

## PSA Certified & TF-M Long Term Stable (LTS)

- Today chips are PSA Certified using a particular version of TF-M (PSA Updatable RoT)
  - No efficient way to update PSA certificate with future TF-M versions Expensive & time consuming.
  - Certificate can be invalid once vulnerabilities found in TF-M
- TF-M LTS enables an efficient way to update PSA Certification of chips with latest TF-M security and bug fixes.
  - Chips are certified using a TF-M LTS release. Chips then update to future LTS updates after updates go through PSA Security evaluation
  - Certificate can be kept valid and latest TF-M shipped in chip vendor SDKs
  - End devices using the chips able to use latest TF-M that is PSA Certified.
- New LTS release created every 18 months and maintained for 3 years. During 3 years of an LTS,
  - 6-monthly bug fix update releases
  - Ad hoc security fix releases
- Platform independent TF-M fixes are evaluated once & applicable to PSA Certified chips on the LTS release.
  - Platform specific changes would require chip specific evaluation.
- PSA Certification process to support LTS evaluation under review with Trust CB.



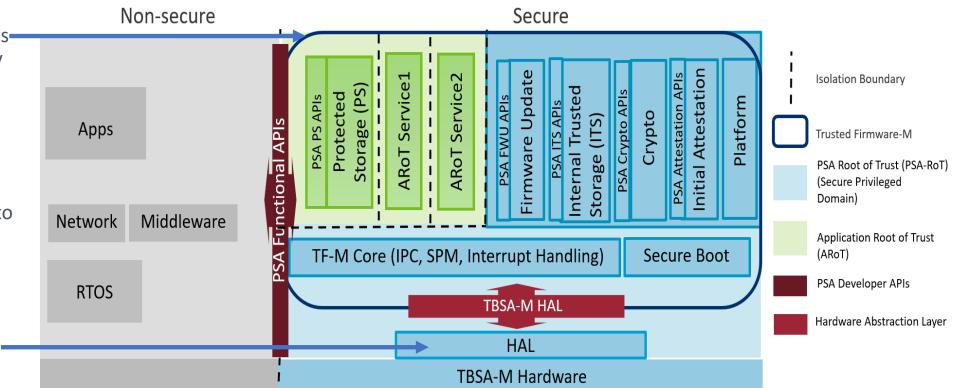
## Trusted Firmware-M LTS – Generic & Platform Specific Changes

How the security evaluation happens?

Platform independent TF-M fixes in LTS release evaluated once by Lab. and applicable to all PSA Certified chips based on the LTS release.

 Trustedfirmware.org & Arm will work with Lab and TrustCB to evaluate changes between LTS releases

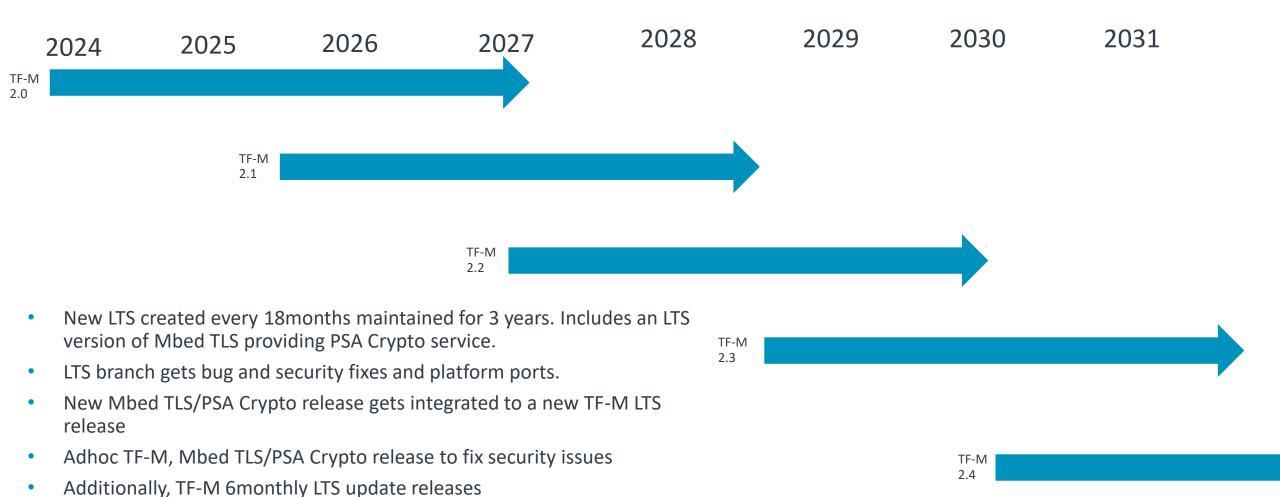
 Chip vendors will have to undertake delta evaluation if changes in platform code



In most cases the chip LTS Trusted Firmware /SDK can be updated without affecting the certificate

## 3Year TF-M LTS created every 18months

Changes in every TF-M release go through PSA Cert. evaluation by Lab







Thank You

Danke

Gracias

Grazie

谢谢

ありがとう

**Asante** 

Merci

감사합니다

धन्यवाद

Kiitos

شکرًا

ধন্যবাদ

תודה

© 2023 Arm

## 3 Yr Long Term Stable Releases – TF-M & Mbed TLS/PSA Crypto

