

Case for **One of the top automotive suppliers**

In-vehicle Personalization Component Development

PSO Component Improved the Performance of the Entire
Infotainment System

Industry: Automotive

Location: Germany

Employees: 200+



Client Background

German-based Tier 1 global automotive supplier.

Business Challenge


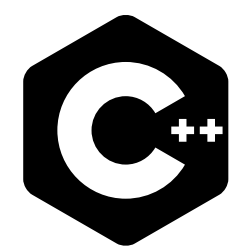


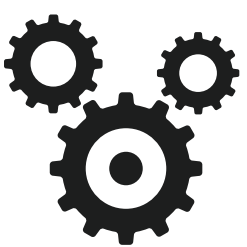

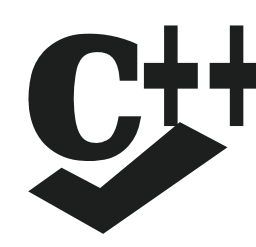
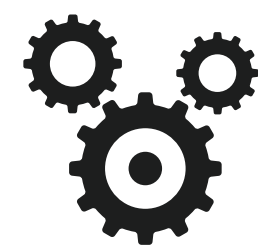
The customer needed to implement an IVI personalization feature in a shared car. Already engaged in the client's project, Infopulse was addressed to develop an end-to-end Personalization (PSO) Component to optimize work of other IVI system apps (navigation, audio, video, smartphone integration).

It had to be seamlessly integrated into their business logic without influencing system performance. The team was challenged with several PoC versions, changing requirements that influenced architecture iterations.

Solution

Infopulse built a flexible architecture of the component to provide a simple interface, sequence diagrams and the component implementation. It allows quickly personalizing data with minimal memory consumption also facilitating integration with the existing IVI system. The system components or apps communicate with the integrated PSO component to access the stored user data locally or in the cloud. It allows users (up to 16) of a shared car to customize the IVI system to own needs. PSO supports configurations based on the car types and markets by regions.

Technologies

 C	 C++	 MISRA-C++	 Franca IDL
 CommonAPI	 Klocwork	 Cppcheck	 Clang-Tidy



Business Value

- Flexibility of the solution allows adding new functions without changing business logic of other in-vehicle components and the entire IVI system performance.
- The component enables a uniform operational logic and thus, can be applicable to different projects, types of cars and markets.
- This simplifies bug detection and their fixing, decreases the amount of man-hours for testing in case of change requests due to low regressions.
- The solution improved the entire system performance.



About Infopulse

Infopulse, part of the leading Nordic digital services company Tietoevry, is an international vendor of services in the areas of Software R&D, Application Management, Cloud & IT Operations, and Cybersecurity to SMEs and Fortune 100 companies across the globe. Founded in 1991, the company has a team of over 2,300 professionals and is represented in 7 countries across Europe and the Americas.

Infopulse is trusted by many established brands, such as BICS, Bosch, British American Tobacco, Credit Agricole, Delta Wilmar, ING Bank, Microsoft, Offshore Norge, OLX Group, OTP Bank, SAP, UkrSibbank BNP Paribas Group, Vodafone, Zeppelin Group, and others.

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