# arm

## Open Cl auto parse TF-M dependency versions

Xinyu Zhang Dec 7, 2023

© 2023 Arm

### **TF-M dependencies**

- -- MCUBoot
- -- MBedTLS
- -- PSA Arch tests
- -- tf-m-tests



#### **Previous CI Status**

#### - Dependency versions are fixed in Open CI

- Need to create CI patch to update the fixed version when TF-M upgrades dependency version + CI may use unmatched dependency versions if CI update patch is missed
  - + TF-M patches to upgrade dependency versions cannot be directly verified by *Allow-Cl* with correct dependency version -- Need maintainers to manually trigger CI jobs with specified version

- Patches for tf-m-tests cannot be verified by *Allow-Cl* (per-patch job)

• Need maintainers to manually trigger CI jobs to verify unmerged tf-m-tests patches

#### **Current CI Status**

- Open CI parses dependency versions from TF-M before downloading dependencies

- No longer need to create CI patch to update dependency versions
- Make sure every TF-M commit is tested with correct dependency versions
- TF-M patches to upgrade dependency versions can be directly verified by Allow-Cl with correct dependency version -- No need to manually trigger Cl jobs
- -- Unmerged patches in tf-m-tests can also be automatically verified with following steps:
  - 1. Create a TF-M patch to update test version in *lib/ext/tf-m-tests/version.txt* to the tf-m-tests commit to be tested.
  - 2. Start per-patch test with *Allow-Cl* on the TF-M patch to update test version
- Note: Unmerged patches for 3<sup>rd</sup> party dependencies cannot be covered

### Example

+ Verify tf-m patch to upgrade MCUBoot version
<u>https://review.trustedfirmware.org/c/TF-M/trusted-firmware-m/+/24550</u>

- Verify tf-m-tests patch

tf-m-tests patch to be verified:

https://review.trustedfirmware.org/c/TF-M/tf-m-tests/+/25060

 tf-m patch to update test version: <u>https://review.trustedfirmware.org/c/TF-M/trusted-firmware-m/+/25057</u>

	+						
arr						Thank You	
						+ Danke	
						Gracias	
						+ Grazie 谢谢	
						ありがとう	
						Asante	
						+ Merci	
						감사합니다	
						धन्यवाद	
						Kiitos شکر ً ا	
						শ্বন্যবাদ	
© 2023 Arm						תודה	
						+ '''	

arm

The Arm trademarks featured in this presentation are registered trademarks or trademarks of Arm Limited (or its subsidiaries) in the US and/or elsewhere. All rights reserved. All other marks featured may be trademarks of their respective owners.

www.arm.com/company/policies/trademarks

© 2023 Arm						