

FuSa SIG Oct, 8th 2019

Agenda items are added black.

Minutes are added in blue.

Closed ACTIONS in green.

Open ACTIONS in red.

A) Link to recorded sessions

No recording this time

B) Attendees (right now based on past attendees - delete/add as appropriate)

- ~~Antonio Priore~~
- **Julien Grall**
- ~~Robin Randhawa~~
- ~~George Dunlap~~
- **Lars Kurth**
- **Alex Agizim, Artem Mygaiev**
- **Kate Stewart**
- **Konishi-san, Munakata-san**
- ~~Francesco Rossi~~
- **Stefano Stabellini**
- ~~Piotr Serwa~~
- ~~Robert Heinen~~
- ~~David Ward~~
- ~~Claudio Gregorio~~
- ~~Christopher Zimmer~~
- ~~Vasco Fachin~~

Above is a list of past regular attendees. UPDATE

C.1) Actions ongoing or recently closed

High: Lars to kick off a thread on xen-devel@ and come to a conclusion (done, but no conclusion as yet)

See <https://markmail.org/message/za465lrrb7waman4>

No conclusion yet, will probably not be closed for 2-3 weeks

But I believe we may have a workable proposal (plus a fallback around CC0)

Medium-High: Antonio to provide a sanitized example of safety docs (including requirements) for system software that we can use as an example

Has been started within Arm

C.2) Actions not yet resolved

High: Francesco to publish sanitized version of ISO2626 sheets

High: Artem will send part 2 of ISO2626 customization example to the group

High: Artem, Francesco, Lars and Artem to discuss what skills we need in a sub-group to drive progress on ISO2626 customization and see how we can make this happen

My proposal would be:

- **Process stake-holders:** Francesco, Lars, Artem and maybe Stefano for anything related to process. George is a little overloaded ATM
- **Technical stake-holders:** Francesco, Lars, Artem and either Julien (if he has time) & Stefano as technology consultants. If neither can do this, we will have to find someone else, which may be challenging

High: Francesco's team to double check MISRA results and later share with group

Medium: Lars to put together a proposal on coding standards and checking tools as a test-case for MISRA

Lars: Have not had time to do this yet and wont be able to do so in the next 2 weeks
Will make a concrete test/proposal case for **CERT EXP19-C/MISRA C:2012, 15.6** in the next meeting

Low-Medium: Julien to talk to Lava owner on state and usability

Julien: I spoke with one of the Lava owner last Friday. It looks like they have done some works to use QEMU and KVM in Lava 2 a couple of years ago. We could possibly re-use what has been done for Xen. I haven't had yet the chance to speak with Wookey who did the work.

D) Proposed Agenda Items

1. Update on Linaro Connect (Stefano)

Linaro connect, SGX Forum XILINX: Arm presented their automotive refence architecture. Xen is part of the reference architecture on all the slides
There was discussion about an automotive group: nothing is official at this stage
Interfaces are the key thing: Julien raises the point that we should not standardize the existing unreviewed interfaces
Hyperface call interface is one set of interfaces we need to document
Before HC, we have to look at memory map, discovery of devices, ...
Need to document which of the devices are available, etc.

Stefano makes the case that documentation and compatibility promises are very different

Artem: makes the case that we should set a process in place to discuss/agree ABI changes

2. Build of Xen Safety compiler (Artem)

Matt has provided EPAM to compile Xen for safety Arm compiler 6.6

Have created some build system hacks to build it (based a series of Julien)

Can build and run smoketests

Cleaning it up: identifying what is a Xen/compiler issue

We need to upstream and make the compiler available to outside users (e.g. via CI)

ACTION: EPAM to follow up with Arm

Validas has done work with GCC and the tool qualification approach is much narrower than what is needed for safety

3. License for docs artefacts (Lars)

Stefano: CC-BY-4 would be ideal - but there is the issue of copying from/to GPLv2 source code

Small enough snippets are OK: <https://www.gnu.org/licenses/gpl-faq.en.html#SourceCodeInDocumentation>

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E) AOB

1. Call in 2 weeks should be fine