

# Wisdom Vehicle Movement System V1.2

*An Overview of Vehicle Movement System*



*Wisdom Corporation*

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## 1. Wisdom

WISDOM Corporation is a leading provider of custom business solution. Founded in 1997 (previously known as MTG Data Systems), we specialize in Microsoft technologies based software development and our team is always interested in new opportunities.

We are specialized in Microsoft Windows and Web platform using technologies like Microsoft .Net (C#, VB.NET and ASP.NET), Microsoft Office products etc, whereas we use MS SQL Server as our database.

Our success originates from the values that we hold as a company. These values permeate every facet of our company, from our employees to our clients.

## 2. System Introduction

### **Objective**

The objective of this specification is to set out the technical details of the Vehicle Movement System. It explains how the system is built and deployed. It excludes non-technical matters such as project management, business cases, human resources, or training.

## 3. Programming Specifications

### **Programming Languages & Database**

- Microsoft .Net Framework V 1.1
- Microsoft Compact Framework 1.1
- Visual Basic.Net
- ASP .NET
- MS SQL Server 2000
- MS SQL Server CE 2.0
- Symbol Mobility Developer Kit v1.0 for .NET

### **Programming Tools**

- MS Access 2000
- MS Excel 2000

## 4. Security

### **Security Model**

- NT or other operating system security
- Database security
- Scalability
- The security definition types are:
  - User Profiles: Each user has an individual User Profile, which in turn is linked to one or more Roles.
  - Roles: To each Role, you add one or more Permission Lists, which ultimately control what a user can and can't access.
  - Access Profile: The Roles are then attached to a User Profile, and the user connects to the database by way of the specified Access Profile
- User Profiles: A User Profile is a set of data describing a particular user system. A User Profile inherits most of its permissions through the Role(s) or roles that have been assigned to the User Profile.

## 4. System Requirements

### **Client Side Requirements**

- Operating system: Windows 2000/XP
- RAM: 256 MB
- Hard drive storage: 20 GB Minimum
- Resolution: 800x600, High Color (Preferably 1024x768, True color)

### **Server System Requirements**

- Operating system: Windows 2000/2003 Server
- Memory: 512 MB
- Hard drive storage: 80 GB Minimum

### **System Architecture**

- Completely server-Clients based architecture
- Clients can be nearly any kind of Web browser running on a PC
- The Internet Application Server (IIS) tier is the heart of Intranet Architecture
- SQL Access Manager - Manages all interaction with the relational DBMS via SQL
- Microsoft SQL Server

### **Backup**

Batch files are scheduled using Windows Task Scheduler on daily and monthly basis to backup the data. This backup is getting copied on CD on weekly basis.

### **Administration**

System has a separate Administration module, which handles system configuration settings, user creation, system rights assignment and application parameters.

### **Support and Maintenance**

Above the system administrator, system is completely support and maintain by Wisdom support engineers periodically.

### **Expandability**

System is fully scalable to meet future needs. Additional forms and fields can be added as per Al Hamadah operation requirements.

### **Reporting**

Reports are in HTML and MS Access format. HTML reports can be viewed from Internet Explorer. All the reports can be customized and additional reports can be added.

### **Redundancy and Recovery**

Server is mirrored on Compact disk. In case of server failure, within 2-3 hours, setup and configuration can be restored on the new server.

## 6. Screen Definitions – Business Application

### A. Log-In

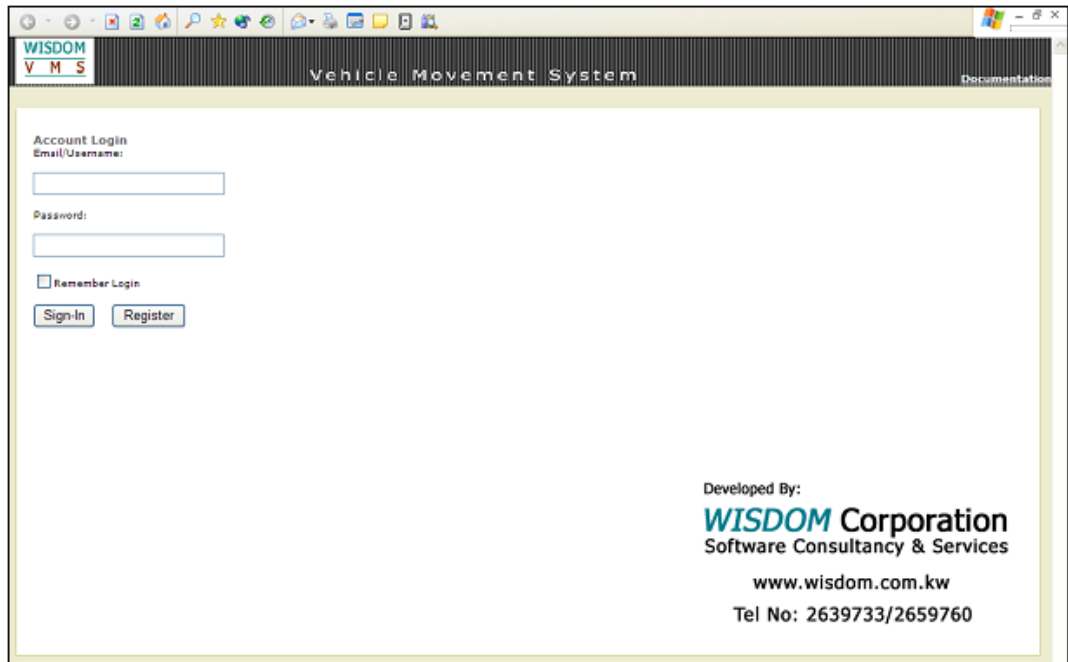
**Description:**

The first screen when user type the VMS address in web browser. Which allows user to enter his/her user name and password. VMS has an advance user management system, which manages user's rights and permission inside the system based on the user id.

System checks for the valid user name and password and allow user to enter into the system.

**Validation:**

No validation for controls.



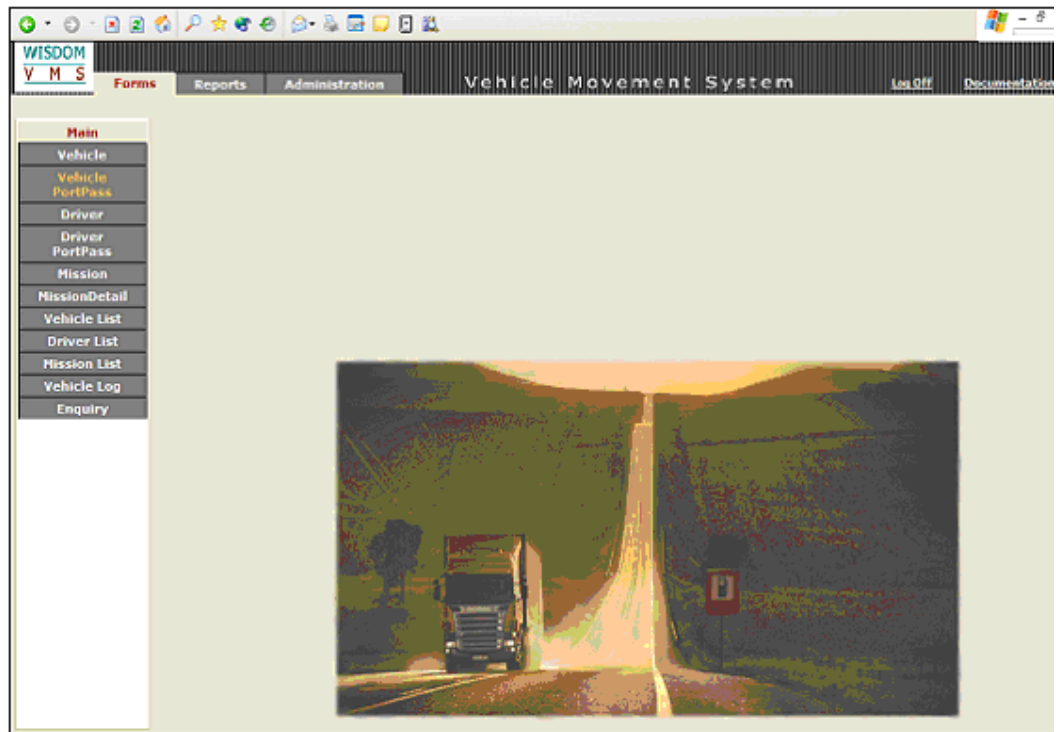
The screenshot shows a web browser window displaying the 'Vehicle Movement System' login page. The page has a dark header bar with the 'WISDOM VMS' logo on the left and 'Vehicle Movement System' in the center. A 'Documentation' link is visible on the right. The main content area is white and contains the 'Account Login' section. This section includes a label 'Email/Username:' followed by a text input field, a label 'Password:' followed by another text input field, a 'Remember Login' checkbox, and two buttons: 'Sign-In' and 'Register'. In the bottom right corner of the page, there is a 'Developed By:' section with the 'WISDOM Corporation' logo, the text 'Software Consultancy & Services', the website 'www.wisdom.com.kw', and the phone number 'Tel No: 2639733/2659760'.

**B. Welcome Screen****Description:**

The welcome screen shows only those options which user has got based on his/her rights and permissions.

**Validation:**

No validation for controls.



## C. Vehicle Information

### Description:

The form contains all the required fields related with vehicle. User can create new vehicle record and edit an existing record. The search fields helps user to search for an existing record. User can search record by Vehicle ID, License plate no, Key no and Door no.

### Validation:

Vehicle ID cannot be duplicated.

**Vehicle Information Entry Form**

Vehicle ID: 500052      Last Vehicle ID: 5000007

Owner: COMPANY

Year: 2004

Make: MERCEDES

Model: 3848

License Plate#: 38889

VIN No: WDB9341611K880786

Trailer No:

Key No: 310

Door No: 391

Type: HETT

Color: WHITE

Registration Info: Number      Issue Date: 2/22/2004      Expiry Date: 1/17/2006

Default Driver: 100321

Remarks:

Save      Cancel      Delete

## D. Vehicle Port Pass Information

### Description:

Vehicle's port pass information like PP No, Expiry date etc can be entered in this form.

### Validation:

If the vehicle's existing port pass is not expired then new port pass cannot be entered for the same vehicle.

**Vehicle Port Pass Information Entry Form**

License Plate No: 133189

Port Pass Info: Number: 280      Expiry Date: 31/03/2005

Remarks:

Save      Cancel      Delete

## E. Driver Information

### Description:

This form helps user to enter driver's personal information. The search fields helps user to search for an existing record. User can search record by Driver ID, Name, Passport No and Civil ID.

### Validation:

Driver id cannot be duplicate.

## F. Driver Port Pass Information

### Description:

Driver's port pass information like PP No, Expiry date etc can be entered in this form.

### Validation:

If the Driver's existing port pass is not expired then new port pass cannot be entered for the same Driver.



## G. Mission

### Description:

Mission master form where user can enter header information for the specific mission. This information will be printed on Mission Manifest header section. Existing mission can be search by Mission ID, TMR No and Convey Clearance No, using search criteria field.

### Validation:

Mission ID cannot be duplicated.

## H. Mission Detail

### Description:

The vehicle and driver detail for the specific mission can be add/edit here. If the vehicle has a default driver assigned in vehicle screen then system will bring that driver or user can enter different driver.

### Initialisation:

User can save his/her new or existing record by pressing **ADD** button. User can edit record by clicking on Pencil icon and delete by clicking red cross icon. Button s functionalities are totally controlled by user's rights and permissions.

### Validation:

Driver ID will accept only those drivers whose passport/civil id is not expiring in next one month.

SNo	License Plate #	Trailer No	Driver ID	Edit
1	38840		100671	
2	38841	1234	100832	

## I. Vehicle List

### Description:

This form lists all the vehicles record entered into the system. User can click on vehicle id to view the complete detail of particular vehicle. User can filter list for specific vehicle or group of vehicle using search criteria by Vehicle ID, License plate no, Key no and Door no.

### Validation:

No validation for controls.

Vehicle (click vehicle name to edit)	Lic Plate No	Door No	Key No	VIN No	Permit Expiry
1010101		12	12		1/1/2006
1000007					
1000001	38840	640	161	WD69341611K872558	1/17/2006
1000002	190066		805	WD69340121K928340	7/11/2006
1000003	190068	1842	835	WD69340121K923520	7/11/2006
1000004	190069	1779	818	WD69340121K928113	7/11/2006
1000005	38841	642	247	WD69341611K876612	1/17/2006
1000006	38842		265	WD69341611K883370	1/17/2006
1000007	38843	522	315	WD69341611K882933	1/17/2006
1000008	38844	648	157	WD69341611K873658	1/17/2006

## J. Driver List

### Description:

This form lists all the drivers record entered into the system. User can click on Driver ID to view the complete detail of particular Driver. User can filter list for specific Driver or group of Driver using search criteria by Driver ID, Name, Passport No and Civil ID.

### Validation:

No validation for controls.

Driver (click Driver name to edit)	Name	Nationality	PassportNo	PassportIssue	PassportEnd
1000001	BABU KHAN	INDIAN	A1379633	6/11/1996 12:00:00 AM	6/10/2006 12:00:00 AM
1000002	PAKWAIZ ALAM	INDIAN	A 8566577	2/17/2000 12:00:00 AM	2/16/2010 12:00:00 AM
1000003	BIHARI LAL	INDIAN	E 2887402	9/8/2002 12:00:00 AM	8/8/2012 12:00:00 AM
1000004	JASBIR SINGH	INDIAN	E5093008		3/8/2013 12:00:00 AM
1000005	MOHAMMAD AZAD	INDIAN	A6154299	12/1/1998 12:00:00 AM	11/30/2008 12:00:00 AM
1000006	SURINDER PAL SINGH	INDIAN	E6823925		11/5/2013 12:00:00 AM
1000007	CHITADIVIL CHACKO SKARIA	INDIAN	A6231400		9/15/2008 12:00:00 AM
1000008	SHEHNBAR SINGH	INDIAN	E 0374562	7/30/1999 12:00:00 AM	7/29/2009 12:00:00 AM
1000009	SATWINDER SINGH KUMAR	INDIAN	A9822731		7/9/2011 12:00:00 AM
1000010	JASPAL SINGH	INDIAN	U545211	12/21/1995 12:00:00 AM	12/20/2005 12:00:00 AM

## K. Mission List

### Description:

This form lists all the missions record entered into the system. User can click on Mission ID to view the complete detail of particular Mission. User can filter list for specific Mission using search criteria by Mission ID, TMR No and Convey Clearance No.

### Validation:

Describe validation for controls.

Mission (click Mission name to edit)	Date	Description	TMRNo	Reqd. Unit	EscortName
25FRCAS1EQ	2/20/2005 12:00:00 AM	IRAQ MISSION	123456	HL-IV	ANIL
22	1/12/2005 12:00:00 AM	TEST	123456	HLLL	III

## L. Vehicle Log

### Description:

This form is used for tracking vehicle and driver's in/out log. User can select movement type and enter date, time, purpose and remarks for particular log.

System can produce a movement detail report for the specific vehicle/driver.

### Validation:

License Plate No and Driver ID fields will accept only valid entry, which exists in database.

VehicleID: 25 Search

License Plate No: 38540

Driver ID:

Mission ID:

Movement Type: IN

Date:

Time:

Purpose:

Remarks:

Save Cancel Delete

**M. Enquiry****Description:**

User can enquire for movement of the vehicle/driver within a date range. System will show all the movement for the particular date range.

**Validation:**

Date From and Date To field cannot be blank.

The screenshot shows the WISDOM Vehicle Movement System interface. The top navigation bar includes 'Forms', 'Reports', and 'Administration'. The main content area has a left sidebar with a 'Main' menu containing options like Vehicle, Vehicle PortPass, Driver, Driver PortPass, Mission, MissionDetail, Vehicle List, Driver List, Mission List, Vehicle Log, and Enquiry. The main form area contains input fields for 'Lic Plat No' (38840), 'Driver ID', 'Date From' (01/01/2000), and 'Date To' (01/01/2006), along with a 'Refresh' button. Below the form is a table displaying movement records.

Lic Plate	Driver ID	Mission ID	Date	Time	Movement	Purpose	Remarks
38840	100005	IRQ54	1/12/2005	12:00 PM	OUT	TEST	TEST
38840	100006	IRQ55	1/13/2005	03:00 PM	IN	TEST	TEST
38840	100004	IRQ52	1/15/2005	05:00 PM	OUT	TEST	TEST

**Initialisation:**

User can save his/her new or existing record by pressing **Save** button and cancel by pressing **Cancel** button. **Delete** button is used for deleting the record. Button s functionalities are totally controlled by user's rights and permissions.

## 7. Screen Definitions – Handheld Application

### A. Log-In

**Description:**

To use VMS on handheld, user has to login here with the same User ID and Password, which he/she is using for business application. System checks for user id and password validity and let user to sign in.

**Validation:**

No validation for controls.



### B. Movement Detail

**Description:**

User can describe the purpose of data capture and the type of movement.

**Validation:**

No validation for controls.



### C. Read Barcode

#### Description:

With the barcode reader user can scan the vehicle and driver's barcode. System will put current date/time in **Movement Date&Time** field and save the record in device database.

User can go back by clicking **Back** button to change previous screen detail.

#### Validation:

Movement Date&Time field cannot be enter by user.



Barcode Reader

### D. Detail View

#### Description:

This screen will show all the data, which are captured in current transaction.

#### Validation:

Data grid is read only.



## 8. Mission Manifest

### A. Manifest Viewer

#### Description:

User will enter the Mission ID to preview manifest. User can select English/Arabic language for the manifest.

#### English Manifest:

**AL-HAMADAH LOGISTICS INTERNATIONAL**  
Driver Tasking Time Sheet  
HL-IV

☐ Open
 ☐ Emergency
 ☐ Close
 ☐ Routine

TMR No : 123456      Convoy Clearance No : 5252  
 Requesting Unit : HLUL      Escorting Unit : Bk  
 Escort Name : III      Mobile No : 525353      Signature : \_\_\_\_\_  
 Time Of Escort / Arrival : 11:00      Actual Dep Time : 19/01/2005 11:00:00 AM  
 Mission Date : 12/01/2005      Estimate Date Return : 24/01/2005      Actual Return Date/Time : 19/01/2005  
 Origin : Ist      POC, Origin : Bkg      Destination : hgdgh      POC : hghh

SNO.	UN Pass No.	DRIVER ID	DOOR NO.	TUR NO.	NAME	NATIONALITY	VISA Type	RESIDENCE NO.	Rmk. Exp.	Passport No.	Passpt Exp.	License Exp.
1	38840	100071	640	1234	GURRAL SINGH	INDIAN	14	150240235	01-Apr-2005	E 1643555	22-Jun-2012	21-Dec-2005
2	38841	100032	642		SHAMSUL USMAN MANSOOR KHAN	PAKISTANI	14	170301197	24-Jun-2005	KD 074753	29-Jan-2009	01-Jun-2005
3	38845	100003	627		SHARILAL	INDIAN	10	26903010602	16-Nov-2005	E 2087602	08-Aug-2012	27-Dec-2014
4	38852	100004	354		JASPER SINGH	INDIAN	14	169655129	10-Aug-2004	E 5050305	06-Nov-2013	05-Dec-2005
5	38855	100005	361		MOHAMMAD AZAD	INDIAN	14	169319502	31-Jan-2005	A6154299	05-Nov-2009	20-Jun-2005
6	38857	100006	356		SURINDER PAL SINGH	INDIAN	14	169316331	26-Nov-2005	E 6623425	05-Nov-2013	10-Nov-2005
7	38891	100007	376		CHITADIL CHACKO SHARIA	INDIAN	14	161263426	16-Jan-2005	A6231402	15-Sep-2009	21-Sep-2014
8	38892	100008	621		SHEKHAR SINGH	INDIAN	14	164657913	24-Mar-2005	B 0374962	29-Jun-2009	30-Aug-2005
9	38893	100009			SATWINDER SINGH KURIAN	INDIAN	14	167977253	25-Jan-2005	A9822731	09-Jun-2011	22-Jan-2005
10	38894	100010			JASPAL SINGH	INDIAN	14	167974330	24-Mar-2005	US45211	20-Dec-2005	11-Nov-2005

TOTAL      22 = 38.7% = 20956

AL-HAMADAH CONTACTS			
HL-IV		RAVISEFAR	
Day	Gary :- 694-0035, J.J. Hook :- 694-4010, Shibu:-694-0038	John Pappachen Ph:-9703303	
Night	Joe Mosquito :- 694-4018, Abdelali :- 694-4021	Shoukat Jamal Ph:-6840071	

HL-IV, ARMY UNIT	
Ph:-694-0024	
354th BRIMT S 2740	

