

Baseline Integration Team Update 22/10/2016 | Planners and Engineers Baselin

Stephen Lawrence Baseline Integration Team Co-Lead Renesas Electronics

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- Overview
- Baseline Status
- GENIVI Demo Platform Status
- BIT Roadmap
- Q&A / Open Discussion



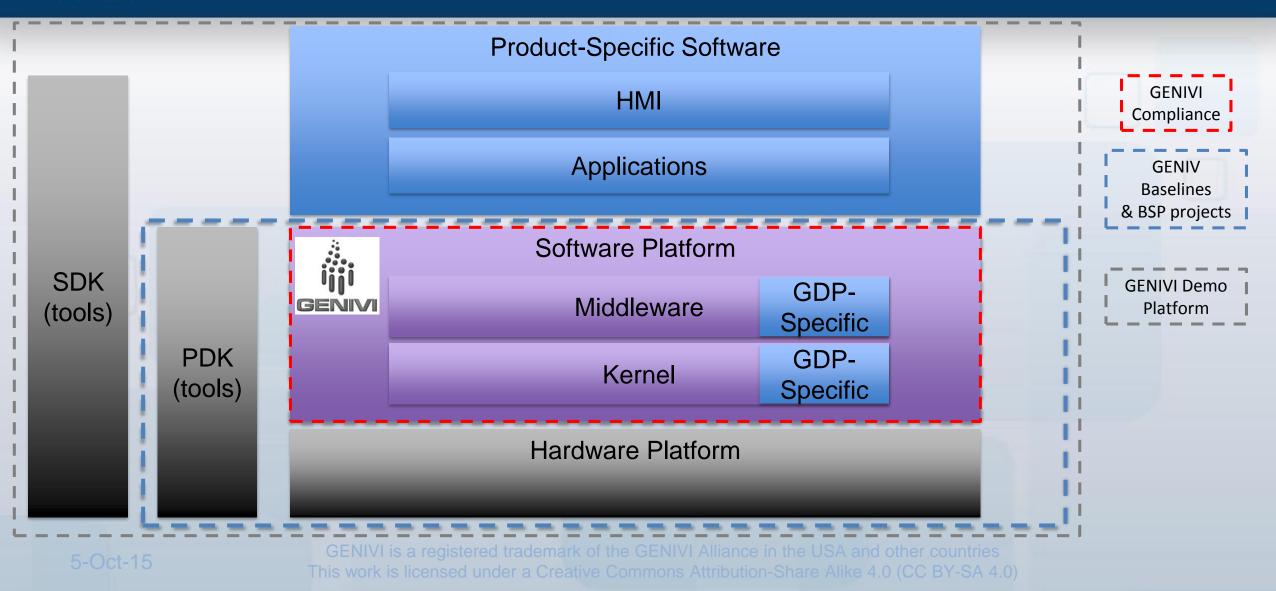
Baseline Integration Team deliverables

- GENIVI Baselines
 - A GENIVI Baseline is a software platform meant to verify the compliance and offer a maintained minimal software platform to the developers.
 - The baseline is used as a reference to integrate the GENIVI SW components
- GENIVI BSP(s)
 - A GENIVI BSP is a public hardware BSP integrated with a GENIVI baseline to meet the GENIVI compliance and that meets the BIT BSP contribution guidelines.
- GENIVI Demo Platform
 - The GENIVI Demo Platform is a public OSS distribution providing a demonstration of the GENIVI software and design on real or emulated hardware
 - The GENIVI Demo platform is delivered with an SDK enabling software developers

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Baseline Integration Team scope





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BIT Organization

BIT lead:

Frédéric Bourcier (Wind River): currently on leave of absence

- Define, develop and follow the GENIVI integration process
- Plan the releases
- Report to PMO
- Organize the BIT activities
- BIT Co-Lead:

Stephen Lawrence (Renesas)

- First escalation point for technical integration issues
- Facilitates the technical link between Baselines and EGs
- Represent the BIT for technical matters
- Act as BIT lead when needed

Baseline Maintainers:

Joh Yong-II (Tolkien) (Yocto - Wind River) Pedro Alvarez (Baserock - Codethink)

- Manages the releases of a Baseline
- Integrates and maintain the Baseline
- GDP Maintainer:
 - TBC
 - Manages the releases of a Baseline
 - Integrates and maintain the Baseline

GENIVI BIT Team Lead Team co-lead Genivi Demo Platform **Observers & Participants** Baseline 1 Baseline 2 Release Manager Project Lead BSP#1 maintainer Observer 1 Baseline Maintainer BSP#2 maintainer Maintainer Observer 2 BSP#1 maintainer **Baseline Maintainer** BSP#1 maintainer Observer 3 BSP#2 maintainer Release Manager BSP#2 maintainer

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BASELINE STATUS

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GENIVI baselines

- Latest Release
 - K-1.0 Kronos release candidate aligned with GENIVI 9.0 compliance
- Track Record
 - Since 2012 !!!
 - Every 6 weeks release cycle
- New release process
 - Improve baselines roadmap readability (release tables)
 - Facilitates the discussion with the EG leads and the OS maintainers



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Hardware support: GENIVI BSP program

6 Hardware targets are supported for J-1.0

- ARM v7 QEMU
- x86 QEMU
- x86 64 QEMU



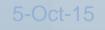
- Renesas R-Car M2 Porter Low Cost Board
- Renesas R-Car M2 Koelsch, E2 Alt, H2 Lager Evaluation Boards
- Intel Minnowboard Max
- x86 64
- nVIDIA Jetson TK1



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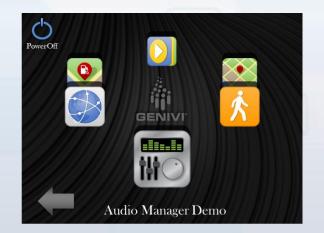
GENIVI DEMO PLATFORM STATUS

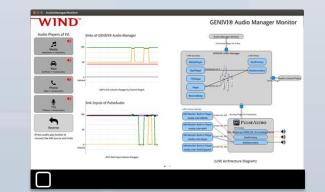




Improvements since Last AMM

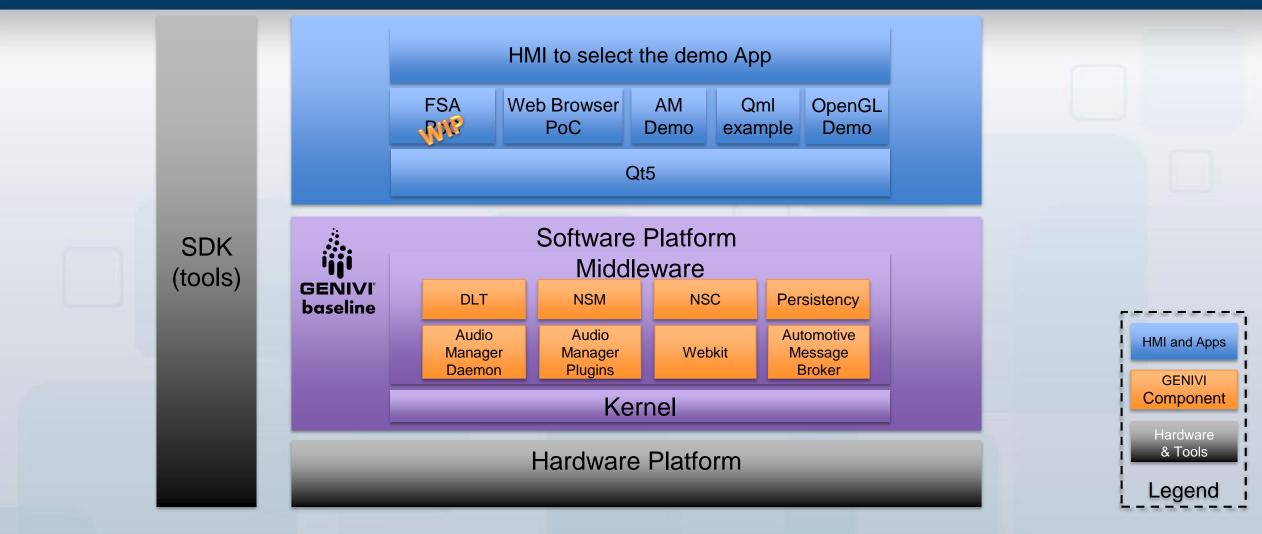
- Stabilization improvements
- Simpler build setup
 - Git submodules used for layer checkout
- Fuel Stop Advisor PoC in process of being integrated
- Google Android Auto close to integration
- Support of Renesas R-Car E2 Silk Low Cost Board
- Support of Intel VTC 1010
- Genivi 8 branch







The current picture



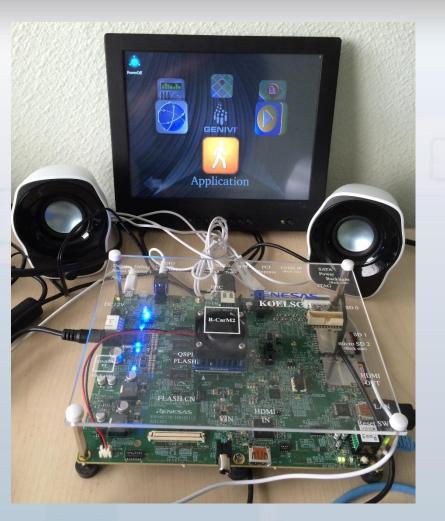
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GENIVI demo Platform live!

Get Started with GENIVI Demo Platform

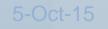
- Documentation: <u>http://wiki.projects.genivi.org/index.</u> <u>php/GENIVI_Demo_Platform</u>
- Yocto GDP: <u>http://git.projects.genivi.org/?p=met</u> <u>a-genivi-demo.git</u>
- Baserock GDP: <u>http://wiki.projects.genivi.org/index.</u> <u>php/GENIVI_Demo_Platform#Base</u> rock_Baseline



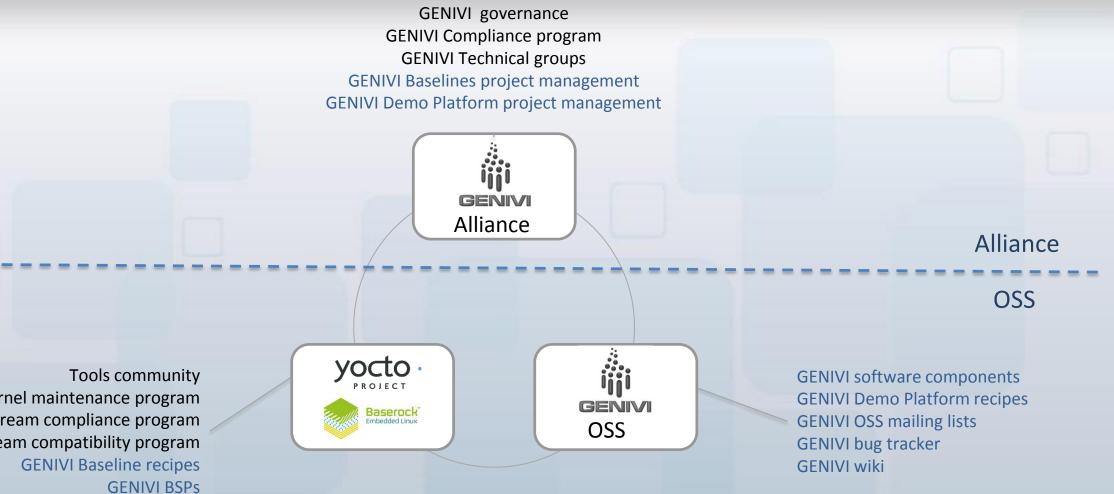


BIT ROADMAP

Baselines, BSPs, GENIVI Demo Platform







Kernel maintenance program Upstream compliance program Upstream compatibility program

GENIVI



BIT Roadmap management

- Who influences the roadmap?
 - GENIVI members
 - GENIVI executives
 - GENIVI BIT
 - OSS developers
- Who decides the roadmap?
 - GENIVI SAT
 - GENIVI BIT
- Who executes the roadmap?
 - Baseline maintainers
 - GENIVI Demo Platform maintainers
 - OSS contributors

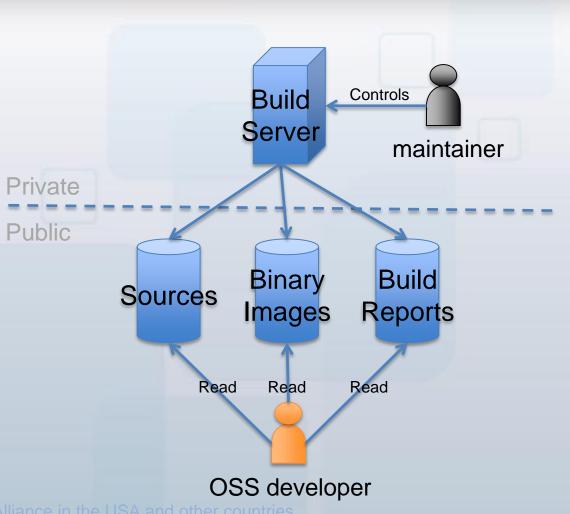




Public binary images and source code repos

- Problem to solve
 - Accessing GDP or baselines requires time to build the distribution, such step should not be avoided to target certain types do developers
- Proposal for both GDP and baselines
 - Build server under maintainer control
 - Source server publicly accessible
 - Binary image publicly available

This Solution is under discussion with the license review team

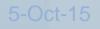


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The GDP roadmap

- Proposed Applications
 - GENIVI FSA Demo integration
 - Google AAP Demo integration
- Middleware and Infrastructure
 - Upgrade to Genivi 8 (Jupiter)
 - Upgrade to Genivi 9 (Kronos)
 - Navigation data partition for Navit (and FSA)
 - Better support for SI components
- BSPs
 - Additional BSPs
- Packaging
 - Binary distribution improvement







Baseline Automated Testing

- Goal:
 - Improve GENIVI software quality
 - Define and deploying baseline validation process
- How
 - Collect the GENIVI test software into a GENIVI test suite
 - Integrate it with a test framework

To achieve this, the BIT needs to grow in resources.

We look for individuals willing to contribute tests, or to select and integrate the test framework.

If you are interested, please contact the BIT lead or write to genivi-projects mailing list!

BIT NEEDS YOU !!

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Coordination with the GENIVI Tools Team

Mission

 <u>Tools Team</u> coordinates the activities on selection, adoption, adaptation, creation and maintenance of the tools that help making the GENIVI development activities more efficient.

Scope

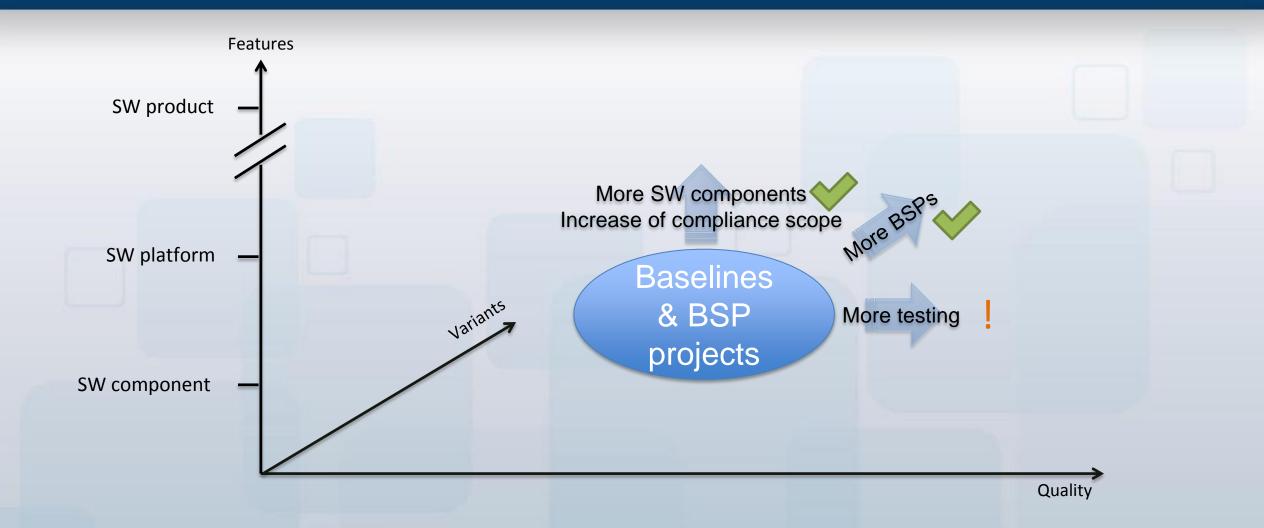
- Tools for building software
- Tools for UML modeling
- Tools for debugging and analysis
- Tools for automated testing

- BIT and Tools Team will interface to discuss topics such as
 - GENIVI Demo Platform SDK
 - GENIVI Baselines automated testing
 - Common API workflow for baseline builds

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Baseline Integration Team Vision



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