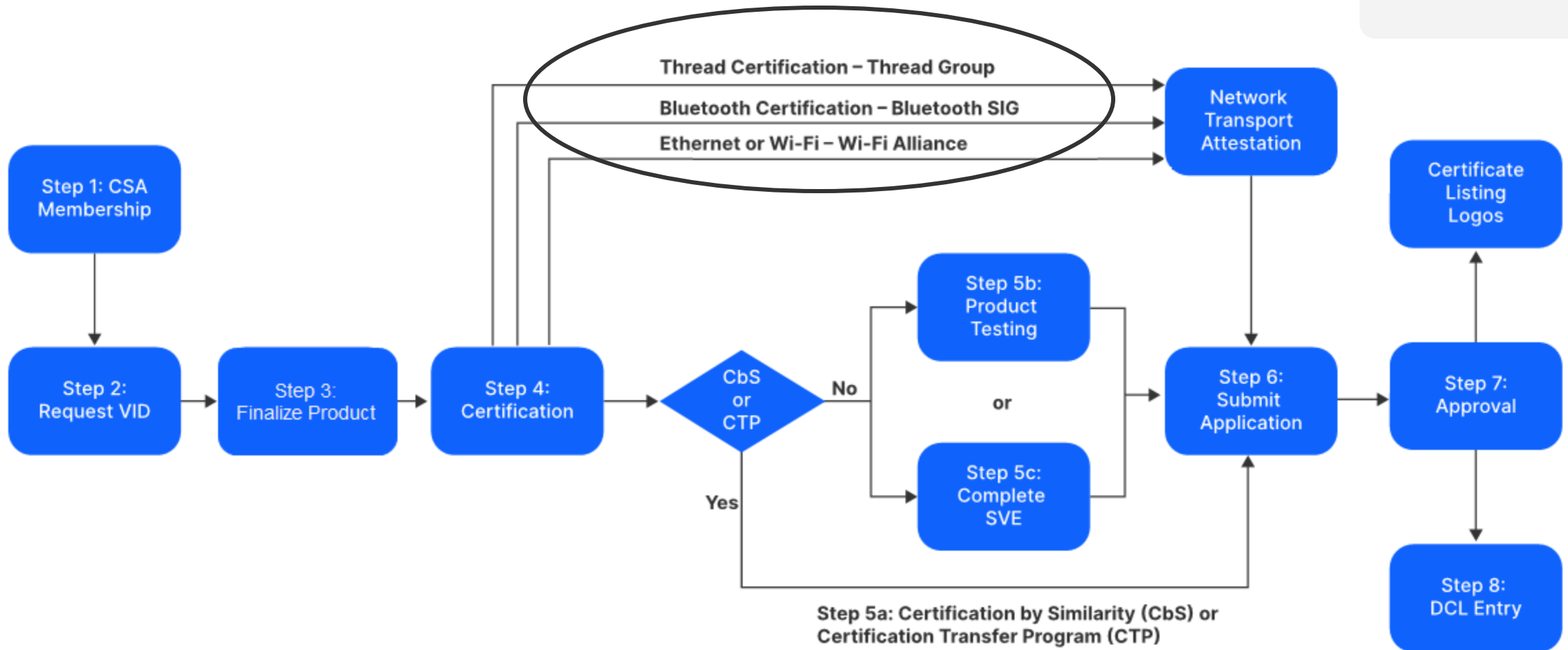
## Air Quality Control

- Air purifiers
- Air quality sensors

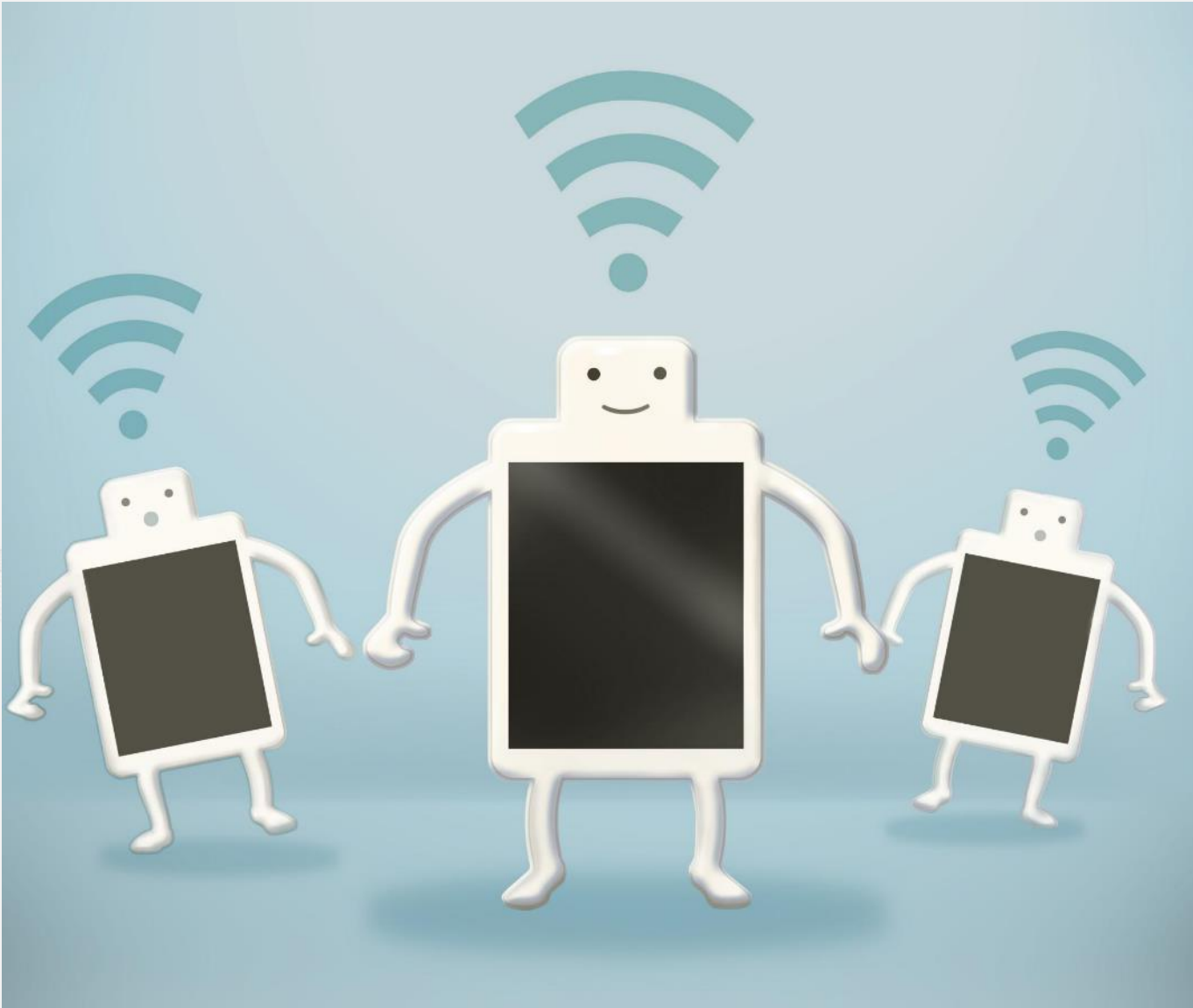
## Safety and Security

- Contact Sensor
- Occupancy Sensor

# Certification Process



# Interoperability and Integration with Existing Smart Home Systems



## Migration to Matter will not be without issues

- Impacts manufacturers, ecosystems and users
- No new standard is without issues
  - Ambiguity in spec, bugs in implementation, etc.
- Expect updates in specification
- Existing non-Matter devices may work better short term
  - Certain devices like Zigbee can be field upgraded to Matter

## Developers need to improve testing

- Need to do testing beyond certification
  - Run pilots and internal betas with larger number of devices
- Field updates are a must
  - Product firmware and rollout field updates

## Matter Bridging can bridge the gap

- Enables existing technologies onto Matter network
- Can simplify participation in Ecosystems vs Skills

# Low Power improvements

## Matter 1.2 & 1.3

- Added better support for Sleepy Devices -- Intermittently connected devices (ICD)
  - Controllers can setup subscriptions with these devices to have them periodically check-in, rather than be always on
  - Subscription recovery for when there is de-synchronization between a controller and the ICD
  - Streamlined wake-ups to support reporting to multiple controllers by sending all updates at one wake cycle
- Very beneficial for Door Locks, Shades, and other quick response, actuator sleepy devices (Short Idle Time)

## Matter Future

- WG has been iterating on these improvements continuously as part of a phased approach to new updates.
  - Silicon Labs has been the main driver of these efforts...
- Focus on sensors and other long sleep cycle devices (Long Idle Time)

# Ecosystems and Competing Standards

## Existing Ecosystems

Does Matter Ecosystems exist in your region? Some regions may have key ecosystems providers that don't support Matter or have plans to but have not rolled it out.

## Competing Standards

The existence of competing standards is a major challenge for Matter-enabled IoT products. This creates a lack of interoperability, where devices from different manufacturers cannot communicate with each other, causing complexity in IoT ecosystem.

## Slow Adoption

Slow adoption of the standard also poses a challenge, as it takes time for the market to adopt new technology. This can hinder the growth of the IoT industry and slow down innovation.

## Fragmented Market

The existence of competing standards creates a fragmented market, making it difficult for manufacturers to create devices that are compatible with different networks.



# Challenges of Educating Customers

## **Lack of Awareness**

Many consumers are not aware of the benefits of Matter IoT solutions and how they can improve their smart home experience. This lack of awareness can hinder adoption and demand for this technology.

## **Complex Technology**

Matter IoT solutions can be complex and difficult to understand for the average consumer. This complexity can increase the learning curve and hinder adoption and demand for this technology.

## **Privacy and Security Concerns**

Matter IoT solutions can collect a lot of personal data, which can raise concerns about privacy and security. Educating consumers about the safeguards in place and the importance of securing their smart home devices can help alleviate these concerns.

## **Strategies for Overcoming Challenges**

To overcome the challenges of educating consumers, we need to raise awareness, simplify technology, and address privacy and security concerns.

How can Silicon Labs help me along  
in my journey?

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# Meeting the Challenges of Matter



- Device type support
- Certification cost
- Interoperability
- Integration with legacy systems
- Low power and battery life
- Security
- Increased manufacturing complexity

# Silicon Labs SDK Matter Support

## Matter support

- Matter SDK Extension for Simplicity Studio
  - SDK Suite v4.4.4 -- Matter 1.3
- Actively working on future Matter versions with Alpha and Beta releases to support test events

## Matter Sample Applications

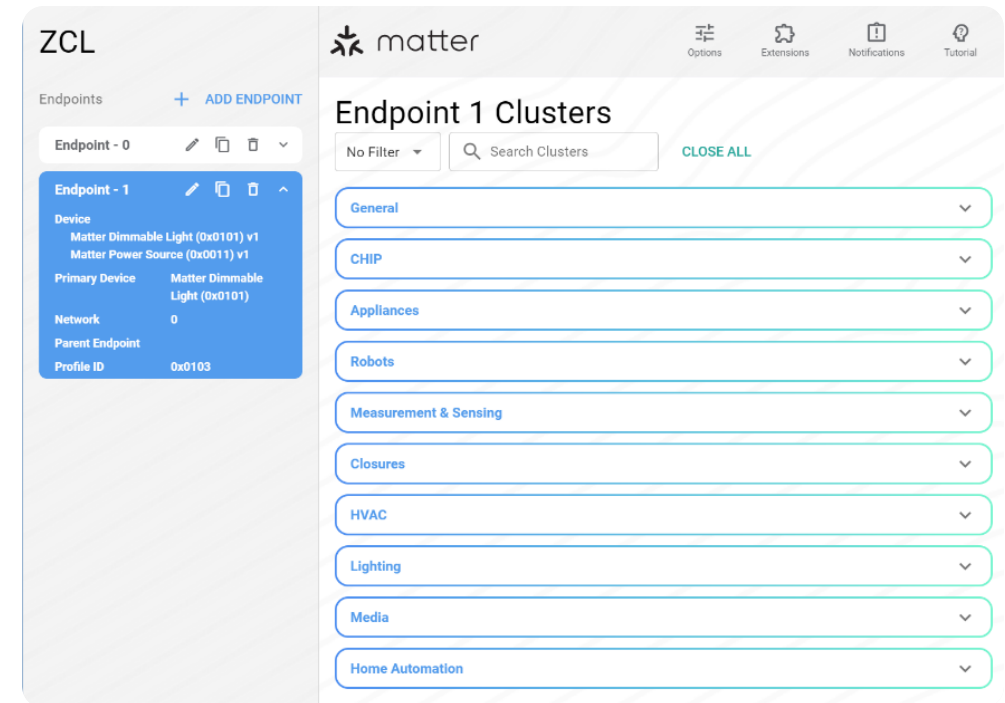
- Dishwasher
- Light Switch
- Lighting
- Lock
- Smart Plug
- Thermostat
- Window Covering
- Others - Enabled through ZAP

## Cluster Support

- All Matter certified clusters

Create any Matter device with any set of clusters using ZAP

Built into our Simplicity Studio



# Matter Certification



## Ecosystem Certification

- Interoperability testing & certifications are required with Ecosystems.
- Certification delivers the right to use the official Works With badges.



## Stack Certification

- **Bluetooth LE** – Stack is qualified with the Bluetooth SIG and is inheritable.
- **Thread** - Stack is certified and inheritable.
- **Wi-Fi** - Stack is tested & certified with the Wi-Fi Alliance but not inheritable.



## Matter Certification

- Matter certification is not inherited
- End devices must be certified despite using pre-certified software components.

- Silicon Labs' Matter software have been tested with Ecosystems.
- Our Matter software, application examples, and SDK are CSA-certified.
- Our Connectivity Lab, docs, guides, and tools speed up your certification processes
- Silicon Labs' wireless stacks are certified with the respective standardization bodies to reduce development time and costs.
- Simplicity Studio streamlines testing and certification for you.

# Connectivity Lab – Test Matter & Ecosystems

## Why Connectivity Lab?

- Many ecosystems support Matter today. However, we are on the verge of exponential market growth
- The increasing popularity of Matter will make interoperability and unification more complex
- Connectivity Lab will provide a practical and simple way to improve many-to-many interoperability to tear down the boundaries between ecosystems

## Purpose

- Simulate a real home to address the real issues users might experience when using smart home
- Test real-world multi-fabric use cases in Matter
- Find out solutions to improve interoperability between the ecosystems
- Test the theories to help the smart home industry to advance to a unified, commercially viable, global system

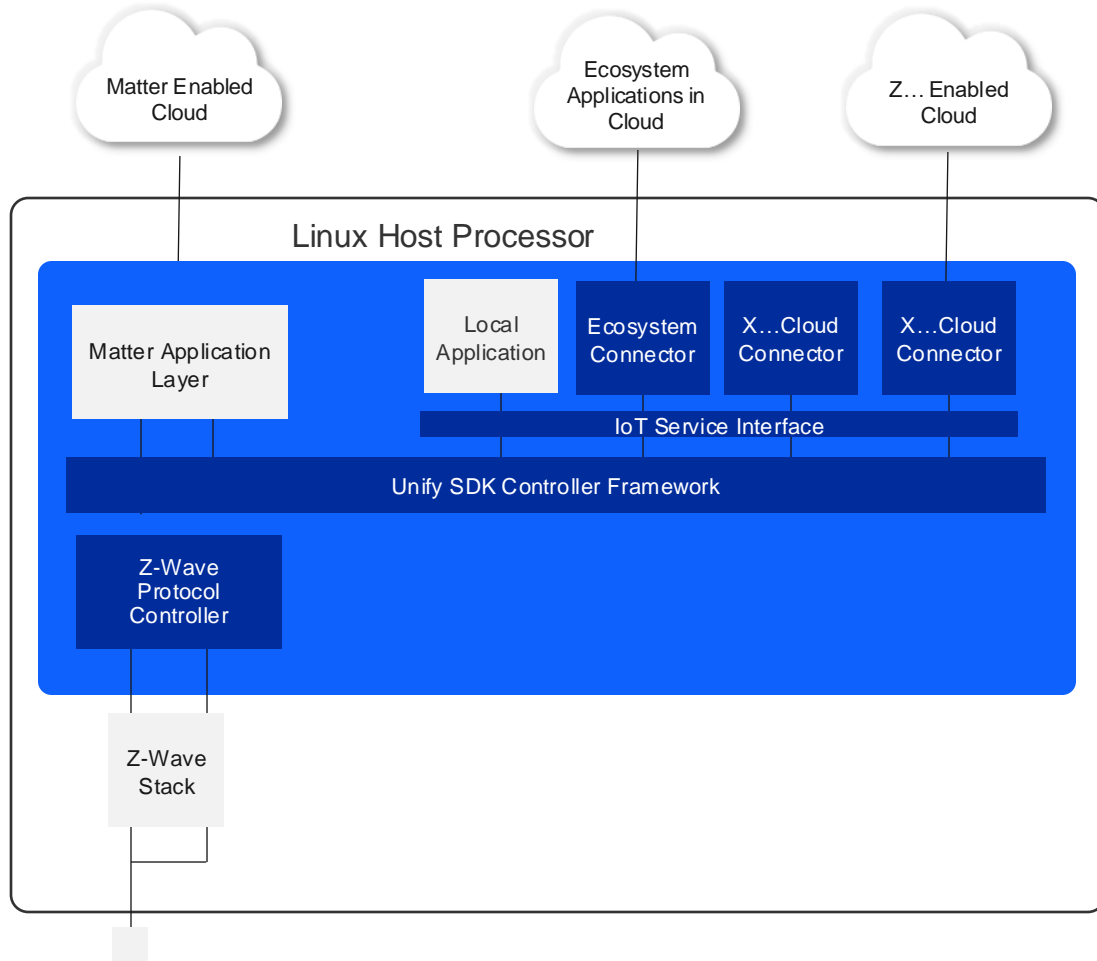
## Real World User Testing Results

- [Article](#)
- [Podcast](#)



**Connectivity Lab Complements Silicon Labs' Leadership as a One-stop Matter Solution Provider**

# Unify



## Unify SDK for Infrastructure:

- MQTT based Unify SDK Framework
- Common IoT Service Interface for Applications
- Protocol Controllers
  - Abstracts all protocols in stable common API
  - Flexible architecture that can expand to other protocols
- Bridge for Z-Wave to Matter

# Custom Part Manufacturing Service

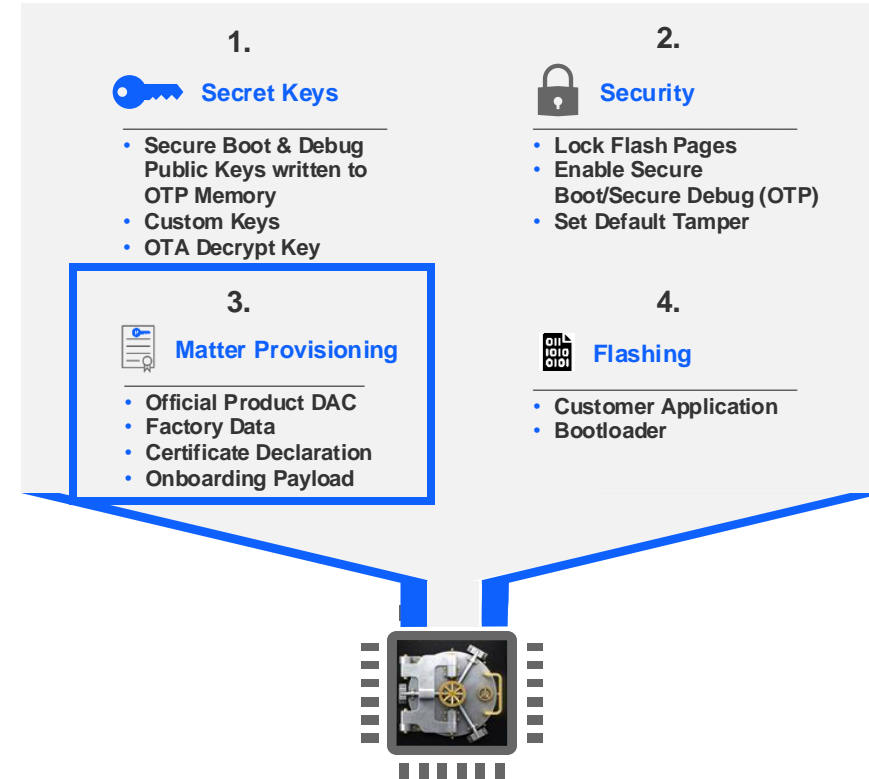
## User customization of Silicon Labs devices

- Ensures secure supply chain and prevents counterfeiting
- Simplifies product manufacturing and test fixture cost
- Helps meet upcoming security regulations
- [Self-service web portal](#)
- [CPMS Introduction Video](#)

## CPMS Options

- Unique Part Numbering
  - Track shipments to avoid overproduction and counterfeiting
- Custom Programming - Application and Bootloader
  - Pre-flash your software securely and cost efficiently
- Secure Options
  - Debug Lock – Secure debug port to protect IP
  - Secure Boot – Ensures only authorized firmware is run
  - Key Injection – Safeguard products before production
  - Custom Identity – Ensure product authentication
  - Tamper Detection – Protect products from attacks
- Custom Marking
  - Hide the technology used in your products
- **Matter DAC Injection**
  - Simplify Matter product manufacturing
  - [CPMS for Matter Video](#)

## Secure Programming (CPMS)





# Summary

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# Is Matter Right for Me?

## Matter is a good choice if:

- You need to work multiple Ecosystems
  - Amazon, Google, Apple, Samsung, etc.
- You can use Wi-Fi and/or Thread for your products
  - Full application layer support
- You want an open Ecosystem
  - 3rd party devices can join the network
- You need to have direct support of IP (Internet Protocol)
  - Matter is based on IP
- Your device types are supported by Matter
  - Device types are required for interoperability

## Matter might not be a good choice if:

- You require sub-GHz for range
  - Consider a Matter bridge (i.e Matter to Z-Wave)
- You want a closed ecosystem
  - May be better options with less overhead
- Matter device types are not supported
  - Consider joining CSA to help define new device type

# Summary

## **Matter addresses the challenges faced by consumers, manufacturers, and retailers**

- Reduces purchasing confusion and returns
- Improves interoperability and user experience

## **Matter aims to bring simplicity, interoperability, reliability, and security to smart home devices**

- Enables devices from multiple brands to work natively together on multiple ecosystems

## **Silicon Labs' provides lowest power Matter over Thread and Matter over Wi-Fi solutions**

- Designed to address a broad range of applications

## **Silicon Labs' end-to-end Matter developer journey**

- Simplifies Matter development, testing, and manufacturing

## **Silicon Labs is committed to the success of Matter**

- Strong portfolio of both Matter over Wi-Fi and Matter over Thread
- Continued development and support in CSA for new features and device types
- Largest Matter code contributor among Semiconductor companies



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*Thank You*