



AMG Performance Media

AMG Performance Media (APM) is the world's first production-ready Android™-based automotive infotainment system. APM provides the driver and passengers multimedia, internet and telematics data on display. The racing feature allows the driver, while driving around a race track to measure lap and sector times as well as record vehicle data for later evaluation. The analysis allows the precise correlation of steering angle, throttle position, brake pressure, longitudinal and lateral acceleration etc. with the position of the vehicle on the track, and thus helps the driver maximize the driving pleasure with the AMG. It can even create and record your own race tracks (see also Mercedes-AMG Performance Media on youtube.com).

«With the AMG Performance Media system vehicle-specific data such as coolant and oil temperature, torque and throttle position are recorded, visualized and stored. Any track layout including sector and lap times can be analyzed. Working together, AMG and Noser Engineering developed the highly successful APM from idea to series production in record time.»

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The Project

The German luxury sports car manufacturer Mercedes-AMG commissioned Noser Engineering to develop AMG Performance Media, an Android-based system as an extension of the existing head unit, which is present in all models. The APM is seamlessly integrated into the existing systems and requires no modifications to the vehicles.



The Benefit

Thanks to the openness of Android, AMG now has a flexible software system that can be easily extended with new functions and adapted to other vehicle models. The graphic design capabilities of Android 2.1 have been fully taken advantage of for this project and the APM offers the customers a visually impressive experience.

The Implementation

The whole project took less than 2 years, from the first evaluation of an early generation of hardware to the stamp of approval by Daimler's quality assurance. In close cooperation, the project was conducted in an agile way by progressively implementing the system based on customer feedback and requirements. This made it possible for AMG to influence the course of the project significantly, without causing delays.



The Technology

For the APM the Android 2.1 has been ported to the Universal Media Interface of Peiker as well as highly adapted to the needs of the project. This platform uses a Freescale i.MX35, which enables the visual displays and racing function features to be maxed out to the limit. The system is connected to the CAN Bus via the SPI and communicates with the vehicle only via the CAN Bus. This elegant solution makes the system very portable and reliable since the CAN connection must meet the automotive industry's high safety standards.

The Result

With the know-how and flexibility of Noser Engineering the APM was developed to a high standard within a short amount of time and has been met with great popularity by AMG customers and the press.