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## Android Automotive SIG - VHAL

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GENIVI All Member Meeting | May 2021

## Track 1 - External Data Server



## Android Automotive SIG - Vehicle Data AP荝 - VHAL - Report

- Source code menagement:
- Introduced /device/genivi in Android sources for GENIVI features configuration for each device
- Currently supported device: Android Emulator
- All GENIVI modules kept as separate repositories and cloned as local_manifest (https://github.com/GENIVI/aasig local manifests)
- Non-Android part kept separately (f.e. External Data Server in https://github.com/GENIVI/vss-graphql)
- Two Architecture Variants
- Track 1: External Data Server - access via graphql
- Focused on accessing vehicle data by different mean than AOSP VehicleHAL
- Track 2: Internal Data Server - access via AOSP VehicleHAL
- Focused on translation from VSS format to AOSP format in generic way


## Track 2



## Track 2



## Track 2

- Mapping between AOSP defined properties and VSS leaves:
- Kept as xIsx file, version 1.7 available AASIG-12 and maps:
- AOSP Propertyld
- VSS equivalent leaf name
- Datatype differences between VSS and Android
- Unit differences between VSS and Android
- Transformation type (from VSS to Android) and its parameters - Linear $=K x+m$
- Is considered to be structured as VSS layer (workshop)
- ENUM mapping - tricky
- The translation component can be generated based on VSS and AOSP standards and mapping
- Current implementation is based on default Android Vehicle HAL
- implemented manually to show the concept and is a reference for script output
- Will be demoed during the AMM
- Chosen 4 different Android props with different complexity


## Workshops

- AA SIG Technical Workshop I - Thursday 15:35 CEST
- Demo of VSS-to-Android-Properties module
- Discussion about the mapping standard
- Automatic translation from VSS to Android
- AA SIG Technical Workshop II - Friday 15:25 CEST
- Workplan definition for next 6 months


## Contributing

- Weekly telcos:

Tuesdays - 17:00 CET (US friendly time) - Vehicle Data APIs / VHAL

- Android Automotive Project Wiki : https://at.projects.genivi.org/wiki/x/XgA4Ag


## Thank you!

## Visit GENIVI:

http://www.genivi.org
http://projects.genivi.org

