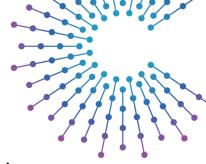


October 2023 AMM



Expert Group Focus



- The majority of the vehicle OEMs are adopting Android Automotive Operating System as a base IVI platform that runs pre-installed Android System applications as well as 3rd Party (3P) Android Applications.
- The ecosystem of 3P applications is likely to be a critical element in allowing end-consumers to access to their favorite digital content safely in the car. Hence, the primary objective is above all to avoid market fragmentation in solutions and tools.
- There are two ways for vehicle OEMs to bring 3P Android Applications to their vehicles:

1) By using the Google Automotive Services (GAS), a bundle containing the Google Play Store next to the Google Assistant and Google Maps.

2) Making use of a white label Android App Store and services (e.g. Faurecia Aptoide, Harman Ignite) on AOSP

• There are gaps in the Google standards when using a white label App Store, especially for the vehicle OEMs.



2

Snapshot of expert group topics

| | What is already considered by AAOS (Android Automotive Operating System) ? | What does GAS include? | What this Expert Group might develop further ? |
|--|---|---|---|
| AOSP Emulator | No Cross-OEM AOSP emulator without Google dependencies available | E.g. Polestar Emulator with dependencies to Google-specific services | Cross-OEM AOSP Emulator enabling App Developers to test their apps for Non-GAS OEMs |
| Vehicle data collection (incl. GDPR consideration) and Sensor interface definition | Vehicle data collection using vehicle properties (common and extended) Android Sensor interface and AIDL (Android Interface Definition Language) including EVS (exterior view system) for Camera | Support for additional mandatory vehicle properties Support for ADAS (Advanced Driver Assistance Systems) oriented applications | Reduce the number of extended vehicle properties to common vehicle properties Anonymity of Data and Consent management Define standard interfaces for sensors which are not supported yet by AAOS |
| Push notifications | Notification Interface + Notification Center | Firebase Cloud Messaging is mandatory | Define standard implementation of Notification Center Document alternative to Firebase such as Unified Push |



3