

PSA Crypto Headers for v8-M Systems

TF-M Technical Forum

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-- PSA Crypto API Specification leaves certain portions as IMPDEF

- Implementation details of structures, platform-dependent behaviour
- Different implementations end up with different implementation-specific header files
- Increased flexibility for a wide set of scenarios
 - +degrees of freedom between implementations

+ Looking at reducing barriers for using PSA Certified APIs on v8-M systems

- Provide a unique reference for what the PSA Crypto spec leaves undefined
- Not an appendix to the PSA specifications, but a reference implementation

-- Define the implementation for a transport layer based on SPM for v8-M TrustZone

- Implementation reflects what is needed for a remote call across the SPM based transport layer on a v8M system
- v8-M PSA API Secure firmware interface (S and NS) uses these PSA Crypto headers file implementation.
- Uniquely identify a recommended solution when deploying PSA Crypto along TrustZone enabled v8-M Systems
- If having a unified header:
 - + Mbed TLS + TF-M Crypto have a simpler integration in SDKs where they coexist

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