

Recent community activity (thank you!)

- + #9849 solardiz [Backport 2.28] Specify previously missed register clobbers in AES-NI asm blocks
- + #9848 solardiz [Backport 3.6] Specify previously missed register clobbers in AES-NI asm blocks
- + #9809 solardiz Specify previously missed register clobbers in AES-NI asm blocks
- + #9421 mfil Implement TLS-Exporter
- + #9839 ucko psa_wipe_tag_output_buffer: Bail if the buffer is NULL.
- + #9797 NadavTasher Added minimal TLSv1.3-only client configuration
- + #9798 NadavTasher Added debug print in tls13 ssl_tls13_write_key_share_ext
- + #9460 krish2718 Add CNSA presets
- + #9777 hughsie Add a SBOM file in CycloneDX format
- + merged: #9810 Superllu Fix compilation on MS-DOS DJGPP
- → merged: #9812 SuperIlu Mbedtls 3.6: Fix compilation on MS-DOS DJGPP
- + merged: #9811 Superllu Mbedtls 2.28: Fix compilation on MS-DOS DJGPP
- + #8800 winterheart Allow install headers to different location (mbedtls-3)
- #9825 valeriosetti Move "easy" basic checks scripts to the framework
- + #9826 valeriosetti [3.6] Move "easy" basic checks scripts to the framework



Major activities within core team

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

- - Splitting files, reworking some interfaces (configuration, platform, ...)
 - https://github.com/Mbed-TLS/TF-PSA-Crypto
 - Will become upstream source for crypto in Mbed TLS
- → Mbed TLS 4.0
 - PSA_CRYPTO_C / CLIENT always on
 - Consume TF-PSA-Crypto repository as source of PSA and crypto code
 - Remove some legacy interfaces & features
- → Mbed TLS 3.6.2
 - Security fix release (CVE-2024-49195)
- Open for SPAKE2+ reviews (tasks defined on <u>backlog board</u>)



Release Timeline

- + 4.0 currently aiming for first half of 2025
- - o 3.6.1 (Aug 2024): mostly fixes related to TLS 1.3
 - 3.6.2 (Oct 2024): security fix
 - o 3.6.3 (TBA): will support a PSA key store in builds without malloc
- + 2.28 LTS ends supported life end of 2024



TF-PSA-Crypto 1.0 + Mbed TLS 4.0 highlights

- + TLS 1.2: removing finite-field DH, static ECDH, PKCS#1v1.5 RSA encryption, CBC
- + Crypto: removing PKCS#1v1.5 RSA encryption, DES, EC curves smaller than 250 bits
- Removing all crypto ALT (use PSA drivers instead)
- Removing low-level crypto APIs (use PSA APIs instead)
 - Removing cipher.h; Keeping parts of md.h and pk.h partially as transition layers
 - Removing direct access to bignum/ECC arithmetic
 - Removing direct access to DRBG





Thank You Danke Gracias Grazie 谢射 ありがとう Asante Merci

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