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_KEYPAIR_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 SHAKE128 and SHAKE256 support
- SHA-3 SHAKE128 and SHAKE256 support
- Add support for EdDSA with ed25519 curve (pure ed25519, ed25519ctx and ed25519ph)
## Major activities within core team

### 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