

BRIEF CASE STUDY



Project: **SPK – AGROKOP Parking Lot**

Objectives: Solution for HYBRID Parking Lot (garage) system in order to handle:

- 70 Parking terminals for commercial Users and
- 90 Parking terminals (garages) for VIP Users

ENTRANCE:

Parking cabinet, Bar-Code Ticket for commercial users, RFID (Mifare) Cards for VIP users and Remotes for special VIP users (5 only).

EXIT:

Sashier's House, Receipt, for commercial users, RFID (Mifare) Cards for VIP users and Remotes for special VIP users (5 only).

Project we have done as sub-contractor for company Elmorad d.o.o. (www.elmorad.com)

Experts from Elmorad d.o.o. and Mr. Fabio DE Nardi from CARDIN Electronica S.P.A., had a brilliant vision to define final Project objectives and with lot of enthusiasm to support project implementation. Companies, Elmorad d.o.o. from Banja Luka, Bosnia and Herzegovina and ASPEKT System Integration d.o.o. company from Belgrade, Serbia, as partners, successfully have done the project providing following, exactly to all requested:

- Bar-Code Tickets (commercial users)
- VIP RFID Cards (pre & post-paid users)
- VIP FM Remotes (special users)
- Police, ambulance ...
- Manually open/close (recording/vehicle counting)
- Time, Attendance and Access Control for all previous
- LAN on-line monitoring and control
- Over Internet on-line monitoring and control
- Software tool for case if Investor decide to rent Car Parking Lot

In general project was based on CARDIN S.r.l., brand name Italian producer of high quality traffic equipment and ASPEKT System Integration d.o.o. automation equipment, access control system devices and software. Should be highlighted, this project ASPEKT System Integration d.o.o. done with its own multi-language software and all related manuals provided in English, as well.

According to the fact that Investor did not like to allowed assembly of inductive loops, we have developed similar solution based on system of photo-cells. Putting additional effort in this project and with special care ASPEKT System Integration d.o.o. software is "tailored" in order vehicles counting mistakes to be minimized, invoked by pedestrians who do not respect traffic signs.

Developed is "virtual" counting sub-system, and comparing its standard and this new "virtual", we all believe that we reduced vehicle counting mistakes at acceptable level for Investor. We are sure that practice will confirm all previous.

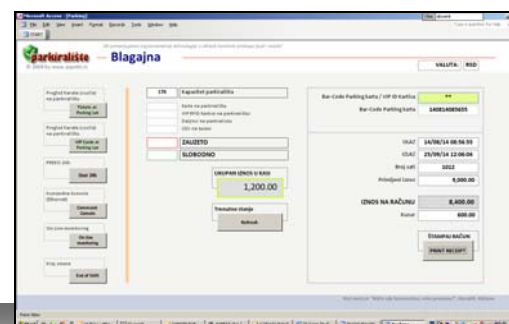
Project finished at September 20th, 2014th, and it is in use.



Entrance – ULAZ



Exit - Izlaz



KRATKA STUDIJA IZVEDENOG PROJEKTA



Projekat: **SPK – AGROKOP Parkiralište**

Cilj: Rešenje za HIBRIDNO Parkiralište u cilju da podrži:

- 70 Parking mesta za komercijalne korisnike i
- 90 Parking mesta (garaža) za VIP korisnike

ULAZ: Parking kabinet, Bar-Code Karta za komercijalne korisnike, RFID (Mifare) Kartica za VIP korisnike i daljinci za specijalne VIP korisnike (5kom, samo).

Projekat smo realizovali kao pod-izvođač preduzeća Elmorad d.o.o. (www.elmorad.com)

Eksperti iz preduzeća Elmorad d.o.o. i gospodin Fabio DE Nardi iz kompanije CARDIN Electronica S.P.A., imali su izvanrednu viziju kako da definišu ciljeve projekta i da isti podrže sa puno entuzijazma tokom implementacije. Preduzeća Elmorad d.o.o. iz Banja Luke i ASPEKT System Integration d.o.o. iz Beograda, kao partneri, uspešno su realizovali projekat koji, a koji je obezbio sve traženo, odnosno:

- Bar-Code Karte (komercijalni korisnici)
- VIP RFID Kartice za pre-paid and post-paid korisnike
- VIP FM Daljinske komande („daljinci“) za specijalne korisnike
- Policija, hitna i druga vozila iz te kategorije
- „Ručno“ podizanje – spuštanje rampi, (evidencija i brojanje vozila)
- Sistem evidencije i kontrole pristupa za sve pobrojano
- On-line monitoring i upravljanje u lokalnoj mreži (LAN)
- On-line monitoring i upravljanje (Internet), kao i
- Specijalni sw-alat jer Investitor planira i da rentira parkiralište

Generalno projekat je baziran na "brand name" opremi italijanskog proizvođača CARDIN S.r.l., i opremi za automatizaciju, evidenciju i kontrolu pristupa, kao i software-u preduzeća ASPEKT System Integration d.o.o. Verujemo da treba naglasiti i da je ovaj projekat izveden sa verzijom više jezičnog software-a. Svi Priručnici su takođe raspoloživi u dve verzije, odnosno i verziji i na engleskom jeziku.

Činjenica je da Investitor nije dozvolio postavljanje induktivnih petlji. stoga je preduzeće ASPEKT System Integration d.o.o. razvilo slično rešenje naslonjeno na sistem foto-čelija. Ulažući, ne male, dodatne napore uspeši smo da "prekrojimo" naš software u cilju da greške, jasno zbog nedostataka induktivnih petlji, i jasno prolazaka pešaka koji ne poštuju saobraćajnu signalizaciju, svedemo na MINIMUM, prihvatljiv investitoru.

Preduzeće ASPEKT System Integration d.o.o je razvilo poseban "virtuelni" sistem brojanja vozila, i mi verujemo da će isti eventualne greške smanjiti na prihvatljiv nivo za investitora, i prethodno dokazati u praksi.

Projekat je predat 20.09.2014god. od kada se parkiralište i komercijalno koristi.

