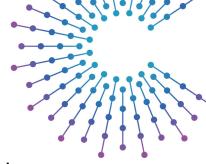


October 2023 AMM



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.



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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



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