INTELLIGENT TRANSPORTATION SYSTEMS

Intelligent transport system for the public transport of Cyprus

The project

▪ On board equipment for fleet management and ticketing for more than 800 buses
▪ Multi-fleet system for 7 operators
▪ High-availability data centre (primary and secondary hosts)
▪ Ticketing system:
  - In-vehicle sales and validation
  - 30 points of sales
▪ Security: On board CCTV
▪ Passenger Information System:
  - 30 LED displays and 40 ChLCD solar displays
  - On board multimedia information
  - Web and mobile App
▪ Integral maintenance for 8 years

marketing.transport@gmv.com
gmv.com

Marios Demetriades, Minister of Transport Communications and Public Works during the implementation of the project
Initial situation and objectives
Prior to the decision of the Government of Cyprus to modernize the country’s public transport, the management of the fleet and collection of tickets was carried out manually by the operators, depriving the Ministry of any visibility on the collections. The new ITS platform was meant to provide an integrated, automatic and auditable ticketing system, a planned and controlled transport system, as well as a reliable information tool for passengers.

Integral management of the public transport in Cyprus, with complete and advanced fleet management and ticketing solutions
The land public transport, performed exclusively by road, is provided by about 800 urban and interurban buses operated by 7 companies under concessions granted by the Ministry of Transport, Communications and Public Works. In 2016, this Authority decided to modernize technologically these concessions through a public tender where the most relevant international companies in the sector participated and where GMV prevailed.

GMV completed the project in May 2018, meeting the deadlines set by the Ministry.

Solution
The implemented solution is a turnkey project that comprises a Multi-fleet and Multi-operator ITS integral solution. GMV’s solution includes fleet management, on board and in stop passenger information systems, ticketing and on board video surveillance.

For the centralized management of the entire ITS platform, the Ministry of Transport, Communications and Public Works of Cyprus chose a secured and high-availability hosting, with datacenters replicated in two cities of Cyprus, Tier III category, a pioneering ITS solution in Europe, where GMV is directly responsible for the management of the hosting and communications. From there, the service is provided to the different operators and the Ministry, who monitor and oversee the operation and evaluate the results.

Both disposable Ultralight cards and Desfire EV2 plastic cards are used as fare media. Desfire EV2 is the technology that guarantees the highest level of security today.

Results
After the implementation of the new systems the Ministry of Communications and Works has an automated, auditable and controlled ticketing system as well as a common fare policy. The availability of transaction records greatly facilitates the auditing process. In addition, the Fleet Management System allows to monitor the quality of service and to introduce improvements.

For the operators, the new system reduces the workload of drivers, who sold tickets manually, and allows them to keep track of service compliance in terms of punctuality, regularity, eco-driving...

Users benefit greatly from the system, by the ease of a common tariff system in the country and the reliable real-time information.