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.

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++
- vSomelIP
- 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.