



ELISA
Enabling **Linux** in
Safety Applications

WORKSHOP

ELISA Workshop Munich, Germany

November 18-20, 2025
Co-hosted with Red Hat



Elisa CI and meta-elisa



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whoami

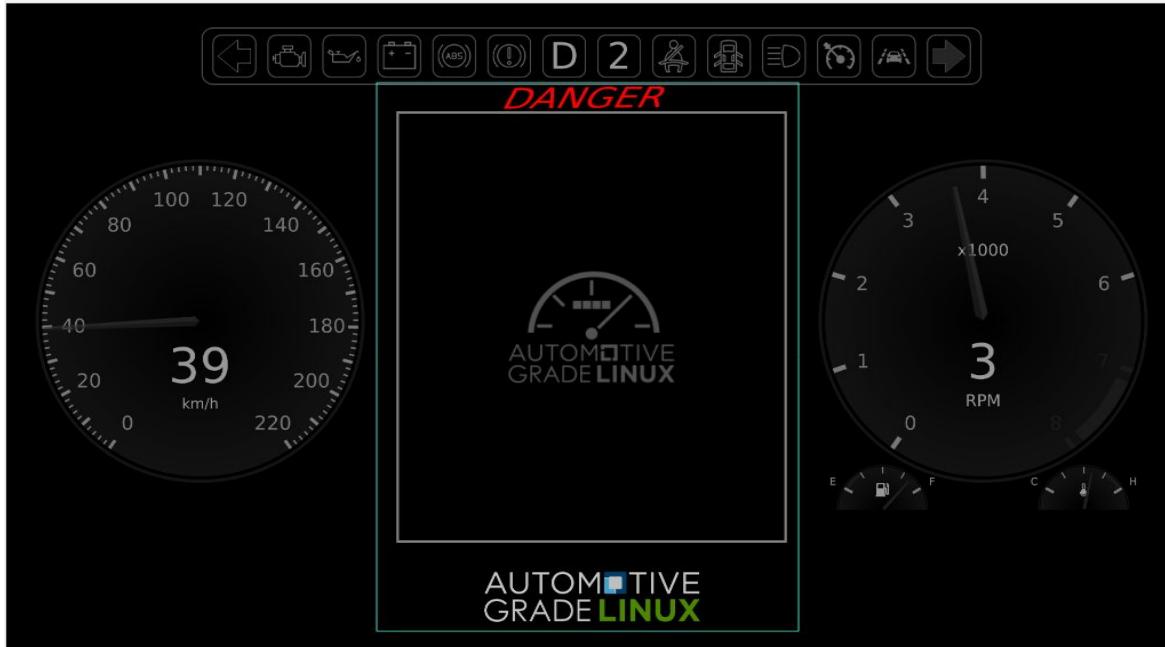
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- Ubuntu CoreDev (sudip@ubuntu.com)
- Elisa TSC member
- Elisa Ambassador

meta-elisa

- What is meta-elisa?
- Automotive WG
- Automotive WG Demo app
 - <https://github.com/elisa-tech/meta-elisa.git>

Automotive WG Demo app



meta-elisa-ci

- Reports of build setup problems
- docker
 - https://github.com/elisa-tech/wg-automotive/tree/master/Docker_container

Setup step (the easy way):

```
$ setup_elisa.sh  
$ cd home/AGL/needlefish/
```

meta-elisa-ci

Setup step (the expert way):

From AGL:

```
$ export AGL_TOP=$HOME/AGL
$ echo 'export AGL_TOP=$HOME/AGL' >> $HOME/.bashrc
$ mkdir -p $AGL_TOP
$ mkdir -p $HOME/bin
$ export PATH=$HOME/bin:$PATH
$ echo 'export PATH=$HOME/bin:$PATH' >> $HOME/.bashrc
$ curl https://storage.googleapis.com/git-repo-downloads/repo > $HOME/bin/repo
$ chmod a+x $HOME/bin/repo
$ cd $AGL_TOP
$ mkdir needlefish
$ cd needlefish
```

The next two commands (Setting your name and email address for use by GIT) are not documented in AGL but needed before

```
$ git config --global user.email "you@example.com"
$ git config --global user.name "Your Name"
```

Replace the above examples with your actual email and name.

Last two commands from AGL:

```
-----
$ repo init -b needlefish -u https://gerrit.automotivelinux.org/gerrit/AGL/AGL-repo
$ repo sync
```

Instructions from Elisa:

```
-----
$ git clone https://github.com/elisa-tech/meta-elisa.git
```

meta-elisa-ci

- Reports of build failures
- CI was born
 - <https://gitlab.com/elisa-tech/meta-elisa-ci>

meta-elisa-ci

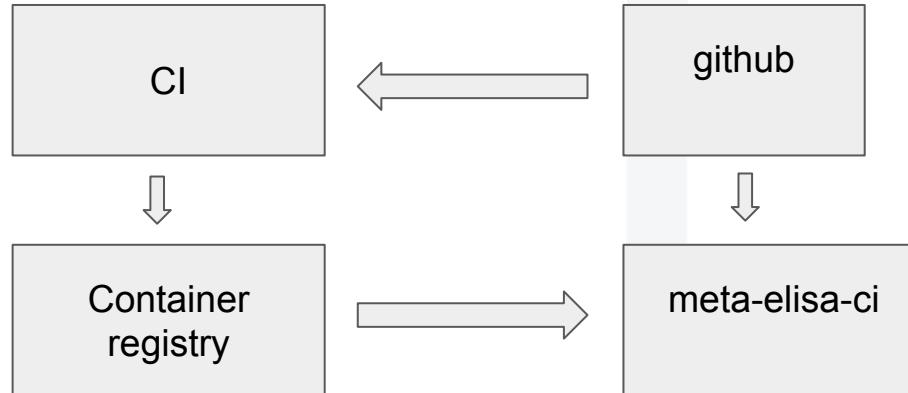
- More reports of build failures
 - Due to resource usage
- Yocto → sstate-cache
- Dedicated server as runner
 - Persistent folder as cache
 - Exported as web folder

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- Update SSTATE_MIRRORS
- echo "SSTATE_MIRRORS += \"file://.*
[https://elisa-builder-00.iol.unh.edu/sstate/needlefish/PATH\""">">>> conf/local.conf](https://elisa-builder-00.iol.unh.edu/sstate/needlefish/PATH\)
- Hash Server

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- Back to docker
 - <https://gitlab.com/elisa-tech/docker-image>



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- More Failures
- Caused by AGL change
 - Change in CAN signals
- More CI added
 - Runs the built image in CI
 - Runs in openQA

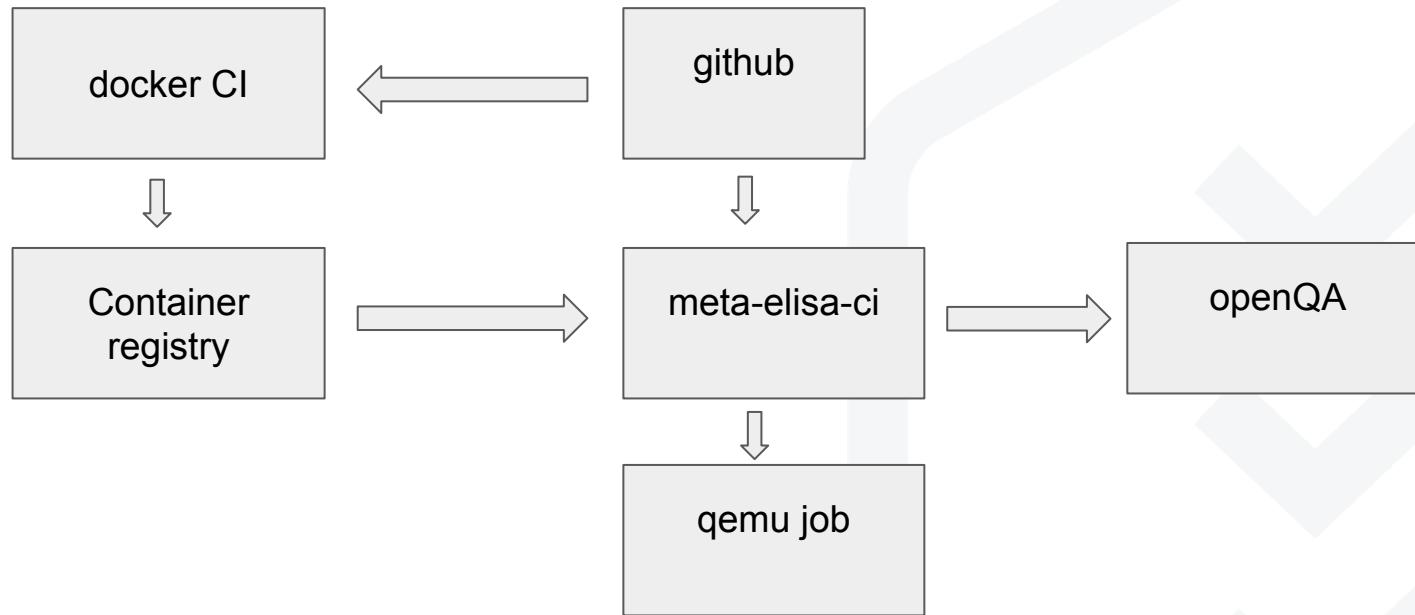
<https://openqa.qa.codethink.co.uk/tests/2440#step/safety/1>

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Current status:

- ★ CI is working
- ★ docker image build is failing - PR pending
- ★ demo app is failing - PR pending to update AGL

Summary of CI



WG in CI

> ⚙️  aero-wg 🌐



⌚ A Aero Wg Ci 🌐



⌚ D docker-image 🌐



⌚ E Elisa Syzkaller 🌐

⌚ M medical-wg-ci 🌐

⌚ M meta-elisa-ci 🌐

⌚ S systems-wg-ci 🌐

⌚ D demo-cert-linux 🌐

⌚ D demo-cert-xen 🌐

⌚ L Libc Test 🌐

⌚ M Musl 🌐

⌚ X Xen 🌐

⌚ X Xen Integration 🌐



Questions !

