



# Matter 1.0 Testing and Certification Solutions

## Get your Smart Home products certified

TÜV Rheinland now offers testing and certification for smart home products according to the MATTER communication standard. MATTER was released by the Connectivity Standards Alliance (formerly Zigbee Alliances) and is the first international standard that defines uniform, cross-national framework conditions for smart home products.

### WHAT IS MATTER 1.0

Matter is one protocol to connect compatible devices and systems with one another; with a new approach to create a rapid, transformative impact on the market.

#### Simple | Interoperable | Reliable | Secure

- Industry-unifying standard is a promise of reliable, secure connectivity.
- Offers a familiar and consistent setup flow to make onboarding simple, reliable, and secure.
- Breaking new ground with development approach.
- Being adopted across the value chain and around the world from silicon to storefronts, from Stockholm to Shanghai - look for the mark that matters.

With a unifying standard, it allows consumers to connect smart devices to multiple apps and ecosystems locally, securely, and simultaneously. It allows users to choose the brands and devices they love and the ecosystems they'll work with while knowing their smart home will be able to grow with them.

Matter is mainly based on the following Wireless Communication Standards:

- Ethernet
- Bluetooth®
- Wi-Fi®
- Thread

### WHICH PRODUCTS AND CUSTOMERS ARE RELEVANT?

With MATTER 1.0, the Connectivity Standards Alliance's (CSA) project consortium with a total of more than 550 involved and internationally active technology companies has now developed a protocol that defines standardized, cross-national requirements and framework conditions for smart home products.

#### Devices Planned for 1.0 Launch

- Lighting and electrical
- Window coverings/shades
- Fan controls
- TVs
- HVAC controls
- Bridges
- Door locks
- Sensors (inc. Safety and security)

#### Next Set of Devices (active Use Case teams)







- Appliances (White goods) – kitchen equipment
- Robot vacuum cleaners
- Doorbells / Cameras
- Energy management (EV Charging +)
- Access points, Border Routers
- Smart Speakers

**WHY TÜV RHEINLAND**

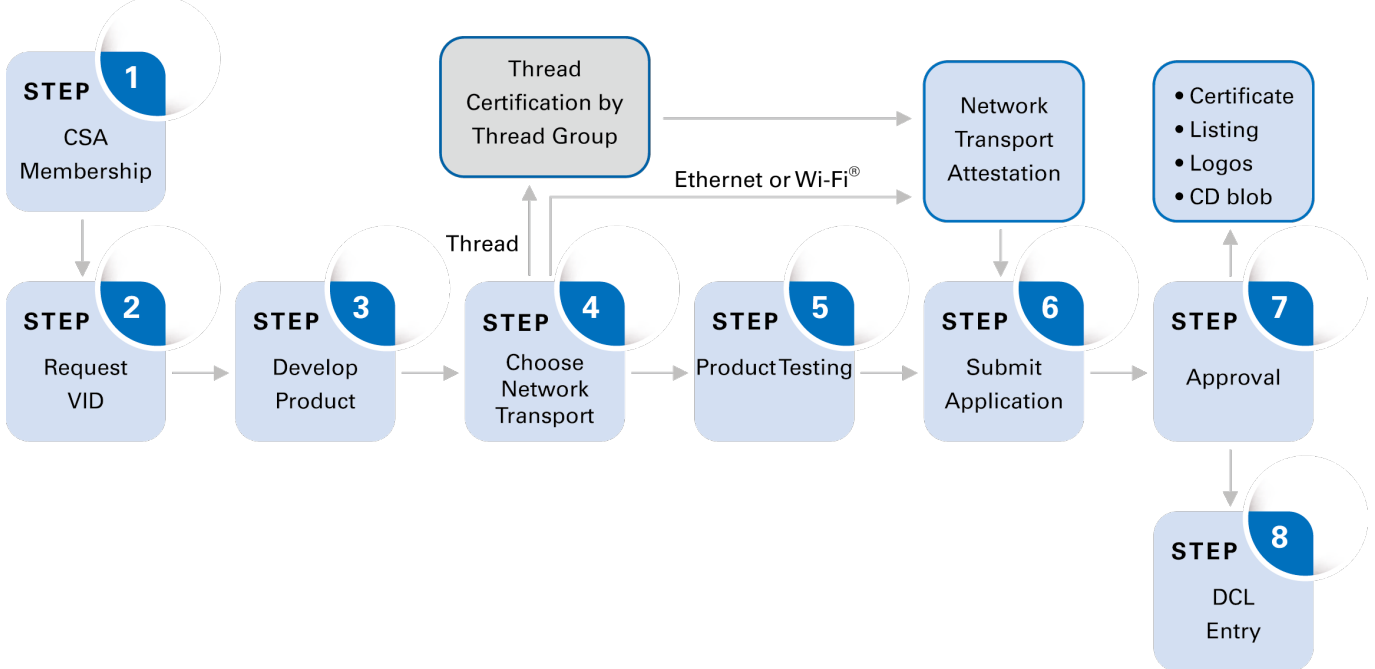
According to technology company ABI Research, more than half of all smart home devices will ship with Matter support within five years. TÜV Rheinland has four of 18 laboratories worldwide, where both new and existing smart home products can now be tested for MATTER 1.0 criteria such as connectivity, performance and interoperability.

TÜV Rheinland offers MATTER 1.0 testing and certification to its customers worldwide through one of four CSA authorized laboratories in Lund, Sweden; Seoul, Korea; Yokohama, Japan; and Shenzhen, China.

With global capability coverage, TÜV Rheinland supports you to deliver an end-to-end solution according to your needs including EMC testing, Radio approval, Bluetooth® and Wi-Fi® testing, please contact us for a quotation.

MARKET ACCESS SERVICE/ RADIO TYPE APPROVALS	WIRELESS INDUSTRY CERTIFICATIONS	DATA PRIVACY / CYBER SECURITY	VALUE ADDED SERVICES
 <p>Our experts are fully versed in various international standards and approval requirements for global market access, and can manage the required testing.</p> 	 <p>Technology driven testing requirements to ensure interoperability and performance.</p> 	 <p>With our Protected Privacy certificates we developed in-house our own data protection and information security test program.</p>	 <p>Pretesting, Fully Automated Test Solutions, R&amp;D Support Services, Customer Specific Requirement Testing, Preferred Testing Partner Network, etc.</p>

**MATTER 1.0 CERTIFICATION PROCESS**



Contact us to get a quote now

TÜV Rheinland  
Corporate Headquarters  
Cologne, Germany  
+49 221 806-0  
wirelessloT@tuv.com  
www.tuv.com/wireless

