



arm

# TF-M Documentation Update

Anton Komlev

April 2022

# Documentation structure update

Trusted Firmware-M

 **TrustedFirmware**  
.org

v1.6.0-RC4+356bef9

Search docs

**OVERVIEW**

- Introduction
- Getting Started
- Security
- Releases
- Glossary

**DEVELOPMENT**

- Platform Selection
- Building
- Integration Guide
- Design Documents
- Tools

**CONTRIBUTION**

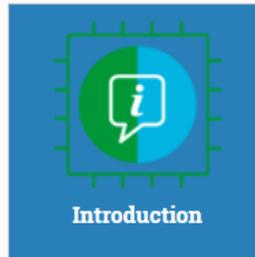
- Guidelines
- License
- DCO

**LINKS**

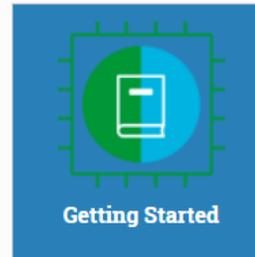
- API Reference
- Security Center
- PSA

» Trusted Firmware-M Documentation

## Trusted Firmware-M Documentation



Introducing the Trusted Firmware-M Project: overview, architecture, features, and licensing.



Follow this guide to set up a development environment on your system, and then build and run a sample application.



List of supported boards and platforms.



As an open-source project, we welcome and encourage the community to submit patches directly to the project.



Guidelines for integration with TF-M.



Design documents.

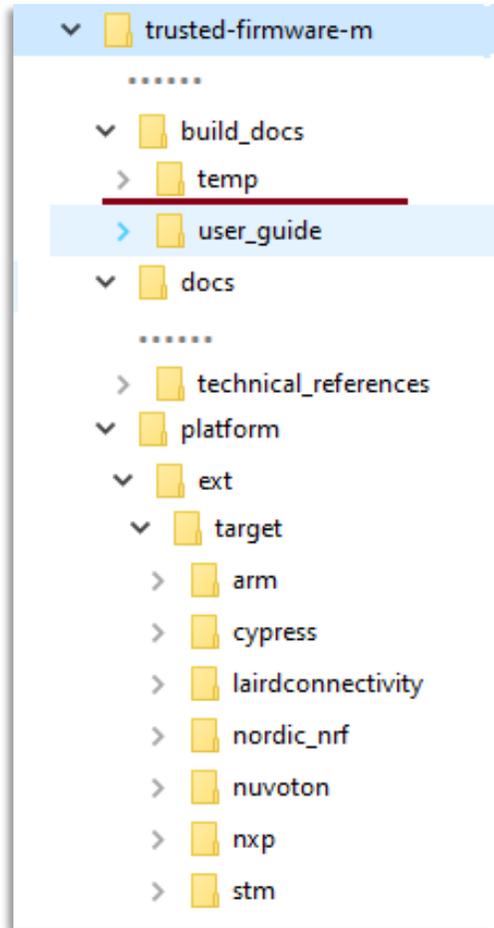


Requirements, processes, and thread models for ensuring security is addressed within the TF-M project.



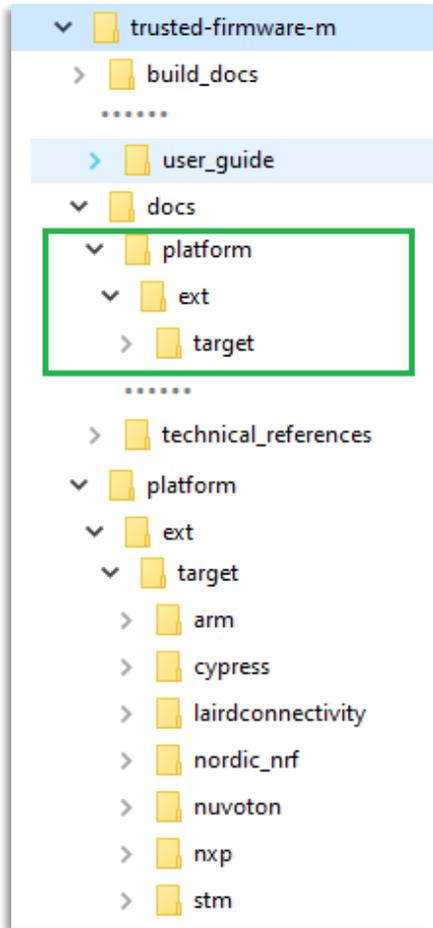
Release notes.

# Documentation under the hood



- + The original problem
  - Documentation files are in **/docs** and **/targets/**
  - [Sphinx](#) can refer files from root (docs) only
  - Depends on variables in Cmake, ENV
- + The Docs generation process
  - Gather \*.rst files in a temporary directory **/temp**
  - Generate **/temp/conf.py** file using CMake and environment variables
  - Run Sphinx in the **/temp**
- + The associate issues
  - A bit of magic on how it works
  - Sphinx can not trace dependencies
  - Difficult to let [ReadTheDocs](#) taking care about it

# The new way



## + Static configuration

- **conf.py** is fixed and static
- Platform's documentation is moved under **/docs** folder
  - + There is no need to copy and keep a temporary folder
- All internal links are relative to **/docs**, treated as a new root

## + The side-effects

- Platform's documentation is decoupled from a platform code
- Sphinx related guide and tutorials are valid to TF-M now
- Faster and simpler generation process
- Incremental build support
- ReadTheDocs hosting friendly

## + Take out

- Not much change for end-user. Even the build command unchanged
- Platforms' documents are in the related folder under **/docs**

# The further ideas

- + Review and update the content
- + Improve and streamline the Getting started guide
- + Support multiple versions, bonded to releases
- + Provide PDF for downloading
- + Move hosting to [ReadTheDocs](#)
- + Link to docs in other TF-M repositories (extras, tools, tests, CI)
- + Consider a template for a platform documentation
- + Review the purpose and need of /docs/cmake

arm

Thank You

Danke

Gracias

Grazie

谢谢

ありがとう

Asante

Merci

감사합니다

धन्यवाद

Kiitos

شكرًا

ধন্যবাদ

תודה