

Open Source Secure world software

# Trusted Firmware

Update June 2019

SPONSORED BY:

**arm**

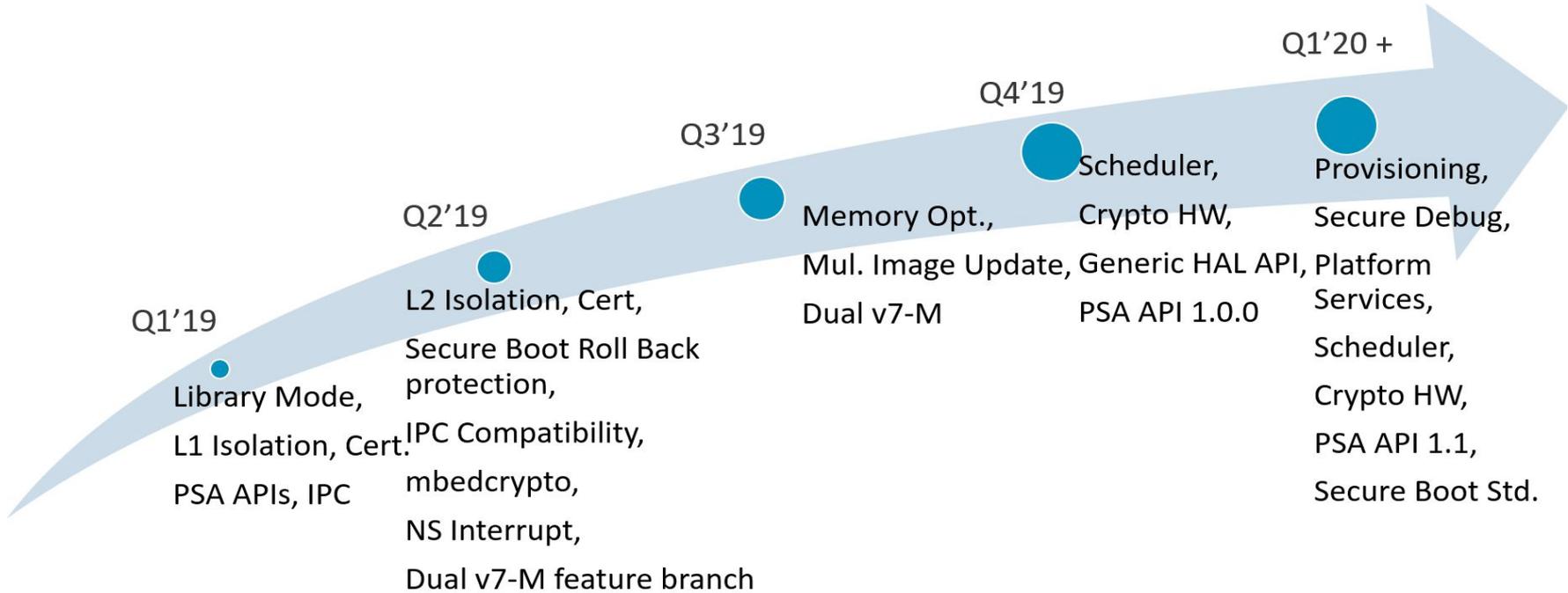
HOSTED BY:



# Trusted Firmware-M - June 2019 Progress

- Following TF-M v1.0-RC1 tag created end of May'19 for PSA Level2 certification, following have been merged
  - \* SPE Preemption by NSPE
  - \* Secure IRQ Support
  - \* Updates for mbedcrypto 1.1.0
- Added support for MPS3 AN524 FPGA platform
- Dual CPU support with Level1 Isolation made available in feature-twincpu branch
- Design posted in mailing list for Internal Trusted Storage and HW key usage in secure boot.

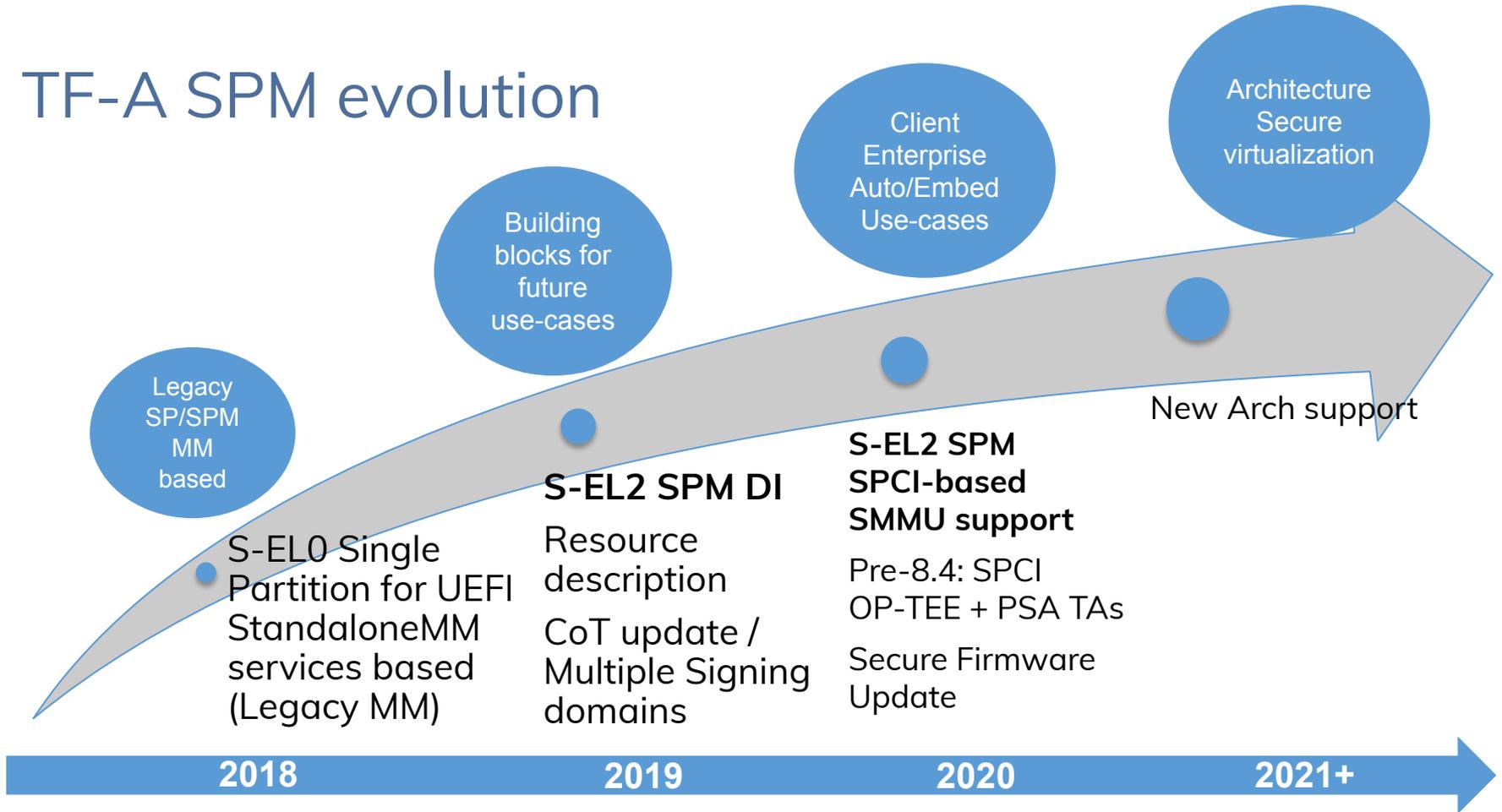
# TF-M Roadmap



# Trusted Firmware-A – June '19 Progresses

- Architecture enablement under development
  - Armv8.3 Pointer Authentication use in Secure world (EL3 and lower S-ELs)
  - Armv8.4 Secure EL2 SPM SPCI-based investigation
- Armv8.5 Branch Target Identifier (BTI) support completed (needs GCC>9)
- GICv3 Driver updates for multi socket GIC redistributor discovery
- 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
  - New I/O Layer support
  - New Build system

# TF-A SPM evolution



# Open Source Firmware Conference

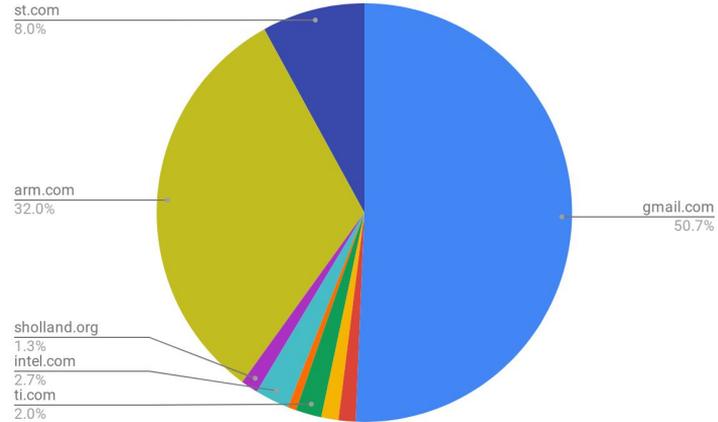
- **Trusted Firmware sponsoring the OSFC Conference**
  - 3-6 September 2019 - @Google/Facebook premises
  - <https://osfc.io/sponsors/trusted-firmware>
- **Trusted Firmware & standardised open source Firmware on Arm talk scheduled on Tuesday 3<sup>rd</sup> Sept, 5:15pm**
  - <https://osfc.io/talks/trustedfirmware-org-a-collaborative-effort-into-firmware-security-and-the-path-towards-standardized-open-source-firmware-on-arm>
- **Trusted Firmware sponsoring the ELC, Lyon (Oct 28-30, 2019)**

# TrustedFirmware TF-A Project Dashboard

## Top Authors this month

marek.vasut+renesas	74
john.tsichritzis	21
yann.gautier	12
ambroise.vincent	8
paul.beesley	7
soby.mathew	7
muhammad.hadi	4
afd	3
samuel	2

## Commits by domain this month



## Commits vs Month

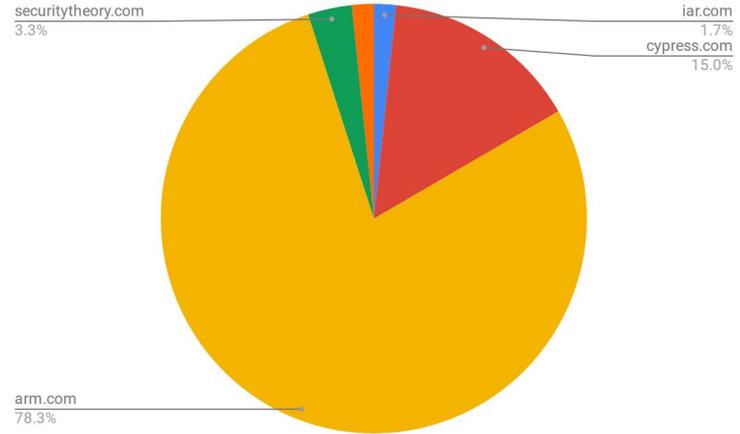


# TrustedFirmware TF-M Project Dashboard

## Top Authors this month

<a href="#">david.hu</a>	13
jamie.fox	7
mate.toth-pal	7
ainh	5
antonio.deangelis	4
chris.brand	4
<a href="#">edison.ai</a>	3
tamas.ban	2
lgl	2

## Commits by domain this month



## Commits vs Month

## Commit history

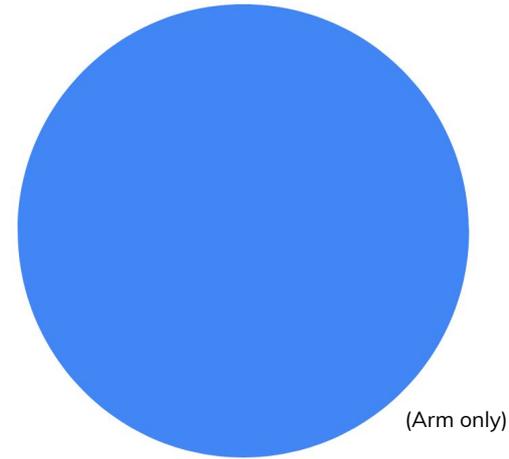


# TrustedFirmware TF-A Tests Project Dashboard

Commits by domain this month

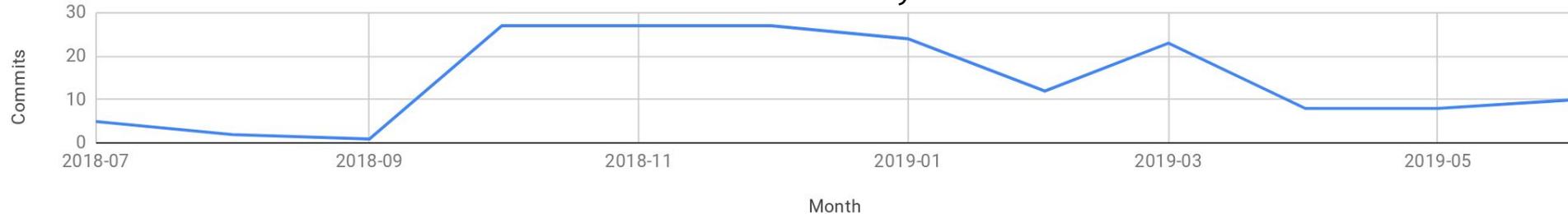
Top Authors this month

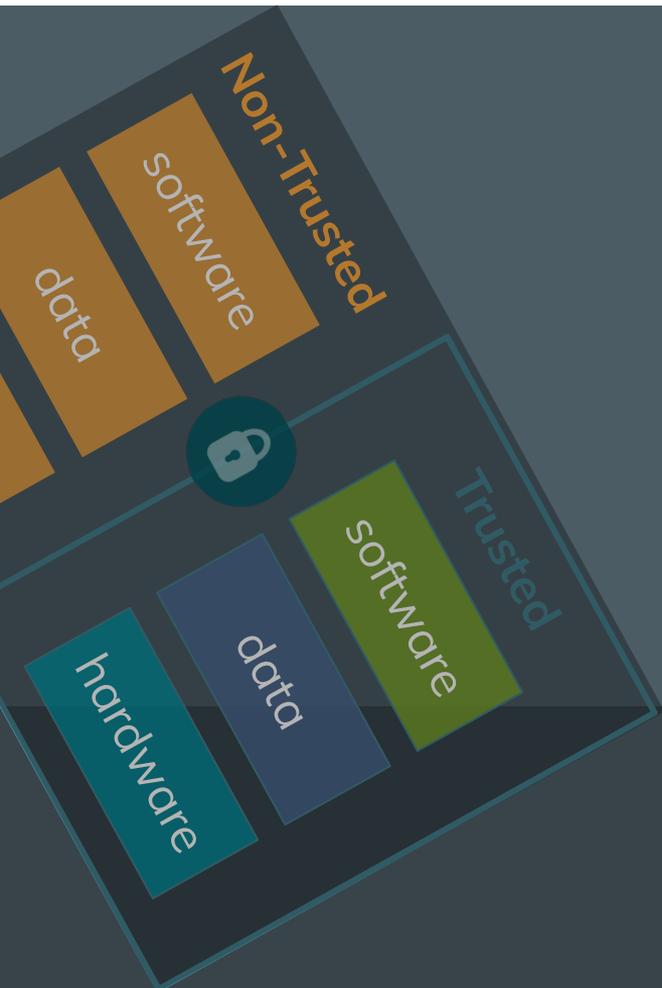
sandrine.bailleux	8
soby.mathew	1
john.tsichritzis	1
madhukar.pappireddy	1
ambroise.vincent	1



Commits vs Month

Commit history





arm

