

Recent community activity (thank you!)

- Neil Armstrong / Nordic
 - PRs for Use PSA Crypto More epic mostly merged
 - PRs for PSA Long Term Secrets in review
- Archana Madhavan / SiLabs
 - PR for code-gen 1.1 (introduction of JSON driver tooling)
 - Update had a round of review, awaiting updates

- Peter Spacek / SiLabs
 - Use PSA for hashing in TLS 1.3 assigned
- François Beerten / Silex
 - PSA driver support for entropy gathering progressing after review
- Various (Glen Strauss / lighttpd, IoTerop, ...)
 - Accessors for various fields made private in Mbed TLS 3.0 – issues, discussions & PRs
 - Majority of issues now addressed



Major activities within core team

- OpenCl
 - Ubuntu CI now publicly visible more coming
- GitHub migration from ArmMbed to <u>Mbed-TLS</u> organization complete
 - Better reflect independence from Mbed OS projects / TF.org ownership
 - Easier management of GitHub (e.g., team members, CI bots, etc)
- TLS 1.3
 - Client side progress: version negotiation, Certificate
 Verify message completed
 - Migrating to using PSA
 - Server side functionality and PSK started
 - Community help welcomed on these!
- 3.2 planned for Q2
 - Working on adding accessor functions for some things dropped from the public API in 3.0
 - Aim to cover most/all issues reported by community

Storage format stabilization

 Testing & documentation to assure stable format for nonvolatile storage

PSA Crypto

- On-going collaboration including Arm, SiLabs, Nordic
- Support accelerators for all crypto in TLS 1.2, 1.3, X.509
- Isolation of long-term secrets (e.g. PSK, private keys)

Performance

- SHA optimisations for aarch64 crypto extensions –
 SHA-256, SHA-512 around 7x perf and 4.5x uplift done
- Bignum and ECP optimization started

Review workload

- Struggling for review bandwidth any assistance from the community is hugely valuable
- Easing the general review load accelerates progress on work prioritized by the community

