

The background features a dark blue, futuristic aesthetic with a glowing blue line that starts from the top left and curves across the frame. In the center, a smartphone is shown with a glowing blue fingerprint scanner on its back. The phone's screen displays a grid of numbers and some text. To the right of the phone, there is a glowing blue fingerprint icon. The overall scene is filled with abstract digital patterns, including binary code and circuit-like structures.

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Mbed TLS Tech Forum

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

Janos Follath
2025-01-13

Recent community activity (thank you!)

- + #9872 rojer - Defragment incoming TLS handshake messages
- + #9876 winterheart - Mbedtls 3.6 subslotting
- + #9797 NadavTasher - Added minimal TLSv1.3-only client configuration
- + merged: #9798 NadavTasher - Added debug print in `tls13 ssl_tls13_write_key_share_ext`
- + #8458 yuhaoth - Improve readability of random bytes generator on `tls12` server hello
- + #6280 yuhaoth - TLS 1.3: PSK: Add psk ephemeral test generate scripts
- + merged: #9777 hughsie - Add a SBOM file in CycloneDX format
- + #8795 winterheart - Allow install headers to different location
- + #8800 winterheart - Allow install headers to different location (`mbedtls-3`)

Recent community activity (thank you!)

Valerio @Nordic

- + #9863 valeriosetti - Move most of min_requirements.py to the framework
- + #9864 valeriosetti - [Backport 3.6] Move most of min_requirements.py to the framework
- + #9888 valeriosetti - Move pkgconfig.sh to the framework
- + #9889 valeriosetti - [Backport 3.6] Move pkgconfig.sh to the framework
- + merged: #9853 valeriosetti - Move tests/scripts/check_names.py to the framework
- + merged: #9854 valeriosetti - [Backport 3.6] Move tests/scripts/check_names.py to the framework
- + merged: #9826 valeriosetti - [3.6] Move "easy" basic checks scripts to the framework
- + merged: #9825 valeriosetti - Move "easy" basic checks scripts 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

- 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

- + 4.0 currently aiming for first half of 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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