

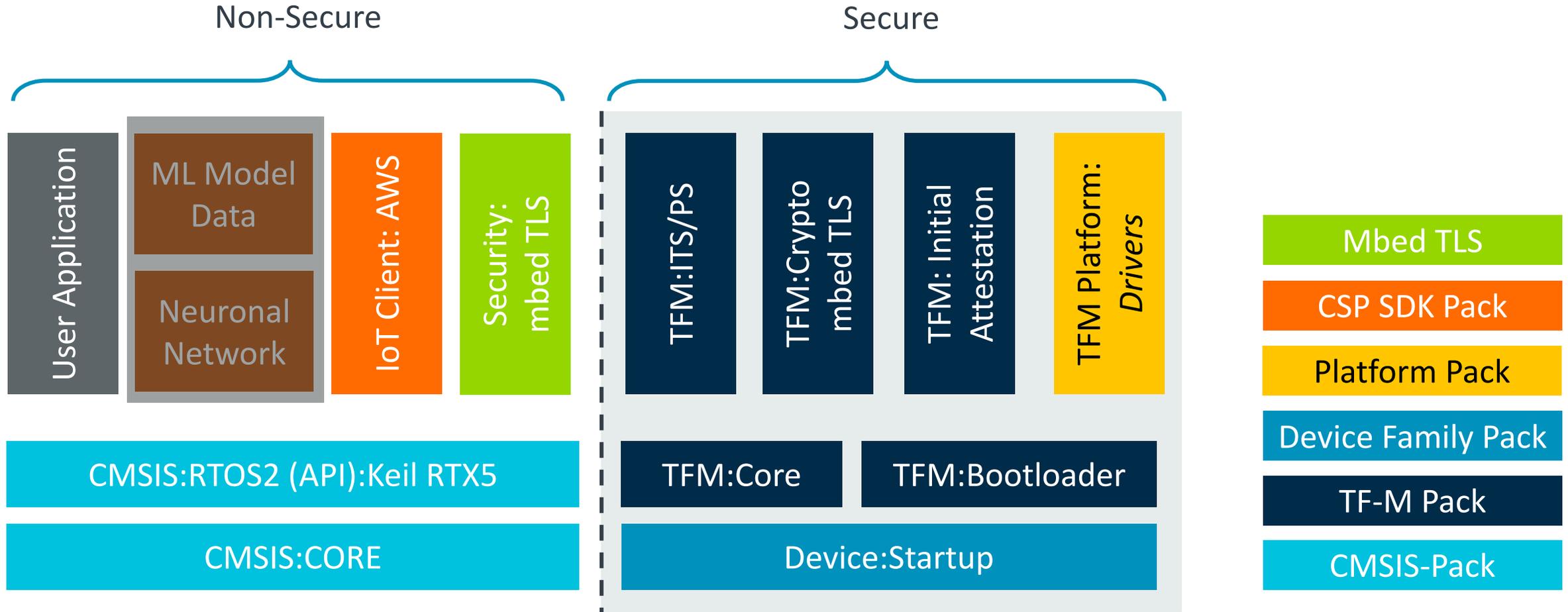
arm

TF-M 1.2 framed in CMSIS-Packs



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2021-03-04

IoT Application Example: Pack view



Packs and Examples created for TF-M

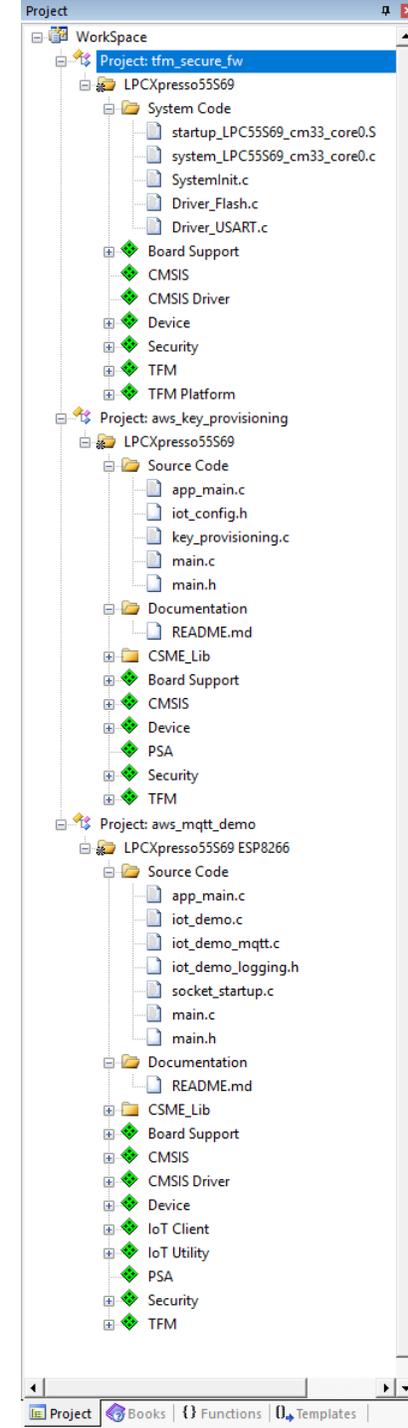
- **ARM.TFM.2.1.0.pack**: main TF-M pack, synced to the TF-M repository
- **ARM.TFM-Test.1.0.0.pack**: TF-M integration tests, synced to the TF-M repository
- **ARM.PSA.1.0.0.pack**: should be the PSA API (currently documentation)
- **ARM.mbedTLS.1.7.0.pack**: MbedTLS (upstream 2.24)
- Platform (device) support (memory maps, SAU/MPC/PPC setup):
 - **Keil.LPC55S6x_TFM-PF.1.1.0.pack** (NXP LPC55S6x)
 - **Keil.STM32L5xx_TFM-PF.1.1.0.pack** (STMicroelectronics STM32L5)

Examples currently on www.keil.com/iot

- **LPCXpresso55S69-EVK**: AWS MQTT Example using TrustZone and TF-M
- **STMicroelectronics NUCLEO-STM32L552ZE**: AWS MQTT Example using TrustZone and TF-M
- **STM32L562E-DK**: AWS MQTT Example using TrustZone and TF-M

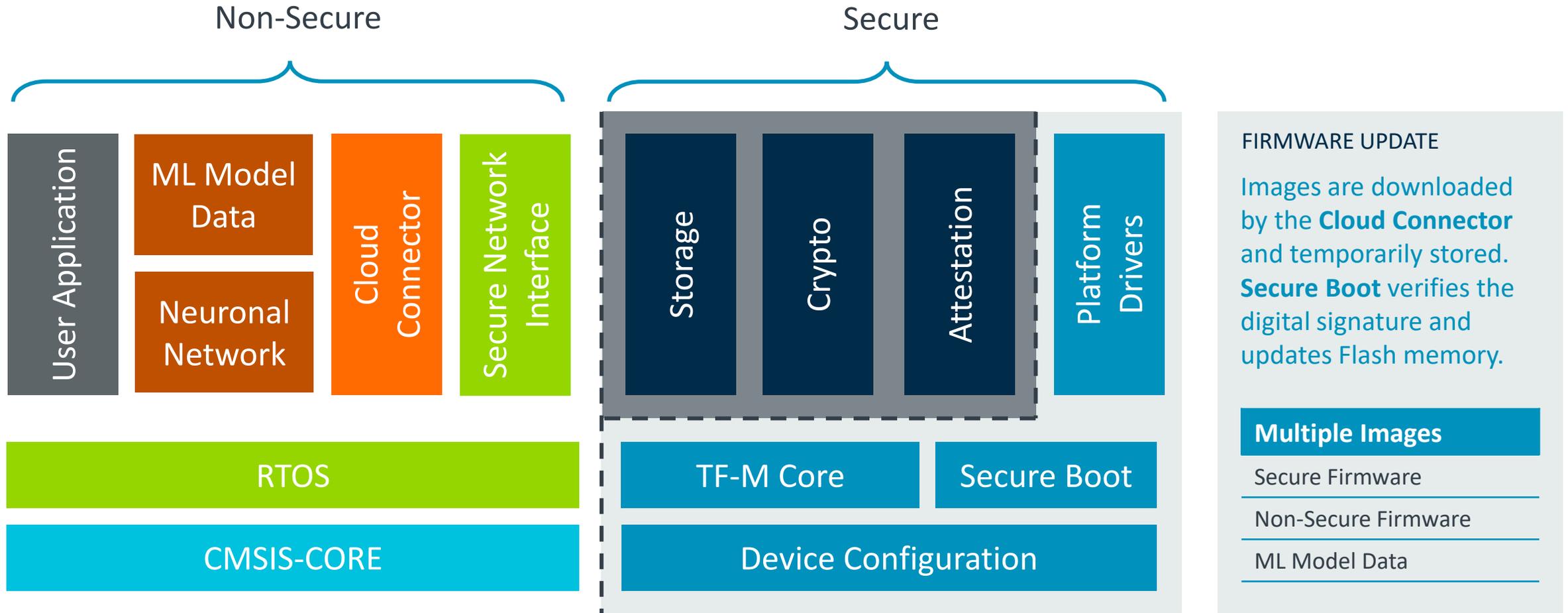
AWS MQTT example project

- Multi-project workspace
 - **tfm_secure_fw**: Runs the TF_M FW on the secure side
 - **aws_key_provisioning**: stores the keys in internal secure storage
 - **aws_mqtt_demo**: non-secure demo project sending MQTT messages
- Run:
 - Flash tfm_secure_fw to enable the secure side
 - Flash and run once aws_key_provisioning to transfer keys to secure storage
 - Flash and run aws_mqtt_demo; observe output in the Terminal and on the AWS IoT Console



IoT Application on Cortex-M with ML and TF-M

Simplified view to the software components of an IoT endpoint with ML



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Thank You

Danke

Gracias

谢谢

ありがとう

Asante

Merci

감사합니다

धन्यवाद

Kiitos

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