Welcome to the GENIVI Open Source Projects Wiki

For bug & project tracking, use JIRA

Blog Posts

- Blog: GENIVI looks forward to a Common Vehicle Interface Initiative created by Philippe Robin
  Wiki Front Page Apr 27, 2020

- Blog: GENIVI Virtual Technical Summit Program Announced and Registration Open created by Steve Crumb
  Wiki Front Page Apr 14, 2020

- Blog: Upcoming Webinar on GENIVI Cloud & Connected Services Work created by Steve Crumb
  Wiki Front Page Apr 08, 2020

- Blog: Save the Dates - 12-14 May - For GENIVI Virtual Technical Summit created by Steve Crumb
  Wiki Front Page Apr 01, 2020

Recent GENIVI project outputs can be found [here](#).

**Scope Expansion:** 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**.

**Trends Driving GENIVI Work:** 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)

**Multi-OS Integration Work**

- Recent Deliverables
- Android™ Automotive SIG Project
- Multi-OS Integration Project
- Domain Integration Projects Description
  - How to join - Quick links: [AASIG], [CCS], [HV], [GSHA], [SPRO]
  - 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++
- vSocket
- Diagnostic Log-and-Trace
- Vehicle Signal Specification
- ...more

**Platforms/Baselines**
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 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.