SMS PARKING

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IT Outsourcing

SOFTSERBIA SMS-Parking

SoftSerbia SMS Parking is a software system that provides a modern way of parking payment and control in open parking lots.
This system enables:

▶ facilitate processes of payment and control, including SMS payment
▶ towns specificities (parking zones, tolerance, time limitations),
▶ equal treatment of SMS and scratch parking tickets,
▶ tracking serial numbers of scratch tickets to prevent forgery,
▶ central processing, monitoring and data analysis.

The system consists of three parts,

▶ Modules for payment of parking via SMS messages
▶ Modules for reporting and system administration
▶ Client applications for controllers.

Modules for payment of parking via SMS messages

These modules contain the Parking company business logic and enables the payment via SMS. The system currently supports all three mobile networks in Serbia (Mt:s Telenor and Vip mobile). For implementation in Your country new modules should be developed, for connecton to mobile operators in Your country.

The process of parking payment is easy. User begins parking payment via SMS messages, by sending an SMS message containing registration number of vehicle, without spaces or other special characters (eg. KG123456). The message is sent to a short number that corresponds to a parking zone in which the vehicle is located at the time of parking.

If the message format is valid and the user has sufficient funds on his account, the system returns information to the user, in an SMS message, in which are listed the reg. number for which the ticket was purchased, parking zone, the amount charged for services and time for which the ticket is valid.

5 to 10 minutes prior to the expiration of the time for which the parking is paid, a message is sent to the user to alert him that the payment, for the registration number for which he payed the parking, is expiring.

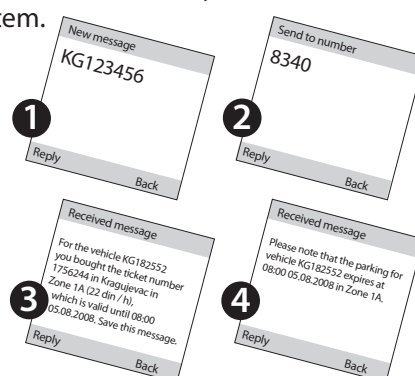## Modules for reporting and system administration

These modules enable:

▶ management of system parameters:
zones, sectors, parking price, short numbers, tolerance, limitations, types of scratch tickets, etc.
▶ real time statistics and monitoring of controllers,
▶ search and review of all records in the database,
▶ prepaid and privileged tickets management,
▶ exporting penalty tickets and other data to parking service external (ERP) systems,
▶ daily, weekly, monthly reports.

Client applications for controllers

This module is executed on portable computers that are via wireless Internet connection connected to a central server and among other things enables:

▶ login of controllers and choice of area / sector in which the check is performed,
▶ control of payments made via SMS messages,
▶ control of the vehicles with prepaid and privileged tickets,
▶ validation and entry of scratch tickets,
▶ penalty ticket entries,
▶ photograph entries,
▶ gps coordinates entries,
that enables increased efficiency of controllers and the whole system.

1 New message
KG123456
Reply   Back

2 Send to number
8340
Reply   Back

3 Received message
For the vehicle KG182552 you bought the ticket number 1756244 in Kragujevac in Zone 1A (22 din / h), which is valid until 08:00 05.08.2008. Save this message.
Reply   Back

4 Received message
Please note that the parking for vehicle KG182552 expires at 08:00 05.08.2008 in Zone 1A.
Reply   Back

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Client hardware

Hardware that is necessary for the system include:

▶ Pocket PC devices with Windows Mobile 6 operating system equipped with GPRS and Bluetooth modules (photo camera and GPS modules are optional)
▶ Printers for printing penalty tickets, equipped with Bluetooth module.

Communication with the server application is done through GPRS and 3G Internet connection, via SSL encrypted HTTP protocol.

Server hardware and technologies

The system is based on the scalabale server architecture with latest open source solutions, which include:

▶ Linux server with Apache web server,
▶ MySQL database,
▶ PHP and Ruby server applications,
▶ JavaScript and AJAX scripts to create dynamic real time system statistics.

All this ensures a modern, stable, and secure system.

Contact

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References - Serbia

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