

SeeControl (v.3) User's Manual

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Telephone: +972-4-6774100 Fax: +972-4-6774101

E-Mail: info@htsol.com

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Chapter 1 Introduction

1.1 SeeControl Overview

SeeControl is the comprehensive Back-Office Management System for HTS's Vehicle Recognition System (VRS). VRS is a state-of-the-art, image recognition system that identifies tracks, and stores vehicle images and license plate data for a variety of applications, including:

- Safe City for highways and urban environments
- Access Control
- Parking Management
- Toll Collection

SeeControl is designed to monitor the health and maintenance of your vehicle recognition systems at a site or cluster of sites, all from your command and control facility.

SeeControl enables data fusion, reporting, and management of specialized Lane Controller applications – **SeeWay** and **SeeLane** – thus streamlining system performance. Its flexible data handling capabilities allow for highly customizable information management and report generation.

1.2 Purpose of this Document

This User's Manual and help system is provided to enable users to quickly master operation of SeeControl and its system management and reporting capabilities.

1.3 Additional Support

HTS offers additional support on its web site. You can access the support section using the link: <u>http://htsol.com/Support.asp</u> Obtain a user name and password from your HTS representative.

The section includes contact information for technical support, a FAQ (frequently asked questions) page, RMA (return merchandise authorization) procedure, and a download menu. The following items can be downloaded from the site:

- Software Releases
- Drivers
- Documentation
- Tools and Utilities

You can contact us for more information and assistance at:

Telephone / Fax	Email							
Telephone: +972-4-6774100	Marketing / Sales: info@htsol.com							
Fax: +972-4-6774101	Technical Support: <u>support@htsol.com</u>							

Chapter 2 System Architecture

SeeControl is based on a tiered architecture, in which each component can be hosted on separate hardware platforms, or together on the same workstation:

- **Server.** The SeeControl server collects vehicle entry information that is generated by the SeeLane and SeeWay applications, and stores the information on the database.
- **Client.** The SeeControl command and control station is a web application used to access and process the information stored on the database.
- **Database.** The SeeControl database stores images and events that are generated by the SeeLane and SeeWay applications.
- Internet Information Services (IIS) A web server application supporting client browser protocols, such as HTTP.



Figure 1: System Architecture

VRS Controllers are located remotely at selected gates and lanes. Each VRS Controller contains one or more imaging units that photographs entering vehicles. At each entry, the VRS Controller sends event records containing images and plate numbers to the SeeControl Service, which stores the information in an SQL-based database.

The SeeControl Client receives images and events from the Service, and presents a live view of them to the user via a graphical user interface. Multiple users can connect to the application using a standard web browser.

Chapter 3 Definitions

For the purposes of this document the following terms and definitions apply:

Term	Definition
Alerts	Alerts are sent when a " <u>hot-listed</u> " vehicle approaches a gate or a lane.
Confidence	The level of system confidence in a plate's identification. The confidence level is presented numerically in the range of "0" to "100", where the number "100" signifies the highest level of confidence.
Detections	Detection is an indication of a vehicle's entrance through a gate or a lane.
Immediate Alerts	Immediate alerts are alerts which have been provisioned as User Alerts. Immediate alerts trigger the display of a <u>pop-up window</u> , notifying the system operator of the alert in real-time.
Open Alerts	Open Alerts are alerts which have not yet been handled by the user. To handle an alert (or to close it), the user accesses the <u>Alert Details</u> screen, optionally edits a selected field and saves the information in the database.

Table 1: Terms and Definitions

Chapter 4 Getting Started

To activate the SeeControl system, enter the URL of the web application on your browser as follows: http://<Server_IP>/HTS.SeeControl. The SeeControl **Sign In** screen appears, as depicted in Figure 2 below.



Figure 2: Sign-In Screen

➔ To sign in to the SeeControl system:

- 1. Enter your user name and password in the **Username** and **Password** fields, respectively.
- 2. Click on the **Sign In** button to enter the system.

Chapter 5 Alert Screen

The Alert screen is displayed when the user enters the SeeControl system. The Alert screen serves as the SeeControl main window. A depiction of the **Alert** screen appears in the figure below:



Figure 3: Alert Screen

The Alert screen provides a real-time view of all vehicle <u>detections</u> and <u>alerts</u> in the system and presents the following information:

• Alert Screen Menu. The Alert Screen menu is located at the top of the Image View and Alerts List, and is used to switch between the Image View and the List View.



- **Image View**. The Image View is located on the left-hand side of the Alert screen, displaying photographed images or video streams generated by a selected imaging unit.
- Alerts List. The Alerts List is located on the right-hand side of the Alert screen, providing an up-to-date list of entering vehicles.

5.1 Image View

The Image View appears at the left side of the Alert screen, displaying photographed images or video streams of entering vehicles. A sample image view is depicted in Figure 4 below:



Figure 4: Image View

The following user controls are found at the top of the image:

• **Preset Icons**. A set of preset icons which allows the user to determine the number of images displayed simultaneously on the screen. The user can choose between 1, 2, 4, and 5 images:



The following figure depicts a 4 image view. A camera should be selected for each pane of the view.



Figure 5: 4 Presets

• Select Camera. In order to view the vehicles (video-streaming or images), the user should select an imaging unit, using the <u>Select Camera</u> drop-down menu.

If there is more than one active camera present in a specified location, then more than one image shall be received per event. The user can view these images one by one, by clicking on the arrow, as shown below.



Figure 6: Recognition

NOTE

The **Image View** button is a toggle. By pressing on **Image View**, the display of the entering vehicles is replaced by an enlarged List View. To return to the display of the entering vehicles, press on the **Image View** button again (see <u>Enlarged Image View and View Alert</u>).

5.1.1 Select Camera

Prior to viewing an image or a video stream, a lane or a camera should be selected. To select a lane or a camera choose **Select Camera**. The following window pops-up, enabling the user to select a lane/camera:



Figure 7: Select Lane/Camera

The site map in the window above employs a navigation tree that consists of the following entities:

- Node. A node is like a folder that can contain lanes and gates. In the example above ROOT is a node.
- Lane. A lane can contain cameras or can appear without a camera:
 - In the new version of SeeControl, lanes always consist of cameras and by selecting a camera; a video stream shall be displayed.
 - In the older versions there was no access to the cameras and lanes were displayed on the screen without cameras. In this case if the user selects a lane, a photographed image of the event shall be displayed.
 - The SeeControl new versions are backward compatible and both lanes with and without camera are supported.
- **Gate.** Gates are a part of the site map but they are not relevant for the Select Camera operation.
- Camera. A Camera appears always as a child of a lane and when selected, a video image shall be displayed for the selected preset.



5.2 Alerts List

The **Alerts List** appears at the right side of the Alert screen, displaying the up-to-date list of alerts and detections. A sample image view of the Alert List is depicted in Figure 8 below:

Alerts	list												
Operat	ional Alert		Open	Immediate All							Close All	Clear V	liev
	Time		Lane	Plate	Name	Make		Mod	el	List	State	us	4
•	15:14:09	VRS		Demo lane 3	6619875	Demo_0	Fo	rd	Fiesta	Demo h	ot list	Closed	
٠	15:13:37	VRS	CONTROLLER	Demo lane 2	6619875	Demo_0	Fo	rd	Flesta	Demo h	ot list	Closed	
٠	15:13:28	VRS	CONTROLLER	Demo lane 1	6619875	Demo_0	Fo	rd	Fiesta	Demo h	ot list	Closed	
۲	15:06:41	1			9999927							Closed	
۲	15:06:34	1			9999927							Closed	
۲	15:06:27	1			9999927							Closed	
۲	15:06:20	1			9999927							Closed	
۲	15:06:13	1			9999927							Closed	
۲	15:06:06	1			9999927							Closed	
۲	15:05:59	1			9999927							Closed	
۲	15:05:52	1			9999927							Closed	
۲	15:05:45	1			9999927							Closed	
۲	15:05:38	1			9999927							Closed	
۲	15:05:31	1			9999927							Closed	
۲	15:05:24	1			9999927							Closed	
۲	15:05:17	1			9999927							Closed	
۲	15:05:10	1			9999927							Closed	
۲	15:05:03	1			9999927							Closed	
0	15:04:40	4			0000027							Closed	

Figure 8: Alerts List

5.2.1 Displayed Information

The Alerts List displays the list of up-to-date alerts and detections, and contains the following information per entry:

- Colored Icon. Colored icon indicates the group that entering vehicle belongs to. A vehicle can belong to a specific *Hot List*. Each Hot List can be configured with a different color (see Chapter 6 below for more information about Hot Lists). Vehicles that do not belong to a Hot List appear with the blue icon:
- **Time**. The time of the alert (or detection)

- **Type**. The detection type. Possible values:
 - "LPR" A regular detection
 - "HotList Hit" The vehicle belongs to a Hot List
- **Lane**. The lane through which the vehicle passed
- Plate. The license plate number
- Name. The name of the vehicle's owner
- Make. The make of the vehicle. For example Hyundai
- Model. The sub-model of the vehicle. For example i35
- **List**. The name and the color of the Hot List that the car belongs to. If the car does not belong to a Hot List, this field remains empty.
- Status. Indicates whether the alert has been handled or not. Possible values: Opened, Closed.

5.2.2 Alerts List Types

The alerts list can be displayed according to a selected criterion, using the control buttons which appear at the top of the list, as shown below:

All Open Immediate

- **All.** Presents all the existing <u>detections</u> in the system.
- **Open.** Presents all the <u>open alerts</u> in the system (this is the default option).
- Immediate. Presents all the <u>immediate alerts</u> in the system.

5.2.3 Alert Details

The Alert Details screen enables the user to view the details of a selected alert, edit comments and save the information. This action closes the alert and changes its status from **Opened** to **Closed**.

➔ To view an alert's details:

- 1. Select an alert by clicking on it
- 2. The following information is presented:

Alerts lis	t						
Alert Det	VESO		Deal Owner: Dear	0.0			Budi To List
List:	Demo	hot list	HotList description:	0_0	Demo ho	it list	
			6199.75				
	Date	2013-11-13	Ту	pe	HotList Hi	t	Hide details
	Time:	15.13.28	Co	nfiden	ce:	100	
	Plate:	6619875	sp	eed:	20		
	Make:	Ford	M	odet	Flesta		
Procedure							
	Comme	nts:					

Figure 9: Alert Details Screen

- General:
 - Lane. The lane through which the vehicle passed
 - List. The name and the color code of the Hot List that the car belongs to. If the car does not belong to a Hot List, this field remains empty
 - **Owner.** The owner of the vehicle
 - HotList description. A short description about the Hot List
 - **Image.** An image of the vehicle is displayed
- Vehicle Details:
 - Date. The date of the alert
 - **Time.** The time of the alert
 - Plate. The license plate number
 - Make. The make of the vehicle
 - **Type.** The detection type. Possible values:
 - "LPR" A regular detection
 - "HotList Hit" The vehicle belongs to a Hot List
 - Confidence. The level of system confidence in a plate's identification (see Definitions)
 - **Speed.** The speed of the vehicle
 - Model. The sub-model of the vehicle
- Procedure:
 - **Comments**. Free text that summarizes the case

To close an alert:

1. Click on the Save and Close button.

➔ To exit without closing the alert:

1. Click on the **Back to List** button.

NOTE

The **View Alert** button is a toggle. By pressing on **View Alert**, the list view is replaced by an enlarged display of the entering vehicles. To return the list view, press on the **View Alert** button again.

5.3 Enlarged Image View and View Alert

Image View and View Alert buttons are toggles. By pressing on View Alert, the list view is replaced by the enlarged display of the entering vehicles, as shown in Figure 10 below:



Figure 10: An Enlarged Image View

To get back to the original image, press the Image View button again.

By pressing on Image View, the display of the entering vehicles is replaced by an enlarged List View, as shown in Figure 11 below:

Alerts	list														
Operat	ional Alert:	Open Immediate All					Auto refresh 🔳	Close Al Clear	Alert Det	ails					
	Time	Lane	Plate	Name	Make	Model	List	Status 🔺	Lane:	VRSC	ONTROLLER Demo	Owner:	Demo_2		
٠	16:22:38	VRSCONTROLLER Demo lane 2	223X775	Demo_2	Opel	Astra	Demo hat list	Closed	List:	Demo	hot list	HotList de	scription:	Demo hot list	
۲	15:56:16	SP						Closed			A COLUMN		B		
۲	15.56.16	SP						Closed			22 3	27.75]	Bure		
۲	15:56:15	SP						Closed					- man		
۲	15:56:15	SP						Closed							
۲	15:56:15	SP						Closed							Hide details
۲	15:56:14	SP						Closed	D	late:	2013-11-13		Type:	HotList Hit	
۲	15:56:13	SP						Closed	т	ime:	16.22:38		Confide	nce: 100	
۲	15:56:12	SP						Closed	P	fate:	223X775		Speed:	20	
۲	15:56:07	SP	9999927					Closed	Procedure	tane.	Oper		Model.	Asua	
۲	15:56:06	SP	9999927					Closed	C	omme	ents:				
۲	15:56:06	SP	9999927					Closed							
۲	15.56.06	SP	9999927					Closed							Save And Close
۲	15:56:06	SP	9999927					Closed							
۲	15:56:05	SP	9999927					Closed							
۲	15:56:04	SP	9999927					Closed							
۲	15:55:55	SP	9999927					Closed							
۲	15:55:53	SP	9999927					Closed							
۲	15:55:51	SP	9999927					Closed							

Figure 11: Enlarged Alerts List

5.3.1 Auto Refresh

The **Auto Refresh** check-box is displayed only when the Alerts List is enlarged (see Figure 11) and the Image View is not displayed. If Auto Refresh is checked, the incoming detection/alert is automatically selected and viewed.

By default the Auto Refresh check-box is unchecked.

5.4 Alert Counters

At the top of each SeeControl screen and at the right side of the menu toolbar appears the **Alert Counters** display:

325	18	3
Total	Total	Open
Detection	Alerts	Alerts

Figure 12: Alert Counters

The **Alert Counters** display shows the summary of detections per the last 24 hours, and provides the following information:

- Total Detection. Presents the number of detections in the system during the last 24 hours (see <u>Definitions</u>)
- Total Alerts. Presents the number of alerts that occurred during the last 24 hours (see <u>Definitions</u>)
- Open Alerts. Presents number of total open alerts in the system (see <u>Definitions</u>)

5.5 Alert Pop-ups

Immediate alerts pop-up on the display when they occur. Figure 13 shows an example of an alert pop-up:

- 0 HotList Hit
Plate: 9420020
List: Stolen
Open Snooze (5 min) Handle later

Figure 13: Immediate Alert

The user may press:

- **Open.** The <u>Alert Details</u> window is displayed, providing detailed information about the alert.
- **Snooze (5 min).** The pop-up window disappears and re-appears after five minutes.
- **Handle Later.** The pop-up window disappears.

Chapter 6 Hot List

The SeeControl Hot List is a tool that allows the user to create groups of vehicles intended for monitoring. The Hot List enables the user to track and manage specified vehicles using pre-defined policies. For example, the vehicles belonging to a specific Hot List may have a gate open automatically for them as they arrive.

There are two kinds of Hot Lists:

- White List. List of authorized vehicles. The system opens the gate for the vehicles in this list.
- **Black/Red List.** List of non-authorized vehicles. The system does not open the gate for the vehicles in this list.

These parameters can be set using the **Authorized** check box in the <u>Add Hot List</u> and <u>Update Hot List</u> windows.

This chapter explains how to operate the Hot List functionality. The Hot List screen appears in Figure 14 below:

Alerts HotList Reports Monitoring	Setup Help	MTS Ext	ending Your Vision 264 Hello. 1 Log off Detectio 24 Hours	63 0 0 n Total Open Alerts Alerts 24 Hours
Lists	Demo hot list			
+ @ m S	Details			
Name Active User alert	HotList Name: Demo h	not list Color:	Modify Date:	2013-11-06
Demo hot list 🖌 🗶	Mail Alert: 🗙	Active: 🖌	User Alert:	*
	Sound Alert: 🗶	Authorized	Match tolerance:	5
	Description: Demo h	not list		
	Entries		+ 🖄 🏛 G	search Q
	Plate number		Name	×
	6619875		Demo_3	E
	2232775		Demo_7	

Figure 14: Hot List Screen

The main Hot List screen consists of the following two sections:

- <u>Lists</u>. Presents the existing Hot Lists on the left side of the Hot List screen, and enables the user to manage the lists (add, update, and delete)
- **Details.** Presents the selected Hot List entries on the right side of the Hot List screen, and enables the user to manage the entries (add, update, delete, export, and import)



6.1 Lists

Existing Hot Lists are presented on the left side of the Hot List screen, as shown in Figure 15:





The Lists screen presents the following information for each Hot List:

- **Color**. The color of the Hot List, selected when the Hot List is created.
- Name. The name of the Hot List.
- Active. Determines how to treat the Hot List hits.

Hot List is active. An alert is displayed when there is a hit

* - Hot List is not active. No alert is displayed when there is a hit. The system ignores the event.

• User Alert. Indicates whether a pop-up window is displayed when an event occurs.

The Hot Lists are managed using the buttons appearing at the top of the screen:



6.2 Managing Hot Lists

6.2.1 Add a Hot List

To add a new Hot List:

1. Click on the **Add** button:



The dialog box shown below is displayed on the screen:

Add HotList		×
HotList Name:		This field is required.
Description:]
Color:		
Open Gates:		
Mail Alert:		
User Alert:		
Sound Alert:		
Authorized:		
Active:		
Match tolerance	0	
	Save	

Figure 16: Add Hot List

- 2. Enter the following parameters:
 - HotList Name. Hot List name mandatory.
 - **Description**. A short description of the Hot List not mandatory.
 - **Color**. Hot List color. Select a color from the drop-down menu.
 - **Open Gates**. Check the box if the gates are to open automatically for vehicles belonging to this Hot List.
 - **Mail Alert**. Check this box to send an email notification when an alert occurs (see 9.1.1.1, for Mail service setup).
 - User Alert. Check this box to pop-up an alert window when an event occurs.
 - Sound Alert. Check this box to generate a sound alert when an event occurs.

- **Authorized**. Authorized is a term that is used for the vehicles that are allowed entry, and maybe used differently for different systems. For example:
 - White List. The system opens the gate only for authorized vehicles that are included in this list.
 - Black/Red List. The system opens the gate for all vehicles except for those in this list.
- Active. Determines how to treat the Hot List hits.
 - Hot List is active. An alert is displayed when there is a hit.
 - * Hot List is not active. No alert is displayed when there is a hit. The system ignores the event.
- **Match tolerance**. Determines the allowed deviation in plate number recognition. Enter the maximum permitted number of unrecognized digits. The default value is zero.
- 3. Press Save to add the new Hot List to the system.

6.2.2 Update a Hot List

→ To update an existing Hot List:

- **1.** Choose the Hot List to be edited.
- 2. Click on the **Update** button:



The dialog box shown below is displayed on the screen:

Update HotList	×
HotList Name:	
Description:	
Color:	
Open Gates:	
Mail Alert:	
User Alert:	
Sound Alert:	
Authorized:	
Active:	
Match tolerance	0
	Update

Figure 17: Update a Hot List

- 3. Update any of the following parameters:
 - HotList Name. Hot List name.
 - **Description**. A short description of the Hot List not mandatory.
 - **Color**. Hot List color. Select a color from the drop-down menu.
 - **Open Gates**. Check the box if the gates are to open automatically for vehicles belonging to this Hot List.
 - **Mail Alert**. Check this box to send an email notification when an alert occurs (see Edit the VRS Server, for Mail service setup).
 - User Alert. Check this box to pop-up an alert window when an event occurs.
 - **Sound Alert.** Check this box to generate a sound alert when an event occurs.
 - **Authorized**. Authorized is a term that is used for the vehicles that are allowed entry, and maybe used differently for different systems. For example:
 - White List. The system opens the gate only for authorized vehicles that are included in this list.
 - Black/Red List. The system opens the gate for all vehicles except for those in this list.
 - Active. Determine how to treat the Hot List hits.
 - Hot List is active. An alert is displayed when there is a hit
 - Hot List is not active. No alert is displayed when there is a hit. The system ignores the event.
 - **Match tolerance**. Determines the allowed deviation in plate number recognition. Enter the maximum permitted number of unrecognized digits. The default value is zero.
- 4. Press Update to save your changes.

6.2.3 Delete a Hot List

➔ To delete an existing Hot List:

- **1.** Choose the Hot List to be deleted.
- 2. Click on the **Delete** button:



6.2.4 Refresh the List

➔ To refresh the hot list:

1. Click on the **Refresh** button:



Once you have created a Hot List, you may add vehicles to the list using the Details section of the Hot List screen. The Details section appears on the right side of the Hot List screen, providing:

- 1. <u>Details.</u> The details of the selected Hot List
- 2. <u>Entries</u>. A list of vehicles belonging to the selected Hot List

6.3 Details

To view a Hot List details, select a Hot List from the Lists section on the left side of the screen.

A sample **Details** section appears in Figure 18.

Demo hot l	ist						
Details							
HotList Name:	Demo hot list	Color:	Modify [Date:	2013-11 14:30:3	-06 5	
Mail Alert:	×	Active: 🖌	User Ale	ert:	×		
Sound Alert:	×	Authorized	Match to	olerance:	5		
Description:	Demo hot list						
Entries			+ 0	۵	••	search	Q,
Plate number				Name			
6619875				Demo_	3		E
				Demo	7		
2232775							

Figure 18: Hot List Details and Entries

The fields found in the Details section are as follows:

- HotList Name. Hot List name.
- **Color**. Hot List color. Select a color from the drop-down menu.

- **Modify Date.** The data and the time the Hot List has been created.
- Mail Alert. Check this box to send an email alert when an event occurs.
- Active. Determine how to treat the Hot List hits.
 - Hot List is active. An alert is displayed when there is a hit

* - Hot List is not active. No alert is displayed when there is a hit. The system ignores the event.

- User Alert. Check this box to pop-up an alert window when an event occurs.
- **Sound Alert.** Check this box to generate a sound alert when an event occurs.
- **Authorized**. Authorized is a term that is used for the vehicles that are allowed entry, and maybe used differently for different systems. For example:
 - White List. The system opens the gate only for authorized vehicles that are included in this list.
 - Black/Red List. The system opens the gate for all vehicles except for those in this list.
- **Match tolerance.** Determines the allowed deviation in the plate number recognition. The units are in plate number's digits. The default value is zero.
- **Description**. A short description of the Hot List.

The fields of the **Entries** section are as follows:

- Plate Number. The license plate number of the vehicle in the Hot List
- Name. A name (for example, the name of the vehicle's owner, or the model of the vehicle)

A search box is located on the upper-right side of the **Entries** section. It can be used to search for specific names and plates.

The entries are managed using the buttons appearing at the right side of the **Entries** title:



6.4 Entries

6.4.1 Add a New Entry to a Hot List

➔ To add a new entry (vehicle) to a Hot List:

1. Click on the Add button on the toolbar:



The dialog box shown below is displayed on the screen:

Add Entry		×
Plate Number:	117659	
Name:	Red Suzuki Swift	
	Save	



- 2. Enter the following information about the new vehicle in the Hot List:
 - **Plate Number.** The license plate number of the vehicle.
 - Name. A name (for example the name of the vehicle's owner, or the vehicle's model).
- 3. Press **Save**, to add the vehicle to the Hot List.

6.4.2 Update a Selected Entry

- → To update an existing entry in the Hot List:
 - **1.** Choose the entry to be edited.
 - 2. Click on the **Update** button on the toolbar:



The dialog box shown below is displayed on the screen:

Update Entry		×
Plate Number:	9284007	
Name:	White Mazda 6	
	Update	

Figure 20: Update Entries

- 4. Edit the following parameters:
 - **Plate Number.** The license plate number of the vehicle.

- Name. A name (for example the name of the vehicle's owner or the vehicle's model).
- 5. Press Update to save your changes.

6.4.3 Delete an Entry

➔ To delete an existing entry:

- **1.** Choose the entry to be deleted.
- 2. Click on the **Delete** button on the toolbar:



6.4.4 Customized Entry Fields

Additional fields can be added to the Entries list. The customization of the fields is performed by pressing on the <u>Customization</u> tab, which is located on the **Setup** screen.

In the example below, two new fields, test1 and test2, have been created. This customization is reflected in the below screenshots:

Entries

Entries			+	G	۲	٥	search	d,
Plate number	Name	test1			test2			_
11111	1	test			test2			
2222222	2	test						

Figure 21: Customized Entries List

Add Entry

Add Entry	×
Plate number	This field is required.
Name	
test1	
test2	
	Save

Figure 22: Customized Add Entries Window

Update Entry

Update Entr	У	,
Plate number	111111	
Name	1	
test1	test	
test2	test2	
	Update	

Figure 23: Customized Update Entries Window

6.5 Export Entries List

You can export the entries to a file in CSV (Comma-Separated Values) format.

- **To export the entries list:**
 - 1. Click on the **Export** button on the toolbar:



2. Save the file in the desired location.

6.6 Import Entries List

You can import entries into a Hot List from a pre-prepared CSV file:

➔ To import an entries list:

- **1.** Prepare an entries file for the Hot List.
- 2. Click on the Import button on the toolbar:



The dialog box shown below is displayed on the screen:



Import Hotlist Entrie	5 X
Please Select File To Uploa	ad
	Browse
Delete existing entries 📃	
Upload File	
	//

Figure 24: Import Entries

- 3. Browse and select the CSV file for upload.
- 4. To delete the existing entries, check the **Delete existing entries** box.
- 5. Click **Upload File** to import the file.

Chapter 7 Reports

The SeeControl Report screen allows users to prepare a report by performing database queries based on parameters selected using the query toolbar. SeeControl responds to the query with a list of event records and images that match the query criteria. The Reports screen is displayed in Figure 25.

Alerts	HotList	Reports	Monitori	ng S	o etup	? Help					ding Your Vision Hello, 1 <u>Log off</u>	2645 Total Detection	5 0 Total Alerts	5	Open Alerts
Report Det	tails	-	-	-	-	-	-	-	-	-	-	24 Hours	24 Hour	5	
Query															
Entity :	[Car Detection		•											
License Plate :	: [Location :				E.	From :	11/10/2013	: 12:02pm			
Car Make :					Car Model :					To :	11/11/2013	12:02pm			
Confidence :		>		•	value :	0									
Clear															Search
Result													Plate		l¶i ⊙
Time Plat	te Number	Plate	Name	Car Make	e Car Mo	del S	Speed	List	Location	Confidence					

Figure 25: Reports Screen

The Reports screen is divided into the following sections:

- **<u>Query</u>**. For entering query criteria.
- **<u>Results</u>**. A list of filtered events that match the entered criteria.

7.1 Query

The SeeControl query screen allows the user to query a database, as shown in Figure 26 below.

Query							
Entity :	Car Detection						
License Plate :		Location :		-	From :	11/10/2013 : 12:02pm	
Car Make :		Car Model :			To :	11/11/2013 : 12:02pm	
Confidence :	>	value :	0				
Clear							Search

Figure 26: Query Criteria

The query criteria are provided according to the following parameters or any combination of them:

- Entity. Indicates the subject of the query. Currently the Entry is based on Car Detection.
- **License Plate.** The user can perform a query based on the vehicle's plate number, entering either the whole plate number, or a portion of it. For example, enter "13" to list all plates that include the number "13".
- Car Make. The make of the vehicle.
- **Car Model**. The sub-model of the vehicle.
- Location. The user can perform a query based on a lane through which the vehicle passed or a camera, by using the Location drop-down menu to navigate through the selected site map. A site map can consist of lanes and cameras. Figure 27 shows the site map nodes:

Select Lane\Camera to view ×
4 🕸 Site Man ROOT
b m lane3
> mail Lane1
Lane4
Eane2
4

Figure 27: Query Location

- **Time Interval.** A time interval set by selecting dates from the **From** and **To** drop-down calendars.
- **Confidence and value.** The level of system confidence in a plate's identification. Press on Confidence list box to open the drop-down menu. Select a sign and enter the desired value to set the database query.

Confidence :	>	value :	80
	>		
	<		
	=		

Figure 28: Setting the Confidence Level

- Press **Search** to submit the query.
- Press **Clear** to clear all the entered parameters.

7.2 Results

Following the submission of the query (as shown in the <u>Query</u> section), a filtered list of events is displayed on the **Results** part of the screen. The following figure contains a sample list:

Re	port Details	s									
Que	ery										
Er	ntity :	Car Det	ection								
Lic	ense Plate :			I	Location :				6	From :	11/10/2013 : 12:39pm
Ca	ar Make :				Car Model :					To :	11/11/2013 : 12:39pm
Co	onfidence :	>		•	value :	0					
C	lear										Search
Res	sult										Plate 🗔 🅅 🔍
	Time	Plate Number	Plate	Name	Car Make	Car Model	Speed	List	Location	Confidence	
1	2013-11-10 12:41:28	2561078	<u>25:610·78</u>				0		Exit	100	THE STORE
2	2013-11-10 12:47:13	7013079	70:130:79		523		0		Entrance	100	

Figure 29: Query Results

- **Time**. The date and the time of the entry.
- **Plate Number**. The license plate number.
- Plate. The license plate image.
- Name. The name of the vehicle's owner.
- Car Make. The make of the vehicle.
- **Car Model**. The sub-model of the vehicle.
- **Speed.** The speed at which the vehicle traveled.
- **List.** The name and the color of the Hot List that the car belongs to. If the car does not belong to a Hot List, this field remains empty.
- **Location.** The lane-name of the recognition location appears in this column.
- **Confidence.** The level of system confidence in a plate's identification.

If no events match the query criteria, a pop-up message is presented.

If the filtered list is too long, the system limits the number of entries displayed and notifies the user with a message. The user may then proceed to narrow the query with more specific information.

Select a vehicle from the Results list to view an image on the right side of the screen, as shown in Figure 29.

To view more images, press on the Plate Field. An Overview image of the vehicle appears:



Figure 30: An Overview Image

To view the Recognition and Plate images, and to scroll between the images, click on the displayed image.

Press the <Esc> key to return to the Reports screen.

7.2.1 Reports

The user may generate a report based on the results of the query.

To generate a report:

- 1. Choose a grouping method, by choosing between:
 - Plate.
 - List.

Using the Results tool-bar, as shown below:



2. Press on the Reports button, as shown below:



3. A new tab is created on your browser, presenting your selected report.

Figure 31 shows a report grouped by plate number:

Plate 🕀	Name 🕀	Lane 🕀	List 🗧	Time 🕀
9284007		0	Stolen	2013-04-22 15:55:19
		0	Stolen	2013-04-22 15:55:45
		2	Stolen	2013-04-22 15:56:09
		2	Stolen	2013-04-22 15:56:29
		1	Stolen	2013-04-22 15:58:54
		1	Stolen	2013-04-22 16:03:18
		2	Stolen	2013-04-22 16:03:44
		2	Stolen	2013-04-22 16:04:06
		0	Stolen	2013-04-22 16:05:16

Figure 31: Events Grouped by Plate Number

Each column on a report can be sorted in ascending or descending order by clicking on a column header.

To export a report:

1. Press on the Export button, as shown below:



2. A "Report.csv" file is created and located at C: Downloads on your computer.

Chapter 8 Monitoring

The SeeControl Monitoring screen provides a graphical view of system information. The Monitoring screen is displayed in Figure 32.

Alerts HotList Reports Monitoring Setup Help	Helo, 1 Log off Helo, 1 Log off Total Detection Siltern Silte
System status Site Map Root Recognition Contidence	Recognition Confidence 2 Hours
Navigation Physical Physical Site Map ROOT	911.15 11:30 11:45 12:00 12:15 12:30 12:45 13:00 Activity
 Lane -south Lane - north Entrance - main Entrance - employees 	

Figure 32: Monitoring

The monitoring screen consists of the following sections:

- <u>System Status</u>
- <u>Navigation</u>
- Monitoring Information

8.1 System Status

Located at the upper-left side of the Monitoring screen, **System Status** shows the current status of the system as a pie chart. The pie chart is divided into the number of the lanes, where each portion is colored with the current health condition of the relevant lane. The existing system health conditions are: ok (green) and error (red).

In the example below one lane out of four existing lanes has a problem, as reflected on the pie chart.



Figure 33: System Status

8.2 Navigation

The **Navigation** section, located at the lower-left corner of the Monitoring screen, serves as the system's logical site map. A green or red circle next to each represents the state of health (normal or malfunctioning) of the node.

By selecting the Site Map root node or a lane, the user can view the selected object's performance and activity information. Figure 34 depicts an example of the Navigation display:

Navigation
✓ I Site Map ROOT ●
▷ 🚥 Lane -south [●]
▷ 🛲 Lane - north [●]
▷ 🛲 Entrance -main ●
🛲 Entrance - employees 📍

Figure 34: Navigation

8.3 Monitoring Information

Monitoring information is located on the right side of the Monitoring screen. It includes recognition graphs and activity views, as shown in Figure 35.



Figure 35: Monitoring Information

The time interval for the monitoring calculations is selectable using the drop-down menu in the topright corner of the window. Figure 36 shows the selectable time intervals.

1 Hour	•
1 Hour	
2 Hours	
4 Hours	
8 Hours	
16 Hours	
24 Hours	

Figure 36: Monitoring Interval

8.3.1 Recognition

Recognition settings are selectable using the drop-down menu at the top of the window. Figure 36 shows the recognition information options.

Recognition Confidence	•
Recognition Rate	
Recognition Confidence	

Figure 37: Recognition Information

8.3.1.1 Recognition Confidence

Recognition Confidence is the level of system confidence in a plate's identification. This information is provided in two different graphic presentations:

1. The current average confidence level value for a selected time period. In the example below, the average confidence level for the Site Map Root (selected in Navigation, see Figure 34) during the last hour is 87.4.



Figure 38: Average Recognition Confidence Level

2. Confidence level values are displayed in a graph in accordance with the selected time interval (in this example 1 Hour - the time interval is divided by 10).



Figure 39: Recognition Confidence Values Graph

8.3.1.2 Recognition Rate

The **Recognition Rate** is calculated as the ratio of successful plate recognitions to the number of recognition events. This information is provided in two different graphic presentations:

1. The current average recognition rate value for a selected time period. In the example below, the average rate for Site Map Root (selected in Navigation, see Figure 34) during the last hour is 94.7.



Figure 40: Average Recognition Rate Level

2. Recognition rate values are displayed as a graph in accordance with the selected time interval (in this example 1 Hour - the time interval is divided by 10).



Figure 41: Recognition Rate Values Graph

8.3.2 Activity

The Activity view provides the graph of the number of vehicles, in accordance with the selected time interval (in this example, 1 hour - the time interval is divided by 10).



Figure 42: Activity Graph

Chapter 9 Setup

You can configure SeeControl system parameters by using the Setup screen. The SeeControl setup menu includes the following tabbed sub-menus:

- Site. Used for setting the logical and physical site maps.
- Users. Used for user administration.
- **Localization.** Used for system localization.
- Customization. Used to customize Hot List entry fields.

To configure the SeeControl settings, click on **Setup.** The **Site** sub-menu window appears as the default of the Setup screen, as shown in Figure 43.

Alerts HotList Reports	Monitoring Setup Help	Helio. admin Log off Helio. admin Log off Detection 24 Hours	
Site Users L	ocalization		
Logical Physical	C VRS Server		ŕ
	Name:	VRS Server	
Physical Site Map ROOT VRS Server	Server Mail	Mail distribution list	
	Image Directory:	C:\\LPRGateway\\Images	E
	Auto Open Gates	V	
	Server IP	default	
	Port	1368	
	Retention Period (I	Days) ₃₀	
	Plate Overlay		
	Event Information Overlay		

Figure 43: Setup Screen

9.1 Site

The Site sub-menu enables the user to manage SeeControl's logical and physical site maps.

9.1.1 Physical Site Map

The Physical Site Map is a hierarchical view of the physical entities found in the site, and is presented as a tree. The physical site map is created during the physical nodes' setup and installation, and is used as an input for the system's logical map creation.

The physical site map nodes are as following:

- VRS Server. The SeeControl server. Currently, only one instance is supported.
- **Lane Controllers.** Controllers are connected to one or more imaging units or gates. They receive the images from each imaging unit/gate and send them to the VRS server, per event.
- Imaging unit. Each camera belongs to one lane controller which collects the events.
- **Gates.** Gates are used to control access to the site.

Using the Physical sub-menu, the user can view the physical site map, edit, or delete the information of each node.

→ To view or manage a physical node:

 Press on the Physical sub-menu of the Site screen. The Physical site map window opens. Figure 44 depicts an example of a physical site map:



Figure 44: Physical Site Map

2. Select the node you want to view. The selected node's information is displayed:

Name:	PC -2	
Queue Message Time Period:	0	
Settings:	14	
Format.ini:	0	
		Save

Figure 45: View a Controller

9.1.1.1 Edit the VRS Server

➔ To edit the VRS:

1. Select the VRS. The VRS parameter is displayed in the below figure:

Name:	VRS Server	
Advanced		Save

Figure 46: VRS Parameter

- Name. The VRS name.
- 2. Press Advanced to view or edit more parameters. The following categories can be viewed and set:
 - Server. VRS server parameters.
 - Mail. e-Mail parameters for alert notifications.
 - Mail Distribution List. The e-mail distribution list.

Server

Press on **Server** in order to view or edit the VRS server's parameters. The following lists the VRS server parameters:

Name:	Luna a	
Name.	VRS Server	
Server Mail Ma	il distribution list	
Image Directory:	C:\\LPRGateway\\Images	
Auto Open Gates	V	
Server IP	default	
Port	1368	
Retention Period (Days)	30	
Plate Overlay		
Event Information Overlay		
Overlay Camera Capture Information	•	
Smart Output		
Saving image method	All	•

Figure 47: VRS Parameters

- Image Directory. The location in which the server stores the images.
- Auto Open Gates. If this box is checked, all the gates can be opened automatically. Otherwise, gates must be opened manually.
- Server IP. When a server has only one IP address, it appears as a default on the textbox. If a server has an additional IP address (because of multiple network interface cards), enter the additional IP address in this field.
- **Port.** The TCP port utilized by the server application.
- Retention Period (Days). The time interval in days during which events and images are stored in the database. Events that have aged past the defined retention time are deleted. The default retention time is 30 days.
- **Plate Image Overlay.** If this box is checked, the plate number shall be displayed at the top of the overview image, as shown in Figure 30.
- **Event Information Overlay.** If this box is checked, the event information shall be displayed at the top left of the overview image, as shown in Figure 30. This information includes:
 - Lane id
 - The time of the event
 - Plate number



- **Overlay Camera Capture Information.** If this box is checked, the camera capture information is displayed in the bottom-left corner of the overview image, as shown in Figure 30. This information includes:
 - **Exposure.** The camera's shutter speed, in microseconds
 - **Gain.** The camera's gain setting (0 = minimum, 255 = maximum)
 - Iris. The degree of the iris aperture opening (0 = fully open, 255 = fully closed)
- **Smart Output.** If this box is checked, the images that have been identified as noise are filtered, and cannot be viewed.
- **Saving image method.** Indicates which images to save, using a drop-down menu, as shown in Figure 48:

Best of each camera
Best of event
Best of each camera
All

Figure 48: Selectable Saving Methods

- Best of event. The best image of the event, selected from all the cameras.
- Best of each camera. The best image per camera.
- All. All the event's images

Mail

SeeControl can send email notifications when a specified alert occurs. For the notification configuration, see <u>Add a Hot List</u>. Press on **Mail** in order to configure the email server and settings, as shown in Figure 49.

Name:	VRS Server
Server Mail Mai	distribution list
Mail Server Name	smtp.gmail.com
User Name	hts.alerts@gmail.com
Password:	
Port	587
From Address	hts.alerts@gmail.com
Enable SSL	✓ Test mail
Advanced	Save

Figure 49: Mail Configuration

- Mail Server Name. The name of the mail server that will send the notifications.
- User Name. The username used to access the mail server.
- **Password.** The password used to access the mail server.
- **Port.** The TCP port used by the mail application, if needed. Otherwise "0" should be entered.
- From Address. The mail address that will appear in the "From" field.
- **Enable SSL.** Enable Secured Sockets Layer (SSL). If the box is checked, the information is encrypted before being sent over the internet.
- **Test Mail**. Send a test email to verify that the service has been set correctly.

Mail Distribution List

To view or manage your email distribution list, click on **Mail distribution list**. The current distribution list appears, as shown below:

Name:	VRS Server	
Server Mail	Mail distribution list	
		+ 🛍
 Michael@test.c John@test.com 	om	
Advanced		Save

Figure 50: E-mail Distribution List

- → To delete a recipient from your distribution list:
 - 1. Press on the **Delete** icon.



→ To add a new recipient to your distribution list:

1. Press on the Add icon.



The following window pops-up:

Add new distribution itam		×
Mail address:	Adam@test.com	
	Save	

Figure 51: New E-mail Recipient

- 2. Enter the recipient's email address.
- 3. Press Save.

9.1.1.2 Edit a Controller

To edit a controller:

1. Select the controller you want to edit. The controller parameters are displayed in the below figure:

ſ			
	Name:	Controller2	
	Queue Message Time	0	
	Period:		
	Settings:	14	
	Format.ini:	0	
			Save

Figure 52: Edit Controller

- Name. The name of the controller.
- **Queue Message Time.** Indicates the time period that the controller keeps the events (seconds). Upon the expiry of this value the events shall be deleted. The default value is 60 seconds.
- **Settings.** The configuration file of the controller. This field provides the value of the Setting file version (for internal use).
- **Format ini.** The configuration file used for pattern recognition. This field provides the value of the Format.ini version.
- 2. Enter the parameter you want to edit.

Press **Save** to save the new input.

9.1.1.3 View a Gate

To view a gate:

1. Select the gate you want to edit. The gate parameter is displayed in the below figure:

	· · · · · · · · · · · · · · · · · · ·	
Name:	My Gate 1	

Figure 53: View a Physical Gate

• Name. The name of the gate.

9.1.1.4 View a Camera

To view a camera:

1. Select the camera you want to view. The camera parameters are displayed in Figure 54.

Name:	Camera2	
Camera Ip:	10.10.10.1	
Camera Type:	Recognition 💌	



- Name. The name of the camera.
- Camera IP. The IP address of the camera
- **Camera Type.** The type of the camera. Possible values:
 - **Recognition**. A camera which its output are used for vehicle recognition.
 - **Overview**. A camera which provides an overview image/video.

9.1.1.5 Delete a Physical Node

To delete a physical node:

- 1. Choose the node you want to delete
- 2. Press on the delete button:



9.1.2 Logical Site Map

In order to manage the events, it is mandatory to build a logical site map of the system. The logical site map presents a logical, tree-based view of the site. The tree contains all the logical entities of the system.

In order to build a logical map, the administrator needs to use the existing physical map and create lanes (a lane is a logical entity) from relevant physical entities (such as cameras and gates).

Lanes are then combined under nodes which are like folders. The following object types are found in a logical site map:

 Node. A node is like a folder that can contain lanes and gates. In the example above ROOT is a node.

- Lane. Lanes can contain cameras (new version) or can appear without a camera (older versions). New versions of SeeControl are backward-compatible, and both lanes with and without cameras are supported.
- **Gate.** Gates as a part of the site map contain cameras that cannot be provisioned.
- Camera. A camera appears always as a child of a lane and provides images per event.

Using the Logical sub-menu, the user can create, view and manage the logical site map.

- → To view or manage a logical node:
 - 1. Press on the Logical sub-menu of the Site screen.

Logical site map window opens. Figure 55 depicts an example of a logical site map:



Figure 55: Logical Site Map

2. Select the node you want to view. The selected node's information is displayed:

Name:	Camera2	
Camera lp:	10.10.10.1	
Camera Type:	Recognition	

Figure 56: View a Camera

9.1.2.1 Edit the Root

To edit the root:

1. Select the root. The root parameter is displayed in the below figure:

Name:	Site Map ROOT	
		Save



- Name. The name of the root
- 2. Enter your new input.
- 3. Press Save to save the information.

9.1.2.2 Edit a Lane

To edit a lane:

1. Select the lane you want to edit. The lane parameters are displayed as shown in Figure 58.

Name:	Lane -south		
Lane Id:	70		
Lane Type:	New	CLegacy	
Advanced			Save

Figure 58: Lane Parameter

- Name. The lane name.
- Lane id. A unique number specified per lane
- Lane Type. Possible values include:
 - New. Specifies the new version of the system, in which the cameras are accessible.
 - **Legacy.** Specifies the older versions of the system, in which there is no access to the cameras, and lanes appear without cameras.

- 2. Press Advanced to view or edit more parameters.
- a. New: The following parameters are displayed for New Lane Types:

Name:	Lane -sou	uth	
Lane Id:	70		
Lane Type:	New	⊚Legacy	
Lane logic timeout	10000		
Camera timeout	5000		
Trigger threshold	100		
Choose		Unassign gate	
Camera1 alex Camera2 Camera1		My Camera 21 My Camera 24 My Camera 24 My Camera 26 My Camera 23	
Advanced		Save	

Figure 59: New Lane Parameters

- **Lane logic timeout.** Maximum time interval (in milliseconds) to wait for all the recognition cameras which are related to a specific lane (default = 10,000 milliseconds).
- **Camera timeout.** Maximum time interval the lane waits for a camera's input (default = 5000 milliseconds).
- **Trigger threshold.** Maximum time interval from the time an event has occurred, which is close enough to the event to correlate between different cameras' inputs (default = 100 milliseconds).
- Assign/Unassign gate. See <u>Assign/UnAssign Gates to Lane.</u>
- Assign/Unassign camera. See <u>Assign/Unassign Cameras to Lane.</u>

b. Legacy: The following parameters are displayed for Legacy Lane Types:

			_
Name:	Lane -sout	h	
Lane Id:	70		
Lane Type:	New	Legacy	
lp			
Overview camera:			
Open gate with pin commands:			
Gate is normally open			
Lane pin	0		
Advanced			Save

Figure 60: Legacy Lane Parameters

- **IP.** The IP address of the controlling device.
- **Overview camera**. The overview camera name.
- **Open gates with pin commands.** Checked if the gate opening and closing are controlled by an external I/O device.
- **Gate is normally open.** Circuit default select Normally Open or Normally Closed according to the controlling device's specification.
- Lane pin. The pin number of the controlling device connected to the gate.
- 3. Enter the parameter you want to edit.
- 4. Press Advanced to exit from advanced screen.
- 5. Press **Save** to save the new input.

9.1.2.3 View a Camera

To view a camera:

1. See the <u>View a Camera</u> explanation in the Physical Site Map section

9.1.2.4 Add a New Group

A group is a logical folder which contains other groups and lanes.

→ To add a new group:

- 1. Select the parent of the new group you want to add.
- 2. Press on Add Group:



A new window opens:

Logical Physical 3	Site Map ROOT	
1. The second	Name: New logical node	
🔺 🏨 Site Map ROOT		ave
1 New logical node		

Figure 61: Add a Group

- 3. Enter the name of the new group.
- 4. Press Save.

9.1.2.5 Add a New Lane

To add a new lane:

- **1.** Select the group you want to add a lane to it.
- 2. Press on Add Lane:

A new window opens:

12 71 m	Name:	New lane		
🔺 🎎 Site Map ROOT	Lane Id:	0		
Lane -south				
Lane - north	Lane Type:	New	CLegacy	
Entrance -main	Advanced			Save
Entrance - employees				
me New lane				

Figure 62: Add a Lane

- 3. Press Advanced for all the parameters. For all the lane parameters (new and legacy), see Edit a Lane.
- 4. Add the new parameters.
- 5. For New Lane Type, <u>assign gates</u>, and <u>assign cameras</u>.
- 6. Press **Save**. The new lane has been added.

9.1.2.6 Assign/UnAssign Gates to Lane

➔ To assign a gate to a lane:

- 1. Select a lane
- 2. On the edit lane/add lane screen press on advanced.
- 3. The list of the exiting gates appears on the box at the left side of the screen, as shown in the figure below.

Figure 63: Assign a Gate to Lane

- 4. Select the gate to be assigned to the lane.
- 5. Press Save.

➔ To un-assign gate from lane:

- **1**. Select the gate to be un-assigned from the box at the right side of the screen.
- 2. Press on Unassign gate.
- 3. Press Save.

9.1.2.7 Assign/Unassign Cameras to Lane

➔ To assign a camera to a lane:

- **1.** Select a lane.
- 2. On the edit lane/add lane screen press on Advanced.
- 3. The list of the exiting cameras appears in the box at the left side of the screen, as shown in Figure 64.

Camera1 Camera2	*	>>	*
	-		~

Figure 64: Assign a Camera to Lane - 2

4. Select the camera to be assigned to the lane.

Camera1 Camera2	^	>>	
	-		

Figure 65: Assign a Camera to Lane - 3

5. Press on >>.

Camera2	*	>>	Camera1	*
	Ŧ			Ŧ

Figure 66: Assign a Camera to Lane - 4

6. Press Save.

➔ To unassign a camera to a lane:

- 1. Select the camera to be un-assigned from the box at the right side of the screen.
- 2. Press on <<.

Camera2	*	>> Cam	iera1	*
	Ŧ			-

Figure 67: Un-assign a Camera

3. Press Save.

9.1.2.8 Delete a Logical Node

➔ To delete a logical node:

- 1. Choose the node you want to delete
- 2. Press on the delete button:



NOTE

In order to delete a logical node, its branches (children) should be removed first. A logical node with existing branches cannot be deleted.

9.2 Users

SeeControl system users are managed via the Users setup:



Figure 68: Users Screen

➔ To manage a user:

1. Press on the **Users** sub-menu of the Setup screen. The following figure appears on the screen:

Users	User Details		
+ 6 🛱	Name:	Adam	
User	Password:		
admin	Role:	User	
Adam			

Figure 69: Users Screen

- **Users.** This section is located at the left side of the screen and contains:
 - The list of the users in the system
 - Buttons used to manage the users list

Users				
		+	Ø	Î
User				
admin				
Adam				

Figure 70: Users Management

• **User Details.** This section is located at the right side of the screen and displays the details of a selected user.

User Details		
Name:	Adam	
Password:		
Role:	User	

Figure 71: User Details

9.2.1 Add User

To add a new user:

1. Press the Add button:



The following screen appears:

Add User		×
Name:		
Password:		
Role:	User	
	Save	
		1



- 2. Enter the following fields:
 - Name. The user's name.
 - **Password**. The user's password.
 - **Role**. The role of the user. The following roles are defined:
 - Admin. The *admin* role allows access to all screens and system operations.
 - **User**. Users defined as *user* are permitted only to view the alert screen and have no administrative privileges.
- 3. Click on Save. The user is added to the system

9.2.2 Edit User

➔ To Edit an existing user's information:

- 1. Choose the user to be edited from the list.
- 2. Press the Edit button:



The following screen appears:

Name:	admin	
Password:	•••••	
Role:	Admin	
	Save	



- **3.** Enter the following fields:
 - Name. The user's name.
 - **Password**. The user's password.
 - **Role**. The role of the user. The following roles are defined:
 - Admin. The *admin* role allows access to all screens and system operations.
 - **User**. Users defined as *user* are permitted only to view the Live screen and have no administrative privileges.
- 4. Click on **Save** to save the new input.

9.2.3 Delete User

To delete a user:

- 1. Choose the user to be deleted from the list.
- 2. Click on Delete.



9.3 Localization

Pattern recognition application of the vehicles plate numbers uses specific configuration files which are unique per country. Localization screen enables the administrator to download appropriate country specific configuration files for pattern recognition.

Figure 74 depicts the localization screen:

Âun .	NotList	Query Monte	Setup	? Nelp			MTS Extending Tear Vision Hole, 1 Log of	31 Total Detection	0 Total Alems	Open Alem
See	Osers	Localizat	Outloo	inition						
Localization				Lo	calization					-
+ 白檀 Stellap	ROOT				Choose file to upload	Choose File, Formatri rar				
12 an He	rw lone				Format version	21				
1000	lindoor						and the second se			
	Outdoor						Contraction 2			
2=0	or 210									

Figure 74: Localization Screen

To download country-specific configuration files for localization:

- 1. Press on the **Localization** tab on the tool bar.
- 2. Select the lane which is intended for localization.
- 3. Choose a file which specifies the required configuration for the selected lane. The configuration files are supplied by the support team in "zip" format.
- 4. Enter the **Format version**. Format version is the version of the chosen format for the lane, used by the administrator to distinguish between different lane formats.
- 5. Press **Upload File** to apply the localization.

9.4 Customization

The Customization screen enables the administrator to add new fields to the Hot List Entries table. Figure 75 contains a depiction of the customization screen.

Alerts HotList Query Monitoring	Setup Help	HITS Extending Your Vision Helio. 1 Log off	O Total Detection 24 Hean	O Total Alerts 24 Hosen	6 Open Alerts
Site Users Localization	Customization				
Customization	Dynamic fields customization				
Name	Field1				
Hot list entry dynamic fields	Field2				
	Field3				
	Field4				
	Field5				
	Field6	test1			
	Field7				
	Field8				
	Field9				
	Field10	test2			
		Save			

Figure 75: Customization Screen

→ To add a new field to Hot Lists Entries table:

- 1. Press on the **Customization** tab on the tool bar.
- 2. Ten dynamic fields (field 1 to field 10) appear in the dialog box on the right-hand side of the screen (see Figure 76). You can enter new field names here.

Dynamic fields customization		
Field1		
Field2		
Field3		
Field4		
Field5		
Field6	test1	
Field7		
Field8		
Field9		
Field10	test2	
		Save

Figure 76: Hot List Entries Fields Customization

3. Press Save. For applied examples see <u>Customized Entry Fields</u>.

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