



arm

# Mbed TLS Tech Forum

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

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# Recent community activity (thank you!)

## + Valerio Setti @Nordic

- merged: #8937 - Clarify the documentation of `mbedtls_pk_setup_opaque`
- merged: #8987 - Test gap: `mbedtls_pk_check_pair` with `MBEDTLS_PK_OPAQUE`
- merged: #9005 - [Backport 3.6] Clarify the documentation of `mbedtls_pk_setup_opaque`
- merged: #9004 - [Backport 3.6] Test gap: `mbedtls_pk_check_pair` with `MBEDTLS_PK_OPAQUE`
- #8986 - Improve test key generation in `test_suite_pk`

## + Misc

- merged: #8874 stevenwvdv - Fix compilation on macOS without apple-clang
- merged: #8875 stevenwvdv - [backport] Fix compilation on macOS without apple-clang
- #8933 Biswa96 - pkg-config: fix static linking in Windows
- #8983 Troy-Butler - Fix NULL argument handling in `mbedtls_xxx_free()` functions
- #8645 casswarry0 - Using make with parameter `GEN_FILES=""` still requires Python
- #6955 inorick - Guard ticket specific TLS 1.3 function with macro
- #9001 raymo200915 - Add PKCS#7 parser features for integrating MbedTLS with U-Boot
- #8945 rojer - `mbedtls_debug_print crt`: Reduce stack usage
- #8981 rojer - TLS handshake fragmentation support
- #8946 rojer - Ignore `MBEDTLS_ERR_SSL_PEER_CLOSE_NOTIFY` when printing debug
- #8950 rojer - Do not rely on undefined macro evaluating to 0
- #8952 rojer - Streamline cleanup in `MBEDTLS_X509_SAFE_SNPRINTF`
- #8949 rojer - `x509 crt`: Add LWIP implementation of `inet_pton`
- #8953 rojer - Remove unnecessary assignments
- #8947 rojer - Mark `ssl_tls12_preset_default_sig_algs` const
- #8236 silabs-Kusumit - PSA Key Derivation Verification APIs
- #8907 szsam - Backport 2.28: `ssl_mail_client`: Fix unbounded write of `sprintf()`
- #8897 szsam - `ssl_mail_client`: Fix unbounded write of `sprintf()`

# Major activities within core team

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

- + Mbed TLS 3.6 LTS released – support until early 2027
  - Accessor functions for fields made private in 3.0
  - TLS 1.3 early data, record size limit
  - Driver-only cipher & AEAD
  - Thread-safe PSA
  - PSA bridge – new APIs to help with transition from legacy to PSA
- + TF-PSA-Crypto
  - <https://github.com/Mbed-TLS/TF-PSA-Crypto>
  - Will become upstream source for crypto in Mbed TLS
  - Paused to focus on 3.6, resume in Q2

- + Planning Mbed TLS 4.0 – end 2024?
  - PSA\_CRYPTOC / CLIENT always on
  - Consume TF-PSA-Crypto repository as source of PSA and crypto code
  - Remove some legacy interfaces & features
- + CI
  - Testing on Arm coming soon

# Release Timeline

## + 3.6 LTS – early 2024 – support until early 2027

- TLS 1.3
  - + Finish support for early data
  - + Record size limit extension
  - + Key export
- Driver-only cipher
- PSA thread safety
- Review private fields, add missing accessors
- Final 3.x release

## + Timeline

- 4.0 second half of 2024
- 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

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