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TF-M Documentation Improvement

Plan and Discussion

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1 April 2021

Objectives

- Give the new starters more intuitive and clearer guidance to reduce the difficulty of getting started
- User focused - more and more people follow TF-M – for product/platform integration, contribution, study, etc. They need different kinds of help from the document.
 - Consumer – integrate the platform/system/solution with TF-M
 - Contributor – contribute to TF-M features, upstream platform support and secure partitions.
- Easy to maintain and keep the document up-to-date

Proposals

- Optimize the document structure (today's topic)

Next step:

- Simplify the getting-started page
 - SW, toolchain and dependencies installation
 - Build and try first demo
- Enhance the integration guide
 - Platform, RTOS, secure partition, ...
 - Easy to follow

Structure of the document

| Entry | Purpose | Content |
|---------------------|--|---|
| Getting started | Help the user (especially new-starter) to understand: <ul style="list-style-type: none">• What is TF-M – function, feature, license, etc. (Home page)• Quickly setup the environment and have a try | <ul style="list-style-type: none">• Introduction (Home page)• Software requirement (Linux/Win)• Instructions for quickly building and trying TF-M on a platform |
| Supported platforms | Share the information/readme of supported platforms to help the user setting up TF-M on the platform | <ul style="list-style-type: none">• Readme of each platform• Deprecated platform info |
| Contributing | <ul style="list-style-type: none">• Clarify license details• Provide necessary guidance to the contributor | <ul style="list-style-type: none">• License details & DCO• Contributing process• Coding guide• Maintenance model & roles• CI and Test |
| Integration guide | “How-to” for the integrator: <ul style="list-style-type: none">• Port TF-M to a new platform• Integrate TF-M with a RTOS or other NSPE SW• Integrate/Customize SP for your use case• Integrate a new SP with TF-M | <ul style="list-style-type: none">• Port to a platform• RTOS integration• Build system• Secure partition integration guide |
| Technical reference | Share the technical details of TF-M | <ul style="list-style-type: none">• Design document• ... |
| Security | TF-M security related | <ul style="list-style-type: none">• Security incident handling – link to tf.org• Security advisories• Threat model |
| Release | TF-M release related | <ul style="list-style-type: none">• Release process• Release note |

More entry?

- Examples
 - Showcase the typical secure applications on the supported platforms
 - Examples of the integration with RTOSes, clouds, ...
 - e.g. Amazon FreeRTOS PKCS#11 integration, OTA

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Thank You

Danke

Gracias

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Asante

Merci

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