

Recent community activity (thank you!)

+ Valerio Setti @Nordic

- merged: #8649 check_config.h not complete about builds without CIPHER_C
- merged: #8641 G3-G4 wrap-up
- merged: #8632 [G5] Make block cipher work with PSA
- merged: #7921 TLS: Clean up ECDSA dependencies
- #8681 Conversion function between raw and DER ECDSA signatures
- #8696 Conversion function between raw and DER ECDSA signatures (alternative implementation)
- #8664 Conversion function from ecp group to PSA curve
- #8666 Export the mbedtls_md_psa_alg_from_typefunction
- #8700 psa asymmetric encrypt() doesn't work with opaque driver

SiLabs

#8198 silabs-Kusumit - KDF incorrect initial capacity

+ Hilscher

- merged: #8695 jwinzig-at-hilscher Backport 2.28: Fix bug in mbedtls x509 set extension
- merged: #8688 jwinzig-at-hilscher Fix bug in mbedtls_x509_set_extension
- merged: #8511 mschulz-at-hilscher Add benchmark for RSA 3072
- merged: #8512 mschulz-at-hilscher Alternative Timing compatible benchmark.c
- merged: #8517 mschulz-at-hilscher Fixes redundant declarations for psa_set_key_domain_parameters
- #8510 mschulz-at-hilscher Add LMS benchmark

- Misc

- merged: #7455 KloolK Comply with the received Record Size Limit extension
- #7846 askourtis ssl: fix critical extension handling regression
- #8697 BensonLiou Do not generate new random number while receiving HRR
- #8413 dannytsen Adding PowerPC (ppc64le) support using vector instructions for AES/GCM functions.
- #6955 inorick Guard ticket specific TLS 1.3 function with macro
- #8665 ivq Reduce many unnecessary static memory consumption
- #8662 LocutusOfBorg timing.c fix build failure with -O3 optimization level
- #7604 zvolin Add AES encrypted keys support for PKCS5 PBES2

+ polhenarejos – EdDSA implementation

- #5819 polhenarejos Add support for EdDSA with ed25519 curve (pure ed25519, ed25519ctx and ed25519ph)
- #5823 polhenarejos Add support for SHA-3 KMAC
- #5824 polhenarejos Add support to Ed448 in EdDSA
- #5822 polhenarejos SHA-3 cSHAKE128 and cSHAKE256 support
- #5821 polhenarejos SHA-3 SHAKE128 and SHAKE256 support



Major activities within core team

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

- + TF-PSA-Crypto
 - https://github.com/Mbed-TLS/TF-PSA-Crypto
 - Will become upstream source for crypto in Mbed TLS
 - Paused to focus on 3.6, resume in Q2
- + TLS 1.3 early data, record size limit
 - In progress, continuing through Q1
- + Driver-only cipher & AEAD
 - Largely complete, docs improvements in progress
- - Design agreed, testing & implementation in progress
- + Accessors for MBEDTLS_PRIVATE fields
 - Continue into Q1

- + Planning Mbed TLS 4.0 end 2024?
 - PSA_CRYPTO_C / CLIENT always on
 - Consume TF-PSA-Crypto repository as source of PSA and crypto code
 - Remove some legacy interfaces & features
- + CI
 - Testing on Arm coming soon
- → Planning Mbed TLS 3.6 LTS Q1-Q2 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
 - Main focus for team in Q1

