

The background features a dark blue, futuristic aesthetic with a central image of a smartphone. The phone's screen displays a grid of binary code (0s and 1s). A glowing cyan line, resembling a laser or data stream, originates from the top left and points towards the phone. To the right of the phone, a glowing cyan fingerprint is visible. The overall scene is overlaid with a network of white and cyan lines and dots, suggesting a digital or data environment.

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Mbed TLS Tech Forum

<https://github.com/Mbed-TLS>

Janos Follath
2025-03-10

Recent community activity (thank you!)

- + merged: [tls#9872](#) rojer - Defragment incoming TLS handshake messages
- + [tls#10036](#) tygyh - Update pylint to 2.7.0
- + [tls#9998](#) tygyh - Add JetBrains artifacts to .gitignore
- + [tls#10031](#) devinaberry - Create docker-image.yml
- + merged: [tls#10006](#) stgloorious - Rename BEFORE_COLON/BC to avoid conflicts
- + [crypto#190](#) VgeOrge - core: Update common.h to use GCC _Static_assert
- + [crypto#193](#) hasheddan - Fix link to PSA Crypto API
- + [crypto#189](#) amtkarm1 - Replace `psa_pake_get_implicit_key()` with `psa_pake_get_shared_key()`

Recent community activity (thank you!)

Valerio @Nordic

- + tls#10010 valeriosetti - [development] Add components to components-build-system.sh
- + tls#10041 valeriosetti - [development] Make mbedtls_psa_register_se_key usable with opaque drivers
- + merged: tls#9972 valeriosetti - [development] Remove DHM module
- + tls#10032 valeriosetti - psasim: update README file
- + merged: tls#10027 valeriosetti - [development] md: allow dispatch to PSA whenever CRYPTO_CLIENT is enabled
- + merged: tls#9562 valeriosetti - Backport 3.6: md: allow dispatch to PSA whenever CRYPTO_CLIENT is enabled
- + tls#10008 valeriosetti - [development] Add test_tf_psa_crypto_cmake_shared to components-build-system.sh
- + frame#145 valeriosetti - [framework] Make mbedtls_psa_register_se_key usable with opaque drivers
- + merged: frame#140 valeriosetti - [Framework] md: allow dispatch to PSA whenever CRYPTO_CLIENT is enabled
- + frame#141 valeriosetti - [framework] Add test_tf_psa_crypto_cmake_shared to components-build-system.sh
- + crypto#183 valeriosetti - [tf-psa-crypto] Add components to components-build-system.sh
- + crypto#191 valeriosetti - [tf-psa-crypto] Make mbedtls_psa_register_se_key usable with opaque drivers
- + merged: crypto#175 valeriosetti - [tf-psa-crypto] Remove DHM module
- + merged: crypto#188 valeriosetti - [tf-psa-crypto] md: allow dispatch to PSA whenever CRYPTO_CLIENT is enabled
- + crypto#181 valeriosetti - [tf-psa-crypto] Add test_tf_psa_crypto_cmake_shared to components-build-system.sh

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 September 2025
- + 3.6 LTS supported until early 2027
 - o 3.6.1 (Aug 2024): mostly fixes related to TLS 1.3
 - o 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

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Thank You

Danke

Gracias

Grazie

谢谢

ありがとう

Asante

Merci

감사합니다

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Kiitos

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