





Overview of GENIVI projects April, 2016 | GENIVI AMM Paris

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Open Source IVI git repo

user-managemenvuser-data-migration-service.git	Data migration service	GENIVI GIL USEI	NO COMMINS
common-api/c-poc.git	Common API C implementation PoC	GENIVI Git User	13 hours ago
lbs/positioning.git	Positioning services	GENIVI Git User	4 days ago
lbs/navigation-application.git	LBS Navigation application	GENIVI Git User	6 days ago
persistence/persistence-administrator.git	Administrator application	GENIVI Git User	9 days ago
lbs/navigation.git	LBS Navigation services	GENIVI Git User	10 days ago
dlt-viewer.git	Diagnostic Log and Trace clien	GENIVI Git User	11 days ago
dlt-daemon.git	Diagnostic Log and Trace daemon	GENIVI Git User	11 days ago
genivi-demo-platform.git	Demonstration Platform and	GENIVI Git User	2 weeks ago
meta-genivi-demo.git	Yocto based GENIVI Demo Platform	GENIVI Git User	2 weeks ago
wayland-ivi-extension.git	Extensions to the Wayland	GENIVI Git User	2 weeks ago
browser-poc.git	Browser proof of concept.	GENIVI Git User	3 weeks ago
gdp-test-suite.git	Test suite for demo platform	GENIVI Git User	5 weeks ago
persistence/persistence-health-monitor.git	Persistence Health Monitor	GENIVI Git User	7 weeks ago
persistence/persistence-client-library.git	Client library for persistent	GENIVI Git User	7 weeks ago
AudioManager.git	Low level audio manager /	GENIVI Git User	8 weeks ago
ivi-speech.git	API for Speech services	GENIVI Git User	2 months ago





Repositories People 22 Teams 7 Settings

Filters ▼ Q Find a repository...

+ New repository

C++ *0 1 1

C #0 P0

open-adress-book

Open Address Book (OAB) -- sync external address books with your IVI system

Updated 20 hours ago

positioning

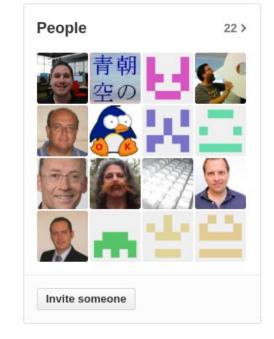
GENIVI Positioning

Updated 21 hours ago

meta-ivi ★ 0 \$ 0

Yocto layer for InVehicle Infotainment software

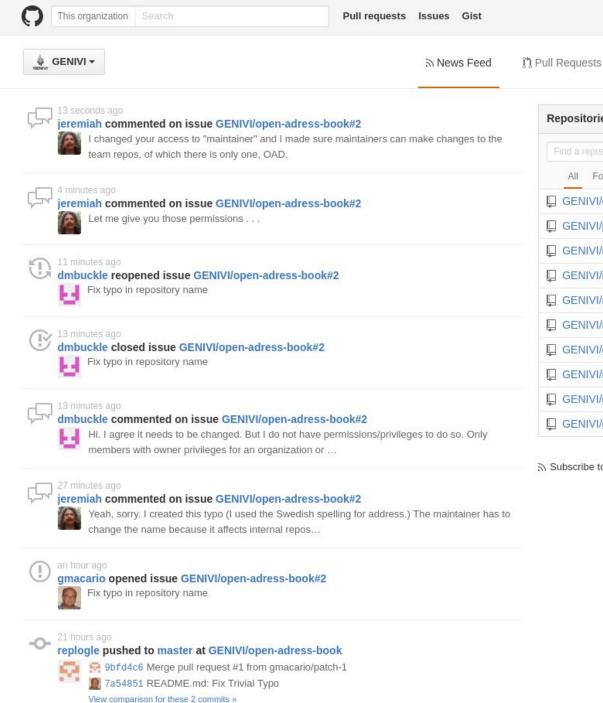
Updated 7 days ago

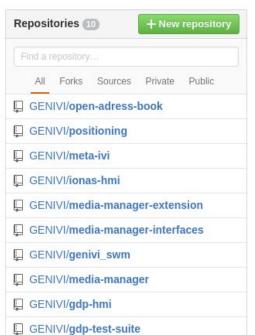


ionas-hmi

HTML *0 \$0







Issues

View GENIVI

Subscribe to the GENIVI organization news feed



Release Cadence



Projects Home

Created by Joel Replogle [Administrator], last modified by Jeremiah Foster on Apr 20, 2016

① Contributing to GENIVI is described here, working with working with GENIVI source code is also available.

GENIVI Software Projects

Project Name and wiki page	Documentation	Code repositories	Mailing list	Issue Tracking	Current Maintainer
Audio Manager (AM) Audio Manager routes "sources" and "sinks" through the Head Unit.	Doxygen based documentation for AM	Audio Manager Audio Manager Plugins AM Demo used in GENIVI Demo platform	Audio Manager mailing list	Bugzilla for Audio Manager	Christian Linke
Diagnostic Log and Trace (DLT) Diagnostics	DLT usage guide and examples	diagnostic log and trace (daemon) dlt-t (DLT with TCP transport) dlt-viewer (Log viewer)	dlt mailing list	Bugzilla for DLT	Current as of 15 Mar 2016 Gernot Wirschal
Persistence Administrator Service (PAS) For storing persistent data to the flash memory	Persistence Architecture Manual (PDF) Persistence Client Library Persistence Database Configuration Tool (PDF)	persistence-administrator persistence-configuration-tool	persistence mailing list	Bugzilla for Persistence	Current as of 02 Feb 2016 Guy Sagnes
Common API C (CAPIC) Common API C++ Tooling and runtime for GENIVI's Common API project implemented in C++ and C	Common API C	CAPI Proof of Concept	GENIVI IPC mailing list	CAPIC JIRA	Current as of 02 Feb 2016 Pavel Konopelko
Security Work from GENIVI's Security team	Threat Model Security Requirements	N/A			
GENIVI Demo Platform (GDP)	GENIVI Demo Platform (GDP)	genivi-demo-platform genivi-demo-platform-hmi	GENIVI projects mailing list	GDP Maintenance Dashboard	Current as of 02 Feb 2016 GDP Project lead: Agustin Benito Bethencourt Jonathan Maw
Lifecycle (L) Lifecycle components manage start-up, power management, etc.	Lifecycle overview (PDF)	 node-health-monitor node-startup-controller node-state-manager 	GENIVI Lifecycle mailing list		



Common API C

Project Name	Common API C
Description:	Common API C is a C implementation of Common API. The purpose of the project is to enable programs written in C to work with interfaces defined in Franca IDL.
Source code:	GENIVI Git repository
Issue tracker:	JIRA Stats
Documentation:	



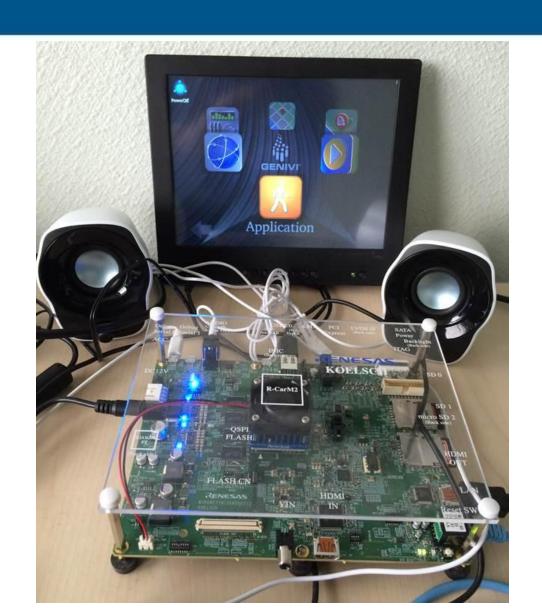
Common API C++

Project Name	Common API C++
Description:	IPC CommonAPI C++ is a C++ based abstraction API for communication stacks, which enables applications to use different communication middleware - so called language bindings - as backend without any changes to the application code.
Source code:	GENIVI Git repository [runtime]
Issue tracker:	Bugzilla
Documentation:	Doxygen code documentation



GENIVI Demo Platform

- → Holds nearly all of the GENIVI components including dependencies and subsystems
- → Evolving into a complete SDK or ADK
- → A good starting point for the latest code
- → Supported by multiple hardware vendors



Getting code

\$ git clone http://git.projects.genivi.org/dlt-daemon.git

• • •

\$ git commit -asm "Fixed magic code"

→ Create a patch



Contributing to Audio Manager

- == Working on the code & contribution
- .First get the code from the git: git clone
- .Get an overview of all branches: git branch
- .Switch to the branch you want to work on (see versioning scheme, the master is the feature branch) and verify that it has switched (* changed) git checkout <your branch> git branch
- .Best practice is to create a local branch based on the current branch: git branch working_branch

Start working, best practice is to commit smaller, compilable peaced during the work that makes it easier to handle later on.

If you want to commit you changes, send them to the audiomanager-dev list, you can create a patch like this: git format-patch working branch <your branch>

This creates a set of patches that are published via the mailing list. The patches will be discussed and then merged & uploaded on the git by the maintainer.

Patches can be accepted either under GENIVI Cla or MPL 2.0 (see section License). Please be sure that the signed-off-by is set correctly. For more, check out http://gerrit.googlecode.com/svn/documentation/2.0/user-signedoffby.html



Communication

- → Important to remember that GENIVI software developers are distributed throughout the world, North America, Europe, Asia
- Requires a distributed communication channel that is asynchronous, that channel is a mailing list quite often
- The mailing list serves as a database of searchable discussion that aggregates by subject matter
- Use the mailing lists!
- → It is in the open, so mailing lists are public
- → English is not everyone's first language and that is totally fine



Tracking bugs

- → GENIVI has a public bug tracker which holds bugs for GENIVI components as well as for the GENIVI Demo platform
- → Easy to sign up to the bug tracker and file bugs, add patches, triage bugs
- → Sometimes it can be good to discuss the issue on the mailing list first to see if it is a known issue or a local issue



Patches

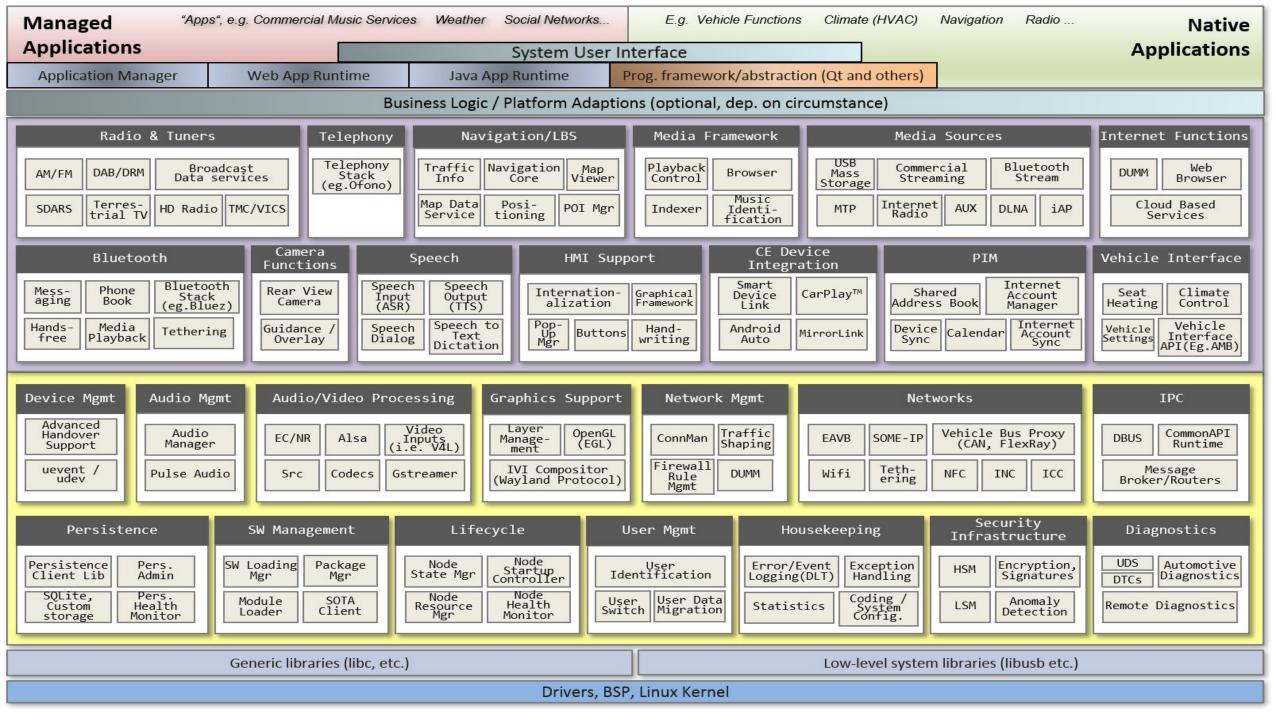
- → Important to have a signed-off-by line on your first commit or patch. This way GENIVI knows the provenance of the code.
- → It is often best to discover the best means to contribute to GENIVI first, some companies prefer the Contribution License Agreement, other companies prefer to contribute via the Open Source model. Both are welcome though the open source development model is often a bit easier in some ways since it is better known and quite straightforward.
- → More information on patches available on the wiki: <a href="https://at.projects.genivi.gen



Toolbox

GENIVI has both an operations group and a tools team. Tools team work is done in the open and welcomes input and contribution.

- → Public ssh key from the machine you develop on
- → Subscription to (at least) genivi-projects
- → git (there are numerous GUI git clients)
- → GitHub account (nice to have)
- → Login to GENIVI public Jira and Wiki (easy to get)
- → Continuous Integration service (Go.CD)
- → non-html mail client (nice to have)
- → FOSSology and Coverity
- → Gerrit? Source code mirrors? Other tools that you think are missing?





Links

GENIVI git repository

http://git.projects.genivi.org

GENIVI wiki

http://wiki.projects.genivi.org

GENIVI project pages

https://at.projects.genivi.org/wiki/display/PROJ/Projects+Home

GENIVI bugzilla and public JIRA

<u>http://bugs.genivi.org</u> → https://at.projects.genivi.org/jira/secure/Dashboard.jspa

Internal OSS launch dashboard

https://collab.genivi.org/wiki/display/genivi/Open+Source+Project+Launch+Dashboard

OpenHub

https://www.openhub.net/orgs/genivi

Checklist for pushing code into the open

https://collab.genivi.org/wiki/display/genivi/Checklist+for+pushing+code+into+the+open

Patch policies

https://at.projects.genivi.org/wiki/display/PROJ/Community+Office#CommunityOffice-Sendingapatch



Questions

Q&A