



CIP Core regular meeting

Date: February 2nd, 2021 (30min~1h)

Time:

- [timezones](#)
- Tokyo (Japan) 17:30
- Taipei (Taiwan) 16:30
- Bangalore (India - Karnataka) 14:00
- Frankfurt (Germany - Hesse) 10:30
- London (United Kingdom - England) 08:30

[Zoom](#)

[Dial-in numbers](#)

Meeting ID: 917 9128 4612

Passcode: 248841

[Past meetings](#)

Rules

- <http://www.linuxfoundation.org/antitrust-policy>
- Please mark with (PRIVATE) those parts that should not appear in the public version of these minutes.

Roll Call

Participants (*italic* means did not attend)

- Daniel Sangorrin [TOSHIBA]
- Kazuhiro Hayashi [TOSHIBA]
- Dinesh Kumar [TOSHIBA]
- Venkata [TOSHIBA]
- *Shivanand Kunijadar* [TOSHIBA]
- *Masato Minda* [Plat'Home]
- Chris Paterson [Renesas]
- *Hung Tran* [Renesas]
- *Minh Tran* [Renesas]
- *Nhat Thieu* [Renesas]

- Kento Yoshida [Renesas]
- Kazuhiro Fujita [Renesas]
- Christian Storm [Siemens]
- Hiraku Toyooka [Cybertrust]
- Sam Wilson [Codethink]
- Jan Kiszka [Siemens]
- Jonathan Sambrook [Codethink]
- Masashi Kudo [Cybertrust]
- SZ Lin [Moxa]

Discussion

Action items updates (2021/01/19~02/02)

- AI(Core group): use upstream kernel configs in ISAR
 - (Jan) [Who has a BBB and could complete this cleanup?](#)
 - (Quirin) will send a v2 patch for BBB that includes 4.4
 - <https://lore.kernel.org/cip-dev/f8f989ef-7ee2-42ee-a922-f53c6d2b07fe@siemens.com/T/#m4b75aee175603bd1f06a8eec2b47ac08bda85c5a>
- AI(Moxa): cip-kernel-sec MRs not working
 - [original report](#) by Jonathan Sambrook (codethink)
 - Post this issue to the gitlab forum
 - <https://forum.gitlab.com/t/500-error-when-creating-merge-requests/47830?fbclid=IwAR3zMh5e9TnkgZNYjaXtMdK-hJPao0eFwjxMXZZewpFkDFwi20Aa0Lp22U>
- AI (Security group): Investigate about static code analysis
 - No Update
 - Investigation for Threat Modelling and deciding CIP Core packages for Static Code Analysis is in progress
 - https://gitlab.com/cip-project/cip-security/iec_62443-4-x/-/issues/1
- AI (Security group): Explain about AIs from IEC-62443-4-1 Gap Assessment report
 - https://docs.google.com/spreadsheets/d/1-mj05sPY9JmESnPIhXKE_IcYjvoJcJ4TvTUCIIPPTs/edit#gid=0
 - Need to discuss in security WG and list AIs in gitlab
- No activity
 - AI(Daniel): prepare Debian repository for CIP Core (70%)
 - AI(Daniel): integrate [cip-core-sec](#) with ISAR gitlab-ci (80%)
 - AI(Kernel group): use CIP core preempt-rt.cfg fragments
 - AI(Security group): Investigate casync as an alternate for Duplicity in isar cip core
 - No update, need to discuss again in security WG for alternate of duplicity package
 - <https://gitlab.com/cip-security/document/-/issues/23>

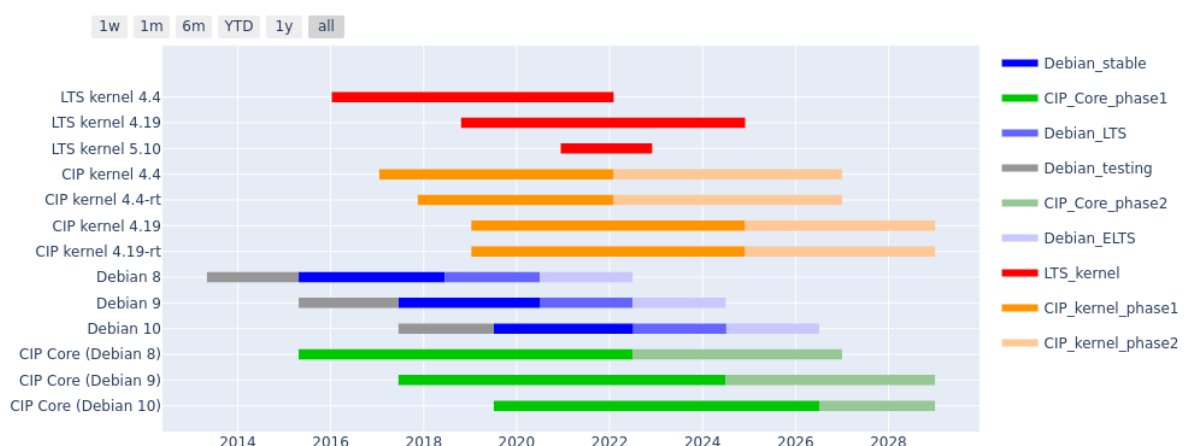
ISAR CIP Core changes

- **swupdate: Secure-boot fix paths**
 - recipe fix
- **secure-boot: Move image-uuid to own file**
 - use /etc/secureboot-image-uuid instead of /etc/os-release for storing the IMAGE_UUID (it could be silently overwritten by Debian packages otherwise)
 - This file will be parsed by the initramdisk on boot to decide what partition is the current one.
 - Daniel: I see a problem with this script and architecture. What if the filesystem is corrupt and can't be mounted?
 - A: they are RO so low risk, and if that happened it would be skipped
- **Use u-boot-config instead of tools**
 - Add the flag `USE\_U\_BOOT\_CONFIG` to deactivate the addition of 'u-boot-\${MACHINE}-config.' If the image uses an upstream u-boot binary (e.g. [1]) remove the package by setting `USE\_U\_BOOT\_CONFIG` to `false`.

Deby changes

- Implemented “bro” package required by CIP security WG
 - <https://github.com/meta-debian/meta-debian/issues/250>
 - Will be tested on target environment from security features perspective

CIP Core lifecycle



- Please review [CIP lifecycle information](#)
 - [Gantt chart](#)

- [Start date & end date of each project, especially CIP kernel and CIP Core](#)
 - NOTE: End date of CIP Core are aligned to end date of corresponding CIP kernel following the previous decision in TSC
- Others (YAML format, other tools than plotly, etc.)
- This repository is now in cip-playground, so need to ask TSC to move it to cip-project/cip-lifecycle

Debian versions maintained by CIP

- Debian 8 (jessie)
 - Current status:
 - Available in debby
 - 7 packages are requested to Debian ELTS
 - busybox, binutils, gcc-4.9(libgcc), glibc, openssl, openssh, shadow
 - Plan
 - CIP Core will maintain the 7 packages after Debian ELTS EOL
- **Debian 9 (stretch)**
 - Current status
 - Available in isar-cip-core
 - Q. Are any members requesting maintaining this version after ELTS EOL?
 - No members are using Debian 9 at the moment AFAIK
 - We cannot select what Debian release is maintained in ELTS
- Debian 10 (buster) = stable
 - Current status
 - Available in isar-cip-core, debby
 - Plan
 - CIP Core will maintain [the packages](#) decided through [PDP](#)
- **Debian 11 (bullseye)**
 - Current status
 - No decision
 - Q. Any requests about this version?
 - 1. Make it available in CIP Core reference implementation
 - 2. Maintain Debian packages (not decided yet) after ELTS EOL
 - It's difficult to make some decisions about this today because many things about the maintenance by CIP Core are still unclear, especially "how" and cost for that, which require more experiences and communications with Debian LTS/ELTS
 - Opinions
 - Siemens: +1
 - Toshiba: +1
- Next step: Action items
 - Send proposal for vote?

- Debian 9: CIP Core won't maintain Debian packages after ELTS EOL
 - Debian 11: Start adding reference implementation in cip-project/cip-core under the plan some Debian packages (defined by PDP) will be maintained by CIP Core after ELTS EOL
- tiny profile: decide what to do
 - requires developing the recipes again for meta-debian
- (Copied from the last meeting)
 - Q. When & how CIP will determine Debian versions that CIP will maintain?
 - Possible answer: As long as CIP Core has a package list to be maintained
 - Q. When CIP Core starts the discussion about CIP package list for newer Debian versions?
 - An idea: CIP Core checks the current opinion of each CIP member (periodically)
 - Selectable Debian versions: Maintained versions (Debian 8), stable(10), testing(11), sid(12)?
 - If one or more members have a concrete package list to be maintained, we can start the discussion even if the Debian version is "testing"
 - Concern: package versions in "testing" are not fixed before the freeze, is it possible to discuss without fixing package versions?

Software Updates WG

- Patches for ISAR CIP Core (see [next](#) branch)
- Christian Storm
 - published swupdate_handler.lua in gitlab cip-playground
 - <https://gitlab.com/cip-playground/swupdate-handler-roundrobin>
 - next step: review it by everyone
 - and then propose to make it official
- Daniel review of current handler
 - properties
 - https://gitlab.com/cip-project/cip-core/isar-cip-core/-/blob/next/recipes-core/swupdate/files/swupdate_handlers.lua#L346
 - no explanation about using an "archive" handler
 - https://gitlab.com/cip-project/cip-core/isar-cip-core/-/blob/next/recipes-core/swupdate/files/swupdate_handlers.lua#L96
 - round robin for rdiff_image requires to put the devices in opposite order. It is not clear from the commented documentation
 - https://gitlab.com/cip-project/cip-core/isar-cip-core/-/blob/next/recipes-core/swupdate/files/swupdate_handlers.lua#L101
 - Perhaps rdiffbase="sda5,sda4"; would be an easier example to understand
- Security analysis
 - No update

- Storm: we have already done some threat modeling, we can do it together

Q&A or comments

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Items that need approval by TSC voting members

None

Future topics

- SDK images