

The background features a dark blue, futuristic digital aesthetic. A central focus is a smartphone with a glowing blue fingerprint scanner. The phone's screen displays a grid of binary code (0s and 1s) and various numerical data points. A prominent blue diagonal line cuts across the scene from the top left towards the bottom right. The overall composition is layered with abstract digital elements like circuit traces and data points.

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Mbed TLS Tech Forum

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

Gilles Peskine
2024-08-26

Recent community activity (thank you!)

Miscellaneous

- + #8800 winterheart - Allow install headers to different location (mbedtls-3)
- + merged: #9486 sergio-nsk - [Backport 3.6] Fix Mbed-TLS build when WIN32_LEAN_AND_MEAN macro is defined globally
- + merged: #9485 sergio-nsk - Fix Mbed-TLS build when WIN32_LEAN_AND_MEAN macro is defined globally
- + #9489 rsaxvc - Optimize software gcm_mult() routines on strictly-aligned systems
- + #9218 casaroli - Make local functions and objects static
- + #9423 BhanuPrakash-P - Fix pkcs8 unencrypted private key parsing with Attributes field

Recent community activity (thank you!)

Valerio Setti @Nordic

- + #9448 valeriosetti - [Backport 3.6] PSA: use static key slots to store keys
- + #9302 valeriosetti - PSA: use static key slots to store key

Major activities within core team

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

- + Mbed TLS 3.6.1 (release expected this Friday)
 - Focus on regressions in 3.6.0
 - Mainly workarounds for TLS 1.3 issues: <https://github.com/Mbed-TLS/mbedtls/issues/9223>
- + TF-PSA-Crypto — main focus in Q3
 - 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
 - <https://github.com/orgs/Mbed-TLS/projects/15>
 - PSA_CRYPTOC / CLIENT always on
 - Consume TF-PSA-Crypto repository as source of PSA and crypto code
 - Remove some legacy interfaces & features
- + Open for SPAKE2+ reviews (tasks defined on [backlog board](#))

Release Timeline

- + 3.6.1 expected Friday 30 August 2024
- + 4.0 currently aiming for first half of 2025
- + 3.6 LTS supported until early 2027
- + 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)
 - o Removing cipher.h; Keeping parts of md.h and pk.h partially as transition layers
 - o Removing direct access to bignum/ECC arithmetic
 - o Removing direct access to DRBG

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Thank You

Danke

Gracias

Grazie

谢谢

ありがとう

Asante

Merci

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