# arm

## Updates on TF-M HAL API

Kevin Peng 2020-09-17

### Agenda

Write in your subtitle here

- HAL for Secure Partitions
- HAL for Secure Partition Manager

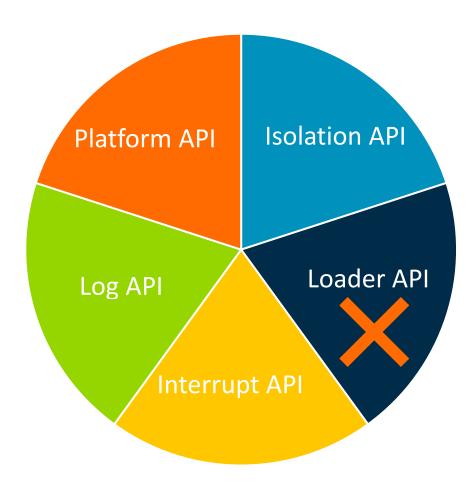
• Progress

#### 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()

arm

#### 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



+ + + + + + + + + + + + + +	

+

		rn									<sup>+</sup> Thảnk Yóu
	+										Danke Merci
											・ 谢谢 ありがとう
											• Gracias
											Kiitos 감사합니다
+	+	_	÷	+	+	+	+	<b>_</b>	<b>.</b>	<b>_</b>	धन्यवाद
											شکرًا
					+						<sub>+</sub> ধ্বন্যবাদ
											תודה
	© 2020 Arm	Limited (or it	s affiliates)								

• + + +	+ + +	+ + +	+ +	

		rn	$\mathbf{n}^{\dagger}$			trac	e Arm trademark demarks or trad he US and/or els featured m	lemarks of sewhere. A	Arm Limited	l (or its subsid	diaries) in ner marks
<u>+</u>	+	+	<u>+</u>	+	+						

www.arm.com/company/policies/trademarks

+										
+										
+										
÷										
+			+							
+ -	 +	+.	+	+	+	+	+	+	+	+

© 2020 Arm Limited (or its affiliates)

\* \* \* \*

+ + +