

February 2012

EXPONNEWS

IT Solutions for
Public TransportKARLSRUHE TRADE FAIR CENTER • GERMANY
15 -17 February 2012

IProuter: Seamless use of communication channels made possible

Modern ITS systems cover a large variety of applications that are based on communication between central systems and on-board computers in vehicles. For example, actual position information and schedule adherence have to be transmitted frequently for real-time passenger information and operations control. Additionally, new features like vehicle diagnostics, video surveillance, infotainment systems and real-time transfer information have to be integrated. All these applications require the exchange of masses of data and therefore call for a broadband data communication link based on the IP protocol.

Intelligent communication concept

GSM / GPRS / EDGE / UMTS, 802.11 b/g/n WirelessLAN, WIMAX, 4.9GHz, Wi-Fi and MESH are communication modes that provide the bandwidth needed for today's communications challenges, and have become especially important within public transport. To facilitate the use of these modern communication channels as much as possible, INIT developed the IProuter. The IProuter serves as the central communication gateway to the dedicated Wide Area Network

(WAN) for all IT systems on board. Hence, it provides a large variety of on-board interfaces (Ethernet, USB, VGA, serial ports, audio), offering access to the broadband data communication network for multiple vehicle devices (e.g. on-board computers, ticket print-

Wi-Fi on board

In addition, the IProuter can also serve as an internet access point for passengers on board. This service provides the opportunity to utilise travel time in the best way possible.



ers, CCTV, TSP modules, TFT screens, passenger counting systems). The IProuter guarantees a seamless switch-over between all available communication channels and automatically selects the most suitable communication method for a specific data communication demand, as well as the appropriate fall-back channel.

For example, passengers can check emails or work online organising their tasks for the day while riding to work. This is a convincing benefit when it comes to persuading the public to switch from cars to taking public transport.

Source: INIT

For further information, visit booth E2 or market update 7 on Thursday 16 February 2012