

Recent community activity (thank you!)

- + Valerio Setti @Nordic
 - Active
 - + driver-only ECC: Make PSA curves always a superset of ECP curves
 - + Test with TF-M config and p256-m driver (part 1)
 - + TLS: Clean up ECDSA dependencies
 - Merged
 - + Improve outcome-analysis.sh script
 - + driver-only ECC: BN.TLS testing
 - + PSA maximum size macro definitions should take support into account
 - + Driver-only ECC: TLS: rm uses of mbedtls debug print mpi
 - driver-only ECC: BN.x509 testing
 - + Define PSA WANT xxx KEY PAIR yyy step 2/DH
 - + TLS: Clean up (EC)DH dependencies
 - + Backport: crypto_config_test_driver_extension: handle PUBLIC_KEY the same way as KEY_PAIRs
- + Tomi Fontanilles @Nordic
 - Implement non-PSA pk_sign_ext()
- + Kusumit Ghoderao, Saketh Sunkishala @ Silicon Labs
 - PBKDF2 CMAC implementation
 - Fix IAR enum conversion warnings when using mbedtls_md_type_t and mbedtls cipher type t

- Misc

- · Fix a few unchecked return values Chien Wong
- Fixed x509 certificate generation to conform to RFCs when using ECC key marekjansta
- Backport 2.28: Fixed x509 certificate generation to conform to RFCs when using ECC key - marekjansta
- rsa_signature: Use heap memory to allocate DER encoded RSA private key -Sarvesh Bodakhe
- asn1parse: Require minimal-length encodings of lengths Demi Marie Obenaur
- + Pol Henarejos SHA3 / EdDSA
 - XChaCha20 and XChaCha20-Poly1305 support
 - Add support to Ed448 in EdDSA
 - Add support for SHA-3 KMAC
 - SHA-3 cSHAKE128 and cSHAKE256 support
 - SHA-3 SHAKE128 and SHAKE256 support
 - Add support for EdDSA with ed25519 curve (pure ed25519, ed25519ctx and ed25519ph)



Major activities within core team

https://github.com/orgs/Mbed-TLS/projects/1

- + Planning Mbed TLS 3.5 September October 2023
 - Size optimization (including driver-only ECP, bignum)
 - p-256m reduce code size for SECP256R1 ECDH and ECDSA
- + Planning Mbed TLS 3.6 LTS end of 2023 (maybe early 2024)
 - TLS 1.3 early data, record size limit
 - PSA multi-threading support
 - Accessor functions for fields made private in 3.0
 - Driver-only cipher and AEAD
- → Planning Mbed TLS 4.0 mid 2024?
 - PSA_CRYPTO_C / CLIENT always on
 - Consume PSA-Crypto repository as source of PSA and crypto code
 - Remove some legacy interfaces & features

- + PSA Crypto prototyping move to separate repository
- → Size optimization
 - This is the primary focus for Mbed TLS 3.5
 - Expect driver-only to deliver good improvement here
- + CI
 - Testing on Arm coming soon
- 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
 - Increased use of draft PRs

