

The background features a city skyline at dusk or dawn, with a network of blue lines and nodes overlaid on the scene. The network lines connect various points, creating a web-like structure. The sky is a mix of blue and purple hues, with some clouds. The overall aesthetic is modern and technological.

arm

Mbed TLS Tech Forum

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

Dave Rodgman

2023-11-06

Recent community activity (thank you!)

+ Valerio Setti @Nordic

- [G2] Create Cipher light
- Add new symbol for PSA key enrollment functions
- Make PEM use cipher.c when available
- ~~Clean up curves handling in libtestdriver1 config~~
- ~~Remove cipher/aead legacy dependencies from PSA test suites~~
- ~~[G2] Make TLS work without Cipher~~
- ~~Clarify driver handling of ALG_STREAM and ALG_ECB~~
- ~~Fix error reporting in driver testing parity~~
- ~~Improve location of MD_CAN macros~~
- ~~Fix dependencies of mbedtls_pk_ec_ro and mbedtls_pk_ec_rw~~
- ~~Add test component with all ciphers and AEADs accelerated only~~
- ~~Change accel_aead component to full config~~
- ~~PSA crypto should not depend on the cipher module~~

+ SiLabs

- PSA Key Derivation Verification APIs
- KDF incorrect initial capacity
- ~~PBKDF2-CMAC implementation~~

+ Misc

- Add AES encrypted keys support for PKCS5 PBES2 - zvolin
- ~~Add accessors to config DN hints for cert request - gstrauss~~
- Remove transparent key check in psa_asymmetric_encrypt/decrypt() - michael2012z
- Update README.txt - SamayXD
- Avoid warning with -Wsign-conversion - scaprile
- Adding PowerPC (ppc64le) support using vector instructions for AES/GCM functions. - dannytsen
- ~~AES-NI: use target attributes for x86 32-bit intrinsics - beni-sandu~~
- Add CodeQL Workflow for Code Security Analysis - b4yuan
- Use CMAKE_C_SIMULATE_ID when available to determine compiler - daantimmer
- Fixes "CSR parsing with critical fields fails" - mschulz-at-hilscher
- ~~Fix compiling AESNI in Mbed TLS with clang on Windows - sergio-nsk~~
- ~~Backport 2.28: Fix compiling AESNI in Mbed TLS with clang on Windows - sergio-nsk~~
- Remove trailing whitespace on grep command in prepare_release.sh - mcagriaksoy
- Implement non-PSA pk_sign_ext() - tomi-font

Major activities within core team

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

- + Mbed TLS license change
 - Now Apache-2.0 OR GPL-2.0-or-later
 - 3.5.1, 2.28.6 coming this week under new license
 - Existing users can continue to use under Apache 2.0 license with no impact
- + TF-PSA-Crypto
 - <https://github.com/Mbed-TLS/TF-PSA-Crypto>
 - Currently, read-only preview
 - Will become upstream source for crypto in Mbed TLS
- + TLS 1.3 early data
- + Driver-only cipher & AEAD
 - AES, GCM, CCM, ChachaPoly
- + Thread-safe PSA
- + Planning Mbed TLS 4.0 – H2 2024?
 - PSA_CRYPTOC / CLIENT always on
 - Consume TF-PSA-Crypto repository as source of PSA and crypto code
 - Remove some legacy interfaces & features
- + TF-PSA-Crypto – productization
- + CI
 - Testing on Arm coming soon
- + Planning Mbed TLS 3.6 LTS – Q1-Q2 2024
 - TLS 1.3 early data, record size limit
 - PSA multi-threading support
 - Accessor functions for fields made private in 3.0
 - Driver-only cipher and AEAD