CIP Technical Steering Committee Meeting

Date: 30th January 2024.

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** **Sietze van Buuren**
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 (Representative) (Voting) **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)** **Nobuhiro Iwamatsu (Kernel Maintainer)** Shivanand Kunijadar **Yoshi Kobayashi (TSC Chair)**

Denx	Pavel Machek (Kernel Maintainer)
	Ulrich Hecht (Kernel Maintainer)
Linux Foundation	Neal Caidin

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Discussions

Security Working Group

Items need to be approved by TSC voting members

- None

Status updates

- IEC-62443-4-1 action items updates
    a. Multiple MRs related to IEC documentation updates under review
        - Draft Review & approval process for CIP development artifacts
            - https://gitlab.com/cip-project/cip-documents/-/merge_requests/56
        - Security issues handling process
            - https://gitlab.com/cip-project/cip-documents/-/merge_requests/55
        - Markdown to rst format conversion MR
            - https://gitlab.com/cip-project/cip-documents/-/merge_requests/54
- M-COM device shipment updates
    a. Siemens shipped M-COM devices to BV, Toshiba India and Moxa
    b. Delivery is expected by E/Jan or earlier
        - BV confirmed two M-COM devices received
        - Moxa facing some custom check issues while receiving devices
        - Toshiba India waiting for delivery, expected in this week

- BV has confirmed current CIP testing process explained in [CIP testing document](#)
  a. SWG trying to clarify following comment from BV about reusing test results evidence for CIP Core testing from upstream
    - *"It would be necessary for you to illustrate the process through which you verified the test artifacts from the upstream sources. Additionally, **ensure that these test artifacts are sufficiently robust and comprehensive** to serve as evidence that fulfills the specified requirements."*
    - There are around 240 packages installed in isar-cip-core security image, we need to clarify how above comment can be applied
  b. Autopkgtest investigation updates
    - fail2ban does not have autopkgtest, it has unit tests in upstream, SWG is investigating to run unit tests using autopkgtest. After verification SWG will send patches to salsa Debian
- BV has requested to SWG to share user manual and hardware spec for M-COM device for SVV testing, waiting for updates from Siemens
  a. BV plans to start SVV testing from 19th Feb 2024 using M-COM device

Kernel Team Working Group

Items need to be approved by TSC voting members

- none

Status updates

- **CIP IRC weekly meeting**
  - Logs
    - [Jan 18](#)
    - [Jan 25](#)
- **CIP kernel releases**
  - 4.4
    - none
    - => all on schedule
  - 4.19
    - none
    - => all on schedule
  - 5.10
    - v5.10.208-cip43 on January 19 by Iwamatsu-san
    - => rt delayed
  - 6.1
    - none
    - => slightly delayed
- **Business as usual**
- **Unified kernel configs**
  - Should now be worked on, specifically to reduce CI efforts

○ Volunteers needed…

CIP Core Working Group

Items need to be approved by TSC voting members

●

Past minutes

● [past meetings](#)

Status updates

● CIP Reproducible Builds support
  ○ Status

Target	Reproducible Build Status		
	Files: vmlinuz, initrd, rootfs, linux.efi, .swu Features: SWUpdate, secure boot, security	Filesystem Images: vfat(efi, boot), squashfs(rootfs), ext4(home, var)	Disk Images
QEMU AMD64	Reproducible	Reproducible*	In-progress
QEMU ARM64	Reproducible	Reproducible*	In-progress
QEMU ARMHF	Reproducible	Reproducible*	In-progress
BBB	Reproducible	Reproducible*	In-progress

  ○ * : Currently patches are in review or in next branch in upstream projects (OE-Core, isar). Waiting for isar-cip-core pulls the patches.
  ○ Disk images
    ■ [Wic images are not reproducible due to random GUIDs](#)
      ● Two patches are being reviewed: [OE-Core](#), [isar-cip-core](#)
● isar-cip-core
  ○ Updates
    ■ linux-cip: Update to 5.10.208-cip43
    ■ efibootguard: Update to 0.16-2
    ■ ci: Add a script to generate CVE report, and add a manual CI job to run it
    ■ ci: Reduce build runs
  ○ New releases
    ■ [v1.3-rc1](#) (Jan 20th), and v1.3 will be released soon
● IEC
  ○ (WIP) fail2ban: Making upstream unit tests available as a part of autopkgtest
  ○ (WIP) LAVA IEC layer test automation
    ■ Improving test cases themselves, adding features for SWUpdate/secure boot into LAVA

CIP Testing Working Group

Items need to be approved by TSC voting members

- None

Status updates

- Fixed a bug that was allowing false positives on some kernel builds (thank you Pavel for reporting)
- Added "known issues" in SQUAD for spectre-meltdown checker to the automated regression tracking will work better
- SQUAD server now has automated daily backups of the database being taken
- Investigated AWS EC2 costings (they have risen in Jan). We're going to try and use tags to track usage on a per-project basis, but LF admin needs to enable these tags in the AWS cost explorer
- Look into sw update test cases and how we can integrate support into CIP's LAVA env
- RZ/Five boot testing is now enabled on CIP 6.1 kernels

Discussions

- None (?)

Software Update Working Group

Items need to be approved by TSC voting members

- None

Status updates

- Secure update framework (TUF)
  - (WIP) Investigation & prototyping for other TUF implementations (Notary, Uptane, …)
    - Toshiba (Kosh & Kazu) will join a meeting with TUF community at 11AM EST Feb. 2nd (= 1 AM Feb. 3rd JST ;))
      - Please let us know if you want to join
- Delta update
  - (WIP) Evaluation of delta update methods for CIP Core image
    - librsync (rdiff handler)
    - zchunk (delta update handler)
      - Verified with secure boot enabled image for qemu-amd64
      - Checking issues with ARM targets
- Test automation for software update using LAVA
  - SWUpdate successful case: Verified
    - https://lava.ciplatform.org/scheduler/job/1057183
  - SWUpdate failure(rollback) case: OK but limitation
    - by tuning the test definition to complete the reboot action triggered by the watchdog by adding an end-action message (i.e. hard-coded error message, should be generic)

- https://lava.ciplatform.org/scheduler/job/1067783
  - (WIP) Discussion with the lava-users community regarding the rollback

Other topics

- Change TSC meeting management from Zoom to LFX
  - Now LFX meetings are much more stable than before, the LF request to move LFX meeting management to all LF hosted projects.
  - The advantage for that is we don't need to correct attendee list during the meeting.
  - Once we move LFX meeting management, the changes are the follows:
    - Encourage everyone to get an LFID.
    - However, you can log in without your LFID, using your name and email address (if you forget your LFID).
    - You will have the zoom link in your calendar, as usual. However, you can also log into your individual dashboard to find it at https://openprofile.dev. This is also where you will find the recording automatically.
  - MOTION: TSC try to create LFX meeting for next TSC meeting. If it success TSC move LFX meeting from direct Zoom meeting.
    - Second: Renesas
    - (Action: Neal) Create LFX meeting for the next TSC. Cancel current bi-weekly TSC.
- Event planning for 2024
  - (Soon) Embedded Open Source Summit NA 2024 (Apr 16-18, Seattle, USA)
    - Sponsor
    - F2F TSC?
  - DebConf 24 (Jul 28-Aug 4, Busan, Republic of Korea)
    - Sponsor
  - Open Source Summit Europe 2024 (Sep 16-18, Vienna, Austria)
    - Sponsor
    - F2F TSC?
  - Open Source Summit Japan 2024 (Might be the week of Dec 15-21, Tokyo, Japan)
    - Sponsor
    - F2F TSC?
  - (Action:Neal) Create a spreadsheet
  - (Action: All members) Please sign-up the spreadsheet
- (Action) Keep updated the status of CRA

Upcoming TSC meetings

- Regular TSC meeting
  - Date: 13th of February, 2024
  - Start time: 13h UTC. Local time in your timezone

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UTC    Tokyo  Taipei  Berlin  London  New_York  Los_Angeles
13:00  22:00  21:00   14:00   13:00   08:00     05:00
```

- 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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