

The background features a city skyline at the bottom, overlaid with a network diagram of interconnected nodes and lines. A large, dark blue geometric shape, resembling a triangle, is positioned on the left side of the image. The overall color palette is dominated by various shades of blue.

arm

Mbed TLS Tech Forum

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

Dave Rodgman

2023-04-24

Recent community activity (thank you!)

+ Demi-Marie Obenour gains official reviewer status

+ Valerio Setti @ Nordic

- PK test cleanup
- ECP dependencies in PK
- Fix use of USE_PSA_INIT/DONE in test suites
- Use pk_context pointer in PK
- Avoid parse/unparse public ECC keys in PK with USE_PSA
- Avoid parse/unparse private ECC keys in PK with USE_PSA
- Driver-only ECP testing framework
- PK: use PSA to complete public key when USE_PSA is enabled
- Remove PSA_HAVE_FULL_xxx symbols
- Define (private) "light" subset of ECP
- PK tests: use PSA to generate keypairs when USE_PSA is enabled
- driver-only ECDH: enable ECDH-based TLS 1.2 key exchanges -- part 2
- PK: don't use mbedtls_ecp_check_pub_priv() when USE_PSA is enabled
- Driver-only curves: parity starter
- Some MAX_SIZE macros are too small when PSA ECC is accelerated
- Improve analyze_outcomes.py script
- Driver-only ECC: all three top-level modules

+ Misc

- TLS 1.3 session tickets dependency fix - Norbert Fabritius
- CMake on OS X cleanup
- Read and write RFC8410 (X25519 & X448) keys – Jethrogb
- Record Size Limit extension (first step) – Kloolk
- Update test cert to use AES instead of DES - Mukesh Bharsakle
- Fix warning in ECDSA – Harshal5
- Support challenge password attribute in CSR (RFC2985) – tisj
- Added pragma to suppress warning at psa_set_key_domain_parameters – Pedro Cavalheiro

+ Stephan Koch @Oberon

- Fix PSA AEAD ChaCha20 test dependency
- Fix derive_ecjpake_to_pms dependency in PSA crypto test
- Fix expected export length for Edwards curves in test suite
- Fix test to check output length on PSA_SUCCESS only

+ Kusumit Ghoderao @ Silicon Labs

- PBKDF2 input_integer
- Support for 8 byte nonce in ChaCha20 and ChaCha20-Poly1035

Major activities within core team

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

- + Mbed TLS 3.4 released March 28th
 - PKCS #7
 - PSA interruptible sign/verify
 - EC J-PAKE improvements
 - Performance
 - Code-size
 - Bug-fixes & security
- + PSA Crypto – prototyping move to separate repository
- + OPC-UA – various X.509 improvements
- + AES improvements
 - Support AESCE with MSVC
 - Support accelerated implementation only
- + Driver-only ECC – in progress
- + Historical review – PRs older than 3 months
- + CI
 - OpenCI functional
 - Working on performance improvements
- + Review workload
 - Struggling for review bandwidth – any assistance from the community is hugely valuable
 - Easing the general review load accelerates progress on work prioritized by the community