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Sudan Traffic Project

Project Details

Project Place	Republic of Sudan
Project Sponsor	Kushite Integrated Co. Ltd
Project Customer	1. Traffic Police Directorate General http://trafficpolice.gov.sd/ 2. Kushite Integrated Co. Ltd http://www.kushite.sd/
Project Duration	12 month (From 2007 To 2008)
Project Statistics	<ul style="list-style-type: none">• 2,000,000 Vehicle Licenses• 1,000,000 Driving Licenses• 1 Centralized Traffic Datacenter• 26 Staging Center in every Governate (State)• 33 Traffic Unit
Project Execution	<ul style="list-style-type: none">• 6 months for software Analysis, Design and Development• 2 months for software Installation, Pilot Operation and Training• 4 months for system rollout over all remaining Traffic units and stations
Project Status	Delivered and Operating since 2008 until now

The Customer

The traffic police are responsible for all vehicle registration, driving license issuance, and traffic violations in the Republic of the Sudan.

Through 33 registration and issuance centers, the traffic police manage data for 1,000,000 vehicle and 2,000,000 driving license.

Customer Requirements

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

1. Lack of central support, as data collected from remote working sites in different states, was not properly synchronized or regularly updated on the main center's database server.
2. Lack of security model to handle, audit and validate the citizen's application and generate action required on the light of the result
3. A weak validation system, from the data entry and business rules perspective, which allowed the creation of incorrect or corrupted data

4. Data redundancy in the system databases even for the main entities records; which enables some serious cases such as ownership of more than one driving license by the same citizen, or more than one vehicle license could belong to the same car
5. Lack of administration and auditing tools
6. The supported hardware, especially security printers, was discontinued from production by original manufacturers, and can't just be replaced by commercial brands
7. Lack of integrated photo capturing tool to capture, store and process that citizen photo during driving license process
8. High cost of support
9. Lack of reports and statistics generation.
10. Lack of integrated financial services

Project Scope

3S provided the Traffic Police with an initiative web based application to manage all like vehicle registration, driving license and traffic violation operations, to secure and facilitate the process inside all traffic units/issuing centers.

The system is set to work online in sites with good intranet connection and semi-online in sites with slow intranet connections.

The online system is a centralized web application to main database at traffic data center.

The semi-online system is a decentralized application with local database, working offline all the time and replicate the data to the main database regularly and when connected with for query.

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 old System Architecture
- 1.2. Analysis of old system database
- 1.3. Developing data migration tools
- 1.4. Developing data cleansing tools
- 1.5. Database technology and schema upgrade with MS SQL Server 2005
- 1.6. Migrating 33 SQL Server 2000 from 33 different traffic unit a centralized to SQL Server 2005 database.

2. Traffic Information Management System

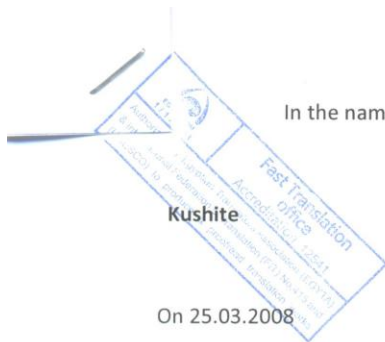
- 2.1. Vehicle Licenses Management System (VLMS)
 - 2.1.1. Vehicles Inspection Application
 - 2.1.2. Vehicles Insurance Application
 - 2.1.3. Vehicles License Registration and Issuing Application

- 2.1.4. Accidents Registration Application
- 2.1.5. Fees Collection/Financial Application
- 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
- 2.3. Violation Recording and Registration Applications
 - 2.3.1. Paper based Application
 - 2.3.2. Fines Collection/Financial Application
- 2.4. Central Information System Administration
 - 2.4.1. System Codes Management Application
 - 2.4.2. System Users and Privileges Management Application

Added Value

- Manages all the following systems within one web application
 - Driving License Management System
 - Vehicle License Management System
 - Fines Management System
 - Accidents Management system
- Online replication per transaction in connected-to-data center mode or queued until the connection is up between the local sites and the data center.
- Reduces the expected data entry mistakes by enforcing wide range of validations and restrictions as Data Entry validations (Syntax validations), Business rules validations (Semantic validations) and Access privileges.
- Financial module built in the solution managing the financial transactions of the services applied in the system and providing reports and statistics (including graphs).
- Support for all types of card printers through generic printer server and spooler.
- Picture capturing facility fully integrated within the Driving License System via web application.
- An external Migration tool, copying most of the valid data from the old system database to the new system database.
- Automatic Notifications through Mail, SMS or Fax messages using a built-in notification system.
- Integrated Security Model to control the end users and their privileges according to position and needs.
- One centralized administrative tool to control user accounts and access control privileges, system codes' management, system settings and configurations, user actions, archiving and reporting, in addition to finger print user authentication.

Certificate



In the name of God ,the Most Gracious ,the Most Merciful

Kushite Integrated Co. Ltd.

Certificate

Kushite Integrated Co. Ltd declares that the company is owned by Social Insurance Fund of Sudanese police forces . Under agreement signed with The Sudan Ministry of Interior – Traffic General administration in June 2007 , the company became fully responsible to maintain , develop and operate the Sudanese traffic System from June 2007.

The new Sudanese system has been executed in cooperation with Secured Smart Systems 3S in Arab Republic of Egypt which developed and designed the new system applications. Accordingly, 3S has properly performed its obligations in accordance with contract signed by it on 21.06.2007.

Currently, The new Sudanese traffic system is sufficiently working in all Sudanese traffic sites without any previous troubles occurred in the old system which expired in July 2007 .

This is to certify the contents,,,

We certify that Messrs Kushite Integrated Co. Ltd is a member in Sudan chamber of commerce

Seal of Embassy of The Sudan , Cairo

Republic of The Sudan Embassy in Cairo
We certify signature of Sudanese Ministry of foreign affairs
Seal of
Signature :
Date : 21.08.2008

Eng. Magdy Mohamed Sherif

General Manager

25.03.2008

Republic of The Sudan
Ministry of foreign affairs certifies
Seal of Sudan chamber of commerce
Signature :
Date : 08.07.2008

Seal of Kushite Integrated Co. Ltd

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