

AutoMobile e-business



*AutoMobile Communication  
Integrated Telematics and Driver Information  
Mobile Services*



*IBM and CAA present  
AutoMobile Network Solutions*

**The car as a portal for a new era of  
AutoMobile e-business.**

IBM, the technology leader for mobile e-business, and CAA, the technology leader for CarPC software, have transformed an ambitious vision into reality, adapting Internet applications, e-mail and multimedia functionality perfectly to the automobile environment.

Together with leading automakers, suppliers and CAA as specialists for InCarComputing, IBM's AutoMobile Network Solutions division is developing sound standards and solutions for in-car mobile communication and the infrastructure that service providers need under the heading "IBM in AutoMobile e-business." These do not consist of new solutions that are less than fully integrated, but of standardised concepts for integrated communication in the motor vehicle. Thanks to these standards, which have reached market maturity, for the first time ever it will be possible for automakers to offer their customers Internet-supported services as well as extended telematics services at low cost.



## **The functions**

New online services, personalised and location-related, support the driver: they answer queries about the weather, road conditions, what's showing at the local cinema or the next doctor within reach. They take care of booking a hotel room or a reserving a table at your favorite restaurant. Even booking a ferry, a railroad or a plane ticket is no problem because the on-board navigation unit can estimate your approximate arrival time and so make suitable reservations possible. And who has never faced the problem of finding a filling station on an unknown road at night? No problem with the new services: drivers are informed early on how far they can still get with the gas that is left in the tank, and are then routed to the next open gas station. Thanks to the unique client/server structure, and just like all other services described, the electronic logbook can be edited on any personalized laptop, PC or other terminal devices capable of handling data.



## **Concentration at the wheel**

Drivers have to concentrate fully on the road and the traffic in all situations. That is why IBM and CAA have placed particular importance on ease of use. Thanks to the CarPC solutions developed by CAA and IBM ViaVoice voice recognition software devised especially for the automobile environment, motorists can operate almost all vehicle functions from the driver's seat by voice control, functions that range from seat adjustment and air conditioning control to the Internet or e-mail. They can have e-mail or SMS messages read to them conveniently and safely by voice output.



## **An intelligent end-to-end solution**

What is new and unique about this concept is its underlying client/server structure which, thanks to use of the WebSphere Everyplace Suite and the mobile services from CAA that are based on it, is a mobile communication platform in the truest sense of the word. Thus, data and information such as the price of fuel at the next filling station can be made available to drivers at any time and always up-to-date.



With a WAP mobile phone, information can also be communicated to the car, for example closing or opening of a cabriolet top, or to switch on the hazard warning lights. At the same time, you can also query data from the vehicle, for example mileage or information from the electronic logbook.

The Websphere Everyplace Suite ensures the use and interoperability of completely differing infrastructural components, in the area of both secure wireless data transmission and software and also of the terminal devices used, such as mobile phones, laptops or personal digital assistants (PDAs).

The IBM MicroDrive, an extremely compact high-performance hard disk for very small terminal devices, supports an enormous range of such applications, making data available such as maps for downloading or storing information that is generated during a trip.



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