



# GENIVI Development Platform (GDP)

## Project update and technical overview

Automotive Linux Summit  
2016/07/13

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Codethink Ltd



# The speaker: Agustín Benito Bethencourt (toscalix)

- At GENIVI Alliance.
  - Codethink representative.
  - GDP Delivery Team Lead
  - Tools Team Expert Group Coordinator.
- At Linux Foundation:
  - Codethink representative.
  - AGL's CIAT group member.
  - CIP member.
- Principal Consultant - FOSS at [Codethink Ltd](http://www.codethink.com)
- Based in Málaga, Spain.
- Experienced managing FOSS & distributed projects in the open.
- More: <http://www.toscalix.com>



# Who is the GENIVI Alliance

The GENIVI Alliance Community is currently represented by 140 member companies...

... committed to driving the broad adoption of specified, Open Source, In-Vehicle Infotainment software.

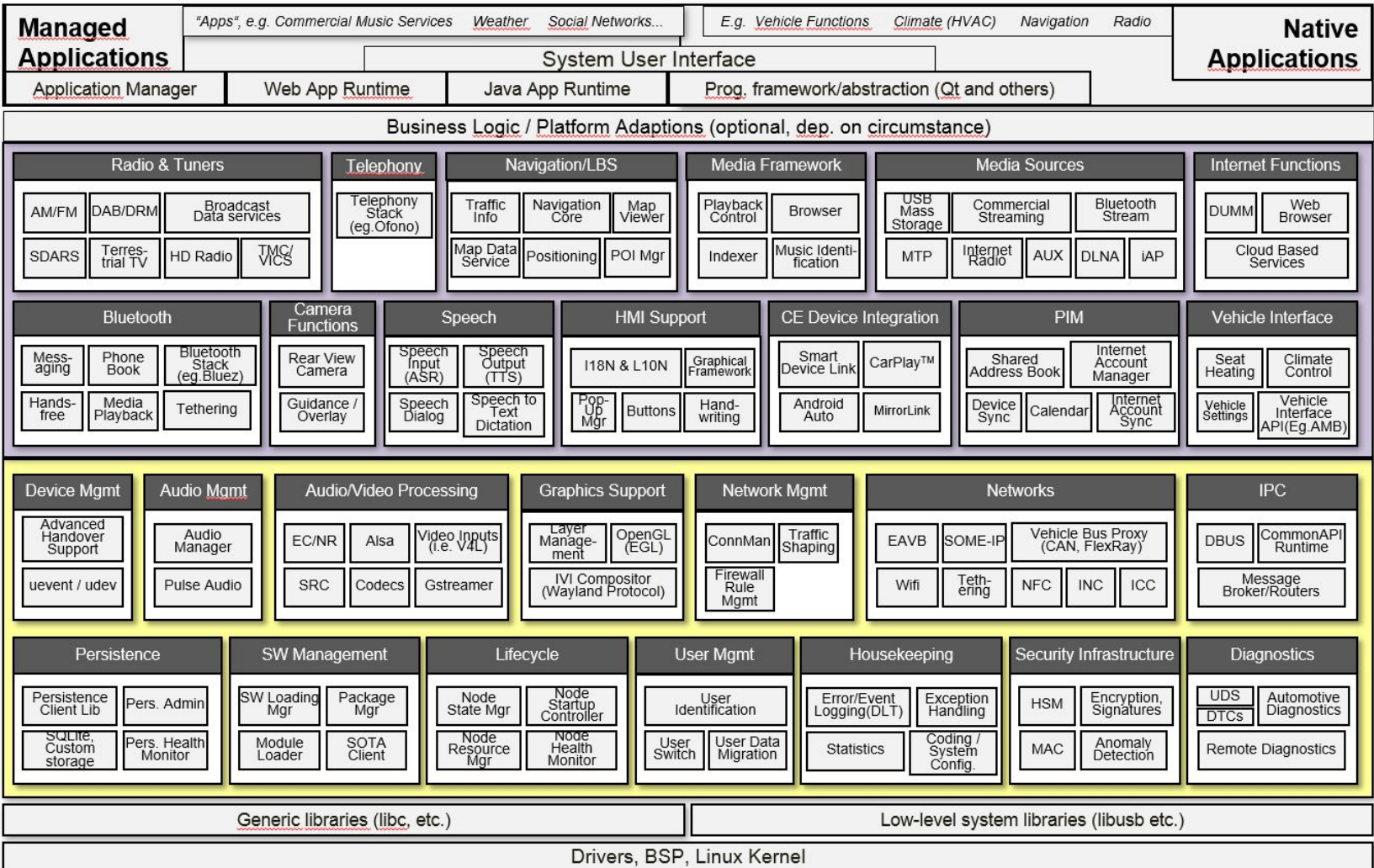


# What does GENIVI Alliance do?

- A. Develop and deliver Open Source IVI middleware which scope is non-differentiating elements.
  - a. Individual software components and standard interfaces/APIs
  - b. A flexible technical architecture
  - c. Pre-integrated, reusable IVI software platform.
- B. Best practices and tools to ensure deployments when using GENIVI's IVI middleware.

GENIVI Alliance is the home of a variety of automotive FOSS projects.

- Software development projects: Expert Groups
- Integration and delivery projects:
  - Baseline (meta-ivi): focus on product compliance/certification.
  - **GENIVI Development Platform (GDP):** focused on innovation/developers.



# Why GDP?

1. Develop and deliver key automotive-specific software components together with industry experts.
2. Rapid prototyping/demo your automotive applications.
3. Become part of a disruptive change in automotive.
4. For some of the components that GDP ships, GENIVI is upstream.

## GENIVI Development Platform:

- Open Source project done “in the open” for developers.
- Delivery project.
- QEMU and several boards as targets.
- Includes meta-ivi (Baseline).
- Yocto (poky) and Baseroack (future) based.



## GDP Master

- Rolling release with the latest integrated software.
- Target FOSS automotive devs. & GDP hackers/contributors.

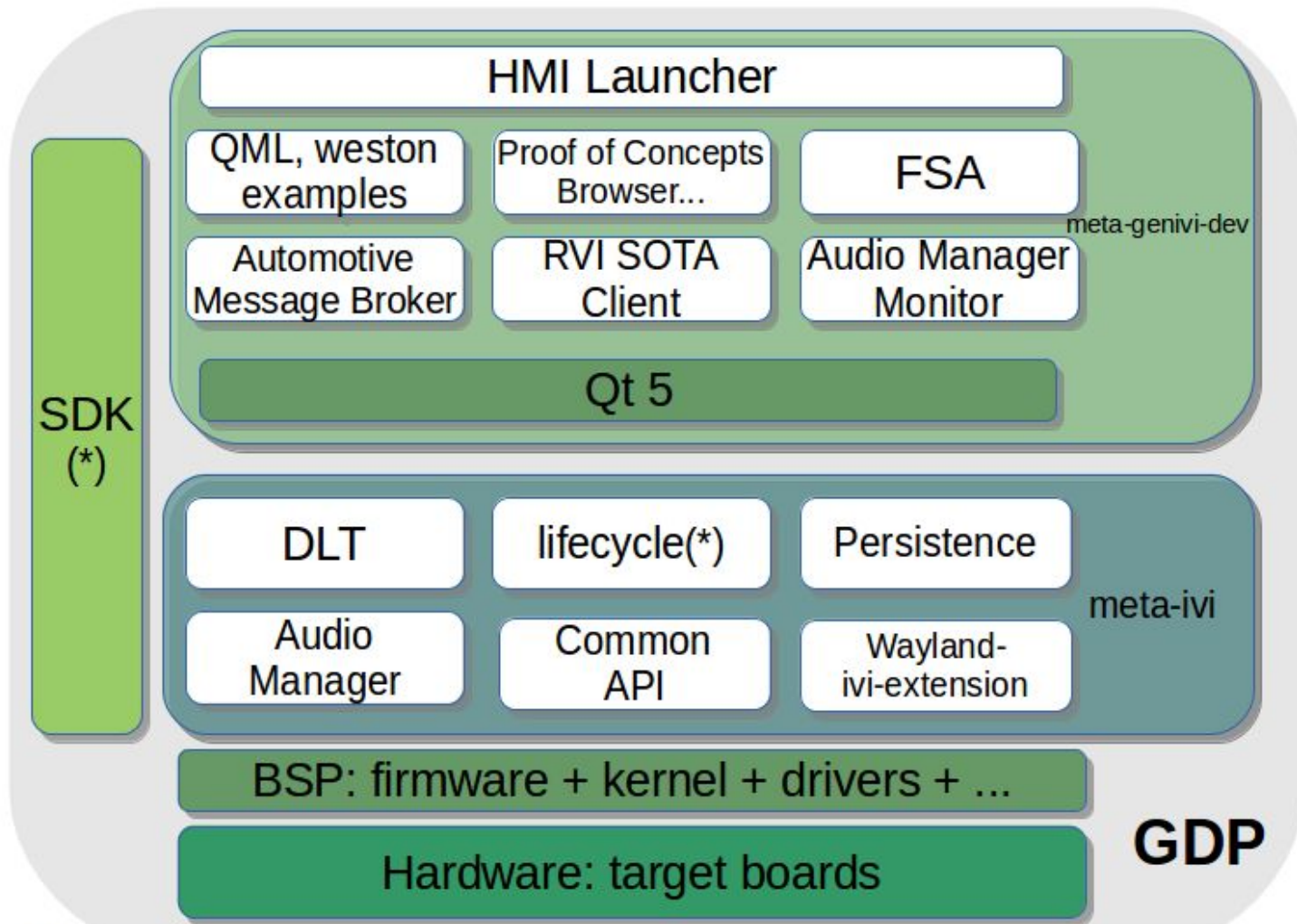
## GDP releases

- GDP-ivi9 is the latest major release. GDP 11 in Oct. 2016!!!
- Target automotive UI and app developers (users).

# What is GDP-ivi9

- [Released](#) on April 19<sup>th</sup> 2016.
- [Targets](#):
  - QEMU, Renesas Porter, RPi2 & Intel Minnowboard.
- Check [the feature](#) page for highlights.
- [Download](#) GDP-ivi9

GDP [block diagram](#)...



(\*) Not available yet in GDP

## Delivery

- GDP maintainers
  - **Changhyeok Bae**, community.
  - **Robert Marshall**, Codethink Ltd.
  - **Tom Pollard**, Codethink Ltd.
- Other key people:
  - Meta-ivi & Renesas BSP maintainers, community management, devops/IT service, PMO, delivery team lead, GENIVI architect, LRT team ...

## Development

- GENIVI Expert Groups
- Community contributors

## Tools GDP project uses today:

- [GitHub](#): git repositories and code review.
- [JIRA](#): bug tracker and task management tool.
- [Confluence](#): wiki.
- [go.cd](#): integration/delivery mgnt.
- [Mailman](#): genivi-projects@lists.genivi.org
- IRC: #automotive at irc.freenode.net

## Next:

- Download infrastructure, analytics, test automation...

- GDP 11:
  - To be released early in Oct. 2016
  - Based in Yocto 2.1, Qt 5.6 + meta-ivi 11
  - [Targets](#): QEMU, Renesas Porter & Silk, RPi2 and 3 & Intel Minnowboard...
  - Hands on Sessions at [GENIVI 15<sup>th</sup> AMM](#): San Francisco, CA, US in Oct
- Improvements:
  - Acceptance tests.
  - Commit stage: pre-integration.
  - Shorter feedback loop with GENIVI developers (Expert Groups).

But above all...

More focus on automotive developers.

Check the latest GDP [news](#).



# Interesting links

- [www.genivi.org](http://www.genivi.org)
  - GENIVI [FAQ](#)
  - [Projects.genivi.org](http://Projects.genivi.org)
  - GDP latests [GDP news](#)
- [GDP Master](#)
  - [genivi-dev-platform](#)
  - [meta-genivi-dev](#)
- [Download GDP-ivi9](#)
- [Get involved:](#)
  - Get [the sources](#)
  - Contribution [policies](#)
  - Report [bugs](#)
- Follow up
  - Delivery status [reports](#)
  - [GDP overview](#) (weekly)
  - GDP [Out There](#)

# Questions?

