

The background features a dark blue, futuristic aesthetic with a grid of white 'x' marks and glowing lines. A central image shows a smartphone with a fingerprint scanner, overlaid with binary code (0s and 1s) and a glowing blue 'X' mark. The overall theme is technology and security.

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# Mbed TLS Tech Forum

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

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# Recent community activity (thank you!)

## + Valerio Setti @Nordic

- #9138 valeriosetti - Do not perform adjustments on legacy crypto from PSA, when MBEDTLS\_PSA\_CRYPTOC\_CLIENT && !MBEDTLS\_PSA\_CRYPTOC\_C
- #9237 valeriosetti - PSA client-server: support in the unit test framework
- merged: #9219 valeriosetti - [Backport 3.6] adjust\_legacy\_crypto: enable CIPHER\_C when PSA CMAC is builtin
- merged: #9178 valeriosetti - adjust\_legacy\_crypto: enable CIPHER\_C when PSA CMAC is builtin
- merged: #9221 valeriosetti - [Backport 3.6] fix documentation of psa\_hash\_compare()
- merged: #9220 valeriosetti - fix documentation of psa\_hash\_compare()
- merged: #9222 valeriosetti - [Backport 2.28] fix documentation of psa\_hash\_compare()

## + Misc

- #9189 misch7 - Fix build of v3.6 (issues #9186 and #9188)
- merged: #9241 lhuang04 - Set psk to NULL in ssl\_psk\_remove
- merged: #9245 lhuang04 - Backport 3.6: Set psk to NULL in ssl\_psk\_remove
- merged: #9246 lhuang04 - Backport 2.28: Set psk to NULL in ssl\_psk\_remove
- #5824 polhenarejos - Add support to Ed448 in EdDSA
- #5819 polhenarejos - Add support for EdDSA with ed25519 curve (pure ed25519, ed25519ctx and ed25519ph)
- #6556 polhenarejos - XChaCha20 and XChaCha20-Poly1305 support.
- #5823 polhenarejos - Add support for SHA-3 KMAC
- #5822 polhenarejos - SHA-3 cSHAKE128 and cSHAKE256 support
- #5821 polhenarejos - SHA-3 SHAKE128 and SHAKE256 support
- #8236 silabs-Kusumit - PSA Key Derivation Verification APIs
- #9218 casaroli - Make local functions and objects static

# Major activities within core team

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

## + Mbed TLS 4.0

- PSA\_CRYPTOC\_C / CLIENT always on
- Consume TF-PSA-Crypto repository as source of PSA and crypto code
- Remove some legacy interfaces & features

## + Mbed TLS 3.6.1

- 3.6 might break some existing builds
- Workarounds: <https://github.com/Mbed-TLS/mbedtls/issues/9210#issuecomment-2141498918>

## + TF-PSA-Crypto

- <https://github.com/Mbed-TLS/TF-PSA-Crypto>
- Will become upstream source for crypto in Mbed TLS

# 4.0 Discussions

Please provide your feedback

- + Consider removing support for the RSA key exchange in TLS 1.2 [#8170](#)
- + Consider removing CBC cipher suites [#9202](#)
- + Consider removing static ECDH cipher suites [#9201](#)
- + Remove the dynamic SE interface in 4.0 [#8151](#)
- + How to partially accelerate ECC [#103](#)
- + Importing partial RSA private keys [#105](#)
- + How to implement a custom ECC-based mechanism [#102](#)
- + How to implement a custom RSA-based mechanism [#104](#)
- + Consider removing DES [#9164](#)

# Release Timeline

- + 3.6.1 coming soon
- + 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

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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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