



Open Source Secure world software

Trusted Firmware

Update June 2019

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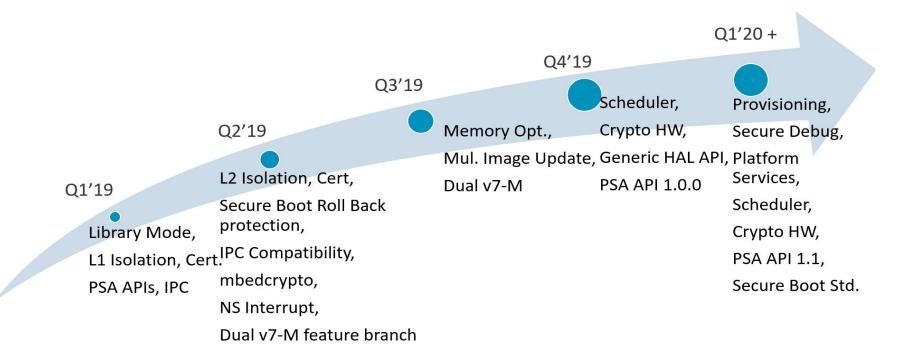
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Trusted Firmware-M - June 2019 Progress

- 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

Building blocks for future use-cases Client Enterprise Auto/Embed Use-cases Architecture Secure virtualization

Legacy SP/SPM MM based

> S-ELO Single Partition for UEFI StandaloneMM services based (Legacy MM)

S-EL2 SPM DI

Resource description

CoT update / Multiple Signing domains S-EL2 SPM SPCI-based SMMU support

Pre-8.4: SPCI OP-TEE + PSA TAs

Secure Firmware Update

New Arch support

2018

2019

2020

2021+

Open Source Firmware Conference

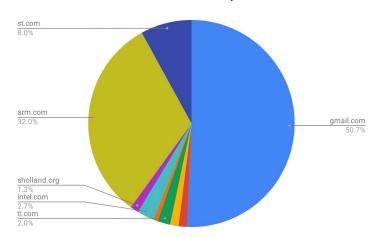
- Trusted Firmware sponsoring the <u>OSFC</u> Conference
 - 3-6 September 2019 @Google/Facebook premises
 - https://osfc.io/sponsors/trusted-firmware
- Trusted Firmware & standardised open source Firmware on Arm talk scheduled on Tuesday 3rd Sept, 5:15pm
 - https://osfc.io/talks/trustedfirmware-org-a-collaborative-effort-into-fir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

TrustedFirmware TF-A Project Dashboard

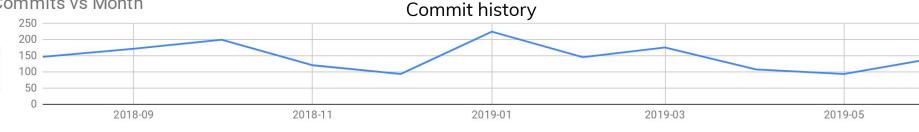
Commits by domain this month

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 vs Month



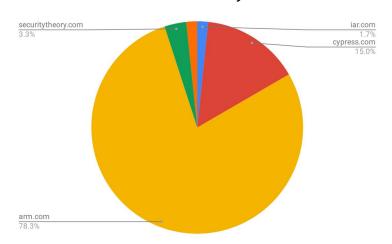
Month

TrustedFirmware TF-M Project Dashboard

Commits by domain this month

Top Authors this month

david.hu13jamie.fox7mate.toth-pal7ainh5antonio.deangelis4chris.brand4edison.ai3tamas.ban2lgl2	•	
mate.toth-pal 7 ainh 5 antonio.deangelis 4 chris.brand 4 edison.ai 3 tamas.ban 2	david.hu	13
ainh 5 antonio.deangelis 4 chris.brand 4 edison.ai 3 tamas.ban 2	jamie.fox	7
antonio.deangelis 4 chris.brand 4 edison.ai 3 tamas.ban 2	mate.toth-pal	7
chris.brand 4 edison.ai 3 tamas.ban 2	ainh	5
edison.ai 3 tamas.ban 2	antonio.deangelis	4
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	edison.ai	3
lgl 2	tamas.ban	2
	lgl	2



Commits vs Month



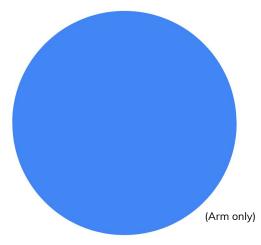


TrustedFirmware TF-A Tests Project Dashboard

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

2018-07



2018-09

Commit history

2018-11



Month

