

The Evolution of Network Navigation System

Pei Ping

Belarusian National Technical University

The network navigation system provides users with navigation information services technology and business model. Network navigation is also known as "smart navigation", "central navigation" which is the next generation vehicle navigation technology has relative to the autonomous navigation technology. Internet, mobile communication network and terrestrial digital broadcasting network as the basic system of communication and navigation information framework, which provide service to the vehicle terminal. All of network navigation information is "dynamic" and "based on real-time road and traffic status".

The navigation information service center is a distribution structure and processing of all navigation information data. It is based on geodatabase navigate data processing and information dissemination to support the network technology to achieve vehicle management and location services, such as integrated navigation services business. It is relative to the car navigation terminal "server"

Car navigation terminal is the customer of the information service center, the customer through the "initiated" or "under Push " get information from the server to obtain a variety of navigation services. Chinese industrial capacity and the level of mass consumption are very suitable this technical structure currently.

The business model of network navigation includes the public-oriented consumer service model and the group-oriented special service mode. Business model is based on "service", and autonomous navigation based on "product" is completely different, it obtains economic benefits according to service

Network navigation system to replace the autonomous navigation technology is a historical necessity. Network navigators System has been developing since 1996 from Japan.

The most famous VICS system is to provide dynamic traffic service network. 4G mobile phone network to provide automotive services network navigation system in Toyota's G-BOOK system; Telematics' system to provide users with rescue and other navigation services in Europe; OnStar Monitoring and rescue systems to provide users with rescue and other navigation services in the United States General Motors. in recent years, China began to develop the LBS location service which has past in a variety of navigation business experiments from China mobile and China-Unicom wireless public network, such as "mobile phone map" and other systems.