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Updates on TF-M HAL API

Kevin Peng 2020-09-17

Agenda

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- HAL for Secure Partitions
- HAL for Secure Partition Manager

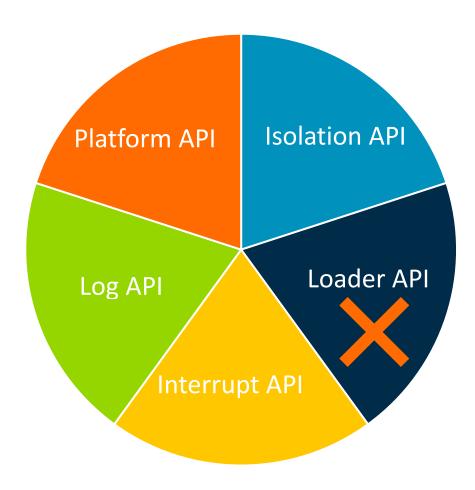
• Progress

SPM HAL

- Was a full stack, heavy HAL
- Is a very light-weight, thin HAL

APIs

- Log API not changed
- Interrupt API WIP
- Loader API Removed
 - Feature design, currently no use case
- Platform API Tailored a bit
 - Removed one API
 - Simplified one API
 - became the old HAL API
- Isolation API totally new design
 - Simplified
 - Closer to HW





	Previous version	Current version
Platform APIs	tfm_hal_init_platform()	tfm_hal_init_platform()
	tfm_hal_reset_platform()	tfm_hal_reset_platform()
	tfm_hal_get_meminfo()	
Isolation APIs	tfm_hal_create_isolation_region()	tfm_hal_set_spe_boundary()
	tfm_hal_destroy_isolation_region()	tfm_hal_isolation_init()
	tfm_hal_switch_isolation_regions()	tfm_hal_enable_memory_access()
	tfm_hal_config_isolation_region()	tfm_hal_disable_memory_access()
	tfm_hal_access_to_region()	tfm_hal_memory_has_access()

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Progress

- Design Docs
 - <u>Platform API</u> API finalized
 - Log API API finalized
 - Isolation API
- Platform API
 - <u>"Implemented"</u>
- Log API
 - SPM log <u>patch</u> for review
 - SP log coming soon
- Isolation API
 - isolation feature branch
 - Re-implemented Isolation L1 and L2
 - Prototyping on Isolation L3



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