CIVIL INFRASTRUCTURE PLATFORM

CIP Technical Steering Committee Meeting

Date: 11th of October 2022.

Roll Call

TSC members (Alphabetical order by company name)

Attendees (Please change to **Bold**, if you attend this meeting) (Key shortcut: Ctrl+b)

Company	Members
Bosch	**Philipp Ahmann** Steffen Evers
Cybertrust	**Hirotaka Motai (Representative)** **Hiraku Toyooka**
Hitachi	**Hidehiro Kawai (Representative)** Takuo Koguchi
Linutronix	
Moxa	Jimmy Chen (Representative)
Plat'Home	**Masato Minda (Representative)**
Renesas	**Chris Paterson (CIP Testing WG Chair)** Kento Yoshida Kazuhiro Fujita **Takehisa Katayama (Representative) (Voting)**
Siemens	**Jan Kiszka (Representative) (Kernel Team Chair)** **Wolfgang Mauerer (Representative) (Voting)** Urs Gleim Stefan Schroeder
Toshiba	**Dinesh Kumar** **Kazuhiro Hayashi (Voting Representative) (CIP Core / Software Update Chair)** Venkata Pyla **Nobuhiro Iwamatsu (Kernel Maintainer)** Shivanand Kunijadar

	Yoshi Kobayashi (TSC Chair)
Denx	**Pavel Machek (Kernel Maintainer)**
	Ulrich Hecht (Kernel Developer)
Linux Foundation	**Neal Caidin**

Discussions

Security Working Group

Items need to be approved by TSC voting members

- None

Status updates

- No updates on IEC-62443 AIs
- This week's SWG meeting on 10th Oct was canceled as members were not available
- Other updates
    - Exida can share Cybersecurity Management Plan template for meeting SM-1 requirement for IEC-62443-4-1 (exida response to CIP queries)
    - Exida and SWG members to have follow-up discuss to clarify exida queries on 14th Oct specifically about CIP Kernel
        - How threat modeling and static code analysis requirement can be achieved for CIP kernel
    - Exida to confirm back specifically how security testing requirements to be met in CIP
    - Exida to also share cost quotation tentatively by E/Oct-22
- Is there any preference for supporting specific architecture from IEC-62443 final certification? (Majority CIP reference hardware are based on ARM64)
    - https://wiki.linuxfoundation.org/civilinfrastructureplatform/ciptesting/cipreferencehardware
    - (Action: SW) Clarify why this architecture requirement need to include for the assessment
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Kernel Team Working Group

Items need to be approved by TSC voting members

- None

Status updates

- **CIP IRC weekly meeting**

    - logs
        - Sep 29th
        - Oct 6th
- **CIP kernel release**
    - 4.4
        - none
    - 4.19
        - none
    - 5.10
        - v5.10.145-cip17-rt7 on October 1st by Pavel
- **New Spectre issues vs. 4.x-cip**
    - Mitigations for https://cve.mitre.org/cgi-bin/cvename.cgi?name=2022-29900 (AMD x86) and https://cve.mitre.org/cgi-bin/cvename.cgi?name=2022-29901 (Intel x86) not backported to 4.x kernels, and this may not happen at all
    - Consequently, 4.4-cip and 4.19-cip would have no baseline fixes
    - Kernel team considers own backporting attempts too much effort and too risky
    - Threat vector for these CVE is unlikely to be present on industrial devices with these kernels
    - Any concerns by members when CIP would skip them for 4.4 and 4.19?
- **RISC-V architecture**
    - qemu-riscv64 Debian image can now generated from isar-cip-core
    - Currently using kernel's riscv defconfig, cip-kernel-config will pick that up
    - Work on RZ/Five board ongoing but still todos (kernel upstreaming, ldconfig crashes)

CIP Core Working Group

Items need to be approved by TSC voting members

- None

Past minutes

- past meetings

Status updates

- (WIP) Release process of CIP Core
    - Motivation
        - IEC 62443-4-1 requirement (release process, versioning, testing)
        - Kernel testing
    - How to release
        - Release with version number (e.g. cip-core-x.y)
        - When: after each Debian point release (e.g. 11.1, 11.2...)
        - What:
            - Recipes
            - Generated images (kernel + rootfs)
            - **Security report by cip-core-sec (still draft)**

        - **Test results (TBD)**
- isar-cip-core:
    - Update kernel versions, isar
    - Support the distro “cip-core-sid-ports” & the machine “qemu-riscv64”
    - And a lot of fixes, improvements in recipes
- deby
    - cip-core-buster
        - Use Debian’s lavacli package to fix CI problem
        - Update the upstream (meta-debian) revision to the latest to fetch package security updates by Debian LTS (2022-09-26)
- cip-core-sec (a tool to generate CVE report for specific Debian package set)
    - Improved the script to generate CVE report, fixed know issues
    - Confirmed that the script works for both Debian 10 & 11
    - (WIP) Add more minor fixes then move the project from cip-playground to cip-project

CIP Testing Working Group

Items need to be approved by TSC voting members

- None

Status updates

- GitLab runner issues
    - Runner “not being found” anymore: Rollback to older gitlab runner version seems to have resolved this issue
    - Not being able to use Kanico to build docker containers: Still an issue with the CIP runners, so we’ve switched the linux-cip-ci project to use gitlab.org shared runners instead. We get 50,000 CI minutes a month, so we should be okay.
- Adding RISC-V support
    - RISC-V build support added to linux-cip-ci: https://gitlab.com/cip-project/cip-testing/linux-cip-ci/-/merge_requests/58
    - Merge request open to add RISC-V defconfig builds to linux-5.10.y{-cip}: https://gitlab.com/cip-project/cip-testing/linux-cip-pipelines/-/merge_requests/32
    - Next step is to add support for qemu-riscv
- Added proposed risc-v support for CIP reference hardware wiki page
- LAVA infrastructure maintenance

Discussions

- None

Software Update Working Group

Items need to be approved by TSC voting members

- None

Status updates

- Related updates in isar-cip-core
  - (None)
- (WIP) Secure boot + SWUpdate verification on QEMU amd64
  - Patches for README shared for review
- (WIP) Secure storage (with SWUpdate)
  - e.g. Encryption data partition
  - Starting by considering the system architecture
  - Discussions will be required in SWG

Upcoming TSC meetings

- Regular TSC meeting
  - Date 25th of October 2022 (Tuesday)
  - Start time: Local time in your timezone
  - NOTE: DST information
    - US DST start: The second Sunday of March
    - US DST end: the first Sunday of November
    - EU DST start: The last Sunday of March
    - EU DST end: The last Sunday of October
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