

Welcome to the GENIVI Open Source Projects Wiki



For a steady stream of announcements and updates from the alliance, visit our [Blog](#).

A full set of recent deliverables from active GENIVI Projects were shown during the GENIVI CES 2020 Showcase and Reception. Electronic links to these documents can be found [here](#).

Review the latest deliverables from GENIVI active projects, all GENIVI has expanded its scope from its strength in Linux-based IVI and automotive open source software to focus on helping automakers integrate the multiple operating systems present in the centralized and connected cockpit. We call this new strategy **Multi-OS Integration**.

[Vehicle E/E and software architecture trends](#) have led GENIVI to advance into concepts of central domain ECUs, cross domain ECUs (domain fusion) and eventually to a vehicle computer approach. Longer-term, GENIVI is also exploring [vehicle cloud computing and connected services](#).

New projects launched in this Multi-OS integration scope include:

- [Android™ Automotive Special Interest Group \(SIG\)](#)
- [Cloud and Connected Services](#).

Work done in late 2017 and throughout 2018 in what GENIVI called [domain interaction projects](#) laid a strong foundation for this new multi-OS integration scope

For bug & project tracking, use [JIRA](#)

Login account

The account creation process is back to normal and you may again use the [JIRA application to create a login account](#) for this public infrastructure. This login allow you to participate and edit information in both JIRA and Confluence (Wiki). If your company is a GENIVI member you can email the GENIVI helpdesk (help -@- genivi.org), *after* your login is working, to have this added to your account.

[Nicholas Contino](#) (GENIVI IT) and [Gunnar Andersson](#) (Development Lead) are also available to help you if you have any questions.

Multi-OS Integration Work

- [CES 2020 Deliverables](#)
- [Android™ Automotive SIG Project](#)
- [Multi-OS Integration Project](#)
- [Domain Integration Projects Description](#)
 - [How to join - Quick links: \[AASIG\], \[CCS\], \[HV\], \[GSHA\], \[GPRO\], \[SHDA\]](#)
- [Technology Briefs and Whitepapers](#)
 - [Ramses case study : Distributed Graphics Control Through API Remoting](#)
 - [tech brief](#)
 - [code](#)

Architecture

- [Overview of Reference Architecture](#) - (You may want to start at the *beginning* of the [GENIVI Resource Kit](#))

Software Components and Standard Interfaces/APIs

- [IPC CommonAPI C++](#)
- [vSomeIP](#)
- [Diagnostic Log-and-Trace](#)
- [Vehicle Signal Specification](#)
- [...more](#)

Platforms/Baselines

expansion. The following domain interaction projects are active and have relevance in the new integration scope:

- [Graphics Sharing & Distributed HMI](#)
- [Advanced Hypervisor APIs](#)
- [Generic Communication Protocols](#).

Some *quick to read* and interesting results are published as [Technology Briefs and Whitepapers](#).

The [GENIVI Security Team](#) is actively exploring ways to make vehicle software systems more secure against threats and hacks of all types.

GENIVI continues to provide a [baseline](#) for [GENIVI Compliant™ IVI platforms](#) and the [GENIVI Development Platform \(GDP\)](#) will remain accessible for demonstrators and other code development activities.

GENIVI continues to host a number of IVI software components in our [github repository](#).

For more information on engaging in GENIVI, please contact help@genivi.org or visit www.genivi.org.

- [Yocto Baseline \(meta-ivi\)](#)

Demonstrators, development, and tooling

- [GENIVI Development Platform Tools Team](#)

How-Tos, tutorials and other instruction

- [For Maintainers](#)
- [Propose a project](#)
- [Submit code](#)
- [Create a recipe for inclusion in the baseline](#)
- [Google Summer of Code 2018 instructions and ideas](#)