Attachment

Overview of Nissan and NTT DoCoMo's Joint Study on Telematics Services

1. Joint study themes

- Development of onboard devices and an information platform based on the use of the third-generation mobile communications, FOMA® technologies.
- Development of information services for driver/passengers and services utilizing vehicle information.
- Business development and service proliferation in Japan.

2. Service development targets

(1) Provision of advanced telematics services (targeted for successive launching beginning in 2003)

- Network navigation service

Traffic information, weather reports, availability of parking, hotels, restaurants and other facilities will be closely linked to the latest road map data to create new information services that pursue user safety and comfort. These services will be accessible from a variety of client devices, such as cellular phones, personal computers (PCs) and personal digital assistants (PDAs[*1]) to ensure seamless service availability.

- Location-linked services combining voice and data

Local information matching users' interests and preferences will be provided together with up-to-date map information, by making effective use of vehicle or cellular phone-based position detection technology (GPS[*2], etc.), voice-activation technology and other capabilities. The aim will be to improve and expand such services further.

(2) Provision of telematics services that are integrated with various new media and diverse industries. (targeted for successive launching beginning in 2004)

- Integrated cross-industry services

By networking automobiles with many different industries related to the everyday use of vehicles, such as non-life insurance companies, security service companies, service stations and others, it will be possible to provide advanced services. For example,

vehicle security can be significantly improved through the use of various kinds of information related to vehicles. In addition, a platform will be constructed that can be used by many different companies for customer relationship management (CRM), with the aim of creating an effective tool for marketing.

• Service integration (links to other services and infrastructure)

The foregoing services will be linked to other services and infrastructure, including electronic money, broadcasting and DSRC (dedicated short-range communications) systems, to provide new forms of car multimedia services. One example under consideration is the full-fledged on-demand audio-visual services that are combined with music downloads and the downloading of real-time information.

*1Personal Digital Assistants (PDAs) are handheld electronic devices for managing personal information such as addresses and schedules and for using data communications services, including e-mail and Internet access.

*2The Global Positioning System (GPS) provides three-dimensional positioning of the location of a receiver on the earth, based on the arrival time, etc. of a radio-wave time signal emitted by a satellite. GPS is used in car navigation systems and other positioning services.

*3 Dedicated Short Range Communications: Wireless high-speed data communications technology that allows car-to-car or car-to-facility communications within a radius of several meters. Electronic Toll Collection System (ETC) in Japan is one example.

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