CIP Technical Steering Committee Meeting

Date: 21st May 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

- BV meeting update (15th May)
    a. Total 15/52 requirements approved by BV so far for IEC-62443-4-1

Assignee	Started	Redy4Review	Complete	Not started	Pass
Dinesh	12	0	0	0	13
Stefan	0	0	0	7	2
George	6	0	0	5	0
Yobo	7	0	0	0	0
Total assigned	25	0	0	12	15

    b.
    c. Revised CIP IEC assessment schedule reviewed, no comments from BV
        - https://docs.google.com/spreadsheets/d/1A8VBLCg01tW2Xz_OBGV8ChdPz21r5y5N/edit#gid=699836056
        - SWG need to finish IEC-62443-4-1 remaining items by E/May to M/Jun
        - Targeting to initiate IEC-62443-4-2 assessment from B/Jun to M/Jun

d. Regarding essential package list decision for isar-cip core
    ■ SWG created complete list of packages and test evidence availability in Debian CI and individual package upstream tests and it's available here
        ● https://docs.google.com/spreadsheets/d/1rOHJUhUOa05Kkn4typfczSZTtKWc1YoL/edit#gid=32781124
    ■ BV suggested to do risk assessment for packages having no tests and proceed from IEC assessment perspective as adding tests would be time taking
    ■ Meanwhile SWG will continue to investigate how tests can be added for packages having no tests
e. By OSS-EU2024 (Sep-2024), assessment of CIP IEC-62443-4-1 will be completed and assessment for IEC-62443-4-2 would be in progress, SWG discussed with BV if we can include this announcement somewhere in CIP updates during OSS-EU and BV members are excited about it

● M-COM device setup update in Toshiba Bangalore
  a. We have received the adaptor today (05/21), will update further progress of booting 5.10 kernel image
      ■ Next we will try to boot M-COM image based on kernel 6.1
● SWG applied for two CFPs at OSS-EU 2024
  a. For Embedded Linux event
      ■ *Civil Infrastructure Platform (CIP) inching towards final IEC-62443-4-x compliance, updates and insights*
  b. For Linux security summit Europe
      ■ *Linux OS Security Hardening and Linux Kernel Security features for IEC-62443 Compliance*
  c. If anyone is interested to join as co-speaker please let me know after result announcement 🙂
● Action: Dinesh) Start discussion to place cip-core-ci repository currently located in cip-playground.
  a. The discussion is on-going and most likely it will be moved under isar-cip-core as suggested by Chris and Jan

Kernel Team Working Group

Items need to be approved by TSC voting members

● none

Status updates

● **CIP IRC weekly meeting**
  ○ Logs
      ■ May 9
      ■ May 16
● **CIP kernel releases**

- 4.4
  - v4.4.302-cip87 on May 8 by Ulrich
  - v4.4.302-cip87-rt49 on May 13 by Pavel
  - => all on schedule
- 4.19
  - none
  - => rt is late (upstream is late)
- 5.10
  - v5.10.216-cip47 on May 9 by Iwamatsu-san
  - => all on schedule
- 6.1
  - v6.1.90-cip20-rt11 on May 7 by Iwamatsu-san
  - => all on schedule
- **Ongoing work of unifying kernel configs**
  - Waiting for x86 config merge now (https://gitlab.com/cip-project/cip-kernel/cip-kernel-config/-/merge_requests/92)
  - Script shared as well (https://gitlab.com/cip-project/cip-kernel/cip-kernel-config/-/merge_requests/98)
- **No special news otherwise**

CIP Core Working Group

Items need to be approved by TSC voting members

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Past minutes

- past meetings

Status updates

- (WIP) Preparing isar-cip-core v1.4-rc1 release
  - Testing patches for isar that are necessary in isar-cip-core, see the detail
- Reproducible Builds for CIP Core image
  - Status: No open issue
  - (Done) Fetch Debian packages from snapshot instead of live mirror
    - The required update to use the snapshot in isar was imported in isar-cip-core
- CIP reference H/W support
  - (WIP) Support Plat'home OpenBlocks IoT VX2 & Siemens MCOM
    - The MR to add 5.10 kernel config for MCOM is merged, 6.1 is WIP
    - The MR to introduce "merged" kernel config for x86 targets is proposed and it's confirmed they are booting on QEMU
    - The revised patch to enable MCOM in isar-cip-core is shared by Benjamin
      - Will be merged once all features are verified on MCOM H/W

- - - ■ Toshiba (Bangalore) just received the power adapter today, will test the CIP Core image with MCOM
  - IEC 62443-4
    - ○ (WIP) Enabling backup & restore feature with duplicity in isar-cip-core
      - ■ For IEC 62443-4-2 CR 7.3 requirement
    - ○ (WIP) Handling the issue related to syslog-ng, tpm2-abrm detected in security image

CIP Testing Working Group

Items need to be approved by TSC voting members

- None

Status updates

- Neal/LF successfully applied for funding from the AWS open source program of $18k which *should* cover our CI costs for the year. This seems to be starting from b/May
- lab-cip-siemens-muc is still offline

Discussions

- None (?)

Software Update Working Group

Items need to be approved by TSC voting members

- None

Status updates

- wfx: Shared the things that the WG should work
  - ○ (1) Permanently run a wfx service (instance) in a CIP site (something like https://wfx.ciplatform.org/)
    - ■ Use the upstream docker image
    - ■ If CIP detects issues / missing functions, try to resolve them in upstream if possible
  - ○ (2) Run device update tests with wfx (DAU) for CIP Core image installed devices
    - ■ Update isar-cip-core recipes to configure wfx client
    - ■ Add test cases for LAVA to do device update through wfx server (1)
  - ○ (3)(Lower priority) Create an UI tool for wfx
    - ■ The first target is a ready-to-use UI for future CIP demos
    - ■ Stretch goal: Consider possibilities of providing an (flexible) UI tool that can be adapted to new/existing services in fields where no UI so far
  - ○ (4) Create an enhanced demo for OSS-EU 2024 using outputs of (1)(2)(3)
- Secure update framework (TUF)

- - - (WIP) Step 1: Updating cip-tuf-demo to include RS-TUF for TUF metadata and key management (The milestone changed: The step 1 will be finished around June)
  - Delta update
    - (Done) Enable building CIP Core images for delta update in CI
  - Test automation for software update using LAVA
    - (WIP) Considering moving cip-core-ci resources to isar-cip-core
    - (WIP) Create test results of SWUpdate & secure boot tests with SQUAD
      - A group and projects to host CIP Core test results on SQUAD are created
      - Developing CI functions to communicate with SQUAD

Other topics

- CIP Logo
  - CIP Logo ideal
  - Purpose: To make clear what CIP actually is. We would like to attract more members.
  - Idea:
    - Add Product logo to try to show Industrial Grade Linux.
    - Project logo emphasizes Civil Infrastructure Platform.
    - Please click here to review, and comment, on alternative logos.
    - (Action: Neal) Share the marketing meeting link to TSC members
- Event planning for 2024
  - DebConf 24 (Jul 28-Aug 4, Busan, Republic of Korea)
    - Sponsor : Yes (Silver)
  - Open Source Summit Europe 2024 (Sep 16-18, Vienna, Austria)
    - Sponsor : Silver
    - CIP will have Open TSC on 19th.
      - (NOTE) This will clash with Linux Plumbers Conference
  - Open Source Summit Japan 2024 (Might be in the October, Tokyo, Japan)
    - Sponsor: Silver
    - F2F TSC (Planned)
  - (Action: All members) Please sign-up the spreadsheet
  -
- (Action) Keep updated the status of CRA
- Firmware based TPM is in need of a new home, see https://github.com/microsoft/ms-tpm-20-ref/pull/97
  - Used as part of our generic secure boot pattern in isar-cip-core
  - Currently clarifying who else is interested (Linaro, former fTPM project at https://github.com/microsoft/MSRSec)
  - Not plan A (Trusted Firmware / OP-TEE stakeholders pick up), but maybe CIP could take over in order to fill the gap

Open TSC planning

- (DONE; Yoshi) Create more detailed plan for Open TSC meeting
- Drafted proposal:
  https://docs.google.com/document/d/1sySBwc-nSamz-QXWPLBtl-3NM835oP7rSnzzwrgHWVY/edit?usp=sharing
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Upcoming TSC meetings

- Regular TSC meeting
  - Date: 4th of June, 2024
  - Start time: 13h UTC. 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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