



# Eclipse ThreadX

## 2024 Program Plan

**DRAFT - FOR DISCUSSION ONLY**

## Note

This draft program plan is a starting point. Foundation staff built it to support discussions among the members of the ThreadX working group steering committee.

**The actual program plan will likely be different.** If you are a working group member with a seat on the committee, feel free to propose additional objectives or changes to the objectives found herein.

Program plans define the strategy for implementing the vision and scope of the working group. They are used to identify priorities to be accomplished during the next year.

Steering committees freely define their program plans in accordance to the relevant Eclipse Foundation policies.



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# Our Mission

# Our Mission

Eclipse ThreadX is a mature, high-quality, scalable, real-time operating system (RTOS) for use in multiple embedded software application domains. Eclipse ThreadX and its components strive for high performance with minimum resource consumption and possess relevant security and safety certifications.

The mission of the ThreadX Working Group is to advance, promote, and support the technologies derived from or related to the Eclipse ThreadX project



# Program Objectives

# Program Objectives

Security and  
Safety  
Certifications

Technical  
Initiatives

Adoption

Thought  
Leadership

Increase  
Membership

1. Maintain the **security and safety certifications**
2. Identify **technical initiatives** that will drive ThreadX and its components forward
3. Increase **ThreadX adoption**
4. Establish **thought leadership**
5. **Increase membership** to build a more diverse and robust ecosystem

# Strategies and Tactics



# Program Strategies and Tactics 1/5

| Program Objective  | Corresponding Strategies and Tactics  |
|--|---|
| <ol style="list-style-type: none"> <li>1. <b>Security and Safety Certifications</b></li> <li>2. Technical Initiatives</li> <li>3. Adoption</li> <li>4. Thought Leadership</li> <li>5. Increase Membership</li> </ol> | <ul style="list-style-type: none"> <li>• Work with SGS-TÜV Saar to certify selected releases according to IEC-61508 SIL 4, IEC-62304 SW Safety Class C, ISO 26262 ASIL D and EN 50128</li> <li>• Work with UL to certify selected releases for compliance with UL 60730-1 Annex H, CSA E60730-1 Annex H, IEC 60730-1 Annex H, UL 60335-1 Annex R, IEC 60335-1 Annex R, and UL 1998</li> <li>• Work with Brightsight BV and SERTIT to certify the existing target of evaluation under EAL4+ Common Criteria for selected releases</li> <li>• Work with atsec and NIST to validate selected releases of the ThreadX crypto libraries for conformance to FIPS 140-2</li> </ul> |

# Program Strategies and Tactics 2/5

| Program Objective  | Corresponding Strategies and Tactics   |
|--|--|
| <ol style="list-style-type: none"><li>1. Security and Safety Certifications</li><li><b>2. Technical Initiatives</b></li><li>3. Adoption</li><li>4. Thought Leadership</li><li>5. Increase Membership</li></ol> | <ul style="list-style-type: none"><li>• Define and publish a public roadmap for ThreadX and its components</li><li>• Identify gaps in the ThreadX stack and develop a strategy to address them (Removal of exFAT and CoAP/LWM2M, BLE, WiFi, others?)</li><li>• Identify gaps in architecture / SOC / MCU support and develop a strategy to address them</li><li>• Ensure Sparkplug and zenoh implementations are available for ThreadX</li></ul> |

# Program Strategies and Tactics 3/5

| Program Objective  | Corresponding Strategies and Tactics   |
|--|--|
| <ol style="list-style-type: none"><li>1. Security and Safety Certifications</li><li>2. Technical Initiatives</li><li><b>3. Adoption</b></li><li>4. Thought Leadership</li><li>5. Increase Membership</li></ol> | <ul style="list-style-type: none"><li>• Design and build a proper website for the working group</li><li>• Establish relevant social media channels (LinkedIn, Mastodon, X, others?)</li><li>• Define and execute an engagement strategy for industry events (conferences, trade shows)</li></ul> |

# Program Strategies and Tactics 3/4

| Program Objective  | Corresponding Strategies and Tactics   |
|--|--|
| <ol style="list-style-type: none"><li>1. Security and Safety Certifications</li><li>2. Technical Initiatives</li><li>3. Adoption</li><li><b>4. Thought Leadership</b></li><li>5. Increase Membership</li></ol> | <ul style="list-style-type: none"><li>• Define and execute a content production strategy (blogs, articles, videos, others?)</li><li>• Identify relevant industry influencers and develop a strategy to engage with them</li><li>• Organize webinars and in-person events as needed</li></ul> |

# Program Strategies and Tactics 4/4

| Program Objective  | Corresponding Strategies and Tactics  |
|--|---|
| <ol style="list-style-type: none"><li>1. Security and Safety Certifications</li><li>2. Technical Initiatives</li><li>3. Adoption</li><li>4. Thought Leadership</li><li><b>5. Increase Membership</b></li></ol> | <ul style="list-style-type: none"><li>• Establish and manage a membership pipeline</li><li>• Define and execute an outreach strategy for the following market segments: silicon/SBC manufacturers, embedded system integrators and tool vendors</li></ul> |

# Member Participation

# How Members Participate

- > **Follow and engage with @ on Twitter and LinkedIn**
  - Please use # hashtags whenever relevant in your posts
  - Ask your company's social media manager to follow and RT from official handles
  - Please share news and updates with your own personal networks
- > **Share your project-related news and announcements with [news@eclipse.org](mailto:news@eclipse.org)**
  - Let us know 4-6 weeks in advance of a newsworthy project milestone, so we can draft an announcement, pitch to media, and/or schedule briefings with Mike Milinkovich and the Project Lead
- > **Author blog posts that mention ThreadX**
  - Write a post about your experience as a member of the ThreadX community
- > **Share your use cases and success stories with [news@eclipse.org](mailto:news@eclipse.org)**
  - Let us know how you are ...
- > **Volunteer to give a webinar / host a virtual meetup (Venues TBD)**
- > **Submit talks to CFPs for working group's awareness**

# Proposed Member Goals

| Program   | All Members |
|---|-------------|
| Blogs for Postings  | 1/quarter   |
| Project-related Social Media Posts from Official Channels | 5/month     |
| Case Studies/Use Case                                     | 1/year      |
| Webinar   | 2/year      |
| Chat Video Interview                                      | 1/year      |



# Key Metrics

# Growth Metrics

## Member, Adopter, and Project Growth

| Metric                           | As of March 1, 2024 | Targets (by December 31, 2024) |
|----------------------------------|---------------------|--------------------------------|
| Members                          | 9                   | 15                             |
| Commercial Adopters*             | Thousands?          | ???                            |
| Boards Supported                 | ???                 | ???                            |
| SOC / MCUs supported             | ???                 | ???                            |
| Special Interest Groups (SIGs)** | 0                   | 0                              |
| Projects***                      | 1                   | 1                              |



# Thank you!