

Recent community activity (thank you!)

+ Valerio Setti @Nordic

- Clarify driver handling of ALG STREAM and ALG ECB
- Fix error reporting in driver testing parity
- Improve location of MD CAN macros
- · Fix dependencies of mbedtls pk ec ro and mbedtls pk ec rw
- Add test component with all ciphers and AEADs accelerated only
- Change accel_aead component to full config
- Create Cipher light
- · Make CTR-DRBG use cipher.c when available
- Make PEM use cipher.c when available
- PSA crypto should not depend on the cipher module

+ Misc

- Add CodeQL Workflow for Code Security Analysis b4yuan
- Use CMAKE_C_SIMULATE_ID when available to determine compiler daantimmer
- Fixes "CSR parsing with critical fields fails" mschulz-at-hilscher
- Fix compiling AESNI in Mbed-TLS with clang on Windows sergio-nsk
- Backport 2.28: Fix compiling AESNI in Mbed-TLS with clang on Windows sergio-nsk
- Remove trailing whitespace on grep command in prepare_release.sh mcagriaksoy
- Add ignoring return value casting and Fix non-uniform cast mcagriaksoy
- Rename local variable in aes.c kasjer
- [Backport 2.28] Rename local variable in aes.c kasjer
- Add missing casting size t to int on ssl tls13 keys.c mcagriaksoy
- Fix C++ build issue when MBEDTLS ASN1 PARSE C is not enabled kloolk
- Restore Windows XP platform support irwir
- Fix doc on GCM API ivq
- ssl: fix critical extension handling regression askourtis
- Support compilation using CLang on Windows SlugFiller
- Add AES encrypted keys support for PKCS5 PBES2 zvolin
- Comply with the received Record Size Limit extension kloolk
- Guard ticket specific TLS 1.3 function with macro inorick



Major activities within core team

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

- + TF-PSA-Crypto
 - https://github.com/Mbed-TLS/TF-PSA-Crypto
 - Currently, read-only preview
 - Will become upstream source for crypto in Mbed TLS
- + TLS 1.3 early data
- → Driver-only cipher & AEAD
 - AES, GCM, CCM, ChachaPoly
- + Thread-safe PSA

- → Planning Mbed TLS 4.0 Q3 2024?
 - PSA_CRYPTO_C / CLIENT always on
 - Consume TF-PSA-Crypto repository as source of PSA and crypto code
 - Remove some legacy interfaces & features
- → TF-PSA-Crypto productization
- + CI
 - Testing on Arm coming soon
- + Planning Mbed TLS 3.6 LTS 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



Release Plans

- + 3.5 October 5
 - Size optimization (including driver-only ECP, bignum)
 - p-256m reduce code size for SECP256R1
 ECDH and ECDSA
 - SHA-3
 - AES performance
 - PBKDF2 CMAC and HMAC
 - TLS 1.3 FFDH
 - TLS 1.3 server-side version negotiation

- + 3.6 LTS early 2024
 - TLS 1.3
 - + Finish support for early data
 - + Record size limit extension
 - + Key export
 - Driver-only cipher
 - PSA thread safety
 - Review private fields, add missing accessors
 - Final 3.x release

+ Timeline

- 3.5 end of September / early October
- 3.6 LTS early 2024
- 4.0 second half of 2024

