

CyMON

Automotive & Telematic Solutions



Man – Machine – Automobile Interaction

Almost all car manufacturers are addressing today the issues related to the Man-Machine-Interaction inside the automobile. And it is certain that the autonomous adaptivity and the intuitive use of the Man-Machine-Interface will become very important also for the automobile industry.

We would like to introduce to you our vision and scenarios in the domain of Man-Machine-Automobile Interaction based on Agentscape's core technology Cyb / CyMON.

For example the **CyMON-based Personal Portal**. It is here that **deep user-profiles are stored** and access to or distribution of **Telematic Services in an one-to-one personalized manner** takes place. Inside the automobile it is the Cyb, a personal assistant agent, that provides to the driver and to each passenger **personalized adaptive interfaces**. During the journey, the Cyb offers the user a number of services, like e.g.:

- **Natural-language control of the offered services**
- **Natural-language Dialog**
- **Natural-language reactive und proactive information when predefined or context-driven relevant events occur (context data can be e.g. car-status data, time, external incoming events)**

- **Thematic and contextualized access to and retrieval of relevant documents and information, that is already been automatically categorized, summarized and stored.**

The client components (Car, PDA, PC) are based on the open OSGI Standard. The client components can access server-based services and can dynamically synchronize the local data with other databases. The server-based services are implemented on a J2EE compliant platform and offer Webservices interfaces (UDDI, SOAP).

All this is provided by Agentscape today. Our intelligent interface agents can assist the user of a Web-site as competent consultants, they can manage communities and customer bases and they can be deployed in personalized one-to-one e-business or e-CRM environments.

It is left to your decision if you want to extend the functionality of your agent to a true customer-care project – with dynamic deep profiling and matchmaking functionality. We are providing you the right tools.



Customer Reference

Adaptive MMI

Man-Machine Interface



Agentscape implements for BMW an adaptive multimedia user-interface. Agentscape's main contribution relies on its advanced personalization and agent technology.

According to the user preferences or explicit wishes and correlated (contextualized) with the driving and environment situation, the car settings and the interaction with the user are managed on an individual and situational basis. This encompasses simple aspects like e.g. adaptation of the seat and mirror position and of the user-interface when you enter the car, but also personalized suggestions regarding hotels, restaurants or shows while driving towards a remote destination. During the journey the system can access also other telematic services and can be in synch with the user's home and office environment.

The system components are implemented in Java and are OSGI-standard conformant. As such they can be installed dynamically according to the car configuration and to the user-selected services.

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