

Introduction to the FiRa Consortium

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Our Vision

Our **vision** is to transform the way we interact with our environment by enabling **precise location awareness** for people and devices.

Our Members are Industry Leaders

Over 115 industry leaders with a commitment to supporting UWB have already joined FiRa!

Current Sponsor Members



See list of members at www.firaconsortium.org/about/members

FiRa Consortium Goals

Foster a framework to facilitate broad adoption of UWB and its fine ranging and positioning capabilities



Spur Innovation

- Support the development of compelling use cases across broad business domains
- Provide a unique opportunity to explore and define transformative uses for UWB technology



Ease Adoption

- Enable member companies to work together to deliver the building blocks, tools and technologies needed to integrate UWB quickly and seamlessly
- Foster a robust UWB ecosystem to enable rapid technology deployment



Support Interoperability

- Define and drive specifications intended to support interoperability between UWB-enabled products

UWB Positively Impacts User Experiences

Transforming the connectivity experience



<https://www.firaconsortium.org/discover/use-cases>

FiRa's Commitment to Collaboration

To create a stronger ecosystem for UWB technology as a whole

- FiRa liaises with other consortia and industry stakeholders to strengthen UWB use
- As a member of ETSI, FiRa is involved in drafting the Harmonized Standards and the right to participate in other regulatory bodies in Europe
- By collaborating across disciplines, welcoming the contributions of key stakeholders, and [leveraging industry standards where applicable](#), FiRa creates a stronger, open ecosystem for UWB technology as a whole
- FiRa is committed to cooperation with all technologies that complement UWB such as NFC, Wi-Fi and Bluetooth®



Collaboration





FiRa Works to Grow the UWB Market

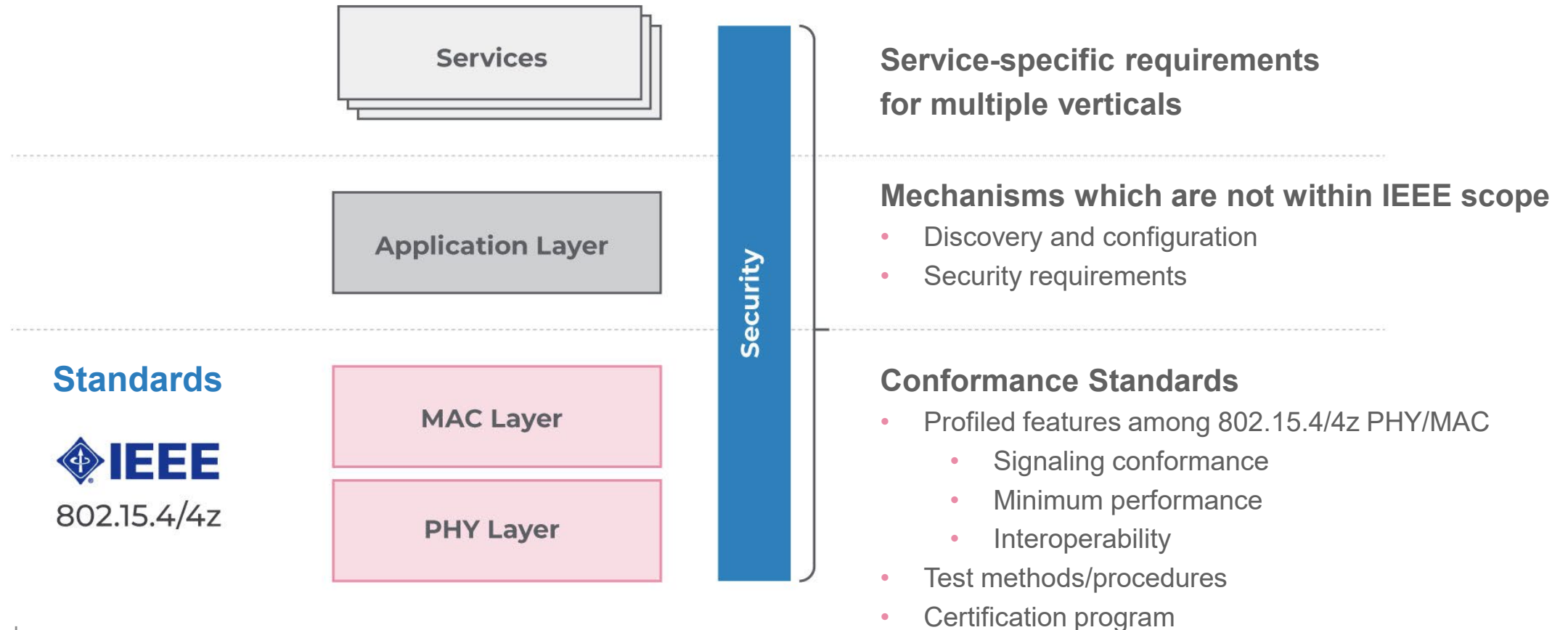
To build widespread adoption of UWB technology

- **FiRa drives market adoption of UWB by:**
 - Creating compelling use cases across multiple markets and applications
 - Evangelizing the capability of UWB technology
 - Through FiRa Presents video sessions, webinars, podcasts, social media and other digital assets
 - Advocating for UWB with government and regulatory bodies to drive fair spectrum rulings for UWB deployments
 - Fostering an interoperable UWB ecosystem across chipset, device and service infrastructure through standards and certifications

FiRa's Scope of Certification

Builds on the foundation of the IEEE 802.15.4/4z standard

FiRa Consortium



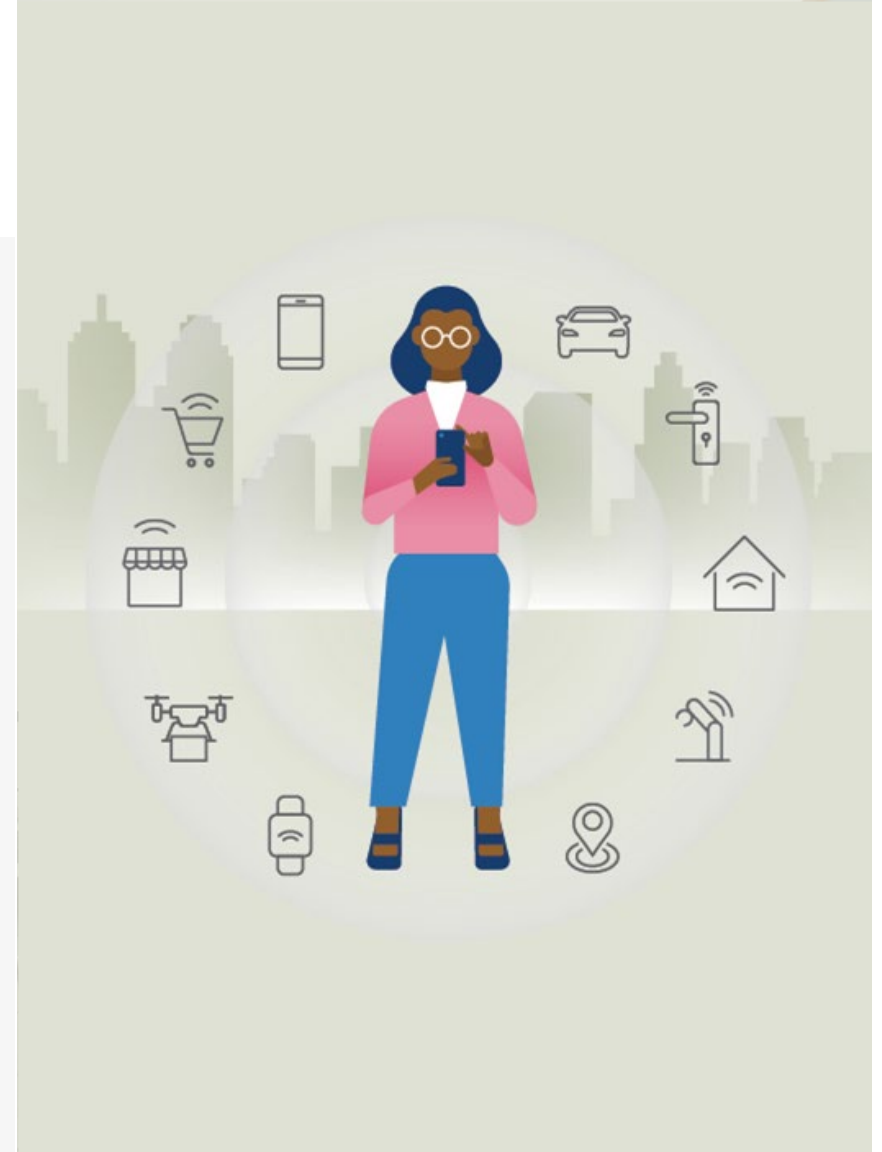
FiRa Certification Program

Aimed at driving UWB interoperability among UWB devices

- Offers defined processes for verifying that candidate devices conform to FiRa requirements and test specifications
- For Base Certification, the device must meet the FiRa-specified MAC/PHY Conformance and Interoperability Test Specifications, including static STS parameters
- The FiRa Certified logo can be used by FiRa members who have devices that fulfill the criteria of the Certification Program



Learn more about the
FiRa Certification Program at
<https://www.firaconsortium.org/certifications>



FiRa Working Groups and Task Groups

Defining the UWB ecosystem

- Working Groups (WGs) and Task Groups (TGs) are member driven and collaborate to address the various needs of the Consortium
- Working Groups include:



The Benefits of Joining FiRa

Maximize the benefits of UWB for your brand

- The FiRa Consortium provides a way for a wide range of product and solution companies to create a broad UWB ecosystem for combined future success

As a FiRa Consortium member, your company will be able to:

- Collaborate with UWB market leaders in semiconductors, devices, and systems
- Build a network of connections in the UWB ecosystem
- Explore and ensure interoperability of your UWB products
- Get your products certified.
 - **The FiRa certification program requires FiRa membership**



Apply Today



Joining FiRa

Contact Us

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Appendix



01.

Membership

Learn about membership
in the FiRa Consortium

02.

FiRa IPR Policy

High level overview of
FiRa Consortium IPR Policy

03.

FiRa Bylaws

High level overview of
FiRa Consortium Bylaws

04.

Stakeholders

High level overview of the industries
our stakeholders participate in

01. Membership

	Sponsor ¹	Contributor	Associate	Adopter	Test Lab	Academic and Educational	Affiliate ²
Board of Directors	✓						
Working Group Steering Committee Participation	✓	✓					
Working Group Leadership	✓	✓					
Working Group Voting Rights	✓	✓					
Working Group Participation	✓	✓	✓		Compliance & Certification WG only	✓	✓
Access to Final Specifications	✓	✓	✓	✓	✓	✓	✓
Certify Products	✓	✓	✓	✓			✓
Apply for Authorized Test Lab					✓		
Annual Membership Fee (USD)	\$80K	\$50K	\$30K	\$15K (if revenue ≥ \$50M) or \$5K (if revenue < \$50M)	\$5K	\$2.5K (one time only)	No charge

¹As part of the Sponsor Member application review and approval process, a presentation to the FiRa Consortium Board of Directors (“Board”) may be requested, and the Board may, on a reasonable and non-discriminatory basis, take into account the impact that the admission of an applicant may have on the balance of representation on the Board (e.g., with reference to industry segments and geography).

²Affiliate Membership is limited to companies related by majority ownership to a current Sponsor or Contributor Member of FiRa Consortium.

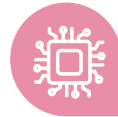
02. Overview of FiRa IPR Policy

- Applicable to all Members and Member Representatives, and others bound by separate written agreement
- Governs the ownership, licensing, and treatment of intellectual property that is contributed to, generated by, or necessary for the implementation of standards developed as part of the FiRa Consortium activities
- Subject to the specific terms of the IPR Policy, in general:
 - Members (and their Related Parties) participating in FiRa Consortium Working Groups commit to license Necessary Claims on RAND (Reasonable and Non-Discriminatory) or RAND-Z (RAND with Zero royalty) terms, and may withhold Necessary Claims, by submitting a timely written declaration form
 - Members that did not participate in the applicable development group may (but are not obligated to) make RAND or RAND-Z commitments, or withhold licenses to Necessary Claims by submitting a written declaration form
 - New incoming members are not obligated to make license commitments with respect to Standards approved prior to the start of membership
- Patent calls before technical meetings
- No obligation to conduct patent searches for Necessary Claims

03. Overview of FiRa Bylaws

- The Bylaws establish the rules governing the operations of the organization, including the rights of members, rules for meetings and corporate actions, voting and quorum requirements, and other matters
- Delaware non-profit corporation with 6 classes of membership
 - Sponsor, Contributor, Associate, Adopter, Test Lab and Academic & Educational
- **Directors:** Sponsor members each designate 1 Director and up to 2 alternates
- **Officers:** 2-year term, elected by Board of Directors, compensation possible
- Board of Directors establishes Member Committees, Working Groups, Task Groups, sub-committees, special interest groups, etc.
- Indemnification and insurance possible for Directors, Officers, employees and agents

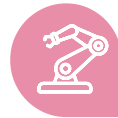
04. Key Stakeholders Represented in the FiRa Consortium



Chip Manufacturers



Technology Providers



Device Manufacturers



Test Tool Developers



System Integrators



Test Labs



Service Providers



Academic and
Educational Providers

An aerial, high-angle photograph of a large, open pedestrian plaza paved with light-colored rectangular tiles. A dark, textured metal grate runs vertically down the center of the image. Numerous people are walking in various directions across the plaza. In the center, the word "THANKS" is overlaid in large, white, sans-serif capital letters. The overall scene is bright and captures a moment of everyday urban life.

THANKS