Android Automotive SIG home

Active Meeting schedules *are listed under each sub-project minute page:* *[VHAL] [Audio]*

All-hands meetings are not run regularly at the moment.
Please join the specific Audio-HAL and VHAL calls.
Progress reports will also be done at GENIVI All Member Meeting (May 4-7, 2021)

Project Charter

> ⓘ For AASIG Vehicle HAL and Audio HAL next meeting schedule, see relevant minutes below

AA SIG - Vehicle Data APIs / Vehicle HAL Meeting Minutes

AA SIG - Audio HAL Meeting Minutes

AA SIG "All-Hands" Meeting Minutes

AA SIG - Vehicle Data APIs / VHAL Workshop - May 2021

- please look at AA SIG - VHAL / Vehicle Data APIs - Meeting Minutes

AA SIG - Audio HAL Workshop - May 2021

- please look at AA SIG - Audio HAL - Meeting Minutes

AA SIG - Vehicle Data APIs / VHAL Workshop - May 2020

AA SIG - Audio HAL Workshop - May 2020

AA SIG - Vehicle HAL & Audio HAL F2F Meeting Minutes - February 2020

AA SIG - Vehicle HAL - Architectural Design Concepts - GENIVI Tech Summit - November 2019

Project Overview

Automotive OEMs are increasingly adopting Android^{tm} Automotive (embedded) as a solution for their IVI stack. This adoption has introduced a series of challenges around integrating the Android Automotive embedded solution into existing legacy software and into other systems present in the vehicle (security, vehicle data, etc.).

Through a GENIVI-hosted Android Automotive SIG project, OEMs, their suppliers, and the broader cockpit software ecosystem can discuss requirements, identify gaps and provide an aligned, community voice for discussion with the Google Android Automotive team.

AASIG Android Development Platform

The purpose of the "development platform" is not significantly different from any standard development people are used to (e.g. AOSP).
It only defines a well-defined version of Android for Automotive development that supports

solutions developed in the SIG. A repository holds the scripts, configurations, and knowledge to make a common and repeatable build, including any modifications, new components, and also to integrate automotive-specific hardware settings, BSP files, etc.

More details here: **Android development platform**

Areas of Focus

The following list of topics was adopted in the original project charter. Additional topics are likely to be added as the project proceeds:

- Extensions required for Android in an automotive environment
    - Audio management
    - Lifecycle, diagnosis and health monitoring
    - Multi-display support
    - Cluster integration
- Platform requirements
    - Security
    - Access to vehicle information
    - Non-OEM validated 3rd party applications downloaded to the vehicle
- Responsibility for long-term maintenance
    - Defining boundaries where Tier 1s/OEMs must take primary responsibilities over Google Android Automotive team support
    - Keeping an automotive system updated to support new versions of Android
        - On software level (Treble)
        - On hardware level ("cartridge" concept)

Participating Organizations		
BMW (Chris Brandt)	Renault Nissan Mitsubishi Alliance	Mobis
Daimler/Mercedes-Benz R&D NA	Harman (Sujal Shah)	Wind River
Fiat Chrysler	Bosch	Renesas
Siemens	Mitsubishi Electric	Tieto
Mobica	ADIT	EPAM
Analog Devices	Inrix	

Point of Contact

Paul Boyes (Community Manager)