



ANDROID™ AUTOMOTIVE SIG

All-Hands – 31 March 2020



Android Automotive SIG – Topics for today



- VHAL / Vehicle Data APIs
- Audio HAL
- Android Automotive & Location-Based Services (LBS)
- Spring Virtual Technical Summit Content

- Reminder
 - AASIG “All-hands” calls : monthly report delivered on last Tuesday of each month at 5pm CET
 - Minutes: <https://at.projects.genivi.org/wiki/x/SIFoAg>
 - Vehicle HAL project calls: every week on Tuesday at 5pm CET
 - Minutes: <https://at.projects.genivi.org/wiki/x/HYVoAg>
 - Audio HAL project calls: every other week on Thursday at 11:30am CET
 - Minutes: <https://at.projects.genivi.org/wiki/x/ugDYAg>

VHAL / Vehicle Data APIs

External Data Server – Proof-of-Concept

- Work breakdown structure is [here](#)
- Slow ramp up of the proof-of-concept implementation
 - Project progress is slower due to lack of resourcing but key elements are moving forward
- Main threads of work
 - Authentication service
 - Plan for rewriting code in a more Google friendly way was discussed between BMW & TietoEVERY
 - Some BMW code needs to go through open source release process
 - External Data Server
 - Participants are expected to look into GraphQL
 - GraphQL demo example was shown by BMW
 - TietoEVERY is working on some prototype code (will be shown next week)
 - Demo use cases and vehicle data simulation were discussed



AASIG Vehicle Data Access / Vehicle HAL - Proof-Of-Concept Roadmap



Proof-Of-Concepts

- External Data Server concept

link to the contribution page: <https://at.projects.genivi.org/wiki/x/RgXYAg>



Roadmap for the PoC

- stage 1 - Spring Virtual Tech Summit (12-14 May)
- stage 2 - Go to Google readiness check or Internal Milestone (early Q3 - July ?)
- stage 3 - Fall AMM (Q4 – end of October)
- stage 4 - CES 2021 (January 2021)



Audio HAL



- Topics investigated since February F2F
 - Network audio devices (presentation delivered by Analog Devices)
 - GENIVI Audio Manager (as an example of the management of automotive audio systems)
 - Multi-zone management in Android Automotive (presentation delivered by TietoEVRY)
- Current focus of the team
 - Multi-zone management – two options investigated
 - All audio management is inside Android Automotive, i.e. AA manages all sinks & sources
 - All audio management is outside Android Automotive
 - Handling of safety-critical audio notifications in scope of the work
 - Reference system design, i.e. a reference multiple audio devices / ECUs architecture

Android Automotive & Location-Based Services (LBS)



- Topic was discussed with Windriver
 - GENIVI had a call with Windriver and PSA navigation expert
 - Windriver contacted Honda which have defined a framework for plugging alternate navigation engines in AA, depending on geographies
 - The idea was to compare GENIVI LBS APIs with the ones defined by Honda for their own LBS framework
 - contact in-progress through Windriver
- BMW said the capability of plugging alternate navigation engines is important
- We need to go a little deeper in the analysis of what means integrating an alternate nav engine in a car
- GENIVI is looking for a participant to lead this topic and possibly prepare the launching of a new AASIG activity

Android Automotive SIG – Spring Virtual Technical Summit Content



- (Physical) All Member Meeting moved to 26-28 October, still in Leipzig, Germany
- Replaced by Virtual Technical Summit, 12-14 May – all times are CET
- 12 May afternoon
 - GENIVI State of The Union
 - Forward-looking
 - Cockpit Integration
 - Edge Computing
 - Common Vehicle Interface
- 13 May afternoon - AASIG
 - Vehicle HAL
 - proof-of-concept
 - status report & demos
- 14 May morning - AASIG
 - Audio HAL
 - proof-of-concept
 - status report & architectural design
- 14 May afternoon - Cloud & Connected Services
 - Communication Framework
 - proof-of-concept
 - status report & demos
- Cybersecurity
 - ISO-21434 in practice
- Testing

Thank you!

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Contact us:

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