

Recent community activity (thank you!)

+Valerio Setti @Nordic

- 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
- · driver-only ECC: BN.PK testing
- TLS: Clean up ECDSA dependencies
- Define PSA_WANT_xxx_KEY_PAIR_yyy step 2/DH
- Define PSA_WANT_xxx_KEY_PAIR_yyy step 2/RSA
- TLS: Clean up (EC)DH dependencies
- driver-only ECC: EPCf.TLS testing

+Tomi Fontanilles @Nordic

Implement non-PSA pk_sign_ext()

+Kusumit Ghoderao, Saketh Sunkishala @ Silicon Labs

PBKDF2 CMAC implementation

+ Misc

- rsa_signature: Use heap memory to allocate DER encoded RSA private key - Sarvesh Bodakhe @espressif
- Fix doc on buffer requirements of GCM API Chien Wong
- Fixed x509 certificate generation to conform to RFCs when using ECC key – marekjansta
- Comply with the received Record Size Limit extension Kloolk
- asn1parse: Require minimal-length encodings of lengths Demi-Marie Obenour



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 a focus for Mbed TLS 3.5
- + 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

