

Open Source Secure world software

Trusted Firmware

Update May 2019

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Trusted Firmware

Open governance Community Project
since October 2018

Reference implementation of Secure
world software for Armv7 & Armv8
architectures (both A/M-Profiles)

Membership of the Trusted Firmware
project is open to all

Everyone interested in Trusted
Firmware is encouraged to join

Members (May '19)

Arm

Cypress

Data I/O

Google

Linaro

Texas Instruments

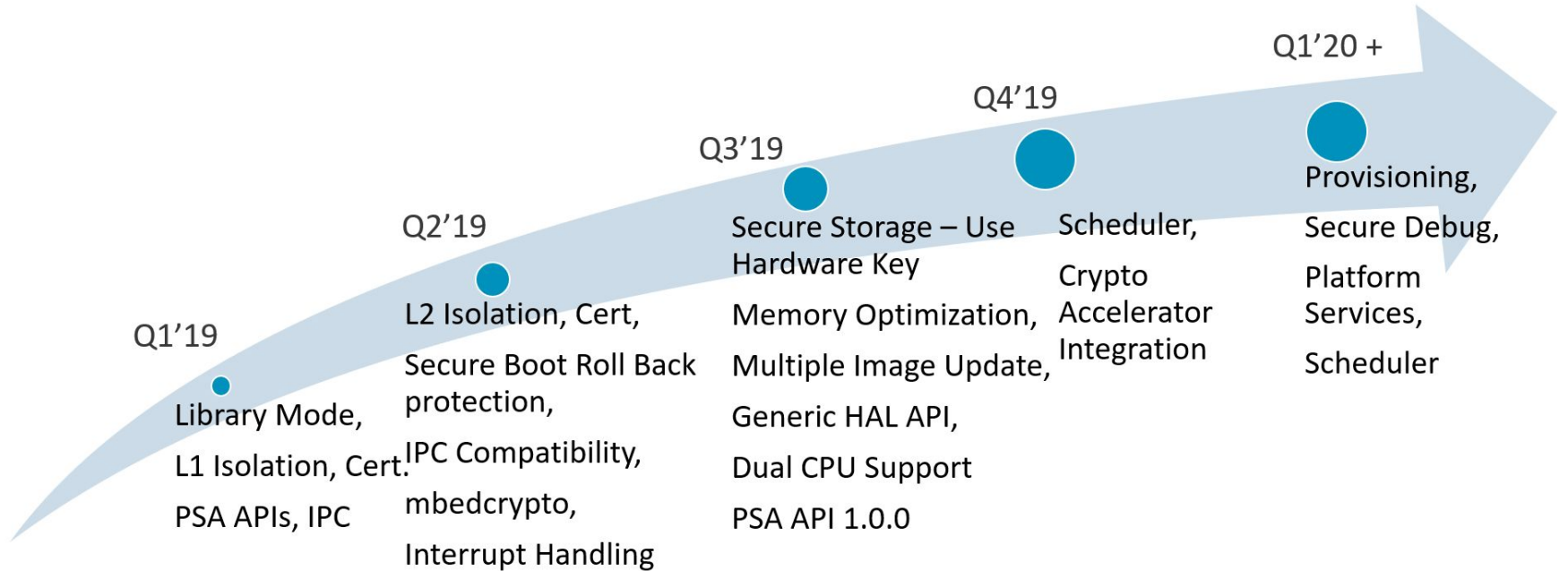
STMicroelectronics



Trusted Firmware-M - May 2019 Progress

- TF-M v1.0-RC1 tag created supporting features required for PSA Level2 certification
- New features in the tag
 - * PSA Firmware Framework IPC Support
 - * Secure Storage, Crypto and Attestation Services working in IPC mode
 - * PSA Level2 Isolation
 - * mbedcrypto used in the crypto service.
 - * Rollback protection in Secure boot.
- Dual CPU enablement in progress - <https://git.trustedfirmware.org/trusted-firmware-m.git/?h=feature-twincpu>
- Continuous Integration Testing of TF-M patches using MPS2 board - <https://ci.trustedfirmware.org/>

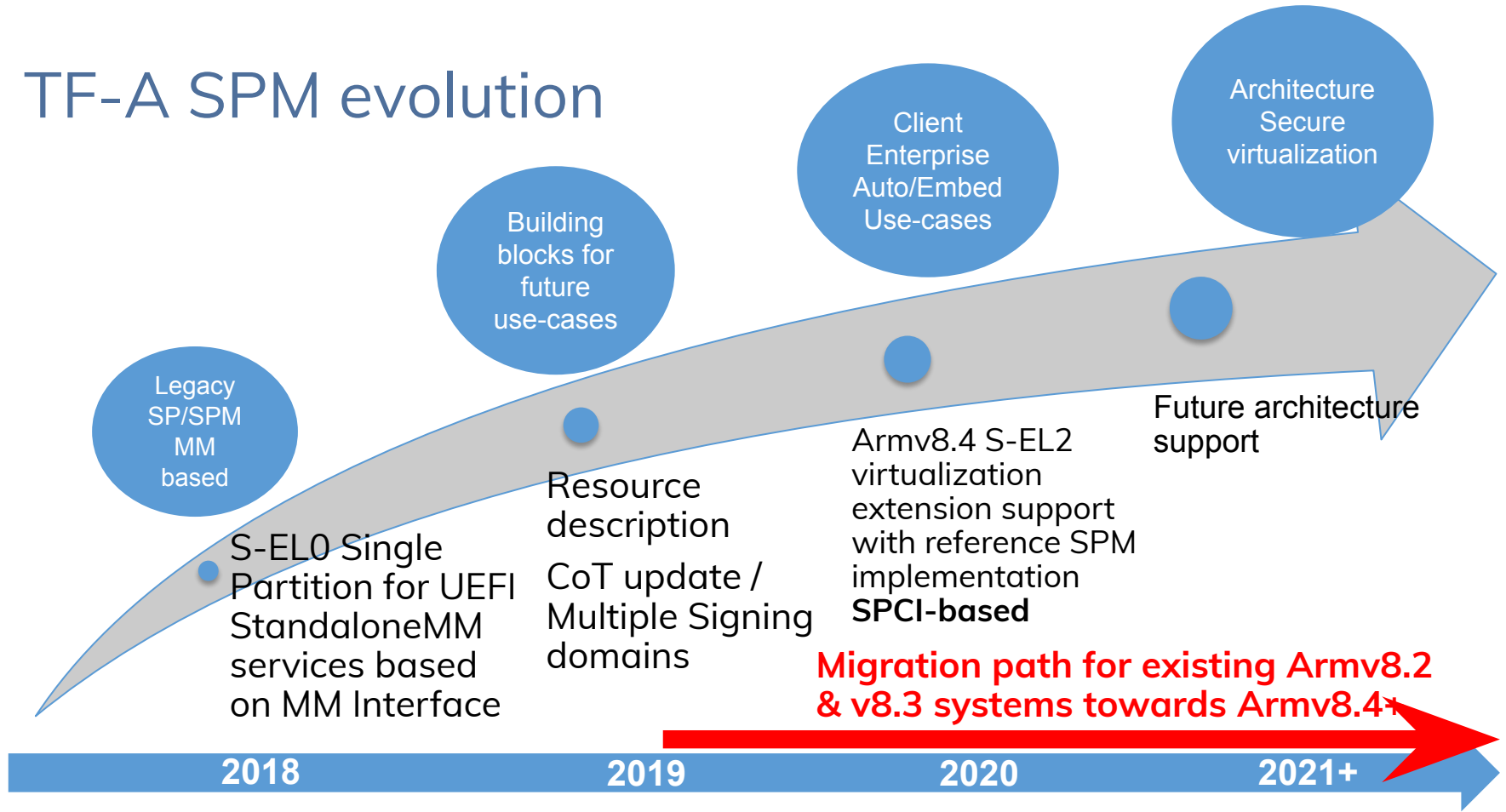
TF-M Roadmap



Trusted Firmware-A – May '19 Progresses

- Architecture enablement under development
 - Armv8.3 Pointer Authentication use in Secure world (EL3 and lower S-ELs)
 - Armv8.5 Branch Target Identifier (BTI)
 - Armv8.4 Secure EL2 SPM SPCI-based
- Fixed errata for Neoverse-N1 & Cortex-A76
- New platform support: MediaTek mt8183
- Platform Security Requirements under development
 - Attestation and Measured Boot reference flow
 - Multiple Signing Domains and separate Chain of Trust
- Investigations in other areas
 - PSA for IoT A-class devices

TF-A SPM evolution

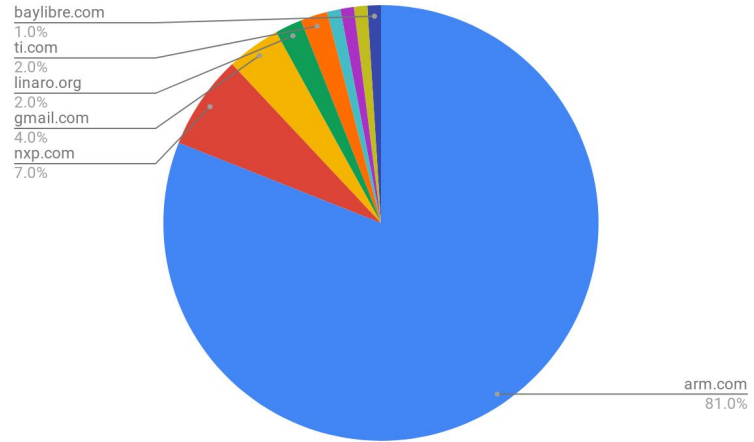


TrustedFirmware TF-A Project Dashboard

Top Authors this month

| | |
|-------------------|----|
| paul.beesley | 22 |
| soby.mathew | 16 |
| john.tsichritzis | 13 |
| sandrine.bailleux | 12 |
| antonio.ninodiaz | 6 |
| leonard.crestez | 5 |
| christophm30 | 4 |
| sami.mujaawar | 4 |
| alexei.fedorov | 4 |

Commits by domain this month



Commits vs Month

Commit history

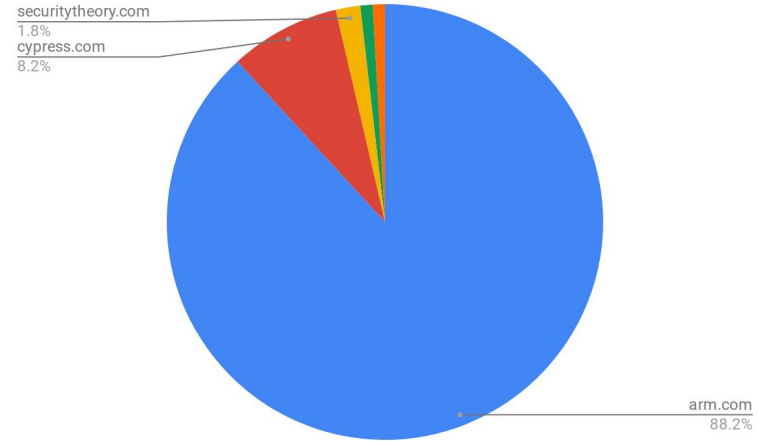


TrustedFirmware TF-M Project Dashboard

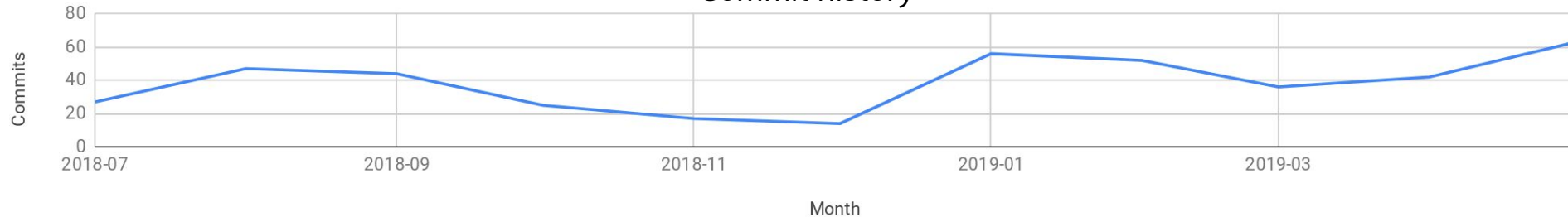
Top Authors this month

| | |
|---------------------------|----|
| edison.ai | 14 |
| tamas.ban | 14 |
| jamie.fox | 13 |
| david.vincze | 10 |
| antonio.deangelis | 10 |
| chris.brand | 9 |
| mingyang.sun | 7 |
| summer.qin | 7 |
| ashutosh.singh | 5 |

Commits by domain this month



Commits vs Month

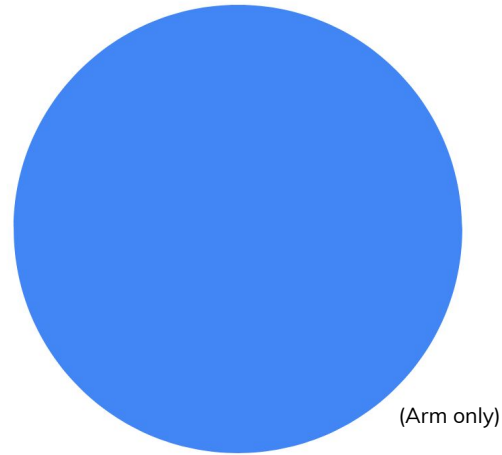


TrustedFirmware TF-A Tests Project Dashboard

Commits by domain this month

Top Authors this month

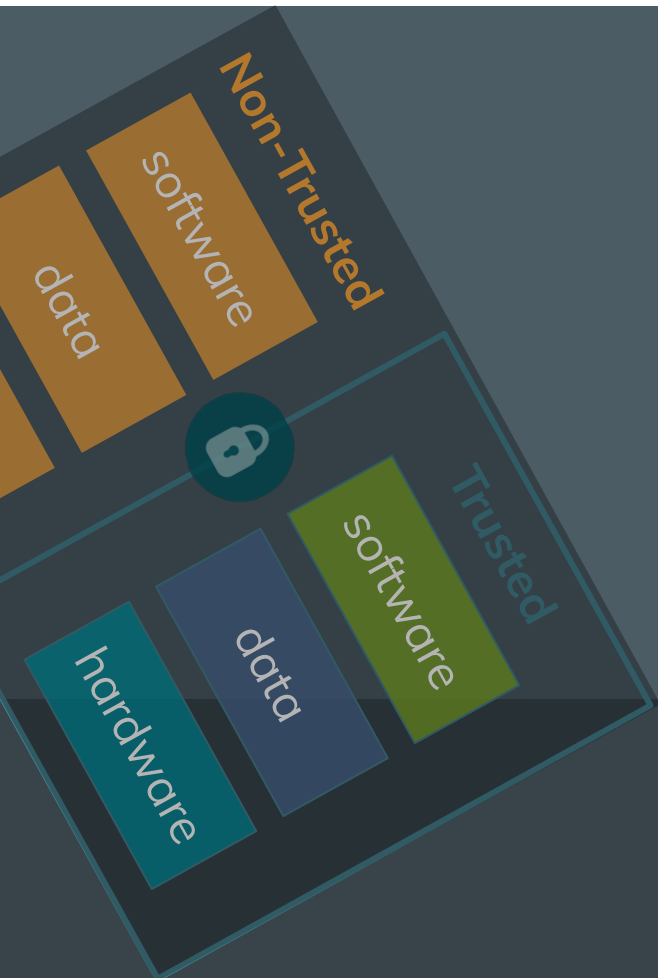
| | |
|-------------------|---|
| sandrine.bailleux | 6 |
| john.tsichritzis | 3 |



Commits vs Month

Commit history





arm

