

KVS SOMA

Complete Fleet Management System

KVS Systems Private Limited

C1, KVS Tower, 212, Sri Ayyappa Nagar, Chinmaya Nagar, Chennai - 600 092, India

Phone : 91.4424797915 / 91.4442550609 Email: info@kvs.co.in

Website: www.kvs.co.in

Table of Contents

- 1. KVS SOMA - In Brief..... 3
- 2. Features and Functionalities..... 4
 - 2.1 Financial Accounting..... 4
 - 2.2 Inventory Management..... 5
 - 2.3 Movement..... 5
 - 2.4 Billing..... 6
 - 2.5 Vehicle Maintenance 6
 - 2.6 Fuel and Tyre performance Monitoring system 7
 - 2.7 Payroll..... 7
 - 2.8 Key Features..... 7
- 3. Implementation Methodology..... 9
- 4. Product Specifications..... 10
 - 4.1 Softwares used for product development..... 10
 - 4.2 Multi Branching and Multi user..... 10
 - 4.3 Minimum system requirements..... 11
- 5. Quality check..... 12
- 6. Support..... 13

1. KVS SOMA - In Brief

KVS SOMA is a computerized fleet management system designed to meet the requirements of a fleet operator. The system is designed such that the functionalities covered are complete and meet almost all the requirements of a transport company.

The software is designed for companies and corporates houses that own a fleet of vehicles. It becomes an essential tool in places where accurate information, continuous vehicle performance evaluation and increased vehicle efficiency are the keywords.

KVS SOMA, is one of the few solutions available that provide an integrated solution. SOMA integrates accounts, inventory, maintenance, payroll, vehicle movement and billing operations of a transport company into a single solution, thereby, having effective control over the entire operations and also reducing redundant entry of data. Also, such a system would facilitate data mining and thus help detailed analysis.

As it is an off line solution it is immediately welcome by medium scale operators who think about the investment required to setup an on line system. Thus it proves to be an economical solution and is most suited for operations where branches are in remote areas or rather where Internet connectivity is a premium.

2. Features and Functionalities

KVS SOMA is a complete system, totally integrated with all necessary procedures and reports for the operations to be in place. SOMA consists of different modules and based on the requirements of the user, desired modules may be selected.

- Financial Accounting
- Inventory Management
- Movement
- Billing
- Vehicle maintenance
- Fuel and Tyre performance Monitoring system
- Payroll

2.1 Financial Accounting

Financial Accounting is complete and totally integrated with all other modules. It includes final statements like the ledger book, profit & loss statement, trial balance etc. and also other statements like the cash book, bank book etc. Statuary forms have also been taken care of. This system includes analysis such as cost center analysis as well. Some of the reports and queries include

- Bank Book
- Cash Book
- Ledger Book
- Trail Balance
- Profit & Loss Statement
- Balance Sheet
- Daily Cash Sheet
- Age Wise Report
- Queries based on Payment
- Queries based on Receipts
- Queries based on Journal
- Queries based on Purchase Bill
- Queries based on Debit Note
- Queries based on Credit Note

2.2 Inventory Management

The Inventory system is designed to bring a systematic approach to the inventory system in the organization. It brings about complete control and arrests pilferages. The system includes the raising of a purchase order, then the goods receipt wherein details about the goods received against the order placed are keyed. Finally, is the goods issue where the issue details are given. The necessary accounting is done using a suitable accounting method at all stages. In case of multiple branches, stock transfer Issue and Receipts are taken care of.

- Stock Ledger Report for Stock
- Reject Items Report
- Purchase Register
- Tyre Stock Register
- Part Stock Register
- Inventory Queries based on Purchase Order
- Inventory Queries based on Goods Receipts
- Inventory Queries based on Goods Issue
- Pending Queries based on Purchase order

2.3 Movement

The current status of the vehicle is know at all times and at all branches if the vehicle status is updated at any one of the branches. A trip challan is generated whenever a vehicle is loaded. This challan contains the trip details such the consignee, consignor, customer etc. Invoices are raised based on the trip challan, and thus there is complete control over the invoices raised.

- Daily vehicle movement report
- Vehicle Movement Register
- Vehicle Idle time analysis
- Queries based on Trip Challan
- Inventory Queries based on Work Order
- Inventory Queries based on Vehicle Movement
- Inventory Queries based on Trip Challan
- Pending Queries based on Work Order
- Pending Queries based on Trip Challan

2.4 Billing

The Billing module is completely integrated with the accounts and the vehicle movement. Thus, the system becomes tightly coupled and a complete track is kept right from the time the vehicle is loaded to the raising of invoice to the collection of the invoice amount. Different billing options are taken care of with respect to the billing unit such as per Km, per trip etc.

- Age wise analysis of creditors and debtors
- Queries based on Invoice
- Queries based on Private Lorry Hire Payment
- Queries based on Market Load Hire Receipts
- Queries based on Halting Charges

2.5 Vehicle Maintenance

An exhaustive list of reports are available for the vehicle maintenance. Reports generated may be categorized based on the place where the activity is done i.e., Inhouse or Out sourced or On road. Analysis may also be done based on the type of maintenance i.e., scheduled or preventive or corrective or emergency.

- Scheduled maintenance
- Maintenance Performed
- Comparative Statement / Analysis
- Work request / completed statement
- Work Gap Analysis
- Maintenance cost analysis
- Vehicle fuel Mileage
- Part status on Vehicle
- Part repair History
- Running cost / Km report
- Odo Meter Details
- Queries based on Job Issue
- Queries based on Job Return
- Queries based on Vehicle Maintenance
- Queries based on Part Mount/Removal

2.6 Fuel and Tyre performance Monitoring system

As fuel and tyres constitute a majority of the running expenses on a vehicle, SOMA provides an in depth analysis of the performance of tyres on vehicles and fuel efficiency. The entire life of every tyre can be tracked and the total expenses including the maintenance / repairs done toward the tyre can be determined. Thus, cost per Km found is almost precise. Fuel efficiency can be determined not just vehicle wise but also based on the driver.

- Fuel filling Register
- Driver wise vehicle wise fuel consumption
- Tyre Age / Tyre Card / Tyre History
- Tyre status on Vehicle
- Fuel and Tyre Efficiency
- Tyre repair History
- Running cost / Km report
- Queries based on Fuel Consumption
- Queries based on Retread Issue
- Queries based on Retread Return
- Queries based on Tyre Mount/Removal

2.7 Payroll

Trip Advances that the driver collects from different branches are settled at different times and not in sequence always. Similarly, salary advances may be collected and deducted monthly. SOMA takes care of these issues and a driver wise list of unsettled advances are known at any given point of time. Provision to include any deduction or incentives while generation of payslip is also provided.

- Pending Advances
- Monthly payslip report
- Queries based on Advance Payment
- Queries based on Settlement of Advance

2.8 Key Features

- All modules completely integrated
- Supports multiple branches
- Off line method used to connect multi branches
- Supports Multi User

- Remainder Facility available for all modules
- Global search facility available
- Grouping of vehicles can be done in order that reports can be viewed for the particular group of vehicles
- Installation done using Install Shield for easy installation, up gradation and maintenance
- Querying available in all modules
- All reports may be saved in various formats like MS-Excel, Word, Lotus Notes or even standard export formats like Comma Separated Values, character separated values etc. Also, the report can even be sent directly to the mail outbox.

3. Implementation Methodology

In order to ensure smooth transition from the existing system to SOMA, we do the implementation in a systematic and structured manner. Our Implementation process starts with System study.

- Study of Existing system and requirements

Complete and thorough analysis of the existing system of operations in the organization will be made and all the user requirements are defined.

- Determining and finalizing the changes required to the output format.

Based on the analysis performed, the '*Proposed system*' report will be submitted which will contain the list of changes necessary to suit the requirements of the user with complete details of the software system that will be installed. Once the '*Proposed system*' is agreed and signed off, the changes would be incorporated into SOMA.

- UAT and installation of SOMA

Once the changes that were agreed upon are incorporated into SOMA, the system would be put through the User Acceptance Test where the user may test the system to ensure the systems is per requirements agreed. Once, the systems passes the UAT, the installation of SOMA will be done in the live sites.

- Training

Complete training is provided for two staffs identified by the client.

- SignOff

Once the installation and training is complete, '*Sign off*' will take place confirming the working of the system is in line with the specifications in the '*Proposed system*'.

- Monitoring the working of the system on periodical basis

The working of the system will be monitored on periodic basis to evaluate the performance and functioning of the system.

4. Product Specifications

4.1 Softwares used for product development

Front end : Microsoft Visual Basic

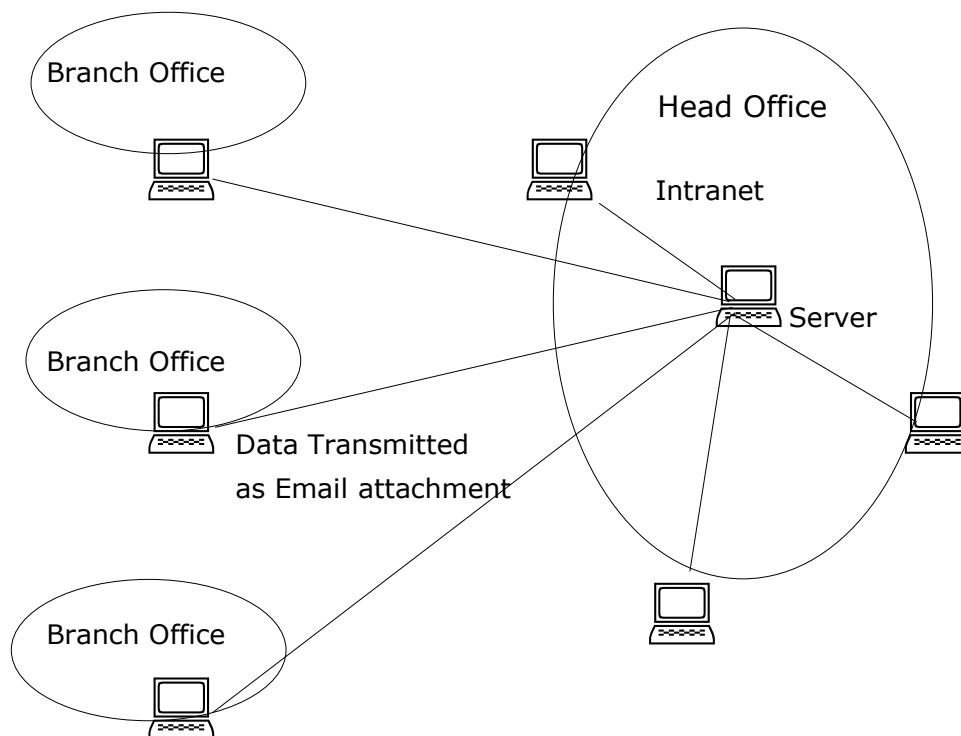
Data Base : MySql 4.0

Reporter : Crystal Reports 7

Product deployment : Installshield Developer Version 7

4.2 Multi Branching and Multi user

SOMA supports Multi Branching where each of the branch is considered a client and they would be connected to the server using dedicated lines. Within a branch multiple users can log into the system simultaneously using multiple nodes that are connected locally to the server.



Systems within the same office premises

The system is designed using Client Server architecture and thus within the same premises, the Server may be connected to other client systems using 100 MBps LAN connection.

When the system is located in different locations

Data synchronization between different branches is done by creation of a database from the branch transmitting data. The database created contains data that needs to be transmitted to the other branch. The same is compressed using PKZip. Now, the compressed file may be sent as an email attachment to other systems using any email client. At the receiving end, the file is deflated using PKUnzip and the contents in the Access Database. Now action is taken by the system to update the data into the database.

4.3 Minimum system requirements

CPU : Pentium IV

RAM : 128Mb

Hard Disk space : 500 Mb Free space

Monitor : SVGA with 800 X 600 resolution

Network : 100 Mbps LAN card with suitable network connection

Backup : Any External Backup device such as CD-RW for periodical database backup

Internet : Internet Explorer 5.0

Database : MySql version 4.0

Email Client : Any suitable email client and email ID (*required only for multi branching option*)

5. Quality check

Quality of the product is of highest priority in development phase. Periodical review of the code is done among peers to ensure the code is of the best standards. We have a number of tools to ensure that quality of the product before it is dispatched to the client.

These tools are completely designed in house and thus are completely compatible with the software to be tested. Moreover they can provide additional features that we require and are not available in ready made testing tools.

Tools designed in-house include Test script designer, Test script builder and Test engine. Script builder is used to build the scripts for testing. Using the script designer, can create scenarios for testing and execute the scripts using the test engine. These tools used ensure that the software is in line with the desired requirements and that the functionality is completely tested.

Other than the systematic testing done to ensure validity of data input and reports produced, other testing such as multi user testing, Stress testing and black box testing are also done. Thus, the system is built to be a robust one.

6. Support

KVS SOMA has undergone the most rigorous tests. Moreover, several client installations over the period has ensured that the system is bug free. For quick and effective problem analysis, the product is designed such that it would automatically record the transaction details in the event of any error. This would help us identify the problem immediately.

Our support team consists of both technically skilled engineers and personnels with complete functional knowledge of the system. Moreover, we customer managers allocated to a specific number of clients and thus ensure individual care. Moreover, the customer manager facilitates a single point of contact between the customer and the company. He acts as a single point of contact between the company and the client.

We have dedicated telephone line and high speed Internet access. Whenever necessary, we provide on-site support as well. Our support team is sufficient in numbers and fully equipped to provide support within the shortest possible time.