# Baseline Integration Team Intro

22/10/2016  | Planners and Engineers

Stephen Lawrence
Baseline Integration Team Co-Lead
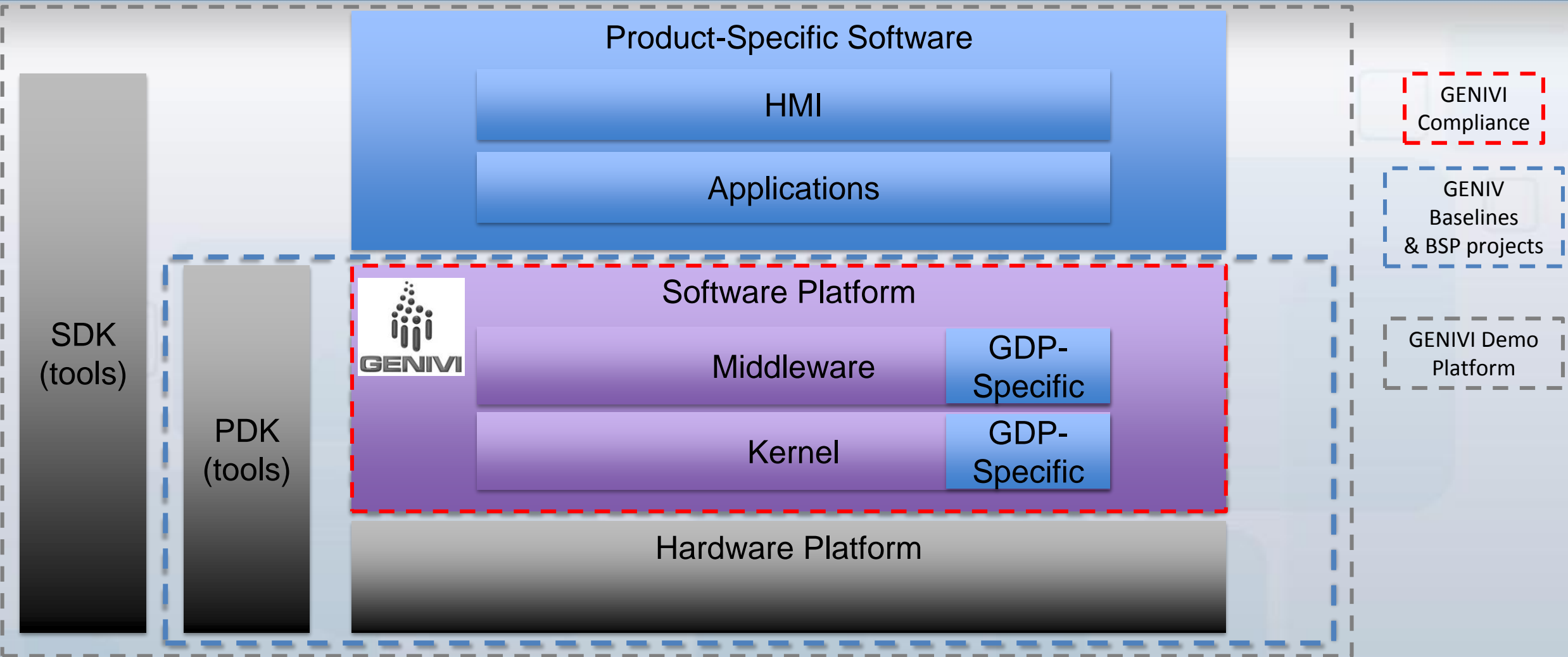Renesas Electronics

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# Topics

- 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.

# Baseline Integration Team scope
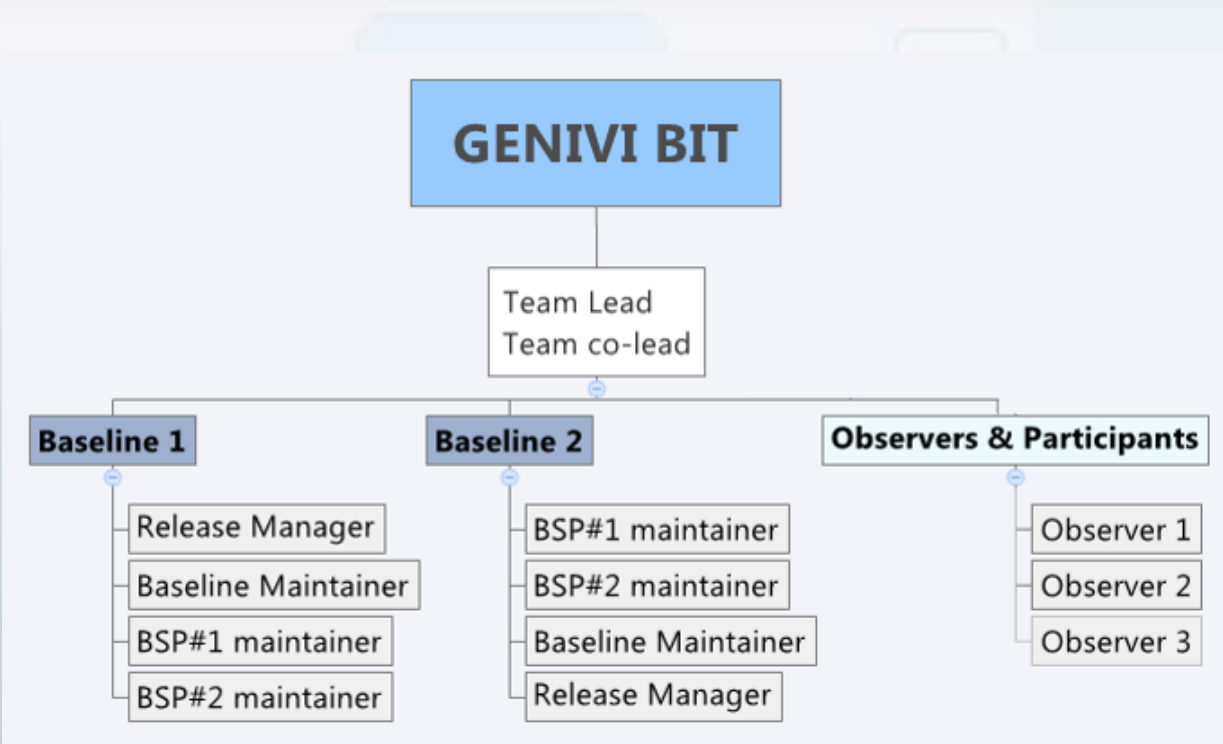


Product-Specific Software

HMI

Applications

GENIVI Compliance

GENIV Baselines & BSP projects

SDK (tools)

PDK (tools)

Software Platform

Middleware

GDP-Specific

Kernel

GDP-Specific

GENIVI Demo Platform

Hardware Platform

# BIT Organization

- **BIT lead:**
  **Stephen Lawrence (Acting)**
  - 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:**
  Yocto Baseline: Joh Yong-Il (Tolkien) (Wind River)
  Baserock Baseline: Pedro Alvarez (Codethink)
  - Manages the releases of a Baseline
  - Integrates and maintain the Baseline

# BASELINE STATUS

- Latest Release
  - L-1.0 Leviathan release candidate aligned with GENIVI 10.0 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

## 8 Hardware targets are supported for K-1.0

- – ARM v7 - QEMU
- – x86 – QEMU
- – x86 64 - QEMU
- – Renesas R-Car M2 Porter, E2 Silk Low Cost Board
- – Renesas R-Car M2 Koelsch, E2 Alt, H2 Lager Evaluation Boards
- – Intel Minnowboard Max
- – Raspberry Pi

**yocto** PROJECT

- – x86 64
- – Nvidia Jetson TK1

**Baserock** Embedded Linux
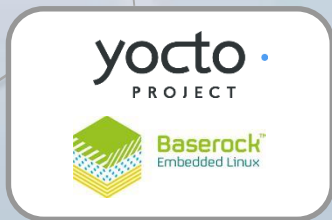
# BIT ROADMAP

Baselines, BSPs, GENIVI Demo Platform

27/04/2016

# BIT Ecosystem: 90% OSS

GENIVI  governance
GENIVI Compliance program
GENIVI Technical groups
GENIVI Baselines project management

**Alliance**

Alliance
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
OSS

Tools community
Kernel maintenance program
Upstream compliance program
Upstream compatibility program
GENIVI Baseline recipes
GENIVI BSPs

**OSS**

GENIVI Demo Platform project management
GENIVI software components
GENIVI Demo Platform recipes
GENIVI OSS mailing lists
GENIVI bug tracker
GENIVI wiki

27/04/2016

# 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

# Coordination with the GENIVI Tools Teams

- **Mission**
  - [Tools Team](Tools Team) 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

# Baseline Integration Team Vision



Features

SW product

SW platform

SW component

Variants

More SW components
Increase of compliance scope ✓

More BSPs ✓

Baselines
& BSP
projects

More testing !

Quality