



Security HC

12/07/2023

Agenda

- Disclosures, opens, and updates
- Meeting time updates
- TG and SIG updates
- New/emerging use cases and architectural gaps – discussion
- Meeting Notes in RED

Meeting time updates

BOD requested streamlining of TG/SIG meeting times

- Avoid overlapping meetings to facilitate better attendance
- Carry out most work offline - emails and Github
- Use meeting time for matters that need active discussion for resolution

Initial proposed calendar for **Security HC meetings** - starting in 2024

- All times in Pacific TZ; additional PM slots available if needed
- SIGs should plan and announce ahead on how to use their slots and avoid overlaps

	Tuesday							
	7:00 - 7:30	7:30 - 8:00	8:00 - 8:30	8:30 - 9:00	9:00 - 9:30	9:30 - 10:00	10:00 - 10:30	10:30 - 11:00
Odd week					Crypto*	Crypto*	CHERI TG/SIG	RI SIG+
Even week	TC SIG**	Sec. Model	Crypto*	Crypto*				
Odd week					Crypto*	Crypto*	CHERI TG/SIG	TC SIG**
Even week	RI SIG+	HC	Crypto*	Crypto*				

Alternative

	Tuesday							
	7:00 - 7:30	7:30 - 8:00	8:00 - 8:30	8:30 - 9:00	9:00 - 9:30	9:30 - 10:00	10:00 - 10:30	10:30 - 11:00
Odd week					Crypto* ?	CHERI TG/SIG	RI SIG+	
Even week	Sec Model	Crypto*?	TC SIG**					
Odd week					Crypto* ?	CHERI TG/SIG	TC SIG**	
Even week	RI SIG+	Crypto* ?	HC	HC				

**CoVE, CoVE-IO, SmmT TGs

+sPMP, IOPMP, LIsO, Memsafety, Compart

*CETG+FstTrk HACTG, PQCTG
Asking to switch to ISA unpriv slots

CONFIRMED Crypto are asking to move to ISA unpriv so we have more slots

Noted that this is a 4 week cycle where we likely need 2.

Any and Ravi to collect requests and constraints and send new proposal

Updates

- **Security Model TG (assignee HC)**
 - Plan revised September 2023
 - Spec → [LINK](#) v0.1
 - Next steps → release spec v0.2 by EOY'23 with usage models documented; v0.3 in Jan with crypto recommendations.
- **CoVE TG (assignee TC SIG)**
 - Ratification plan (revised) approved February 2023
 - Spec → ABI v1.0 documented at [LINK](#)
 - Updates to sync with supervisor domains terminology is in progress -> freeze review
 - Next Steps → Freeze criteria deliverables
 - [\[RFC 00/48\] RISC-V CoVE support](#)
 - [\[RFC kvmtool 00/10\] RISC-V CoVE support](#)
 - TSM code that implements the ABI has been released at <https://github.com/rivosinc/salus>
 - Wiki for running tests on POC using QEMU: <https://github.com/rivosinc/cove/wiki/CoVE-KVM-RISCV64-on-QEMU>

Updates

- **Cove-IO TG (assignee TC SIG)**
 - Ratification plan approved on October 2023
 - Spec → [LINK](#)
 - PoC - vfio-user based TEE-IO device on top of a QEMU emulated CoVE platform
 - Next Steps → Spec and POC Development
- **Smmmtt TG (assignee TC SIG)**
 - Ratification plan approved September 2023
 - Spec → [LINK](#)
 - Next step → address open issues to complete spec. Development in Q1'24
- **SSLP TG (assignee CFI SIG)**
 - Ratification plan approved Aug 2022
 - Spec → [LINK](#): Completing Architectural Committee review
 - Next Steps
 - psABI definition making progress in the TG github; several issues resolved
 - Acceptance criteria deliverables being worked upon

Updates

- **sPMP TG (assignee RI SIG)**
 - Ratification plan approved on Aug 2022
 - Spec → [LINK](#) in AR review
 - PoC status - ?
 - Next Steps → complete ARC ARs, resource sharing
- **IOPMP TG (assignee RI SIG)**
 - Ratification plan approved on July 2022
 - Spec → [LINK](#)
 - PoC status - ?
 - Next Steps → resolve direction vis-a-vis WG non-ISA
- **Lightweight Isolation TG (assignee RI SIG)**
 - Charter revision ? **Charter revision planned this year**
 - Need to answer the WG question ASAP – **this has likely taken too long so fast track request will be made to the IC**
- **CHERI TG (assignee CHERI SIG)**
 - Charter proposed – **set up request will be made to priv IC, security HC happy to manage if priv ic wants to delegate but this may be run by priv IC**
 - Ratification plan WIP

Updates

- **Memory Safety and Compartmentalization (assignee RI SIG)**
 - In strategy and gaps discussion phase in the SIG
- **Secure Debug (dotted line)**
 - Charter in progress - smmtt are looking at debug. Any requested folks think about their debug scenarios and comment, particularly around multiple trust chains