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Egypt Traffic Project

Project Details

Project Place	Republic of Egypt
Project Sponsor	Ministry of State for Administrative Development, MSAD (Financial Sponsor) Microsoft Egypt (Technical Consultants)
Project Customer	<ol style="list-style-type: none"> 1. Ministry of State for Administrative Development, MSAD 2. Ministry of Interior, MOI General Directorate of Traffic, Central Traffic Department (Responsible for Traffic Licensing, and Traffic Violations Capturing) 3. Ministry of justice, MOJ (Responsible for Traffic Licensing) Traffic Prosecutions (Responsible for Traffic Violation Registration and Management)
Project Duration	From 2009 To 2015
Project Statistics	<ul style="list-style-type: none"> • 6,000,000 Vehicle Licenses • 10,000,000 Driving Licenses • 26,000,000 Traffic Violation per year • 1 Centralized Traffic Information Center (TIC Datacenter) • 146 Traffic Unit (License and Registration center) • Currently 10,000 Licenses are managed and issued daily which means around 1,800 Licenses every hour (30 License every minute) • 1 Centralized Persecution Information Center (PIC Datacenter) • 60 Traffic Persecution Center (Planned to grow to 150 center)
Project Execution	<ul style="list-style-type: none"> • Phase 1 : 1 year (3/2009 – 1/2010) <ul style="list-style-type: none"> ◦ 6 months for software Analysis, Design and Development ◦ 2 months for software Installation, Pilot Operation and Training ◦ 10 months for system rollout over all Traffic units and stations • Phase 2 : 1 year (5/2012 – 5/2013) <ul style="list-style-type: none"> ◦ 2 months for software Analysis and Design ◦ 4 months for Development ◦ 6 months for system rollout over all Traffic units and stations • Phase 3 : 1 year (6/2013 – 6/2014) <ul style="list-style-type: none"> ◦ 2 months for software Analysis and Design ◦ 4 months for Development ◦ 6 months for system rollout over all Traffic units and stations • Warrantee and System Support : 5 years (2010 – 2015)
Project Status	<ul style="list-style-type: none"> - Phase 1 : Finished – Delivered and Operating since 1/2010 - Phase 2 : Finished – Delivered and Operating since 5/2013 - Phase 3 : In progress at Analysis and Design phase

The Customer

The Ministry of State for Administrative Development (MSAD) in Egypt had agreement with Ministry of Interior (MOI) and Ministry of justice (MOJ) to create a complete centralized solution to automate all traffic processes for the Egyptian citizens and foreign residents to get accurate/ easier service.

The Central Traffic Department (CTD) is responsible of managing all vehicle registration, vehicle renewal, driving license, recording and registering traffic violations while Traffic Prosecution (TP) is responsible of managing the registered fine of traffic violations in the **Arab Republic of Egypt**.

The department manages data for 6,000,000 vehicle and 10,000,000 driving license, through 146 registration and issuance center and traffic custom port.

The traffic prosecution manages the fines collections and complaints process, for 26,000,000 traffic violations per year.

Customer Requirements

The Customer needed to replace its old system, which caused critical challenges, such as the following:-

1. The old system worked offline with no centralized database, and lacking public inquiries
2. Database system's redundancy enabled violations, for example, one citizen could own more than one driving license from more than one site, or more than one vehicle license for the same vehicle from different sites , etc.
3. The old system was mainly a printing solution for the vehicle or driving license (no process inside traffic unit)
4. The applicants spent a lot of time inside the traffic unit while registering, as they had to deal with various officers to fill and submit many documents
5. The database was not complete and not matching with existing licenses because of the weak validation process
6. No electronic financial module existed, only manual calculations, moreover fees varied from one office to the other
7. Lack of central administration and auditing tools
8. Lack of reports and statistics generation over all traffic units
9. Connection bandwidths varied between 128KB to 512KB depending on the unit (site)

Project Scope

Secured Smart Systems provided Egypt with an initiative web based traffic System, fully implemented, following the Egyptian traffic laws, managing all the operations of vehicle registration, driving license and traffic violation, facilitating the process inside all traffic units/issuing centers.

As a matter of fact, the national traffic project is one of the biggest public projects in Egypt, managing data for more than 4 million vehicles and 10 million drivers' licenses. It also deals with 26 million traffic violation per year. The project started operation on April 2009.

3S constructed a unified database of licenses and violations, developed and automated operation for more than 146 license issuance/ vehicle registration centers and more than 60 traffic prosecution offices.

The project covered of vehicle registration at traffic unit, including technical inspections, taxes and fees, printing of licenses and periodical renewals, in addition to a wide range of services for the citizens to deal through the internet on e-government portal.

The centralized web based system includes all applications, and allows all users to access the system easily, through leased line connection between the data center and the remote issuance/ registration centers.

During this project we had develop, deployed and operated the project scope which includes

1. Old System Analysis and Data Migration

- 1.1. Analysis of Traffic Oracle System Database and Architecture
- 1.2. Analysis of Traffic Persecution Oracle System Database and Architecture
- 1.3. Developing data migration tools for Traffic database
- 1.4. Developing data cleansing tools for Traffic migrated data
- 1.5. Developing data migration tools for Traffic Precaution database
- 1.6. Developing data cleansing tools for Traffic Precaution migrated data
- 1.7. Database technology and schema upgrade from different Oracle version to with MS SQL Server 2008 R2
- 1.8. Migrating more than 146 Traffic units Oracle database to a centralized to SQL Server 2008 database.
- 1.9. Migrating more than 55 Traffic Precaution Oracle database to a centralized to SQL Server 2008 database.

2. Traffic Information Management System

- 2.1. Vehicle Licenses Management System (VLMS)
 - 2.1.1. Vehicle Registration Applications
 - 2.1.1.1. Local Manufacturing Vehicles Registration Application
 - 2.1.1.2. Imported Vehicles Registration Application
 - 2.1.2. Vehicles Inspection Application
 - 2.1.3. Vehicles Insurance Application
 - 2.1.4. Vehicles License Registration and Issuing Application
 - 2.1.5. Vehicle Monitoring Applications

- 2.1.5.1. Stolen Vehicle Registration Application
- 2.1.5.2. Accidents Registration Application
- 2.1.6. Fees Collection/Financial Application
- 2.1.7. Scanning and Archiving Solution (VL papers and documents)
- 2.2. Driving License Management System (DLMS)
 - 2.2.1. Driving License Registration and Issuing Application
 - 2.2.2. Digital Picture Capturing Application
 - 2.2.3. Fees Collection/Financial Application
 - 2.2.4. Scanning and Archiving Application (DL papers and documents)
- 2.3. Central VL and DL Inquiry System
 - 2.3.1. Central VL Inquiry System via Web and PDA
 - 2.3.2. Central DL Inquiry System via Web and PDA
- 2.4. Central Information System Administration
 - 2.4.1. Business Rule Engine
 - 2.4.2. System Codes Management Application
 - 2.4.3. System Users and Privileges Management Application
 - 2.4.4. Integration with National ID System

3. Traffic Violations Management System

- 3.1. Violation Recording and Registration Applications
 - 3.1.1. Paper based Application
 - 3.1.2. PDA based Application
- 3.2. Scanning and Archiving Application (Paper based Violations and Radar images)
- 3.3. Fines Collection/Financial Application
- 3.4. Complaint Management Application
- 3.5. Integration with registration system to limit registration when fines are not paid
- 3.6. Central Information System Administration
 - 3.6.1. System Codes Management Application
 - 3.6.2. System Users and Privileges Management Application

4. Governmental Electronic Services via Internet and SMS

- 4.1. Traffic violation penalties and fines inquiry via internet
- 4.2. Traffic violation fines inquiry via Mobile SMS
- 4.3. Traffic violation fines payment via internet
- 4.4. Traffic violation penalties and fines complaints
- 4.5. Vehicle License inquiry via internet
- 4.6. Vehicle License renewal via internet

Added Value

- Provide better service to the deferent parties deal with traffic department to achieve the accuracy and speed of completion of their transactions in the places of service delivery and through the Internet.
- Simplify and reduce the required procedures for the completing their requests in appropriate time.
- Reduce paper transactions, saving time and effort required to finish the transaction.
- Spread the spirit of trust and confidence among the citizens in the documents issued by the traffic department and issuing centers.
- Building a centralized database.
- High accurate public inquiries from one central database.
- Eliminate Data redundancy.
- Add work flow inside the issuing centers to facilitate the registration process.
- All the operation with applicants done through one window inside the issuing centers, to minimize the time of serving the applicant with required documents.
- High accurate Business rule engine to manage all custom validation rules.
- High customizable business rule engine to customize all registration fees and taxes
- Manage stolen vehicle notifications
- Manage fines collections
- Manage the lack of administration and auditing tools.
- Manage the lack of many reports and statistics.
- Deferent bandwidth limits from 128KB to 512KB depend on the site and communication in Egypt.
- Provide traffic electronic services for licensing and fines (inquiry/payment) via internet and mobile SMS

Certificate



Certificate to whom it may concern

The Ministry of State for Administrative Development (MSAD) attested that Alliance which is consisting of:

Secured Smart Systems (3S)	(Solution Provider)
Informatique	(Main Contractor)
Microsoft Egypt	(Technology Consultant)

Has accomplished the implementation of the tender No. 2008/10 to develop, supply, operate and maintain of traffic integrated applications in the Arab Republic of Egypt, by using Microsoft development tools to create a central database to manage the systems of driving licenses, vehicle license and violations through centralized web application.

The system has started operation in April 2009, where the complete system has been delivered in May 2010 as the warranty period in accordance with the contract agreement for two years has been completed.

National Traffic Project Manager

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Depends,,



Head of Policies & Program Sector

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