



Android Automotive SIG

Kick-off Workshop, Munich All Member Meeting

15 May 2019



Agenda

1.	Purpose of meeting	10 min
2.	Introduction	15 min
3.	Charter of Android Automotive SIG	10 min
4.	Collection of topics and prioritization	45 min
5.	Next steps and organizational topics	10 min

Purpose of meeting.

1. Establish SIG and ensure sufficient membership
2. Define specific topics to work on and agree on next steps.

PROJECT CHARTER

Android™ Automotive Special Interest Group (SIG)

Opportunity Statement

Automotive OEMs are increasingly adopting Android 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.

Intended Deliverables:

- Requirements definition documents for specified areas of focus
- Architecture/API definitions (models, diagrams)
- Reference code for identified APIs
- Tech Briefs to inform the automotive industry

Proposed Areas of Project Focus

Current project focus areas include:

- Preliminary list of extensions required for Android in an automotive environment (additional extensions to be identified during project):
 - 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).

Proposed Topics by the audience and hands up counts (one hand per company)

1. Cluster Integration - 7
2. Vehicle HAL - 10
3. Best Practice to add extensions to AOSP - 6
4. Pre Release of A-A-OS and access to GAS services via GENIVI - 11
5. GENIVI compliant Android - 3
6. Android Certification in multi OS environment - 13
7. ECU external Wifi/Bluetooth HAL & Reference implementation - 4
8. GENIVI steering evolution of e.g. broadcast radio (tuner) HAL - 4
9. Analyse Middleware / HAL for automotive gaps (e.g. Audio Management)
- 20
10. Android Certification issues? How to address @google? - 8

Next Steps

Priority Topics

Next Meeting

Additional potential
members

SIG Leadership

Thank you!

Visit GENIVI:

<http://www.genivi.org>

<http://projects.genivi.org>

Contact us:

help@genivi.org

