RISC-V®

Security HC Meeting

May 11th, 2023

Agenda

- AP-TEE-IO TG chair and vice chair candidates
- Call for candidates reminder –
  - runtime integrity SIG, deadline 17th May

- Updates from the security F2F in Mountain View
  - AP-TEE, MTT etc
  - Lightweight Isolation – implications for the m-mode isolation TG if we assume s-mode containers
- Any EU summit attendees, comments
- Any SIG, TG updates ?
- Office Hours

Security F2F Update

- AP-TEE, MTT etc

  Ravi summarised the F2F.

- M-Mode Isolation
  - Strong preference to use the existing S-Mode containerisation

  For Lightweight TEE, Requires Porting RTOS to S-Mode, running only Security monitor in M-mode. Still leaves a number of items to address:

    - Performance of context/container switch
    - Low latency interrupt to s-mode RTOS (blocked when in M-mode)
    - Secure Function Calls (call gates) – supported in ARM TZ-M
    - PMP efficiency and security – delegate individual PMP entries to S-mode ? Lightweight MTT ?

  HC Agreed Lightweight Isolation TG is still required. Request requirements to enable progress on the proposed solution. Clear direction of travel is for s-mode based isolation. Gurney to look into revised charter. Andy to discuss name change with Jeff et al

Office Hours

- From last time - no progress
- Proposal for monthly Q&A, Discussion session
- Idea is to allow newbies and regular contributors alike to get clarification on the complex security ecosystem – what goes where, issues etc
- Rotating Chair – volunteers ?

Still required, Andy to request questions for the meeting or topics and propose dates

Any Other Status Updates

IOPMP discussion –
HC concluded that while the IOPMP is architecturally independent, it is a critical component, and to minimise RVI usage complexity, a standardised interface / RPI is highly desirable. Also reduces fragmentation and simplifies SW. Should be started in RVI, and if no home can be found outside, RVI should be prepared to ratify.

CFI proposal from Huawei Germany. Conclusion was to send proposal to CFI chair, and then discuss at HC.