

The background features a city skyline at dusk or dawn, with a network of blue lines and nodes overlaid on top. A large teal triangle is positioned on the left side of the image, partially overlapping the city and network elements.

arm

Mbed TLS Tech Forum

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

Dave Rodgman

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Recent community activity (thank you!)

+ Valerio Setti @ Nordic

- Fix some MAX_SIZE macros when PSA ECC is accelerated
- Avoid parse/unparsed public ECC keys in PK with USE_PSA
- Driver-only EC J-PAKE testing (3x PRs)
- Driver-only ECDH in TLS 1.2 (part 1)
- Driver-only ECDH in TLS 1.2 (part 2)
- Driver-only ECDH in TLS 1.3
- Driver-only ECDSA, ECDH, ECJPAKE - support all accelerated
- analyze_outcomes.py – usability enhancements

+ Joakim Andersson @ Nordic

- Fix dependency error in psa_key_derivation_abort
- Fix dependency error in psa_key_derivation_output_key

+ Kusumit Ghoderao @ Silicon Labs

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

+ Misc

- X.509 – verify SAN IP address – G Strauss
- LMS – reduce stack memory usage – M Fischer
- TLS 1.3 ticket dependency fix – Norbert Fabritius
- Threading impl for Windows – fwc-dc
- Fix llvm warning – Sergey Nsk
- Require minimal length ASN1 encoding – Demi Marie
- Fix segfault in mbedtls_oid_get_numeric_string - Demi Marie
- Adjust log level in DTLS - Mehmet Çağrı Aksoy

Major activities within core team

- + Mbed TLS 3.4 coming tomorrow – 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
- + Driver-only hashes – functionally complete
- + Driver-only ECC – in progress
- + Historical review – items older than one year
 - Currently working through some old issues
- + 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