

Recent community activity (thank you!)

- + tls#9894 BrianSipos Add parsing of Name Constraints extension, allow handling raw Other Name
- + tls#9421 mfil Implement TLS-Exporter
- + tls#9872 rojer Defragment incoming TLS handshake messages
- + tls#9701 daverodgman Neon impl of ChaCha20 (better size & perf)
- + tls#9797 NadavTasher Added minimal TLSv1.3-only client configuration
- + frame#122 benmcollins data_files: Added two rsassa_pss keys (one pub, one priv) for test use
- + frame#120 BrianSipos Add test CA config with Name Constraints extension
- + crypto#152 LoveKarlsson Fix IAR alignment issues if __packed has been redefined into a macro.
- crypto#159 daverodgman Neon impl of ChaCha20 (better size & perf)
- crypto#154 benmcollins pk: Enable RSASSA-PSS key parsing



Recent community activity (thank you!)

Va trs#9916 valenosetti - Remove DHE-PSK key exchange

- + tls#9916 valeriosetti Migrate DHE test cases to ECDHE
- + tls#9562 valeriosetti md: allow dispatch to PSA whenever CRYPTO_CLIENT is enabled
- + tls#9917 valeriosetti Remove the DHE-RSA key exchange
- -- merged: tls#9913 valeriosetti Remove deprecated function mbedtls_x509write_crt_set_serial()
- + merged: tls#9888 valeriosetti Move pkgconfig.sh to the framework
- + merged: tls#9889 valeriosetti [Backport 3.6] Move pkgconfig.sh to the framework
- + merged: tls#9864 valeriosetti [Backport 3.6] Move most of min_requirements.py to the framework
- + merged: tls#9863 valeriosetti Move most of min_requirements.py to the framework
- + frame#128 valeriosetti [Framework] md: allow dispatch to PSA whenever CRYPTO_CLIENT is enabled
- → frame#127 valeriosetti [Framework] Remove the DHE-RSA key exchange
- + merged: frame#116 valeriosetti Move pkgconfig.sh to the framework
- + merged: frame#105 valeriosetti Move most of min requirements.py to the framework
- + crypto#158 valeriosetti [TF-PSA-Crypto] Remove DHE-PSK key exchange
- + merged: crypto#148 valeriosetti [TF-PSA-Crypto] Move most of min_requirements.py to the framework



Major activities within core team

https://github.com/orgs/Mbed-TLS/projects/18

- + TF-PSA-Crypto
 - https://github.com/Mbed-TLS/TF-PSA-Crypto
 - It is now the upstream source for crypto in Mbed TLS
 - The CI currently still pulls in Mbed TLS
 - Work is being done to remove this dependency
- → Mbed TLS 4.0/TF-PSA-Crypto 1.0
 - PSA_CRYPTO_C / CLIENT always on
 - Consume TF-PSA-Crypto repository as source of PSA and crypto code
 - Remove some legacy interfaces & features
 - Focus is on re-planning and investigation
- + Mbed TLS 3.6.3/2.28.10
 - Last release for the 2.28 LTS branch
 - MBEDTLS_PSA_STATIC_KEY_SLOTS feature in 3.6.3



Release Timeline

- + 1.0/4.0 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 (25Q1): will support a PSA key store in builds without malloc
- + 2.28 LTS ends supported life after one last release in 25Q1



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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> Kiitos شکرًا

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