

Track Forever Enterprise Administrator



User Manual Draft

Version 4.0.5

16th October, 2022

INVINCIBLE TECHNOLOGIES (SMC-PVT) LTD

Invincible People, Invincible Technologies & Invincible Solutions
We develop solutions that reach beyond physical boundaries using state of the art internet,
intranet, GSM, GIS, GPS and related technologies.

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1. Introduction

Track Forever™ is an enterprise grade GSM/GPRS based GPS asset tracking software solution that help corporations of all scales to track their immovable or moveable assets (rails, truck, car, bikes, bicycles etc) in an automated and efficient way. By using this software user can administrate, monitor, communicate, regulate and control fleet. Most of the tasks are automated and require less human interaction.

2. Track Forever Enterprise Administrator

This is control center software application and is a subsystem of Track Forever Enterprise Software Suite. This software package "Track Forever Administrator" mainly focuses on application management and configuration. In this document we'll learn how to perform administrative tasks and do application wide configurations.

"Track Forever Administrator" facilitate administrators to do user management, group management, roles management, SMS gateway management and other miscellaneous configurations. Users created using Administrator application are allowed to login server using Enterprise Client.

3. Installing Software

Track Forever Enterprise Administrator setup wizard is simple and easy featuring a standard Microsoft Windows setup interface for 32bit and 64bit machines. User only needs to complete a few steps.

- 1) Double click on the setup.exe (or similar file name) file on the CD-ROM. This will launch the Setup Wizard.

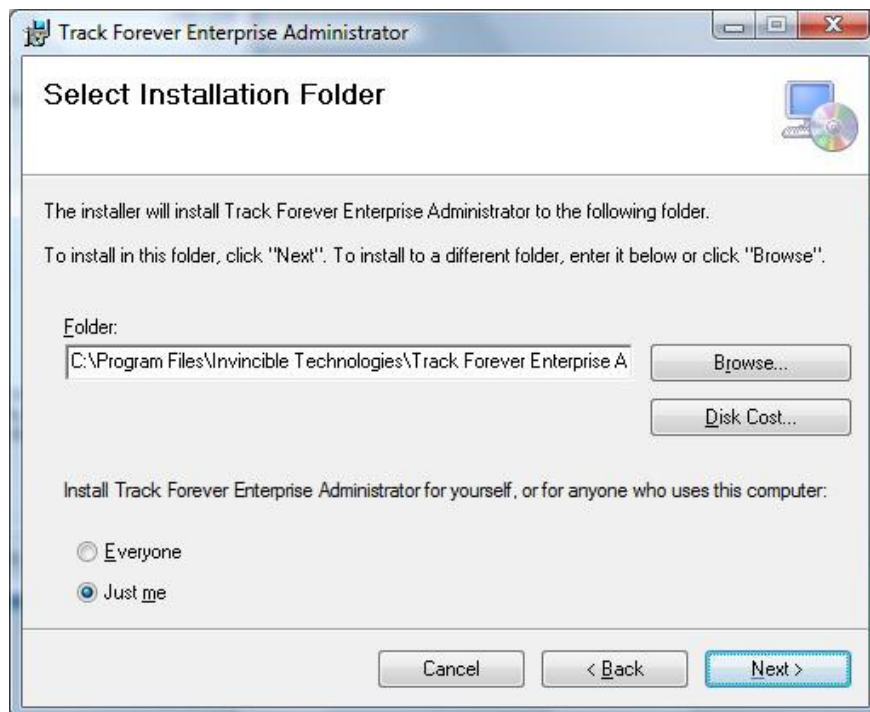


- 2) Click Next on the Window Screen.

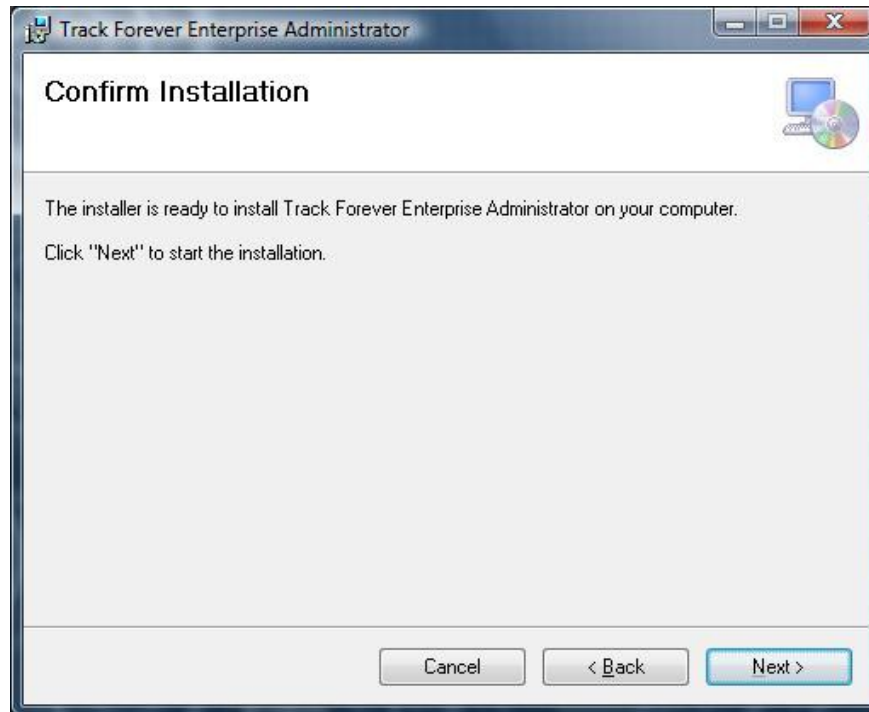
- 3) Read the License Agreement carefully and select "I Agree" and click "Next" to proceed further or click "Cancel" button to cancel the installation wizard.



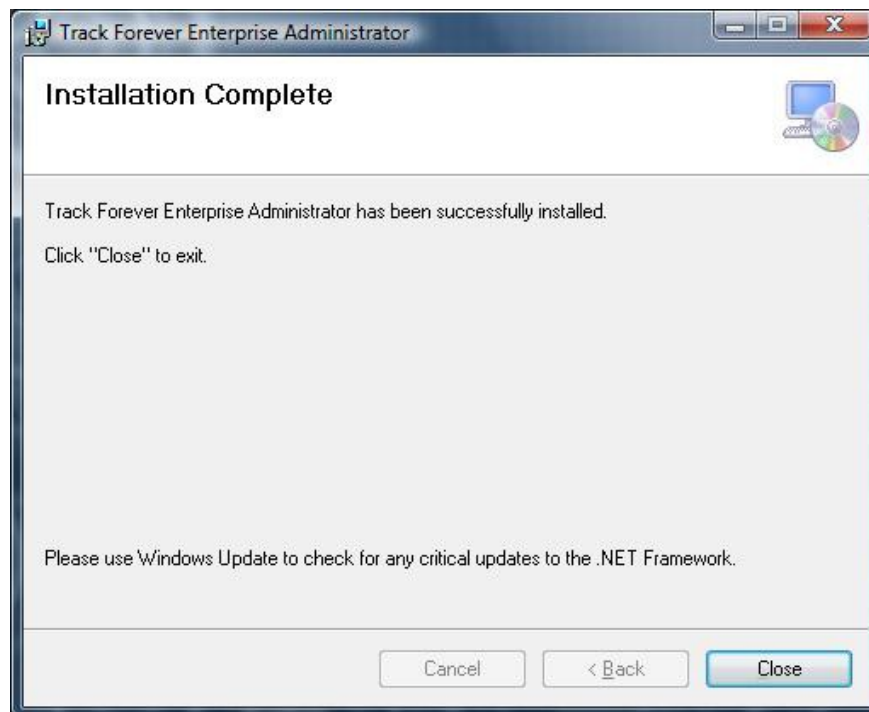
- 4) Select installation folder and click "Next" button.



- 5) Confirm installation by clicking on the "Next" button.



- 6) Track Forever Enterprise Administrator will now install the program files. If there were no problems during installation, user will see the installation complete screen.



4. Uninstalling Software

- 1) You may uninstall software via "Add/Remove Programs" in control panel.

5. Minimum Requirements

The software and hardware prerequisites for installing Track Forever on a Windows system are as follows:

- 1) Microsoft XP, Vista, or Windows 7/8/10;
- 2) Pentium-compatible PC with 1.8GHz or better clock speed;
- 3) Minimum 512MB RAM recommended;
- 4) Up to 1 GB hard disk space;
- 5) 1024x768 resolution (higher resolution recommended), with 16bit or better color depth.

6. Running Application

After successful installation, user may start application by clicking "Track Forever Administrator" icon placed on desktop or by clicking "start->all programs->invincible technologies->track forever administrator" menu item.

Note: "Track Forever Administrator" application will only run on the same machine where "Track Forever Server" is installed.

7. Login

"Track Forever Administrator" uses SQL server database security to authenticate users. Users with appropriate privileges as established in the database will only be able to login and access relevant data. In order to login

- 1) Select the "Login" menu item option from the "Application" menu as shown in fig. 7.1.



(7.1)

8. Logout

In order to logout

- 1) Select the "Logout" menu item option from the "Application" menu as shown in fig. 8.1.

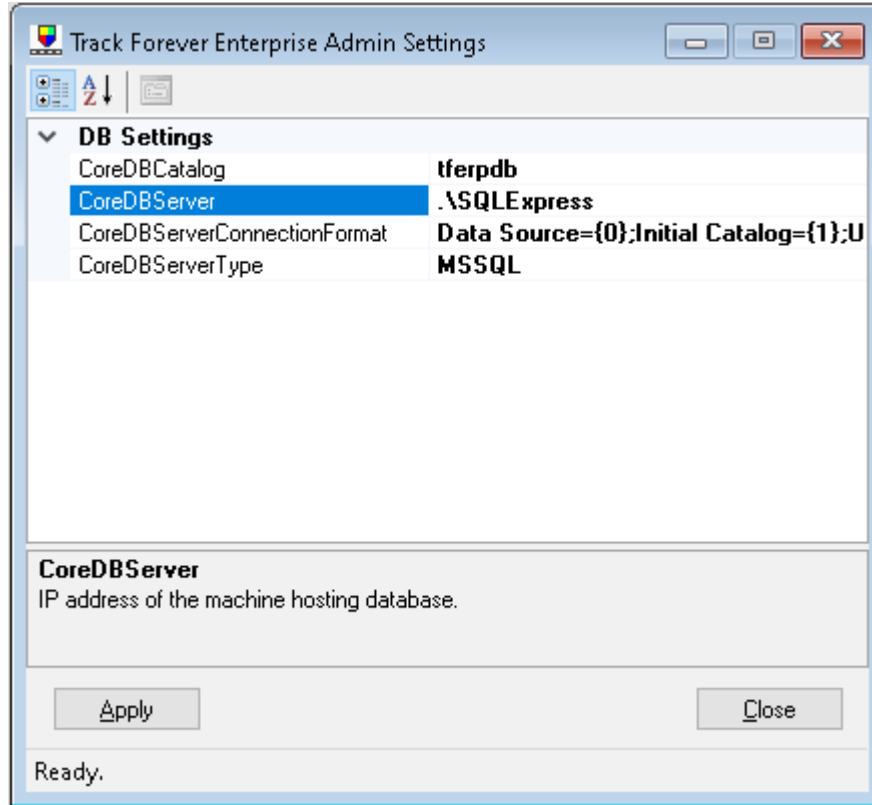


(8.1)

9. Settings

User may configure "Track Forever Administrator" application by applying settings via "Application->Settings" menu item.

- 1) To load settings form, click "Application->Settings" menu item. This will load form as shown in fig. 9.1.
- 2) Edit settings form as per your requirements.



(9.1)

- 3) Press "Apply" button to apply the changes.
- 4) Default login username is "trackforever".
- 5) Default login password is "Track1@123".
- 6) In case of problem please consider configuring SQL Server Security Logins (& Database Users) where appropriate.
- 7) You must override (change) username and password for security reasons.

Note: After applying settings, make sure you restart your application before login.

10. Groups Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

1) Select the "Manage Groups" menu item option from the "Users" menu as shown in fig. 10.1.



(10.1)

2) This will load "Groups Management Form" as shown in fig. 10.2.

Group ID	Name	Description	Contact No 1	Contact No 2	Mobile No	Created On
1	Default	Default group.				15-Jun-2015 18:43:49
2	Demo	Demo Group				11-May-2012 20:19:15
3	Security Mobiles					16-Mar-2013 21:48:45
4	Stock					15-Mar-2014 14:58:15
5	Uninstalled					10-Jun-2013 14:15:21
6	Personal					01-Jan-2015 21:36:04
7	Security Mobiles					31-Jan-2013 15:42:09
8	Stock					31-Jan-2013 18:57:47
9	Uninstalled					20-Jan-2013 17:18:59
10	Personal					18-Oct-2012 13:18:57
11	Security Mobiles					03-May-2014 12:14:23
12	Stock					12-Jan-2013 17:29:50
13	Uninstalled					15-Mar-2014 14:59:15
14	Personal					29-Dec-2012 16:58:09
15	Security Mobiles					23-Aug-2014 14:57:52

Total Records = 15

Save Enable Addition Close Refresh

Ready.

(10.2)

10.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

10.2. Add

User can register new records through "Groups Management Form" as explained below:

- 1) Click "Enable Addition" button on "Groups Management Form".
- 2) This will allow user to add new records in the grid as shown in fig. 10.3.

Group ID	Name	Description	Contact No 1	Contact No 2	Mobile No	Created On
Default	Default	Default group.				11-May-2012 20:19:15
Demo	Demo	Demo Group				16-Mar-2013 21:48:45
Security Mobiles	Security Mobiles					15-Mar-2014 14:58:15
Stock	Stock					29-Dec-2012 16:58:09
Uninstalled	Uninstalled	Uninstalled vehicles group.				23-Aug-2014 14:57:52
MyGroup						

Total Records = 15

Buttons: Save, Disable Addition, Close, Refresh

Status: Ready.

(10.3)

- 3) Type in new record details.
- 4) Press "Save" button to register new records.

10.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may edit multiple records and,
- 3) Press "Save" button to save.

10.4. Delete

User can delete records as explained below:

- 1) Select the record in "Groups Management Form" by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

11. Branches Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Branches" menu item option from the "Users" menu as shown in fig. 11.1.



(11.1)

- 2) This will load "Branches Management Form" as shown in fig. 11.2.

Branch ID	Name	Description
Islamabad	Islamabad	
MainBranch	Main Branch	

(11.2)

11.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

11.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

11.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

11.4. Delete

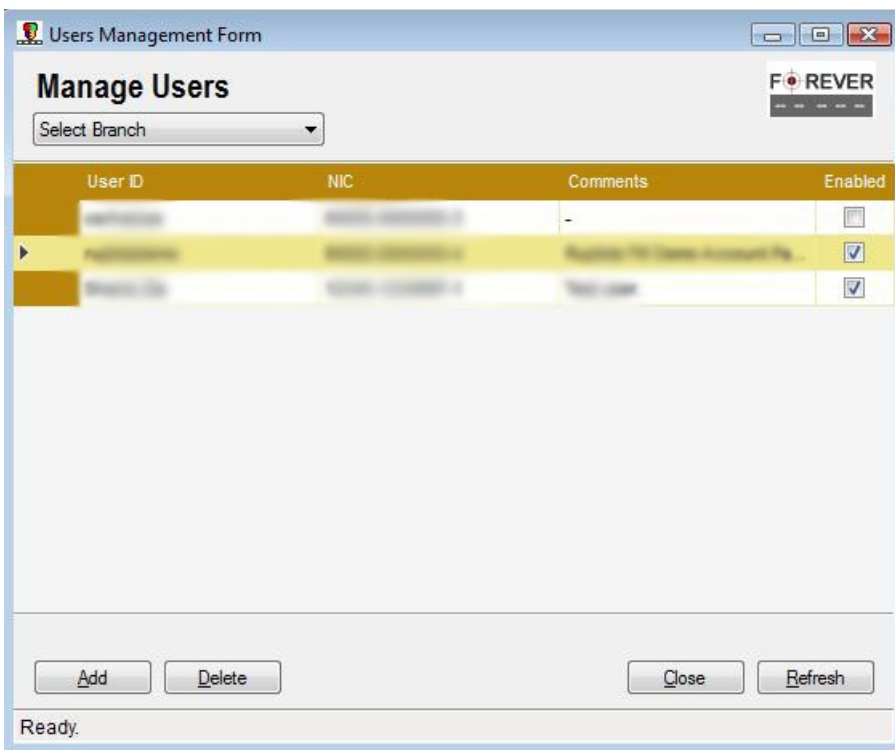
User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

12. Users Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Users" menu item option from the "Users" menu as shown in fig. 11.1.
- 2) This will load "Users Management Form" as shown in fig. 12.2.



The screenshot displays the "Users Management Form" window. At the top, there is a title bar with the text "Users Management Form" and standard window controls. Below the title bar, the main area is titled "Manage Users". Under this title, there is a dropdown menu labeled "Select Branch". To the right of the dropdown is the "F+REVER" logo. Below the dropdown and logo is a table with four columns: "User ID", "NIC", "Comments", and "Enabled". The table contains three rows of data. The first row has a yellow background. The second row has a white background. The third row has a yellow background. Below the table, there are four buttons: "Add", "Delete", "Close", and "Refresh". At the bottom of the window, there is a status bar that says "Ready."

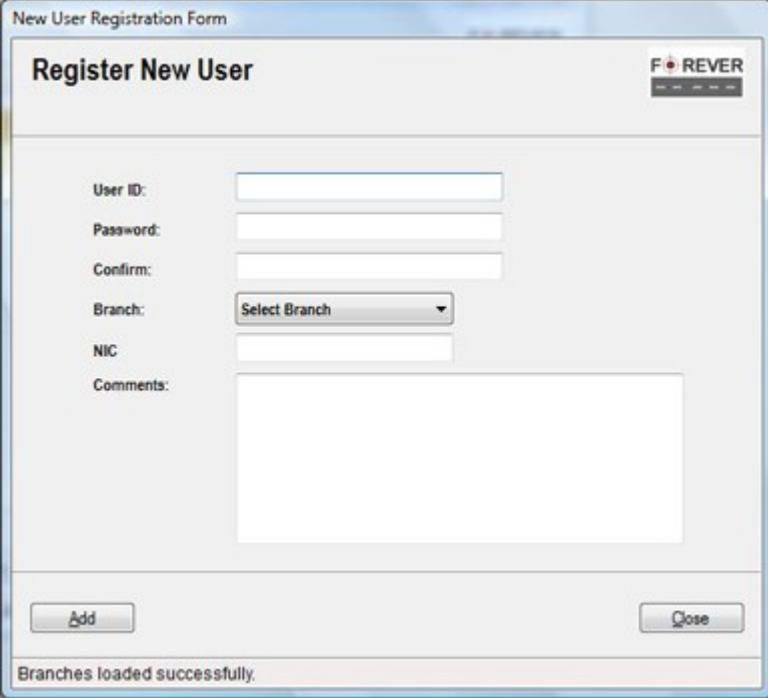
User ID	NIC	Comments	Enabled
1	2	3	<input type="checkbox"/>
2	3	4	<input checked="" type="checkbox"/>
3	4	5	<input checked="" type="checkbox"/>

(12.2)

12.1. Add

User can register new records as explained below:

- 1) Click "Add" button on the "User Management Form", "New User Registration Form" will be loaded as shown in fig. 12.3.



(12.3)

- 2) Fill in the form.
- 3) Press "Add" button to save record.

12.2. Edit

User can edit record through "Users Management Form" as explained below:

1. Select the record from "Users Management Form" as shown below figure 12.2.
2. Double click on selected record. This will load the "Edit Form" with selected record details as shown in figure 12.5.

(12.5)

3. Edit details and update record by pressing "Update" button.

12.3. Delete

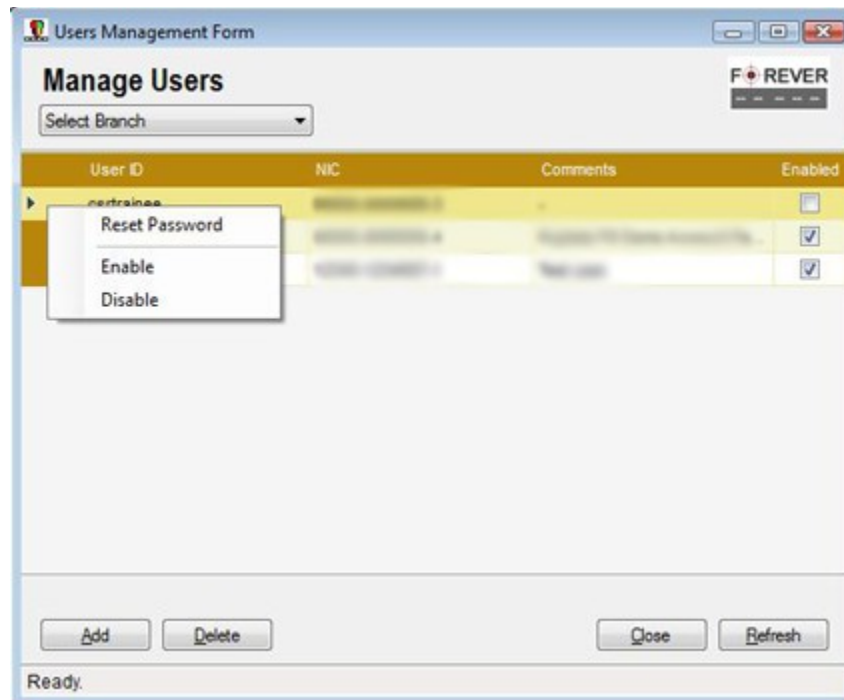
User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

12.4. Enable / Disable Account

User can enable or disable account as explained below:

- 1) Select and right click on row header of the selected record,
- 2) Popup menu will be displayed as shown in fig. 12.6.



(12.6)

- 3) Click on "Enable or Disable" context menu item to either enable or disable user account.

12.5. Reset Password

User can change account password as explained below:

- 1) Select and right click on row header of the selected record,
- 2) Popup menu will be displayed as shown in fig. 12.6, then
- 3) Select "Reset Password" menu item option.
- 4) This will load "Reset Password Form" as shown in fig. 12.7.

Change Password Form

Change User Password

FOREVER

User ID:

Password:

Confirm Password:

Ready.

(12.7)

- 5) Fill in the "Password" and "Confirm Password" fields.
- 6) Press "Update" button to save new password.

13. User Groups Management Form

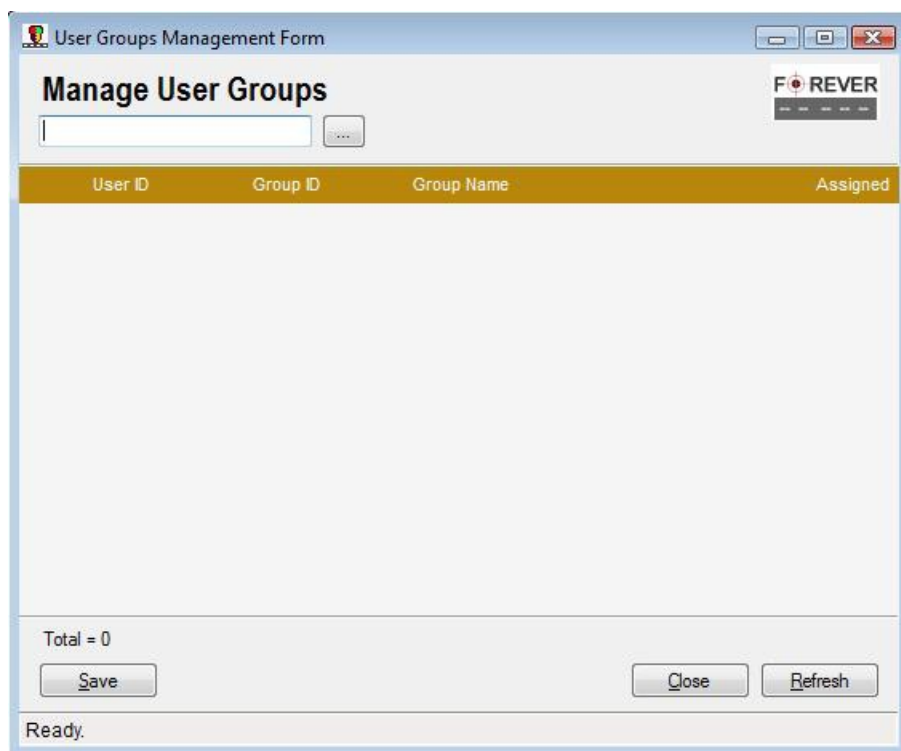
"User Groups Management Form" let administrators to assign one or more groups to users. In order to do so,

- 1) Select the "Manage User Groups" menu item option from the "Users" menu as shown in fig. 13.1.



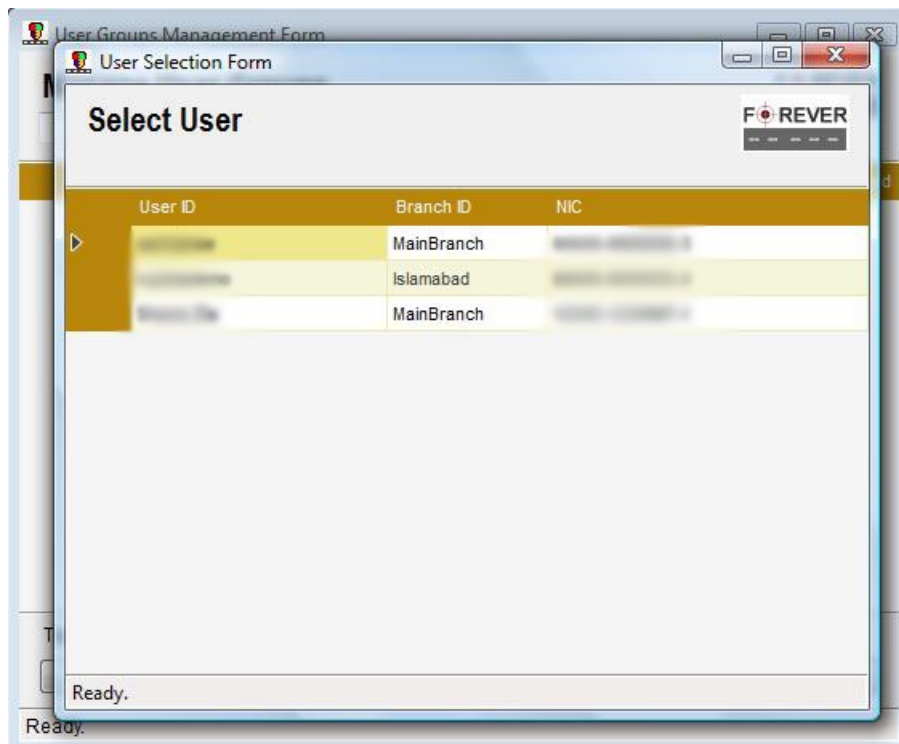
(13.1)

- 2) This will load "User Groups Management Form" as shown in Fig. 13.2.



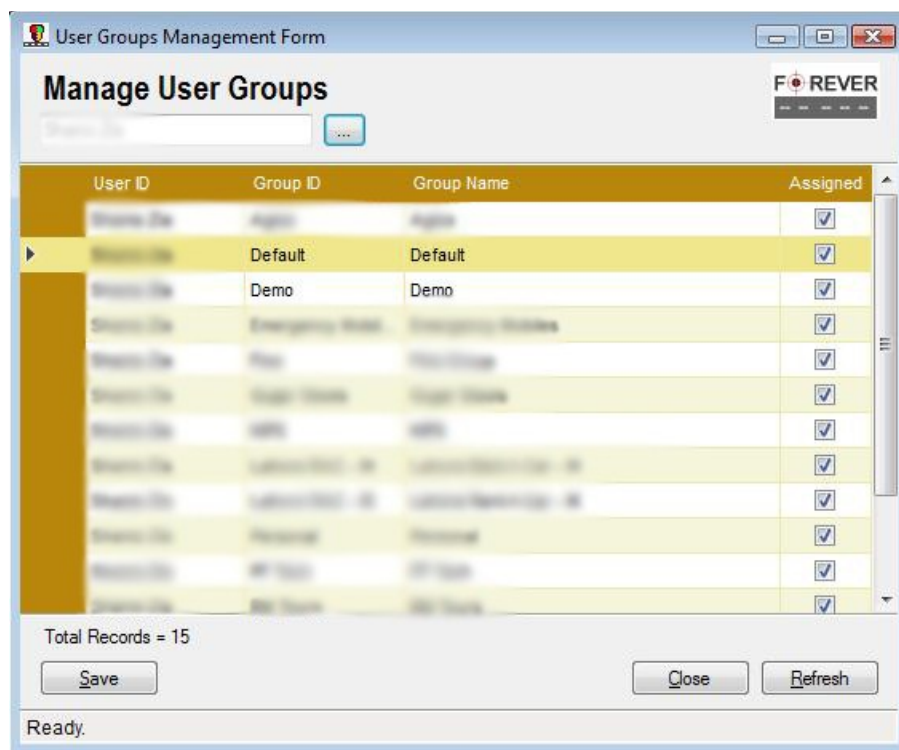
(13.2)

- 3) Click on "..." caption button, this will load the "User Selection Form" as shown in fig. 13.3.



(13.3)

- 4) Double click on the user row header in "User Selection Form". This will load selected user groups as shown in fig. 13.4.



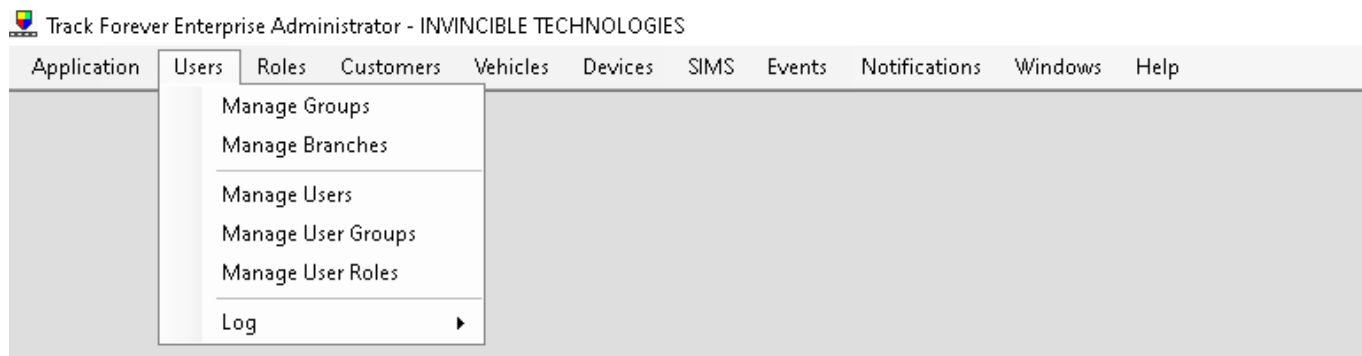
(13.4)

- 5) In order to select one or more groups check "Assigned" checkbox in front of group names and press "Save" button to update the changes.

14. User Roles Management Form

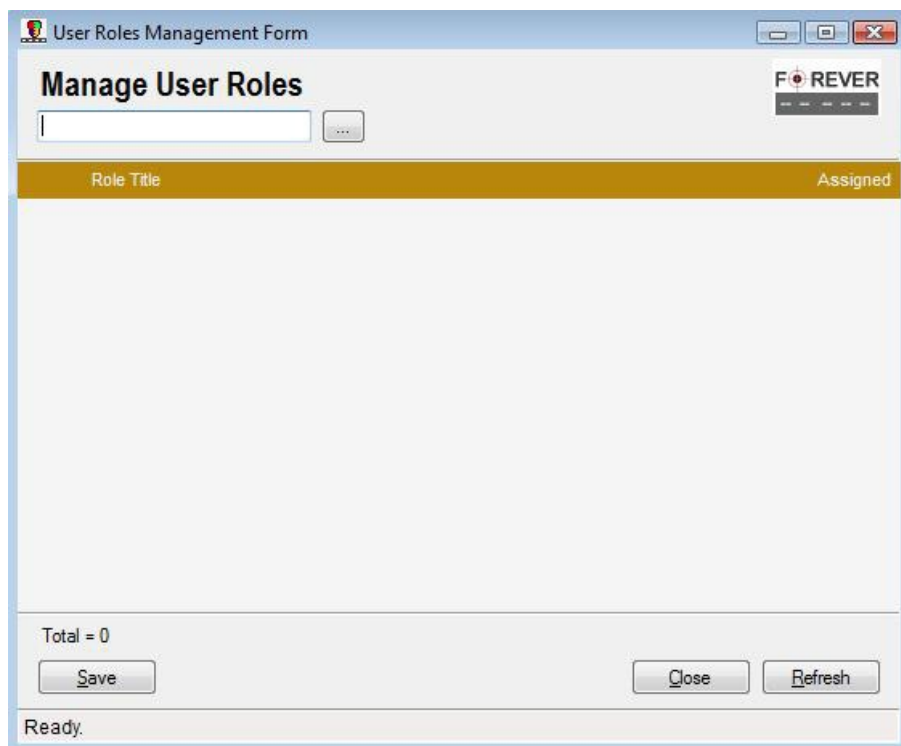
"User Roles Management Form" let administrators to assign one or more roles to users. In order to do so,

- 1) Select the "Manage User Roles" menu item option from the "Users" menu as shown in fig. 14.1.



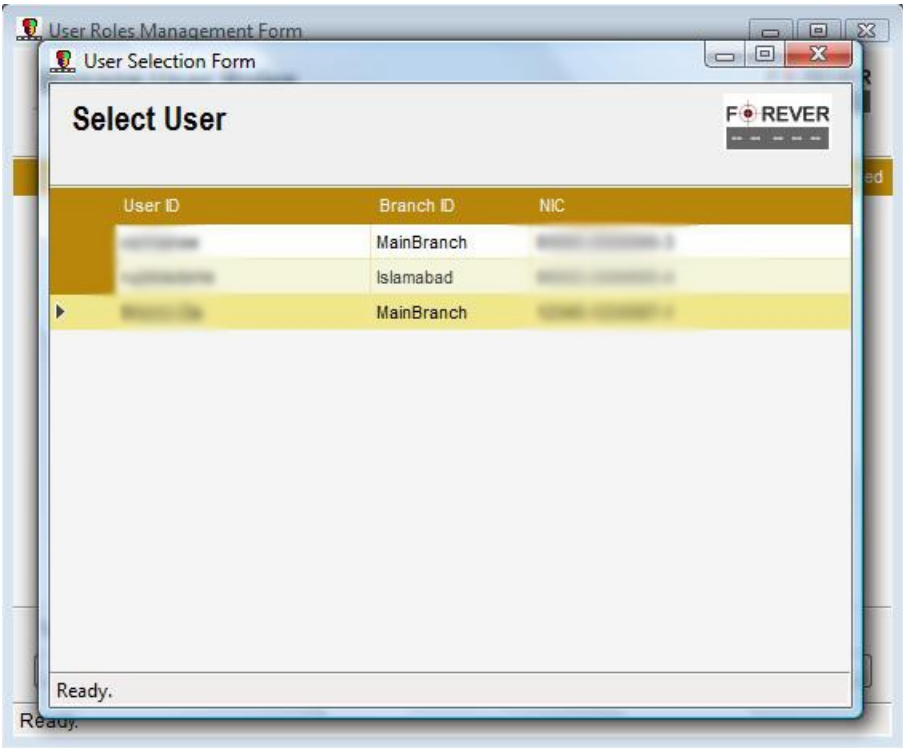
(14.1)

- 2) This will load "User Roles Management Form" as shown in Fig. 14.2.



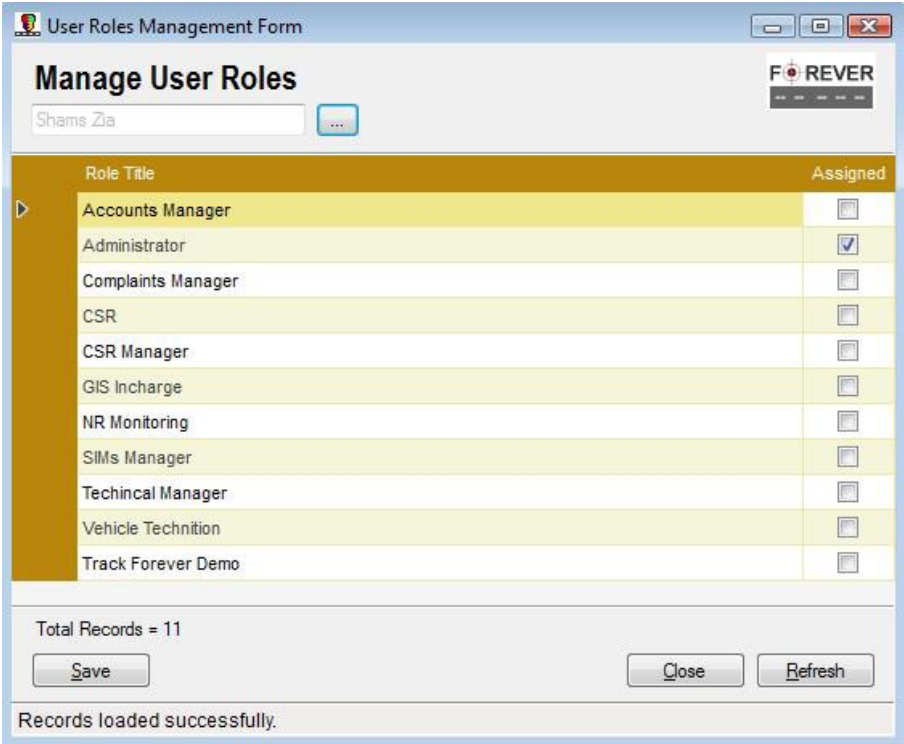
(14.2)

- 3) Click on "..." caption button, this will load the "User Selection Form" as shown in fig. 14.3.



(14.3)

- 4) Double click on the user row header in "User Selection Form". This will load selected user roles as shown in fig. 14.4.



(14.4)

- 5) In order to select one or more roles check "Assigned" checkbox in front of role names and press "Save" button to update the changes.

15. Roles Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Roles" menu item option from the "Roles" menu as shown in fig. 15.1.



(15.1)

- 2) This will load "Roles Management Form" as shown in fig. 15.2.

Role ID	Title	Comments
AccountsManager	Accounts Manager	Represents Accounts Manager.
Administrator	Administrator	Represents Administrator Role.
ComplaintsManager	Complaints Manager	Represents Complaints Manager Role.
CSR	CSR	Represents CSR user Role.
CSRManager	CSR Manager	Represents CSR Manager Role.
GISIncharge	GIS Incharge	Represents GIS Incharge Role.
NRMonitoring	NR Monitoring	Represents NR Monitoring Role.
SIMsManager	SIMs Manager	Represents SIMs Manager Role.
TechManager	Technical Manager	Represents Technical Manager Role.
TrackForeverDemo	Track Forever Demo	Represents Track Forever Demo Role.
Technition	Vehicle Technition	Represents Vehicle Configurator Role.

Total Records = 11

Buttons: Save, Enable Addition, Close, Refresh

Status: Ready.

(15.2)

15.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

15.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.

- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

15.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

15.4. Delete

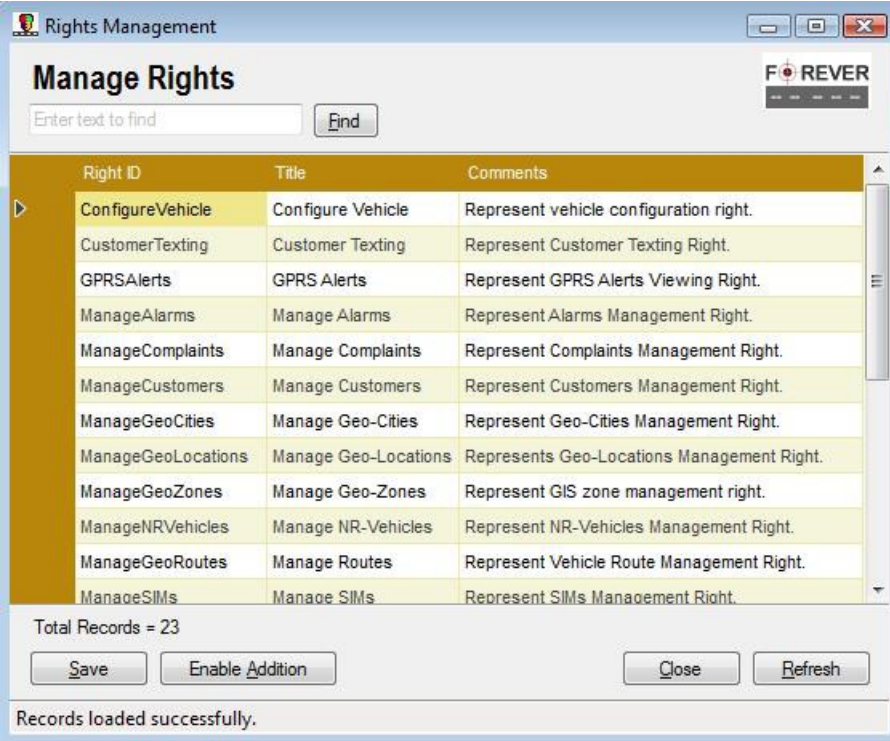
User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

16. Rights Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Rights" menu item option from the "Roles" menu as shown in fig. 15.1.
- 2) This will load "Rights Management Form" as shown in fig. 16.1.



Manage Rights

Enter text to find

Right ID	Title	Comments
ConfigureVehicle	Configure Vehicle	Represent vehicle configuration right.
CustomerTexting	Customer Texting	Represent Customer Texting Right.
GPRSAlerts	GPRS Alerts	Represent GPRS Alerts Viewing Right.
ManageAlarms	Manage Alarms	Represent Alarms Management Right.
ManageComplaints	Manage Complaints	Represent Complaints Management Right.
ManageCustomers	Manage Customers	Represent Customers Management Right.
ManageGeoCities	Manage Geo-Cities	Represent Geo-Cities Management Right.
ManageGeoLocations	Manage Geo-Locations	Represents Geo-Locations Management Right.
ManageGeoZones	Manage Geo-Zones	Represent GIS zone management right.
ManageNRVehicles	Manage NR-Vehicles	Represent NR-Vehicles Management Right.
ManageGeoRoutes	Manage Routes	Represent Vehicle Route Management Right.
ManageSIMs	Manage SIMs	Represent SIMs Management Right.

Total Records = 23

Records loaded successfully.

(16.1)

16.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

16.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

16.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

16.4. Delete

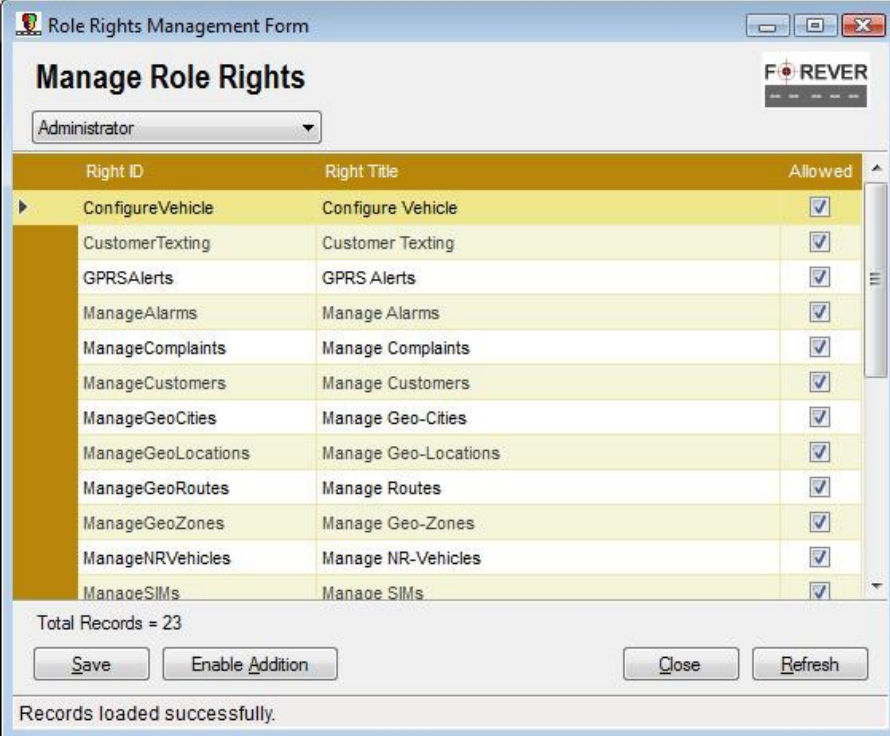
User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

17. Role Rights Management Form

"Role Rights Management Form" let administrators to assign one or more rights to the selected role. In order to do so,

- 1) Select the "Manage Role Rights" menu item option from the "Roles->Manage Role Rights" menu as shown in fig. 15.1.
- 2) This will load "Role Rights Management Form" as shown in fig. 17.1.



Right ID	Right Title	Allowed
ConfigureVehicle	Configure Vehicle	<input checked="" type="checkbox"/>
CustomerTexting	Customer Texting	<input checked="" type="checkbox"/>
GPRSAlerts	GPRS Alerts	<input checked="" type="checkbox"/>
ManageAlarms	Manage Alarms	<input checked="" type="checkbox"/>
ManageComplaints	Manage Complaints	<input checked="" type="checkbox"/>
ManageCustomers	Manage Customers	<input checked="" type="checkbox"/>
ManageGeoCities	Manage Geo-Cities	<input checked="" type="checkbox"/>
ManageGeoLocations	Manage Geo-Locations	<input checked="" type="checkbox"/>
ManageGeoRoutes	Manage Routes	<input checked="" type="checkbox"/>
ManageGeoZones	Manage Geo-Zones	<input checked="" type="checkbox"/>
ManageNRVehicles	Manage NR-Vehicles	<input checked="" type="checkbox"/>
ManageSIMs	Manage SIMs	<input checked="" type="checkbox"/>

Total Records = 23

Save Enable Addition Close Refresh

Records loaded successfully.

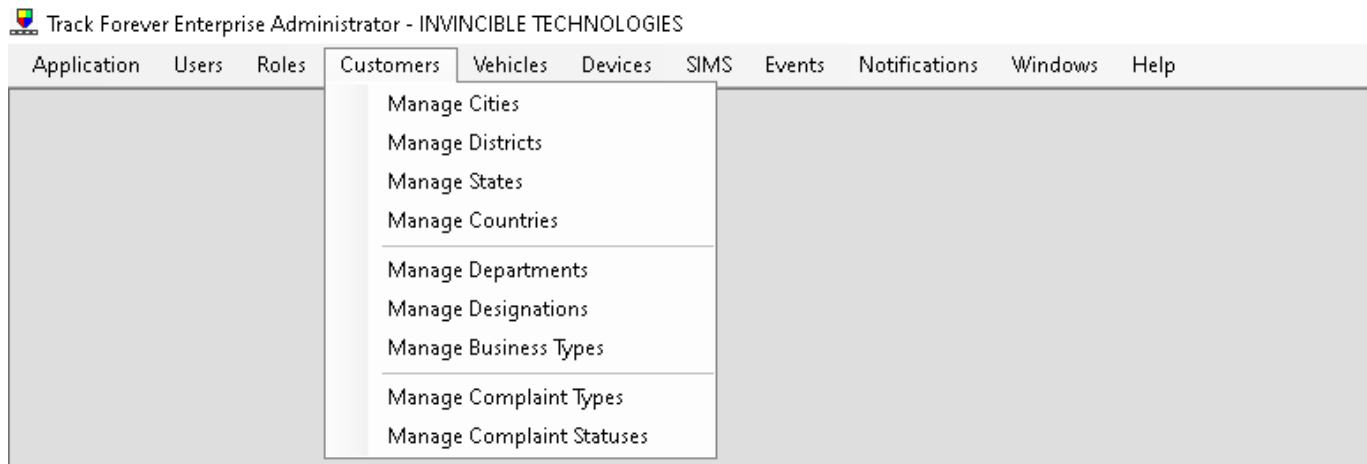
(17.1)

- 3) Select role from the drop down list. This will display rights list with allowed subscription checkbox.
- 4) Assign one or more rights to a role by checking or un-checking the Allowed checkbox
- 5) Press "Save" button the save the changes.

18. Log Categories Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Complaint Types" menu item option from the "Customers" menu as shown in fig. 18.1.



(18.1)

- 2) This will load "Manage Complaint Types List" as shown in fig. 18.2.

Complaint Types Management Form

Manage Complaint Types List

Enter text to find

Type ID	Title	Comments
DisableEngineIss...	Disable Engine Issue	
StopAutoAlerts	Do Not Send Auto Alerts	
FakeAlerts	Fake Alerts	
GeofenceNotRep...	Geofence Not Reported	
HistoryNA	History Not Available	
NoAlertsReported	No Alerts Reported	
SendAutoAlerts	Send Auto Alerts	

Total Records = 7

Ready.

(18.2)

18.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

18.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

18.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

18.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

19. Log Statuses Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Complaint Statuses" menu item option from the "Customers" menu as shown in fig. 18.1.
- 2) This will load "Log Status Types Management Form" as shown in fig. 19.2.

Status ID	Title	Comments
Closed	Closed	Complaint has been solved.
Opened	Opened	Complaint has been recieved.

Total Records = 2

Save Enable Addition Close Refresh

Records loaded successfully.

(19.2)

19.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

19.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

19.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.

- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

19.4. Delete

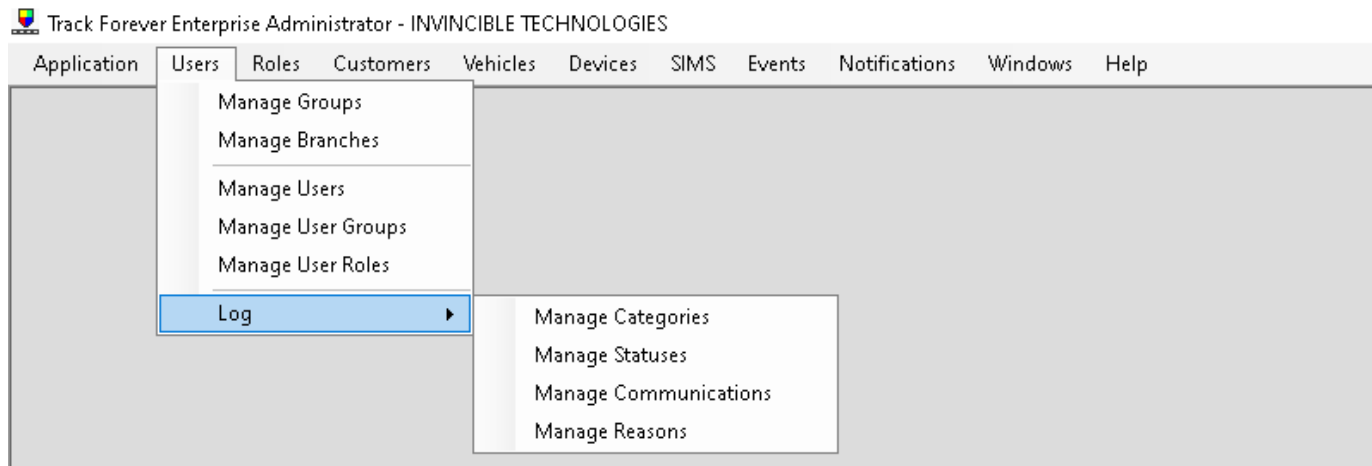
User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

20. Log Communications Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Communications" menu item option from the "Users->Logs" menu as shown in fig. 20.1.



(20.1)

- 2) This will load "Manage Communication Types Form" as shown in fig. 20.2.

Type ID	Title	Comments
Email	Email	Represents an email communication op...
None	Not Applicable	
PhoneCall	Phone Call	Represents a phone call communication...
SMS	SMS	Represents SMS communication.

Total Records = 4

Save Enable Addition Close Refresh

Records loaded successfully.

(20.2)

20.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

20.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

20.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

20.4. Delete

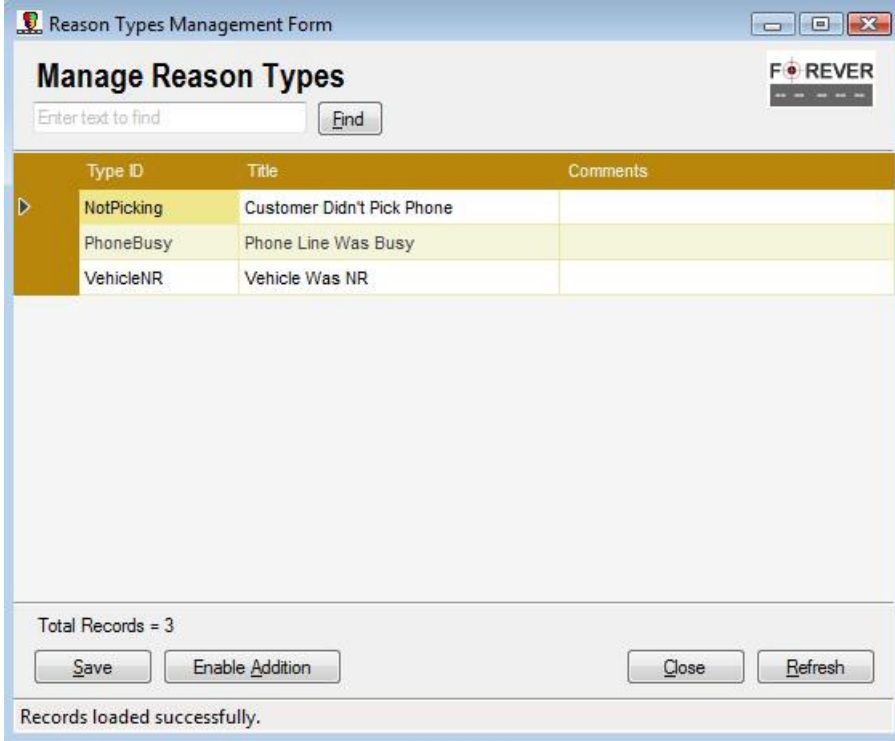
User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

21. Log Reasons Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Reasons" menu item option from the "Users->Logs" menu as shown in fig. 20.1.
- 2) This will load "Manage Reason Types Management Form" as shown in fig. 21.1.



Type ID	Title	Comments
NotPicking	Customer Didn't Pick Phone	
PhoneBusy	Phone Line Was Busy	
VehicleNR	Vehicle Was NR	

Total Records = 3

Save Enable Addition Close Refresh

Records loaded successfully.

(21.1)

21.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

21.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

21.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

21.4. Delete

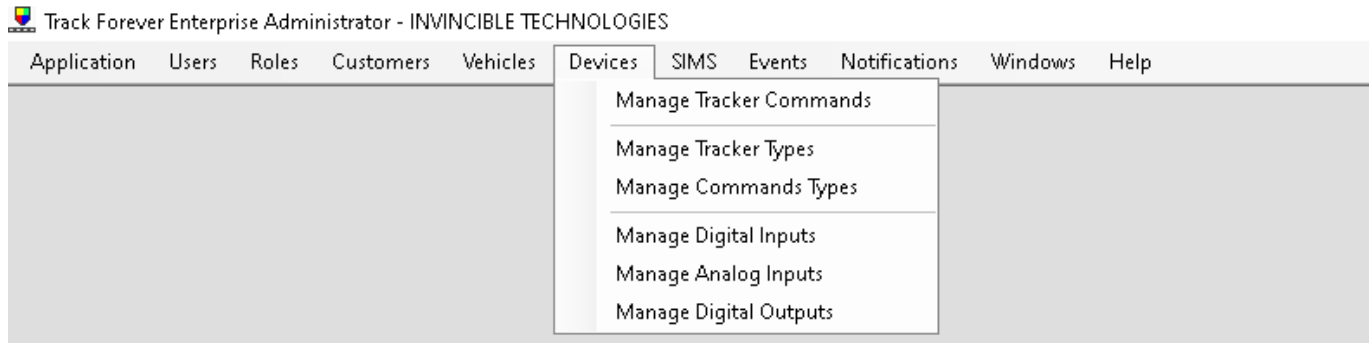
User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

22. Tracker Commands Management Form

"Tracker Commands Management Form" let administrators to define tracker (device) commands and corresponding syntax. In order to define or modify tracking device command,

- 1) Select the "Manage Tracker Command" menu item option from the "Device" menu as shown in fig. 22.1.



(22.1)

- 2) This will load "Tracker Commands Management Form" as shown in fig. 22.2.

Tracker ID	Command ID	Syntax
SuperGaurd-VT02	Always Report Battery Cut Alarm	\$BATCUT,1
SuperGaurd-VT02	Clear Settings	\$CLR
SuperGaurd-VT02	Disable Auto Security	\$ARM,0
SuperGaurd-VT02	Disable Engine	\$ENG,1
SuperGaurd-VT02	Disable Power Saving Mode	\$PSAV,1
SuperGaurd-VT02	Disable Security	\$ARM,0
SuperGaurd-VT02	Enable Auto Security	%{0}ARM,1ID_RAND8
SuperGaurd-VT02	Enable Engine	\$ENG,0
SuperGaurd-VT02	Enable GPRS Reporting Mode	\$GPRS,1
SuperGaurd-VT02	Enable Power Saving Mode	\$PSAV,0
SuperGaurd-VT02	Enable Security	\$ARM,1
SuperGaurd-VT02	Enable SMS Autoreporting	\$GPRS,0

Total Records = 27

Buttons: Save, Enable Addition, Close, Refresh

Status: Ready.

(22.2)

- 3) Select tracking device from the drop down list. This will display tracking device commands with syntax details.
- 4) In order to add new command, press "Enable Addition" button and this will allow user to add new commands.
- 5) User may also edit any previous command.
- 6) Press "Save" button the save the changes.

23. Tracker Types Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Tracker Types" menu item option from the "Device" menu as shown in fig. 22.1.
- 2) This will load "Tracker Types Management Form" as shown in fig. 23.1.

Tracker ID	Title	Tag Digits	Comments
FM1100	FM1100 - 51998	15	FMXXXX compliant device.
IntelliTracA1	IntelliTracA1 - 51997	15	IntelliTracA1
iTracGold	iTracgold - 5190	6	iTracGold.
NTT101	NTT101 - 51996	15	NTT101
PF03	Path Finder 03 - 5191	8	Path Finder 03
PFLocator	PF Locator - 5193	8	PF Locator
PFTrika2	PF Trika2 - 5193	8	PF Trika2
SuperGaurd-VT02	SuperGaurd-VT02 - 51993	15	Super Guard VT02 Model.
SuperGaurd-VT05	SuperGuard-VT05 - 51994	15	Super Guard VT02 Model.

Total Records = 9

Buttons: Save, Enable Addition, Close, Refresh

Ready.

(23.1)

23.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

23.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

23.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

23.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

24. Commands Type Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Commands" menu item option from the "Device" menu as shown in fig. 22.1.
- 2) This will load "Command Types Management Form" as shown in fig. 24.1.

Command ID	Title	Comments	Configurational
Set0mTracking	0 (No) Meter Tracking		<input type="checkbox"/>
Reporting0Minute	0 (No) Minute Reporting		<input type="checkbox"/>
IgnitionOffGprsR...	10 min IGN OFF GPRS Reporting		<input type="checkbox"/>
IgnitionOnGprsR...	10 min IGN ON GPRS Reporting		<input type="checkbox"/>
IgnitionOnSMSRe...	10 min IGN ON SMS Reporting		<input type="checkbox"/>
Reporting10Min	10 Minute Reporting Interval	Set 10 minute r...	<input checked="" type="checkbox"/>
Set100mTracking	100 Meter Tracking		<input type="checkbox"/>
Set1KmTracking	1K Meter Tracking		<input type="checkbox"/>
IgnitionOffSmsRe...	2 hr IGN OFF SMS Reporting		<input type="checkbox"/>
Reporting2Minute	2 Minute Reporting	Set 2 Minute Re...	<input checked="" type="checkbox"/>
Set2KmTracking	2K Meter Tracking		<input type="checkbox"/>
Reporting5Min	5 Minute Reporting	Set 5 minute re...	<input checked="" type="checkbox"/>

Total Records = 101

Save Enable Addition Close Refresh

Records loaded successfully.

(24.1)

24.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

24.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) If you specify a command record to be of type "Configurational" by checking checkbox to true. This will mark the command as configuring command.
- 5) Commands specified as "Configurational" are only displayed to the users with "Technical" or better respective role.
- 6) Press "Save" button to register new records.

24.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

24.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

25. Digital Inputs Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Digital Inputs" menu item option from the "Device" menu as shown in fig. 22.1.
- 2) This will load "Digital Inputs Management Form" as shown in fig. 25.1.

Input ID	Title	Comments
Ignition	Ignition	Represent Vehicle Ignition.
PanicButton	Panic Button	Represent Panic Button.

Total Records = 2

Save Enable Addition Close Refresh

Records loaded successfully.

(25.1)

25.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

25.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

25.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

25.4. Delete

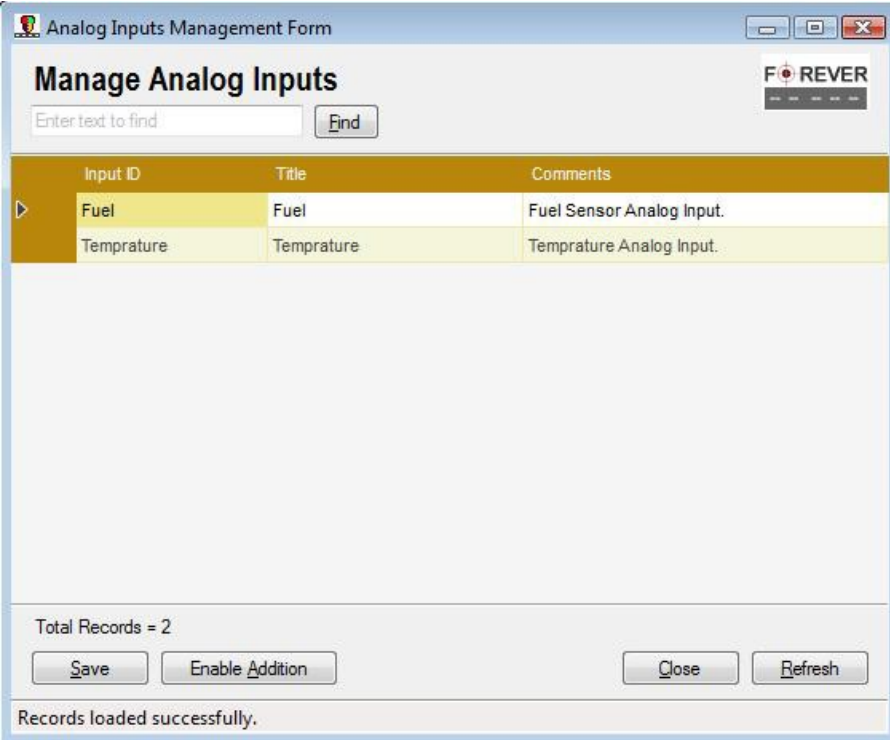
User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

26. Analog Inputs Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Analog Inputs" menu item option from the "Device" menu as shown in fig. 22.1.
- 2) This will load "Analog Inputs Management Form" as shown in fig. 26.1.



Input ID	Title	Comments
Fuel	Fuel	Fuel Sensor Analog Input.
Temprature	Temprature	Temprature Analog Input.

Total Records = 2

Save Enable Addition Close Refresh

Records loaded successfully.

(26.1)

26.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

26.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

26.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

26.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

27. Digital Outputs Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Digital Outputs" menu item option from the "Device" menu as shown in fig. 22.1.
- 2) This will load "Digital Outputs Management Form" as shown in fig. 27.1.

Output ID	Title	Comments
Relay1	Relay 1	
Siren	Siren	Represent Siren.

Total Records = 2

Save Enable Addition Close Refresh

Records loaded successfully.

(27.1)

27.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

27.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

27.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

27.4. Delete

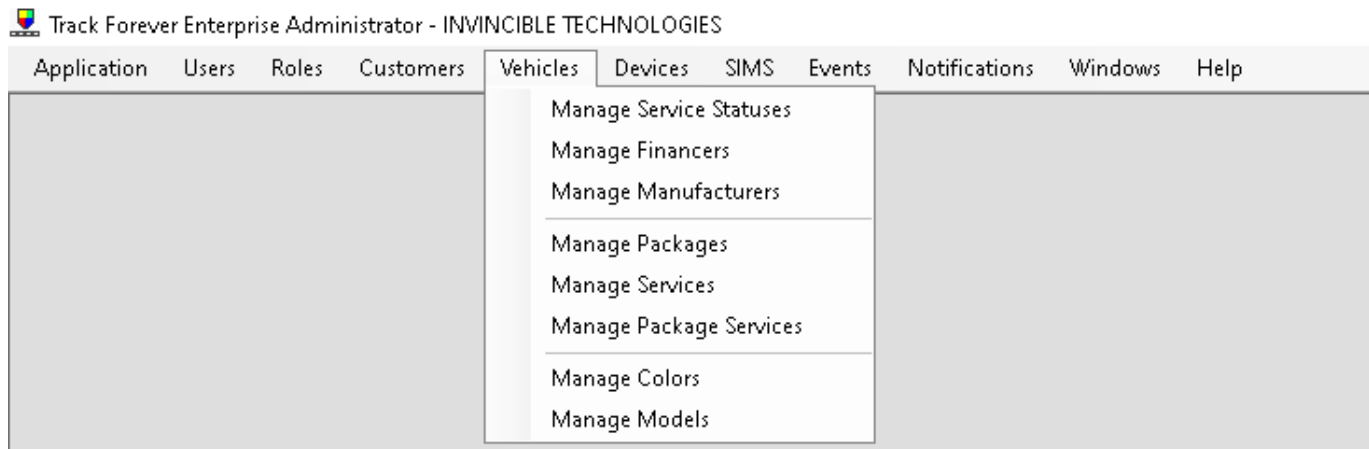
User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

28. Service Status Types Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Service Statuses" menu item option from the "Vehicles" menu as shown in fig. 28.1.



(28.1)

- 2) This will load "Service Status Types Management Form" as shown in fig. 28.2.

The screenshot shows the "Service Status Types Management Form" window. The title bar says "Service Status Types Management Form". The main heading is "Manage Service Status Types". Below the heading is a search bar with the placeholder text "Enter text to find" and a "Find" button. The table below has the following data:

Status ID	Name	Comments
Active	Active	Vehicle's service status is active.
BNP	Blocked - No Payment	Vehicle is not being serviced due to non ...
Stolen	Stolen	Vehicle is stolen and may or may not be...
Uninstalled	Uninstalled	Vehicle is uninstalled and no service is ...

Below the table, it says "Total Records = 4". At the bottom, there are buttons for "Save", "Enable Addition", "Close", and "Refresh". A status bar at the very bottom says "Records loaded successfully."

(28.2)

28.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

28.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

28.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

28.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

29. Financers Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Financers" menu item option from the "Vehicles" menu as shown in fig. 28.1.
- 2) This will load "Financers Management Form" as shown in fig. 29.1.

Financer ID	Name	Contact No 1	Contact No 2	Fax
SELF	Self Finance	+923001234567		

Total Records = 1

Records loaded successfully.

(29.1)

29.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

29.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

29.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

29.4. Delete

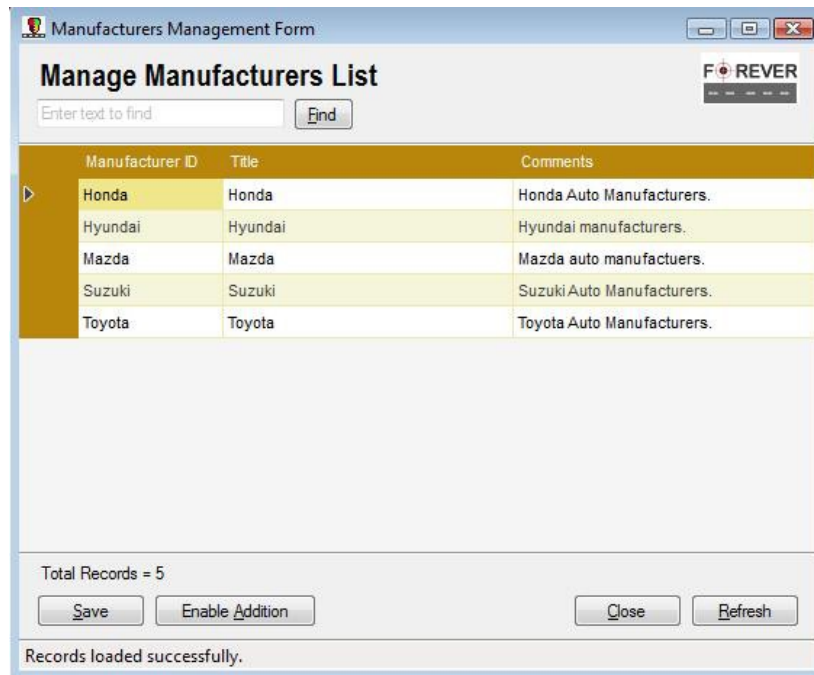
User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

30. Manufacturers Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Manufacturers" menu item option from the "Vehicles" menu as shown in fig. 28.1.
- 2) This will load "Manufacturers Management Form" as shown in fig. 30.1.



The screenshot shows a web application window titled "Manufacturers Management Form". Inside, there's a section titled "Manage Manufacturers List" with a search bar labeled "Enter text to find" and a "Find" button. Below this is a table with three columns: "Manufacturer ID", "Title", and "Comments". The table contains five rows of data for Honda, Hyundai, Mazda, Suzuki, and Toyota. At the bottom of the window, there's a status bar showing "Total Records = 5", buttons for "Save", "Enable Addition", "Close", and "Refresh", and a message "Records loaded successfully."

Manufacturer ID	Title	Comments
Honda	Honda	Honda Auto Manufacturers.
Hyundai	Hyundai	Hyundai manufacturers.
Mazda	Mazda	Mazda auto manufacturers.
Suzuki	Suzuki	Suzuki Auto Manufacturers.
Toyota	Toyota	Toyota Auto Manufacturers.

Total Records = 5

Save Enable Addition Close Refresh

Records loaded successfully.

(30.1)

30.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

30.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

30.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

30.4. Delete

User can delete records as explained below:

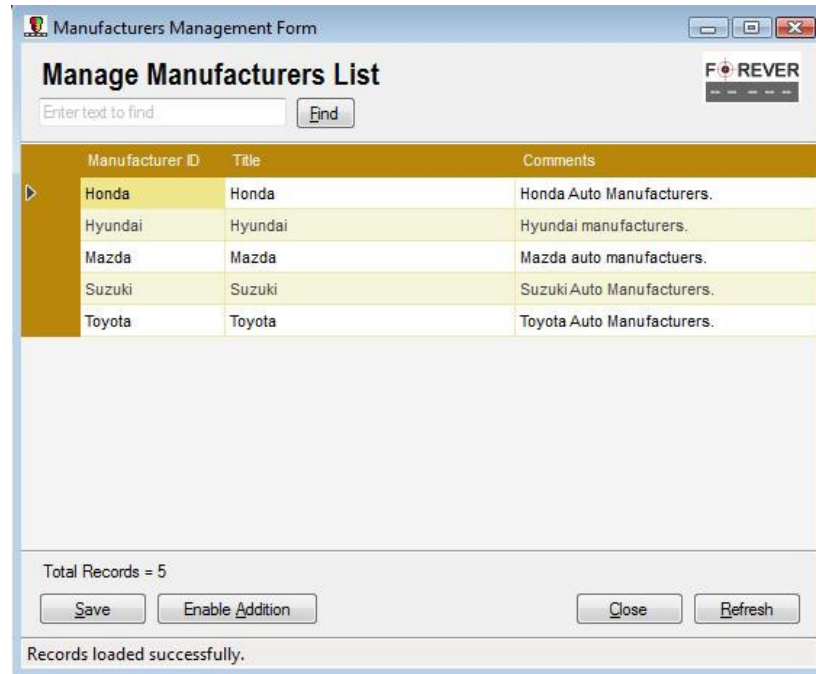
- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.

- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

31. Packages Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Packages" menu item option from the "Vehicles" menu as shown in fig. 28.1.
- 2) This will load "Packages Management Form" as shown in fig. 31.1.



Manufacturer ID	Title	Comments
Honda	Honda	Honda Auto Manufacturers.
Hyundai	Hyundai	Hyundai manufacturers.
Mazda	Mazda	Mazda auto manufacturers.
Suzuki	Suzuki	Suzuki Auto Manufacturers.
Toyota	Toyota	Toyota Auto Manufacturers.

Total Records = 5

Save Enable Addition Close Refresh

Records loaded successfully.

(31.1)

31.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

31.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

31.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

31.4. Delete

User can delete records as explained below:

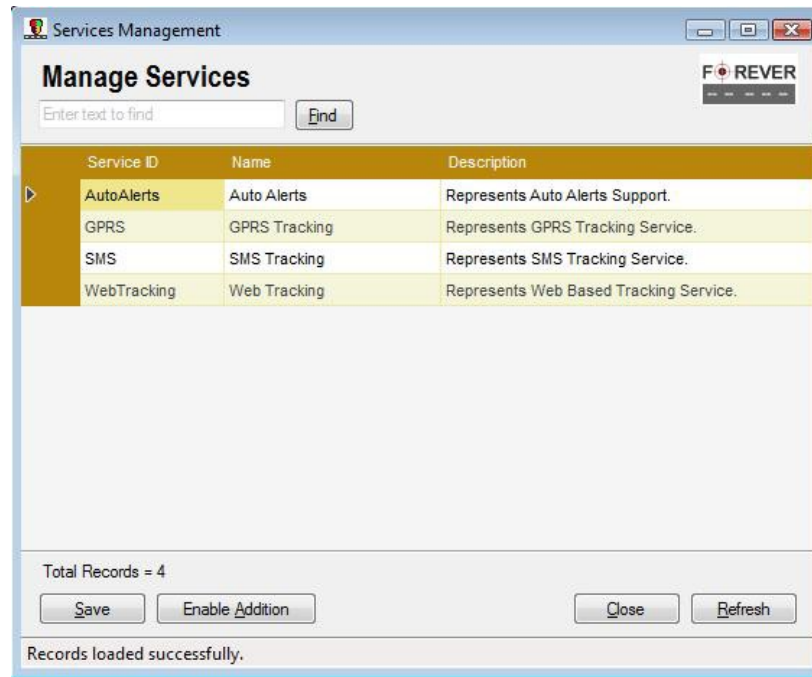
- 1) Select the record by clicking on row header and then,

- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

32. Services Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Services" menu item option from the "Vehicles" menu as shown in fig. 28.1.
- 2) This will load "Services Management Form" as shown in fig. 32.1.



The screenshot shows a window titled "Services Management" with a sub-header "Manage Services". Below the header is a search bar with the placeholder text "Enter text to find" and a "Find" button. The main area contains a table with the following data:

Service ID	Name	Description
AutoAlerts	Auto Alerts	Represents Auto Alerts Support.
GPRS	GPRS Tracking	Represents GPRS Tracking Service.
SMS	SMS Tracking	Represents SMS Tracking Service.
WebTracking	Web Tracking	Represents Web Based Tracking Service.

Below the table, it says "Total Records = 4". At the bottom, there are buttons for "Save", "Enable Addition", "Close", and "Refresh". A status bar at the very bottom says "Records loaded successfully."

(32.1)

32.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

32.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

32.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,

3) Press "Save" button to save.

32.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

33. Package Services Management Form

"Package Services Management Form" let administrators to add one or more services to a package. In order to add or remove services from a package do as following:

- 1) Select the "Manage Package Services" menu item option from the "Vehicles" menu as shown in fig. 28.1.
- 2) This will load "Package Services Management Form" as shown in fig. 33.1.

Service ID	Service Name	Allowed
AutoAlerts	Auto Alerts	<input type="checkbox"/>
GPRS	GPRS Tracking	<input type="checkbox"/>
SMS	SMS Tracking	<input type="checkbox"/>
WebTracking	Web Tracking	<input type="checkbox"/>

Total Records = 4

Save Close Refresh

Records loaded successfully.

(33.1)

- 3) Select package from drop down. This will load available services in the grid.
- 4) User may subscribe or unsubscribe service from a package by checking or un-checking "Allowed" checkbox.
- 5) Press "Save" button the save the changes.

34. Colors Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Colors" menu item option from the "Vehicles" menu as shown in fig. 28.1.
- 2) This will load "Colors Management Form" as shown in fig. 34.1.

Color ID	Name
Black	Black
Blue	Blue
Gray	Gray
Purple	Purple
Red	Red
Silver	Silver
White	White

Total Records = 7

Save Enable Addition Close Refresh

Records loaded successfully.

(34.1)

34.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

34.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

34.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

34.4. Delete

User can delete records as explained below:

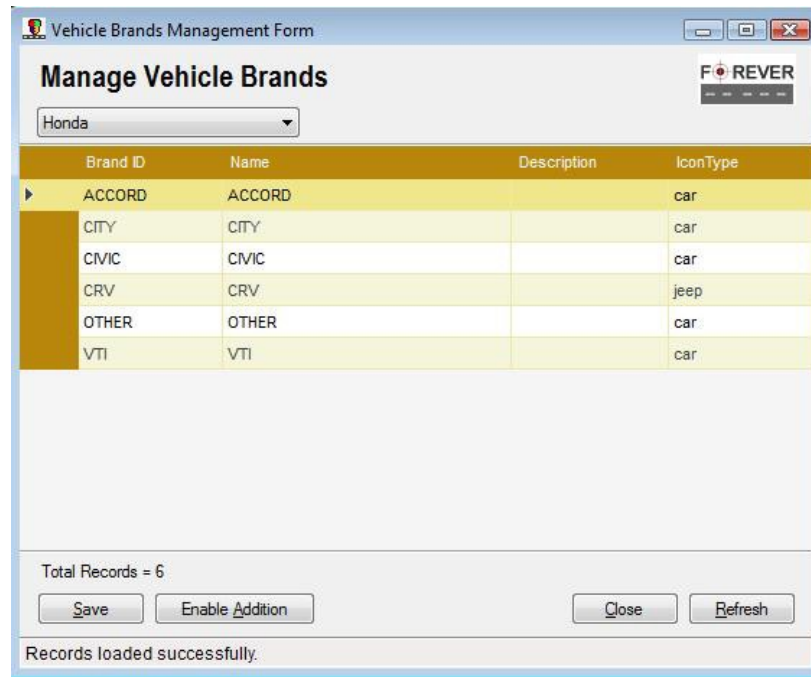
- 1) Select the record by clicking on row header and then,

- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

35. Vehicle Brands Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Models" menu item option from the "Vehicles" menu as shown in fig. 28.1.
- 2) This will load "Vehicle Brands Management Form" as shown in fig. 35.1.



Brand ID	Name	Description	IconType
ACCORD	ACCORD		car
CITY	CITY		car
CIVIC	CIVIC		car
CRV	CRV		jeep
OTHER	OTHER		car
VTI	VTI		car

Total Records = 6

Save Enable Addition Close Refresh

Records loaded successfully.

(35.1)

35.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

35.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

35.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

35.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

36. Event Types Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Event Types" menu item option from the "Events" menu as shown in fig. 36.1.



(36.1)

- 2) This will load "Event Types Management Form" as shown in fig. 36.2.

Event Types Management Form

Manage Event Types

Enter text to find

ID	Title	Description
Accident	Accident	
BuildingOnFire	Building On Fire	
MobileSnatch	Mobile Snatching	
Robbery	Robbery	

Total Records = 4

Ready.

(36.2)

36.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

36.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

36.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

36.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

37. Event Sources Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Event Sources" menu item option from the "Events" menu as shown in fig. 36.1.
- 2) This will load "Event Sources Management Form" as shown in fig. 37.1.

The screenshot shows a window titled "trak Event Sources Management Form". Inside, there's a section "Manage Event Sources" with a search bar "Enter text to find" and a "Find" button. Below this is a table with columns "ID", "Title", and "Description". The table contains three rows: "Newspaper", "PhoneCall", and "TV". At the bottom, it says "Total Records = 3" and has buttons for "Save", "Enable Addition", "Close", and "Refresh". A status bar at the very bottom says "Records loaded successfully."

ID	Title	Description
Newspaper	Newspaper	
PhoneCall	Phone Call	
TV	TV	

(37.1)

37.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

37.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

37.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

37.4. Delete

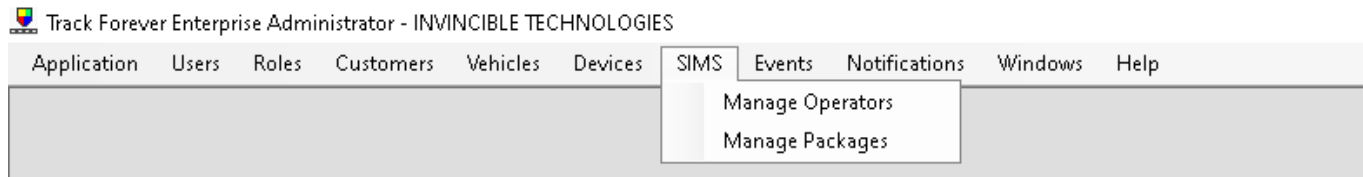
User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

38. Mobile Operators List Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage GSM Operator" menu item option from "SIMS" menu as shown in fig. 38.1.



(38.1)

- 2) This will load "Mobile Operators Management Form" as shown in fig. 38.2.

The screenshot shows the 'Mobile Operators Management Form' window. It has a title bar 'Mobile Operators Management Form' and a logo 'FO REVER'. Below the title is a search bar with the text 'Enter text to find' and a 'Find' button. The main area contains a table with the following data:

Operator ID	Account ID	Name	Description
Mobilink	Mobilink	Mobilink	Mobilink Pakistan
Telenor	Telenor	Telenor	Telenor Pakistan
Ufone	Ufone	Ufone	Ufone Pakistan
Warid	Warid	Warid	Warid Pakistan
Zong	Zong	Zong	Zong Pakistan

Below the table, it says 'Total Records = 5'. At the bottom, there are buttons for 'Save', 'Enable Addition', 'Close', and 'Refresh'. A status bar at the very bottom says 'Records loaded successfully.'

(38.2)

38.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

38.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register new records.

38.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.

- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

38.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

39. GSM Operator Packages Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select "Manage Operator Packages" menu item option from "SIMS" menu as shown in fig. 38.1.
- 2) This will load "Mobile Operators Packages Management Form" as shown in fig. 39.1.

Package ID	Name	Description
Indigo	Indigo	Indigo
Jazz	Jazz	Jazz-Mobilink

Total Records = 2

Save Enable Addition Close Refresh

Records loaded successfully.

(39.1)

39.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

39.2. Add

User can register new records as explained below:

- 1) Select operator from drop down list
- 2) Click the "Enable Addition" button.
- 3) This will allow user to add new records in the grid.
- 4) Type in all record details.
- 5) Press "Save" button to register new records.

39.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

39.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

40. GSM SMS Serial/Http Gateway Management Form

Let user search, add, edit and delete SMS gateway records. User may filter records based on drop down or input filters. "Track Forever" GSM (SMS) gateways are the endpoints from where SMS is transmitted to the end customer or the vehicle. There are 3 types of SMS gateways that can be configured with "Track Forever", Local (Obsolete), Remote (Support both Local and Remote GSM Modem Workstations) and Http.

Local SMS gateway is configured within "Track Forever Server" that consumes server serial ports to send/receive text messages via modems.

Remote gateway is configured on a PC other than the "Track Forever Server" running "Track Forever Gateway". "Track Forever Gateway" is configured to communicate with "Track Forever Server" and also with serial interfaces to send/receive text messages via LAN/WAN/Internet.

Http SMS gateway is used to send branded or non-branded text messages through GSM operator via http (internet).

- 1) Select "Manage Serial Gateways" menu item option from "Network" menu as shown in fig. 38.1.
- 2) This will load "GSM Serial Gateways Management Form" as shown in fig. 40.1.

Gateway ID	Title	SIM No	Port	Interface Type	Baudrate	Databits	Paritybits	Stopbits
REM_3008411034	REM_3008411034	+923008411034		remotecommands				
REM_3322444609	REM_3322444609	+923322444609		remotesms				
REM_3454021570	REM_3454021570	+923454021570		remotecommands				
REM_3461113020	REM_3461113020	+923461113020		remotesms				
UFN_3353880369	UFN_3353880369	+923353880369	225588	remotesms				
USB_3335552098	USB_3335552098	+923335552098		remotecommands				
WEB_3454021570	WEB_3454021570	+923324003038	5962	remotecommands				
WEB_3461113020	WEB_3461113020	+923461113019	1537	remotesms				
WEB_Clickatell	WEB_Clickatell	+920002444609	1234	remotecommands				

Total Records = 9

Save Enable Addition Close Refresh

Ready.

(40.1)

Please note, Gateway_ID, Title, SIMNo, Port and Interface Types are required with following operator (device) specific settings. Gateway_ID is a unique interface name string value, Title is a string value, SIMNo is a string value, Port (number) is input as a string value.

InterfaceType is either:

1. remotesms
2. remotecommands
3. e303commands
4. e303sms
5. telenorcommands
6. telenorsms
7. ufonecommands
8. uforesms
9. clickatellcommands
10. clickatellsms

A typical “**Telenor Pakistan**” corporate SMS integration link is of the following form:

http://127.0.0.1:8080/corporate_sms2/api/|auth.jsp?msisdn={0}&password={1}|sendsms.jsp?session_id={0}&to={1}&text={2}|ping.jsp?session_id={0}|querymsg.jsp?session_id={0}&msg_id={1}

Update link with “Telenor Pakistan” service IP address (127.0.0.1) and port (8080) then set in “Reset Script” field with SIMNo (sim_no), Port (password) and Mask (optional). No other settings are required.

A typical “**Ufone Pakistan**” corporate SMS integration link is of the following form:

http://bsms.ufone.com/bsms_app5/|sendapi-0.3.jsp?id=03331234567&password={0}&lang=English&mobilenumber={1}&message={2}

Set above link in “Reset Script” field with SIMNo (mobilenumber) and Port (password). No other settings are required.

A typical “**clickatell**” api integration link is of the following form:

http://api.clickatell.com/http/|auth?api_id=api_id_number&user=user_id_string&password={0}|sendmsg?session_id={0}&to={1}&text={2}&validity=5|ping?{0}

Set above link in “Reset Script” with “api_id_number”, “user_id_string” and password (Port).

E303 USB Modem can be set using following reset script

[“http://192.168.8.1/api/sms/”](http://192.168.8.1/api/sms/)

in gateway settings form with other required fields (Gateway ID, Title, SIMNo, Port and InterfaceType).

40.1. Search

User can search records by typing in the required text and clicking on “Find” button, matching records will be displayed.

40.2. Add

User can register new records as explained below:

- 1) Click the “Enable Addition” button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press “Save” button to register new records.

40.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press “Save” button to save.

40.4. Delete

User can delete records as explained below:

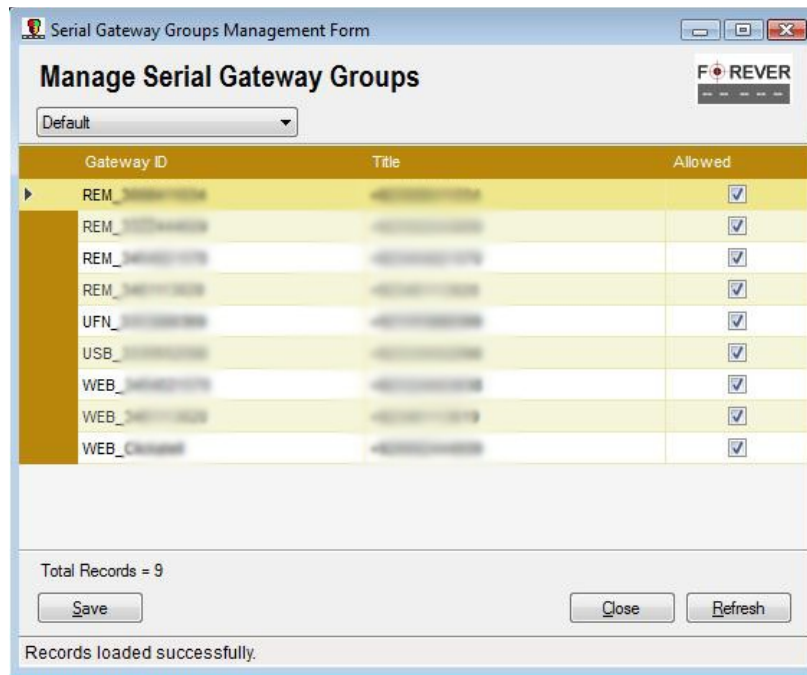
- 1) Select the record by clicking on row header and then,
- 2) Press “Delete” button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press “Save” button to delete records from database.

41. Serial (SMS) Gateway Groups Management Form

SMS gateways are authorized on grouping basis. Users will only be able to use SMS gateways that are allowed in particular groups. Let say if a user is allowed to "Default" group vehicles then he'll only be allowed to use SMS gateways that are subscribed to "Default" group. If a user has multiple group subscription then he will see all the "SMS" gateways that are subscribed to all groups.

In order to allow SMS gateways to groups:

- 1) Select "Manage Group Gateways" menu item option from "Network" menu as shown in fig. 38.1.
- 2) This will load "Serial Gateway Groups Management Form" as shown in fig. 41.1.



Gateway ID	Title	Allowed
REM_		<input checked="" type="checkbox"/>
REM_		<input checked="" type="checkbox"/>
REM_		<input checked="" type="checkbox"/>
REM_		<input checked="" type="checkbox"/>
UFN_		<input checked="" type="checkbox"/>
USB_		<input checked="" type="checkbox"/>
WEB_		<input checked="" type="checkbox"/>
WEB_		<input checked="" type="checkbox"/>
WEB_		<input checked="" type="checkbox"/>

Total Records = 9

Save Close Refresh

Records loaded successfully.

(41.1)

41.1. SMS Gateway Group Subscriptions

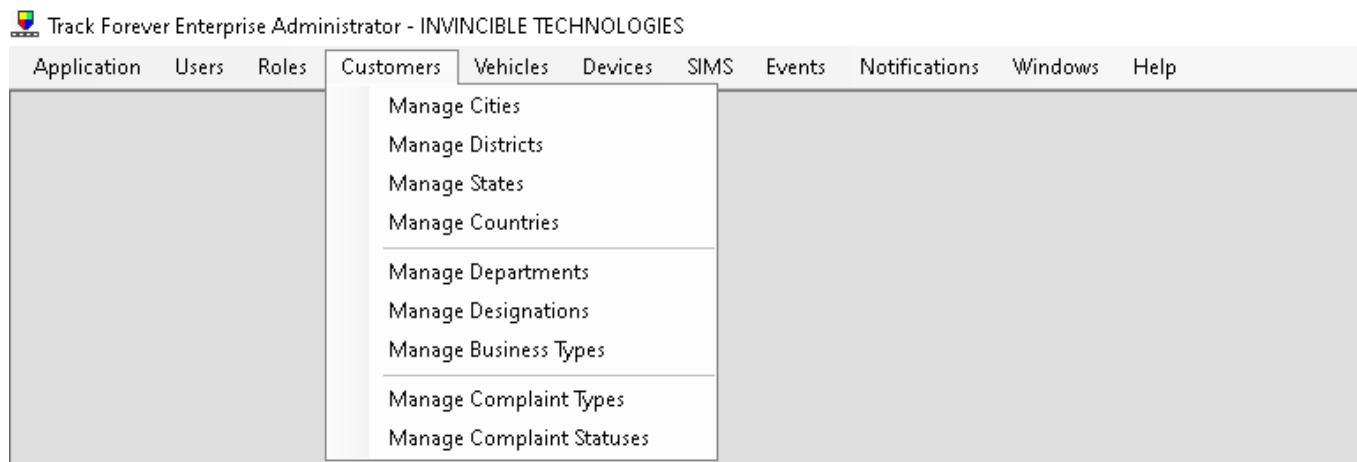
User can assign multiple SMS gateways to a group as explained below:

- 1) Select group from drop down list, all available SMS gateways will be loaded.
- 2) Check or un-check "allowed" checkbox against group names in the grid.
- 3) Press "Save" button to save changes.
- 4) All checked "Gateways" will be subscribed.
- 5) All un-checked "Gateways" will be unsubscribed.

42. Cities List Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Cities" menu item option from "Customers" menu as shown in fig. 42.1.



(42.1)

- 2) This will load "Cities Management Form" as shown in fig. 42.2.

(42.2)

42.1. Search

User can filter records by selecting values in countries, states and districts drop down lists.

42.2. Add

User can register new records as explained below:

- 1) Select Country, State and District via drop down lists.
- 2) Click the "Enable Addition" button.
- 3) This will allow user to add new records in the grid.
- 4) Type in all record details.
- 5) Press "Save" button to register records.

42.3. Edit

User can directly edit records as explained below:

- 1) Select Country, State and District via drop down lists.
- 2) Select the record and double click (or press F2) in a particular cell to edit text.
- 3) User may modify multiple records and,
- 4) Press "Save" button to save.

42.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

43. Districts List Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Districts" menu item option from "Customers" menu as shown in fig. 42.1.
- 2) This will load "Districts Management Form" as shown in fig. 43.1.

District ID	Name
Hyderabad	Hyderabad
Karachi	Karachi
MirpurKhas	Mirpur Khas

Total Records = 3

Save Enable Addition Close Refresh

Records loaded successfully.

(43.1)

43.1. Search

User can filter records by selecting values in countries and states drop down lists.

43.2. Add

User can register new records as explained below:

- 1) Select Country and State via drop down lists.
- 2) Click the "Enable Addition" button.
- 3) This will allow user to add new records in the grid.
- 4) Type in all record details.
- 5) Press "Save" button to register records.

43.3. Edit

User can directly edit records as explained below:

- 1) Select Country and State via drop down lists.
- 2) Select the record and double click (or press F2) in a particular cell to edit text.
- 3) User may modify multiple records and,
- 4) Press "Save" button to save.

43.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

44. States List Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage States" menu item option from "Customers" menu as shown in fig. 42.1.
- 2) This will load "States Management Form" as shown in fig. 44.1.

Province ID	Name
Balochistan	Balochistan
Gilgit	Gilgit Baltistan
Kashmir	Kashmir
K.P.K	Khyber Pakhtoon Khuwa
N.Wazirastan	North Wazirastan
Punjab	Punjab
Sindh	Sindh
S.Wazirastan	South Wazirastan

Total Records = 8

Save Enable Addition Close Refresh

Records loaded successfully.

(44.1)

44.1. Search

User can filter records by selecting values in countries drop down lists.

44.2. Add

User can register new records as explained below:

- 1) Select Country via drop down lists.
- 2) Click the "Enable Addition" button.
- 3) This will allow user to add new records in the grid.
- 4) Type in all record details.
- 5) Press "Save" button to register records.

44.3. Edit

User can directly edit records as explained below:

- 1) Select Country via drop down lists.
- 2) Select the record and double click (or press F2) in a particular cell to edit text.
- 3) User may modify multiple records and,
- 4) Press "Save" button to save.

44.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

45. Countries List Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Countries" menu item option from "Customers" menu as shown in fig. 42.1.
- 2) This will load "Countries Management Form" as shown in fig. 45.1.

Code	Name
AF	AFGHANISTAN
AX	ÅLAND ISLANDS
AL	ALBANIA
DZ	ALGERIA
AS	AMERICAN SAMOA
AD	ANDORRA
AO	ANGOLA
AI	ANGUILLA
AQ	ANTARCTICA
AG	ANTIGUA AND BARBUDA
AR	ARGENTINA
AM	ARMENIA

(45.1)

45.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

45.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register records.

45.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

45.4. Delete

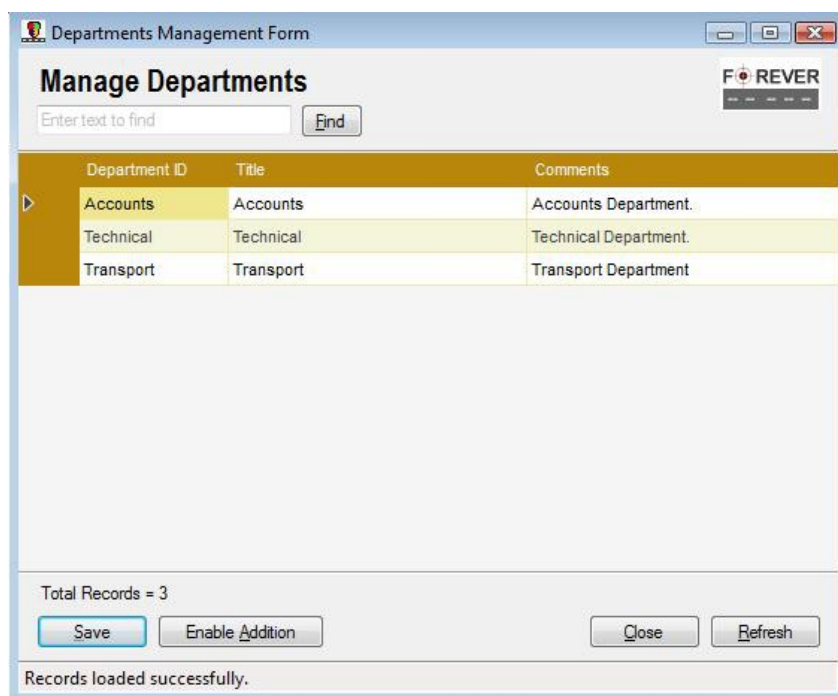
User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

46. Departments List Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Departments" menu item option from "Customers" menu as shown in fig. 42.1.
- 2) This will load "Departments Management Form" as shown in fig. 46.1.



Department ID	Title	Comments
Accounts	Accounts	Accounts Department.
Technical	Technical	Technical Department.
Transport	Transport	Transport Department

Total Records = 3

Save Enable Addition Close Refresh

Records loaded successfully.

(46.1)

46.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

46.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register records.

46.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

46.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

47. Designations List Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Designations" menu item option from "Customers" menu as shown in fig. 42.1.
- 2) This will load "Designations Management Form" as shown in fig. 47.1.

Designation ID	Title	Comments
C.E.O	C.E.O	
C.O.O	C.O.O	
CSR	Customer Support Representative	Customer Support Representative (...)
Director	Director	
G.M.	General Manager	
H.R.M	HR Manager	
Lecturer	Lecturer	
MGR	Manager Operations	Manager Operations.
MGR-TECH	Manager Technical	Manage Technical.
Partner	Partner	
Partner Director	Partner/Director	
Professor	Professor	

(47.1)

47.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

47.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.

- 4) Press "Save" button to register records.

47.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

47.4. Delete

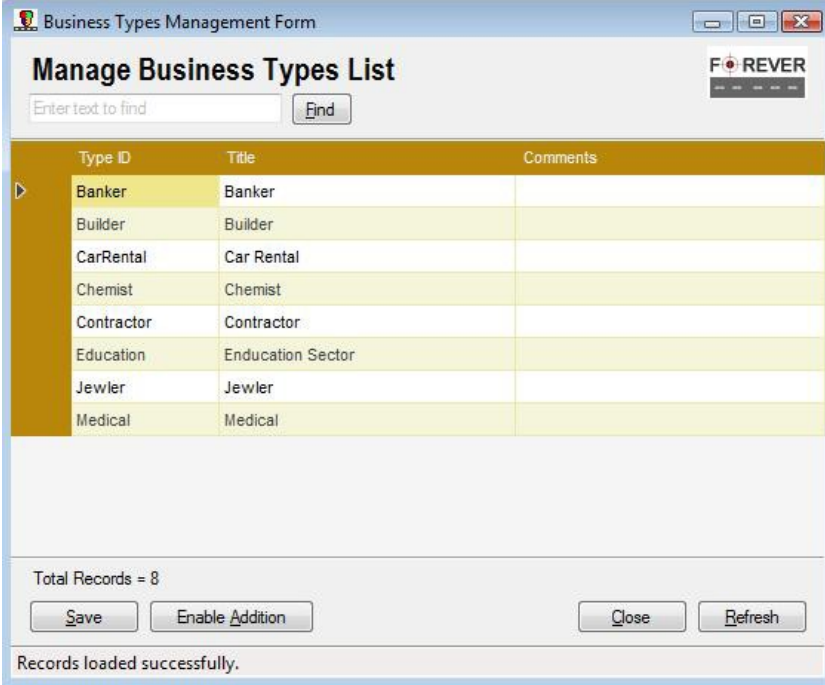
User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

48. Business Types List Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Business Types" menu item option from "Customers" menu as shown in fig. 42.1.
- 2) This will load "Business Types Management Form" as shown in fig. 48.1.



The screenshot shows a web application window titled "Business Types Management Form". Inside, there's a section titled "Manage Business Types List" with a search bar labeled "Enter text to find" and a "Find" button. Below this is a table with three columns: "Type ID", "Title", and "Comments". The table contains eight rows of data. At the bottom of the form, it says "Total Records = 8" and has buttons for "Save", "Enable Addition", "Close", and "Refresh". A status bar at the very bottom indicates "Records loaded successfully."

Type ID	Title	Comments
Banker	Banker	
Builder	Builder	
CarRental	Car Rental	
Chemist	Chemist	
Contractor	Contractor	
Education	Education Sector	
Jewler	Jewler	
Medical	Medical	

(48.1)

48.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

48.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register records.

48.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

48.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

49. Complaint Types List Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Complaint Types" menu item option from "Customers" menu as shown in fig. 42.1.
- 2) This will load "Complaint Types Management Form" as shown in fig. 49.1.

Type ID	Title	Comments
DisableEnginels...	Disable Engine Issue	
StopAutoAlerts	Do Not Send Auto Alerts	
FakeAlerts	Fake Alerts	
GeofenceNotRep...	Geofence Not Reported	
HistoryNA	History Not Available	
NoAlertsReported	No Alerts Reported	
SendAutoAlerts	Send Auto Alerts	

Total Records = 7

Save Enable Addition Close Refresh

Records loaded successfully.

(49.1)

49.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

49.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register records.

49.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

49.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

50. Complaint Statuses List Management Form

Let user search, add, edit and delete records. User may filter records based on drop down or input filters.

- 1) Select the "Manage Complaint Statuses" menu item option from "Customers" menu as shown in fig. 42.1.
- 2) This will load "Complaint Statuses Management Form" as shown in fig. 50.1.

Status ID	Title	Comments
Closed	Closed	Complaint has been solved.
Opened	Opened	Complaint has been recieved.

Total Records = 2

Save Enable Addition Close Refresh

Records loaded successfully.

(50.1)

50.1. Search

User can search records by typing in the required text and clicking on "Find" button, matching records will be displayed.

50.2. Add

User can register new records as explained below:

- 1) Click the "Enable Addition" button.
- 2) This will allow user to add new records in the grid.
- 3) Type in all record details.
- 4) Press "Save" button to register records.

50.3. Edit

User can directly edit records as explained below:

- 1) Select the record and double click (or press F2) in a particular cell to edit text.
- 2) User may modify multiple records and,
- 3) Press "Save" button to save.

50.4. Delete

User can delete records as explained below:

- 1) Select the record by clicking on row header and then,
- 2) Press "Delete" button on keyboard to delete record from grid.
- 3) User may delete multiple records from the grid.
- 4) Press "Save" button to delete records from database.

For support and product related inquiries please write at support@invincibletec.com