

## Recent community activity (thank you!)

- + Driver-only Valerio Setti @Nordic
  - ECC dependency fix
  - ECDSA: enable ECDSA-based TLS 1.2 key exchanges
  - Some MAX\_SIZE macros are too small when PSA ECC is accelerated
- +EdDSA Pol Henarejos
  - Add support to Ed448 in EdDSA
  - Add support for SHA-3 KMAC
- +Support 8-byte nonce in Chacha20 Silicon Labs
- +asn1parse docs / tidy-up Demi Marie @Invisible Things Lab
- +PKCS 7 fixes Demi Marie
- +PKCS 7 support for internal certificates; signed attributes

  Joakim Sindholt

- + Misc
  - Compile fix in psa\_key\_derivation\_abort Nordic
  - Test improvement for Edwards curves Oberon
  - Test improvement for psa\_asymmetric\_encrypt Oberon
  - Fix unreachable code compiler warning sergio-nsk
  - Docs improvement for Short Weierstrass curves Chien Wong @IVQ
  - Improve formatting of debug messages valord577
  - Discussion on threading support in Windows using SRW locks Sergey Seroshtan



## Major activities within core team

- + Working towards Mbed TLS 3.4 in March
- → Code style
  - More standard code-style deployed, enforced by CI
  - Use <u>mbedtls-rewrite-branch-style</u> from <u>mbedtls-docs</u> to update in-flight PRs
- Misc. OPC-UA PRs various X.509 parsing & cert/CSR generation updates
- → PSA Crypto prototyping move to separate repository
- → PKCS #7 review
  - Several improvements merged
  - PRs for new features shared from community
- Interruptible sign/verify hash
  - · Implementation merged, test improvements following

- → EC J-PAKE driver dispatch
- → Driver-only hashes in progress
- + Historical review items older than one year
  - Currently working through some old issues
- + CI
  - Reduced testing load internal CI healthy
  - OpenCI functional, but experimenting to get best perf
  - Please let us know your feedback
- 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



## **PSA** Header collisions

- + Problem: client-server projects like TF-M have issues with include header collisions
  - Issues with crypto\_platform.h and crypto\_struct.h
  - https://github.com/orgs/Mbed-TLS/projects/1#column-19369178
- - Solution looks quite simple see above link
  - Please comment on the GitHub issues if you have an interest in this topic
- + Looks like it may be a simple fix
  - If this turns out to be the case, we will target Mbed TLS 3.4

