

From: "Kealy, Kevin" <Kkealy@ci.new-rochelle.ny.us>
Subject: **FREEDOM OF INFORMATION REQUEST - NEW ROCHELLE PD - AUTOMATED LICENSE PLATE READER INFORMATION**
Date: August 9, 2012 9:48:47 AM EDT
To: <dberger@nyclu.org>

Dear Mr. Berger,

This e-mail is to acknowledge the receipt of your F.O.I.L. request. In reviewing the request it is to be noted that much of it involves straight forward questions, instead of an actual request for records. To supply as much as information as possible, let me start by advising you of the following:

NRPD currently has three license plate readers deployed as follows:

Radio Car # 54 – mobile unit – manufactured by ELSAG – used primarily for detecting local scofflaws who have unpaid parking summons due in New Rochelle City Court. The unit accesses NYS DMV records and is interfaced with a scofflaw database produced by a vendor contracted by NR City Court. The plate reader scans parked vehicles on the street and in parking lots; the data is held in the laptop mounted in the car for approximately 20 days when the data is purged and written over by more current data.

Radio Car # 22 – mobile unit – manufactured by ELSAG – used primarily for traffic enforcement detecting moving or parked vehicles that have suspended/ revoked registrations, vehicles that are unregistered, vehicles that have plates improperly displayed, or vehicles that are stolen. The unit accesses NYS DMV records. The data is held in the vehicle's laptop for approximately 20 days when it is purged and written over by more current data. The time frame could be longer or shorter depending on the volume of plates scanned.

Fixed License Plate Reader – mounted at the intersection of Main St. and Weyman Ave. It reads all traffic travelling westbound on Main St. – manufactured by ELSAG – This unit was installed by the Westchester County District Attorney's Intelligence Center. The data is transmitted to their center and it is unknown the length of time it is held.

Copies of training manuals are available, as well as some financial documents such as purchase orders for the equipment. Presently, I have 91 pages of materials that can be copied at \$.25 per page. If you wish to get started with these materials kindly send a check made payable to the City of New Rochelle in the amount of \$22.75. Please advise.

**POLICE DEPARTMENT
CITY OF NEW ROCHELLE
OFFICIAL RECEIPT**

DATE 09/07/17

RECEIVED OF NYCLU

Foil Request - License Plate Reader

CASE NO.	DESCRIPTION	PRICE	AMOUNT
	ACCIDENT REPORT PER PAGE		
	INCIDENT REPORT		
	BAIL RECEIPT		
	LETTER OF GOOD CONDUCT		
	PHOTOGRAPH 8X10		
	TAXI DRIVER LIC. (L02)		
	TAXI MEDALLION. (L09)		
	MEDALLION TRANSFER (L09)		
✓	RECORD SEARCH <u>+copying</u>		\$22 ⁷⁵
	SUBPOENA		
	FINGERPRINTING		
☐ CASH ☒ CHECK # <u>113 54</u>		TOTAL	\$22 ⁷⁵

REV'D 6/94

No. 43339

REC'D BY RR

- 12397 -



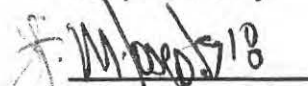
City of New Rochelle - Bureau of Purchase & Supply
Purchase Requisition

Date: June 23, 2009
Department or Bureau: Police

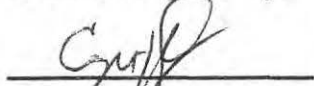
Point of Destination: New Rochelle Police Department
ATTN: Sgt. Myron Joseph
475 North Ave.
New Rochelle, NY 10801

Item No.	Articles Description & Use	Acct. No.	Quantity	Unit Price	Extension	Terms	Vendor Information
1	Mobile License Plate Reader	PAF 290	1	\$19,975.00	\$19,975.00	(ELSAG)	ELSAG North America Law Enforcement Systems
2	Operations Center		1	\$1,125.00	\$1,125.00	(ELSAG)	
3	Panasonic Tough Book Laptop		1	\$5,200.00	\$5,200.00	(CDW)	
4	Mount / Delco		1	\$1,300.00	\$1,300.00	CDW	
5	Installation		1	\$1,500.00	\$1,500.00	(TCD)	
					TOTAL=	\$29,100.00	

Requested By:


Traffic Supervisor

Counter Signed By:


Division Commander

Approved By:


Deputy Police Commissioner



City of New Rochelle
 515 North Avenue
 New Rochelle, NY 10801
 Telephone (914) 654-2072
OFFICE OF PURCHASE AND SUPPLY

The City of New Rochelle is exempt from all Taxes
 ID # A-146133

Purchase Order

Fiscal Year 2009

Page 1

THIS NUMBER MUST APPEAR ON ALL INVOICES,
 PACKAGES AND SHIPPING PAPERS.

Purchase Order # **00900660-01**

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REMINGTON ELSAG LAW ENFORCEMENT
 412 CLOCK TOWER COMMONS

BREWSTER, NY 10509

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POLICE COMMISSIONERS OFFICE
 CITY OF NEW ROCHELLE
 475 NORTH AVE.
 NEW ROCHELLE, NY 10801

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POLICE COMMISSIONERS OFFICE
 CITY OF NEW ROCHELLE
 475 NORTH AVE.
 NEW ROCHELLE, NY 10801

Date Ordered	Vendor Number	Date Required	Freight Method/Terms	Department/Location
07/13/09	015787		DEST NET 30	PD
Item#	Description/Part No.	Qty/Unit	Cost Each	Extended Price
001	THIS AS PER NYS CONTRACT #PC62119 MOBILE LICENSE PLATE READER (NYS CONTRACT BASE \$19173.) MODEL#MPH-900X2 AD3 SPLIT TRANS TO INCLUDE ITEMS ADDED AS QUOTED 6/25/09 PDP-290 19,920.00	1.0 EA	19920.00000	19,920.00
002	OPERATIONS CENTER LICENSE AS PER QUOTE 6/25/09 PDP-290 800.00	1.0 EA	800.00000	800.00
003	AS PER QUOTE 6/25/09 1 EXTRA POWER CORD (\$125.) AND 1 EXTRA ETHERNET CABLE (\$100.) AND 1 EXTRA GPS UNIT (\$96.) PDP-290 321.00	1.0 LS	321.00000	321.00
	INCLUDES UNLIMITED ACCESS TO TRAINING COURSES AS PER QUOTE		PO Total	21,041.00

MAKED 7/14/09.

- 12399 -

PURCHASING COPY

For City Manager

Purchasing Manager



City of New Rochelle
515 North Avenue
New Rochelle, NY 10801
Telephone (914) 654-2072
OFFICE OF PURCHASE AND SUPPLY

The City of New Rochelle is exempt from all Taxes
ID # A-146133

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CDW GOVERNMENT INC
75 REMITTANCE DRIVE SUITE 1515

CHICAGO, IL 60675-1515

Purchase Order

Fiscal Year 2009

Page 1

THIS NUMBER MUST APPEAR ON ALL INVOICES,
PACKAGES AND SHIPPING PAPERS.

Purchase Order # **00900659-00**

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POLICE COMMISSIONERS OFFICE
CITY OF NEW ROCHELLE
475 NORTH AVE.
NEW ROCHELLE, NY 10801
10801

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POLICE COMMISSIONERS OFFICE
CITY OF NEW ROCHELLE
475 NORTH AVE.
NEW ROCHELLE, NY 10801
10801

Date Ordered	Vendor Number	Date Required	Freight Method/Terms	Department/Location
07/13/09	006179		DEST NET 30	PD
Item#	Description/Part No.	Qty/Unit	Cost Each	Extended Price
001	<i>NYS Contract - gr. 75346</i> <i>PT 63263</i> PANASONIC TOUGH BOOKS LAPTOP, CF-30KAPAX2M PDP-290	1.0 LS 4,000.00	4000.00000	4,000.00
			PO Total	4,000.00

- 12400 -
PURCHASING COPY

[Signature]
For City Manager

[Signature]
Purchasing Manager



City of New Rochelle - Bureau of Purchase & Supply
Purchase Requisition

Date: June 23, 2009

Department or Bureau: Police

Point of Destination: New Rochelle Police Department

ATTN: Lt George Marshall

475 North Ave.

New Rochelle, NY 10801

Item No.	Articles Description & Use	Acct. No.	Quantity	Unit Price	Extension	Terms	Vendor Information
1	Mounting System for Laptop As Per NYS Contract PC62119	PDP 290	1	\$1,162.85	\$1,162.85		CDW Government Inc 75 Remittance Drive Suite 1551 Chicago, IL 60675
					\$0.00		
					\$0.00		
					\$0.00		
					\$0.00		

TOTAL= \$1,162.85

Requested By:

LT George Marshall

Counter Signed By:

Division Commander

Approved By:

Deputy Police Commissioner



City of New Rochelle - Bureau of Purchase & Supply
Purchase Requisition

Date: December 3, 2009
Department or Bureau: Police

Point of Destination: New Rochelle Police Department
ATTN: Nick Massaregli
475 North Ave.
New Rochelle, NY 10801

tem No	Articles Description & Use	Acct. No.	Quantity	Unit Price	Extension	Terms	Vendor Information
1	Remington Extended Warranty LPR System	POJY5	1	\$1,331.25			ELSAG NORTH AMERICA, Inc. 412 Clock Tower Commons, Brewster, Ny 10509 Phone (845) 278-5425 Fax (336) 379 - 7164
2	In RC22 - 6/30/09 - 12/31/10		0	\$0.00			
3							
4							
5	Credit on Account from 6/30/08		1	(\$83.75)			
6							
7							
8							
9							
10							
11							
12							
					TOTAL= \$1,247.50		

Requested By:

Counter Signed By:

Approved By:

IS Coordinator

Division Commander

Deputy Police Commissioner

TO BE COMPLETED BY VENDOR

Claim Number

TERMS

ACCOUNT NO.

VENDOR COMPLETE A B C D E IF APPLICABLE

D PURCHASE
ORDER NO

(TO BE COMPLETED BY VENDOR)

☐ FINAL OR
COMPLETE DELIVERY

VENDOR LEAVE
BLANK

TOTAL
AMOUNT

TOTAL

(To be completed by Accounting Division)

NET AMOUNT \$ _____

DIRECTOR OF FINANCE

VENDOR'S COPY
- 12403 -

Police Department
475 North Avenue
New Rochelle, NY 10801

POLICE DEPARTMENT

CITY OF NEW ROCHELLE, NY

(914) 654-2350
Writer's Telephone:
(914)



FAX COVER LETTER

THE DOCUMENT(S) ACCOMPANYING THIS FACSIMILE TRANSMISSION MAY CONTAIN INFORMATION WHICH IS CONFIDENTIAL AND/OR LEGALLY PROVIDED. IF YOU ARE NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT DISCLOSURE, COPYING, DISTRIBUTION OF, OR TAKING ANY ACTION CONCERNING THE CONTENTS OF THIS FACSIMILE INFORMATION IS **STRICTLY PROHIBITED** AND THE DOCUMENTS SHOULD BE RETURNED TO THIS DEPARTMENT IMMEDIATELY. IF YOU HAVE RECEIVED THIS TRANSMITTAL IN ERROR, PLEASE CALL (914) 654-2300 AND SPEAK WITH THE DESK SERGEANT.

DATE: 01/11/10 TIME: 9:20 am
FROM: Nick Marzulli
TELEPHONE NUMBER: (914) 654-2388
FAX NUMBER: (914) 632-4277

PLEASE DELIVER THE FOLLOWING PAGE(S) TO:

NAME: Pat Fox
AGENCY: ELSG North American
FAX NUMBER: (515) 452-7777

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET: 4

THIS MATERIAL IS CONFIDENTIAL ☐ NON-CLASSIFIED ☐

COMMENTS:

Pat. purchase order was out and sent to ELSG
Back in December. Here it is for your records

Nick

**City of New Rochelle**

515 North Avenue
New Rochelle, NY 10801
Telephone (914) 654-2072

OFFICE OF PURCHASE AND SUPPLY

The City of New Rochelle is exempt from all Taxes
ID # A-146133

Purchase Order

Fiscal Year 2009

Page 1

THIS NUMBER MUST APPEAR ON ALL INVOICES,
PACKAGES AND SHIPPING PAPERS.

Purchase Order # **00900994-00**

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ELSAG NORTH AMERICA LAW
412 CLOCK TOWER COMMONS

BREWSTER, NY 10509

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POLICE COMMISSIONERS OFFICE
CITY OF NEW ROCHELLE
475 NORTH AVE.
NEW ROCHELLE, NY 10801
10801

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POLICE COMMISSIONERS OFFICE
CITY OF NEW ROCHELLE
475 NORTH AVE.
NEW ROCHELLE, NY 10801
10801

Date Ordered	Vendor Number	Date Required	Freight Method/Terms		Department/Location	
12/07/09	016077		DEST.	NET 30	PD	
Item#	Description/Part No.		Qty/Unit	Cost Each	Extended Price	
001	WARRANTY RENEWAL REMINGTON EXTENDED WARRANTY PLR SYSTEM - IN RC22 - 6/30/09 - 12/31/10		1.0 LS	1331.25000	1,247.50	
	CREDIT ON ACCOUNT FROM 6/30/08 (\$83.75). *Amount reflects \$83.75 credit due PDS-451				1,247.50	
				PO Total	1,247.50	

INVOICES MUST BE MAILED TO THE BILL TO ADDRESS TO THE ATTN OF THE PERSON AS INDICATED THEREIN.
PURCHASE ORDER NO. MUST APPEAR ON ALL INVOICES, PACKING SLIPS AND CLAIM FORMS.
ALL INVOICES MUST BE IN ACCORDANCE WITH UNIT PRICES, TERMS AND SPEC. AS INDICATED ABOVE.
ITEMS DEFECTIVE OR NOT IN COMPLIANCE WITH OUR SPEC. SHALL BE RETURNED AT THE VENDOR'S EXPENSE.
NOT VALID UNLESS SIGNED BY THE PURCHASING MANAGER.

DEPARTMENT 12405 QPY

ELSAG North America205-H Creek Ridge Road
Greensboro, NC 27406**INVOICE**

Invoice Number: 11674

Invoice Date: Dec 15, 2009

Page: 1

Voice: 336-379-7135

Fax: 336-379-7164

Sales Order: 100001873

Bill To:City of New Rochelle Police Dept.
475 North Avenue
New Rochelle, NY 10801
United States**Ship to:**City of New Rochelle Police Dept.
475 North Avenue
New Rochelle, NY 10801
United States

Customer ID	Customer PO	Payment Terms	
NEW ROCHELLE	00900994-00	Net 30 Days	
Sales Rep ID	Shipping Method	Ship Date	Due Date
FOX	Fed-Ex		1/14/10

Quantity	Item	Description	Unit Price	Amount
1.00	520003	Service Plan Year 3	1,247.50	1,247.50
Subtotal				1,247.50
Sales Tax				
Total Invoice Amount				1,247.50
Payment/Credit Applied				
TOTAL				1,247.50



ELSAG North America Law Enforcement Systems, LLC

August 13, 2009

RENEWAL NOTICE

New Rochelle Police Department
475 North Ave.
New Rochelle, New York 10801

Sir:

Our records indicate that your agency purchased a 900MPH Plate Hunter from us on April 20, 2007, and your warranty expired on June 30, 2009.

The serial #'s of the unit which you purchased are:

- a.) Item # - 410093 - Serial # AE-00419
- b.) Item # - 410094 - Serial # 72738
- c.) Item # - 410040 - Serial # 71699
- d.) Item # - 410041 - Serial # 83000

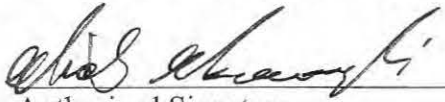
The cost of the unit you purchased was \$17,750.00 which includes the OCL.

We are offering you the opportunity to purchase the extended warranty on this unit. The warranty covers software upgrades, hardware failure, labor, normal wear of the cables and 24/7 support, without the warranty a new processor would cost approximately \$10,000.00 and the cameras would cost approximately \$4,500.00 each. The cost of the extended warranty is 5% of the purchase price per year.

Please check the box below on which warranty you want, or the box which states I do not wish to purchase the extended warranty and mail a copy of this letter to the address on this letterhead to the attention of Patrick O. Fox, or you may fax it to (336) 379-7164. If you are purchasing one of the warranties please enclose your check or purchase order.

- ☒ Extended warranty from 6/30/09 - 12/31/10 - \$1,331.25
- ☐ 2-year extended warranty from 6/30/09 - 12/31/11 - \$2,218.75
- ☐ I do not wish to purchase the extended warranty.

Note: You have a credit of \$83.75 on your account from 6/30/08 that you can apply to this purchase if you would like to.


Authorized Signature
Date 11/18/09

Patrick O. Fox
Field Operations Manager



ELSAG North America Law Enforcement Systems, LLC

June 27, 2008

New Rochelle Police Department
475 North Avenue
New Rochelle, New York 10801

Sir:

Our records indicate that your agency purchased a 900MPH Plate Hunter from us on April 20, 2007. This unit came with a 1-year warranty. Our records show that your warranty expired on April 20, 2008.

The serial #'s of the unit which you purchased are:

- a.) Item # - 410093 - Serial # AE-00419
- b.) Item # - 410094 - Serial # 72738
- c.) Item # - 410040 - Serial # 71699
- d.) Item # - 410041 - Serial # 83000

The cost of the unit you purchased was \$17,750.00.

We are offering you the opportunity to purchase the extended warranty on this unit. The warranty covers software upgrades, hardware failure, labor, normal wear of the cables and 24/7 support, without the warranty a new processor would cost approximately \$10,000.00 and the cameras would cost approximately \$4,500.00 each. The cost of the extended warranty is 5% of the purchase price per year.

Please check the box below on which warranty you want, or the box which states I do not wish to purchase the extended warranty and mail a copy of this letter to the address on this letterhead to the attention of Patrick O. Fox, or you may fax it to (336) 379-7164. If you are purchasing one of the warranties please enclose your check or purchase order.

- ☐ 1-year extended warranty - \$887.50
- ☐ 2-year extended warranty - \$1,775.00
- ☐ I do not wish to purchase the extended warranty.

This offer expires 90 days from the date of this offer. If you accept this offer for the extended warranty, it will become effective the date of your purchase order.

Authorized Signature
Date _____

Patrick O. Fox
Field Operations Manager

ELSAG North America

PO Box 788
Pleasant Garden, NC 27313-0788
United States

Voice: 336-379-7135

Fax: 336-379-7164

SALES ORDER

Sales Order Number: 100000554
Sales Order Date: Jul 1, 2008
Ship By: Jul 31, 2008
Page: 1

To:

City of New Rochelle Police Dept.
475 North Avenue
New Rochelle, NY 10801
United States

Ship To:

City of New Rochelle Police Dept.
475 North Avenue
New Rochelle, NY 10801
United States

Customer ID

NEW ROCHELLE

PO Number

Yr 2 Service Plan

Sales Rep Name

Todd Child

Customer Contact

Nick Massaregli

Shipping Method

Fed-EX

Payment Terms

Net 30 Days

Quantity

1.00

Item

520002

Description

Service Plan Year 2 - Serial #
AE00419-72738-71699-83000
Effective Dates: 04/20/2008 to 04/19/2009
Attn: Nick Massaregli - 914-854-2380

Unit Price

887.50

Amount

887.50

Subtotal

887.50

Sales Tax

Freight

0.00

TOTAL ORDER AMOUNT

887.50



ELSAG License Plate Recognition Solution

Car System User Training





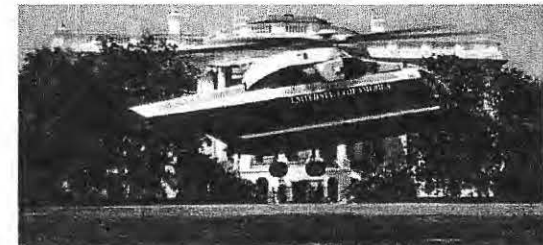
Content

- License Plate Reading Technology Intro
- Hardware Components
- Software
- Reporting
- Hot List Management
- Tips & Techniques
- Field Use

ELSAG North America Law Enforcement Systems



- ELSAG, a division of Finmeccanica, a global leader in police and defense technology to develop long term solutions for your public safety needs. ELSAG is the global leader in LPR with over 3,500 installations around the world.
- Traffic management and tolling systems
- ELSAG bought Remington's portion of the business at the end of last year.





Hardware Options



ELSAG

Law Enforcement Systems

Mobile Plate Hunter LPR-Solution

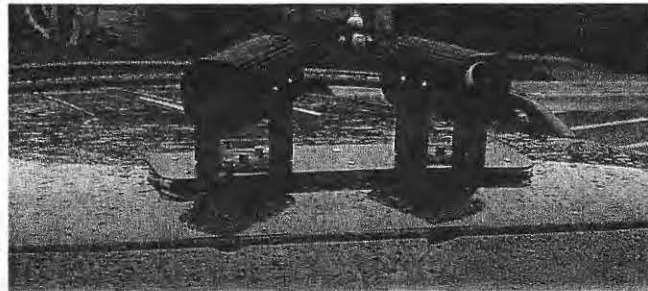


- Remington-ELSAG's Network LPR Solution has command center software that can manage hundreds of installations via a network of both fixed and mobile installs in a geography.

Mounted Mobile



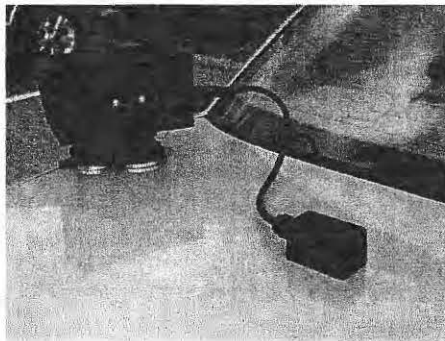
Transportable



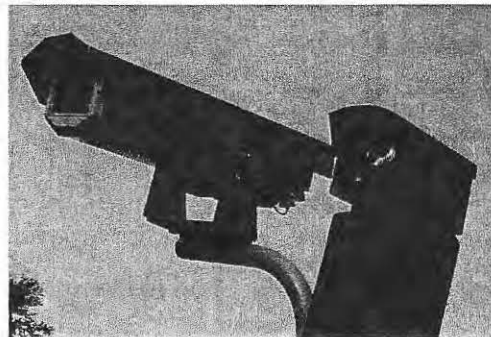
Covert



Color (AD3M)



Fixed Gate Smart Cameras



MPH900  
Mobile Plate Hunter 900 Series



Split Camera Focal Points and Capabilities

Left Camera

Reads 2 left lanes oncoming and vehicles.

Processes both moving and parked vehicles, while the police vehicle is moving or parked.



Right Camera

Reads Parked vehicles as well as cars that are passed on right.

Images are processed at a rate of 20 frames per second per camera, plates are recognized and cross-checked versus a database of up to 4 million lines for stolen vehicles, FAW's, FBI NCIC list, Parolee list, Sex Offenders etc.

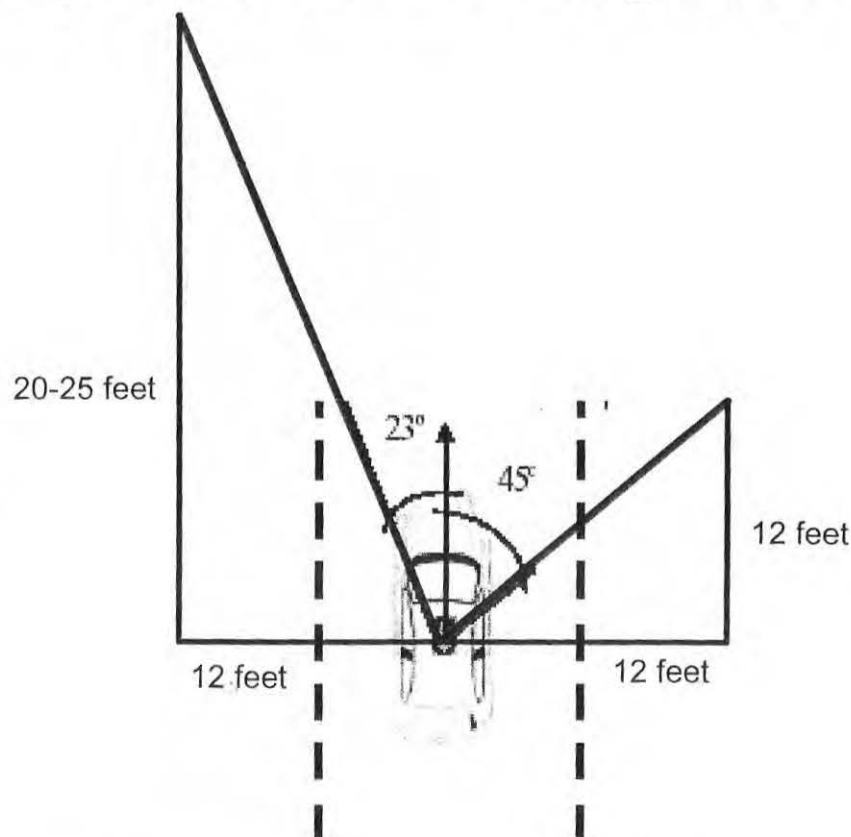
Vehicles found in the database will alarm in milliseconds.



Split Camera Alignment

Left Camera

Reads oncoming and left lane vehicles.



Right Camera

Reads Parked vehicles as well as cars that are passed.

Center the left camera on a plate-height object 12 feet left and 20-25 feet ahead of the camera (not the front of the car).

Center the right camera on a plate height object 12 feet right and 12 feet ahead of the right camera.

ELSAG

MPH-900 Mobile LPR System



Panasonic CF-19 Toughbook

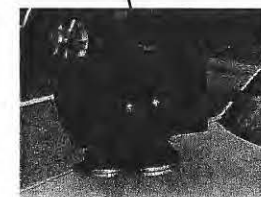
Audible and visual alarms notify the officer of a plate of interest.

Cisco 3200 MAR



Camera Junction Box

Infrared Cameras, work day or night to capture license plate alphanumeric string and convert into digital text sent to Laptop



Cameras



NYS Typical Hotlist Flow With TIDBITS (NYSPIN)

NYSPIN

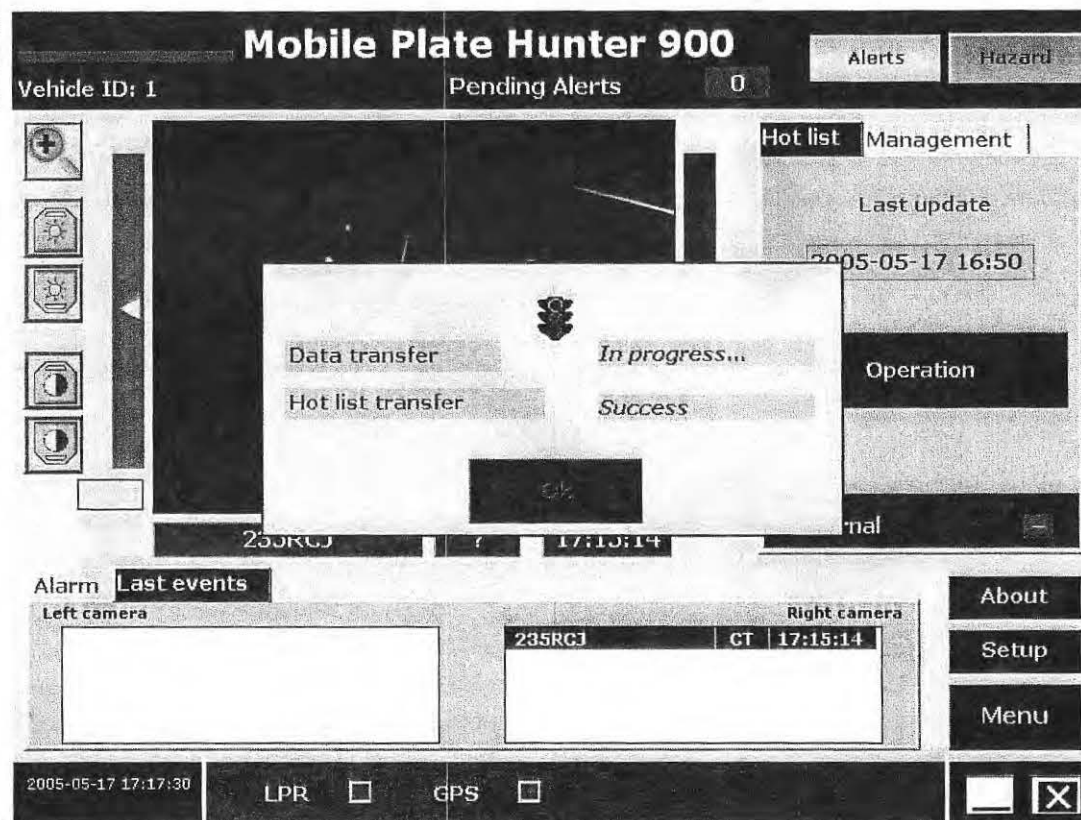


TidBits /
 **TraCS**
Traffic and Criminal Software

Car System

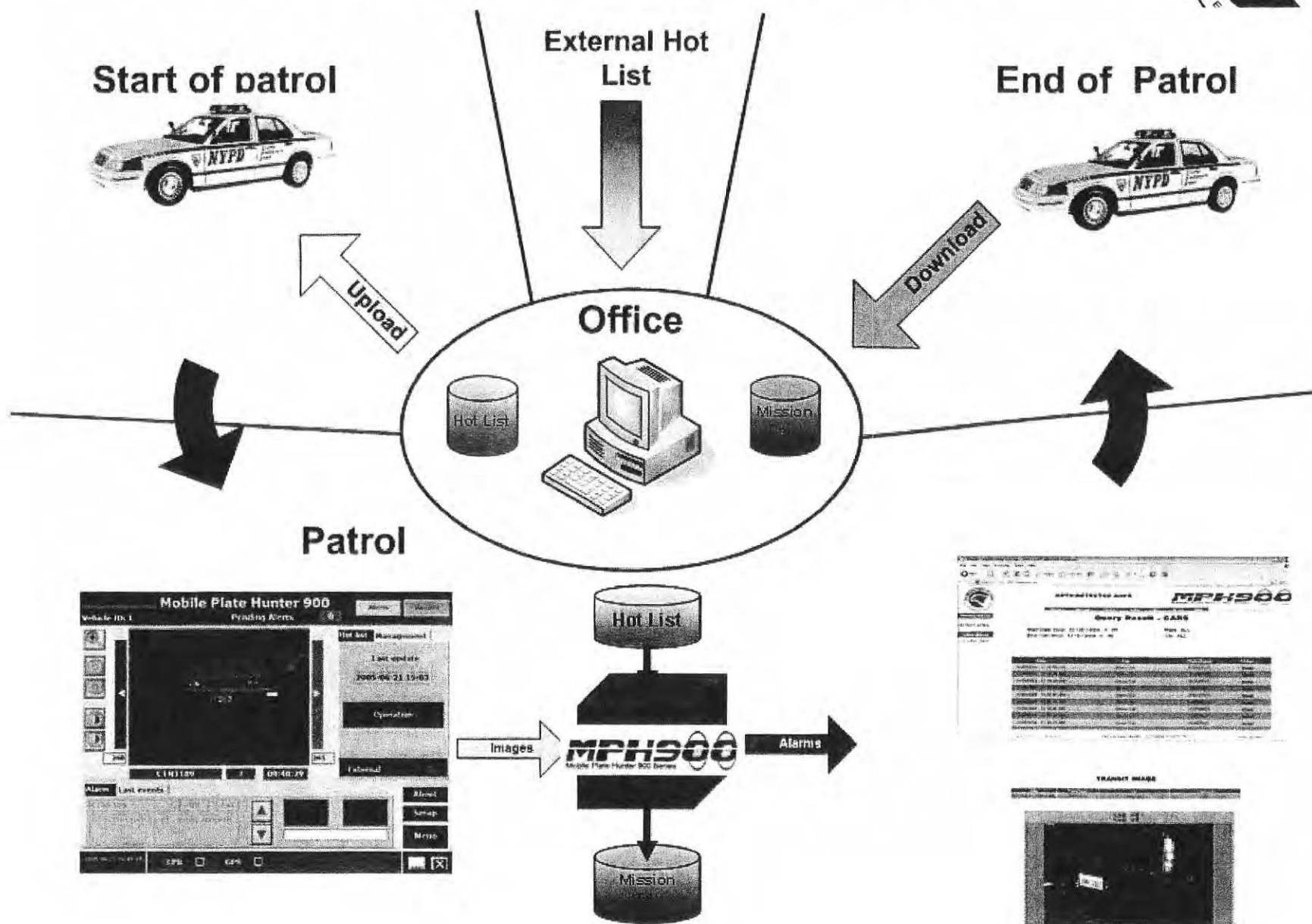
C:\TRACS\NYDMVDATA\LPRINFO.ZIP

CXB5849 NYPASXFORDLT/BL





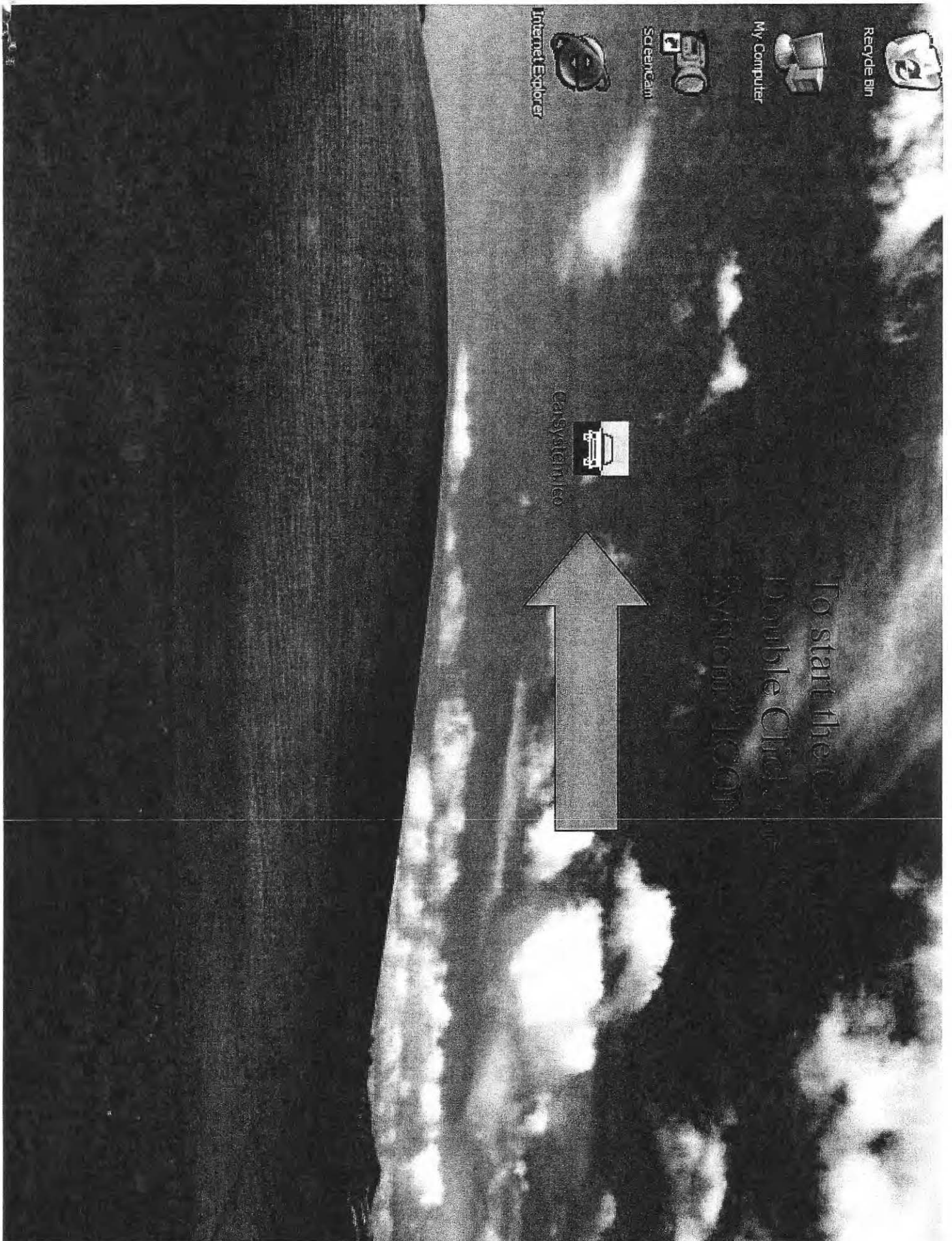
Standard Mission Schematic





Software







Car System Login

User

administrator

Password

1	2	3	4	5	6	7	8	9	0
q	w	e	r	t	y	u	i	o	p
a	s	d	f	g	h	j	k	l	▲
z	x	c	v	b	n	m	◀	▼	▶
Caps							#@...	Canc	

OK

Cancel

Menu

Vehicle ID: 1

Pending Alerts

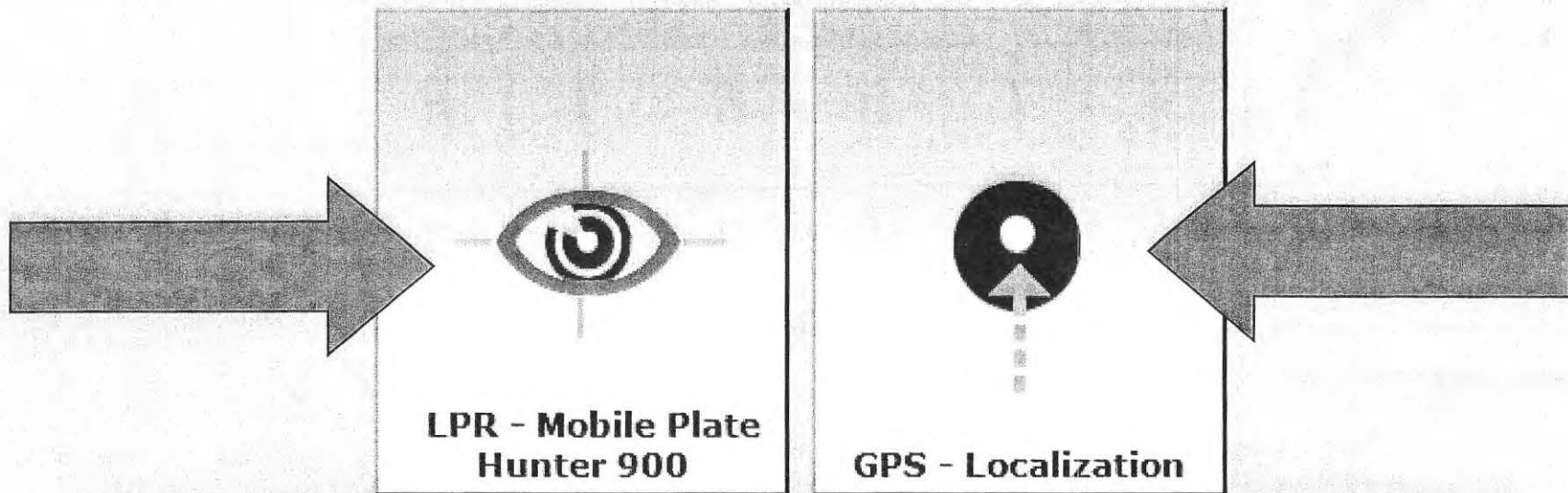
0

Alerts

Hazard

LPR Button to enter the
Reading screen

GPS button for detailed
GPS information



2005-05-17 15:06:39

LPR



GPS



Menu

Vehicle ID: 1

Pending Alerts

0

Alerts

Hazard

LPR



Green – System is ready to read plates

LPR



Yellow – Standby or booting up

LPR



Red – Communications problem

LPR Status Indicator

2005-05-17 15:06:39

LPR



GPS



Menu

Vehicle ID: 1

Pending Alerts

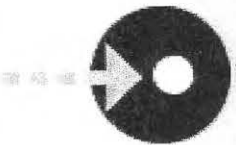
0

Alerts

Hazard



LPR - Mobile Plate
Hunter 900



GPS - Localization

2005-05-17 15:06:39

LPR



GPS



ID: 1

Pending Alerts

0

Management

Diagnostic

Hot list last update

2008-04-08 23:44

Operations

Readers



M-01

ECX2360

NY

13:18:12

Last events

Alarms

ECX2360	NY	13:18:12
UTE93T	NJ	13:17:42
J1CJ1	?	13:17:42
DRP8074	NY	13:17:36
CWE9610	NY	13:17:19
CNM4322	NY	13:17:06

M-00	AVJ3872	NY	13:16:08
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In

Set

Me



Main Car System Screen

Vehicle ID **LPR Mobile Plate Hunter 900** Alerts ☐ ☒

Vehicle ID: 1 Pending Alerts 0

Image Adjustment (only on Alarms)

Management Diagnosti

Hot list last update

2008-04-08 23:44

Operations

Readers

Manual plate check, reports or hotlist insert

ECX-2360

M-01 ECX2360 NY 13:18:12

Alarm Last events

Reads

M-01	ECX2360	NY	13:18:12
M-01	UTE93T	NJ	13:17:42
M-01	J1CJ1	?	13:17:42
M-00	DRP8074	NY	13:17:36
M-01	CWE9610	NY	13:17:19
M-01	CNM4322	NY	13:17:06

Alarms

M-00	AVJ3872	NY	13:16:08
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Info

Setup

Menu

“Setup” to turn “beep” on/off

Processor Status

Last 6 reads

Last alarms – click to see detail

2008-04-10 13:18:36

LPR ☐ GPS ☐ COM ☐ Hazard



The MPH-900 works behind the scenes

Until the alarm sounds!

Mobile Plate Hunter 900

Pending Alerts 0

Alerts [Close]

Management | Diagnostics

Hot list last update

2008-04-08 23:44

Operations

Readers

ACCEPT or REJECT Buttons

Up to 100 characters for alarm description.

Flashing Red Bar indicates direction of Alarm Target

UTE93T NJ 13:19:57

events

UTE93T NJ Local 02

Wanted person - in connection with Robbery

Accept Reject

Info Setup Menu

About 2008-04-10 13:20:05

LPR GPS COM

Hazard



"Alarm" Mode

Mobile Plate Hunter 900

Vehicle ID: 2 Pending Alerts 0

Alerts Hazard

Management Live

Hot list
Last update
2006-01-10 14:26

Operation

Reader

Optional camera

Image Adjustment buttons active
ONLY on Alarm.
Finish viewing image BEFORE
clicking Accept or Reject.
Accept all Valid Reads

Zoom

Brightness

Contrast

91 21

63[00]6[2Z]PA ? 16:

Alarm Last events

63062PA NY Ext

Stolen Vehicle, Stolen Plate OR
Warrant - Check NYSPIN

Accept Reject

Info 2006-01-12 16:15:00

LPR ☐ GPS ☐ COMM ☐ MDVRS ☐

About
Setup
Me

☐ ☐



"Live" View

System will not read while in "LIVE" Mode.

Plate Hunter 900

Pending Alerts 0

Alerts ☐ ☒

Management **Diagnostics**

Hot list last update

2008-04-08 23:44

Operations

Readers

ECX-2360

M-01 ECX2360 NY 13:18:12

Alarm Last events

Reads			
M-01	ECX2360	NY	13:18:12
M-01	UTE93T	NJ	13:17:42
M-01	J1CJ1	?	13:17:42
M-00	DRP8074	NY	13:17:36
M-01	CWE9610	NY	13:17:19
M-01	CNM4322	NY	13:17:06

Alarms			
M-00	AVJ3872	NY	13:16:08

About 2008-04-10 13:18:36

LPR ☐ GPS ☐ COM ☐ Hazard

Info

Setup

Menu

"Diagnostics" menu to adjust Cameras



Normal Operation Video Segment 1





Shift Reporting



Main Car System Screen



LPR Mobile Plate Hunter 900
Alerts X

Vehicle ID: 1
Pending Alerts 0

OPERATIONS Button

Shift Reporting,
Manual Lookup,
Plate Insertion

Management
Diagnostics

Hot list last update

2008-04-08 23:44

Operations

Readers

▶

□

M-01

ECX2360

NY

13:18:12

Alarm Last events

Reads			
M-01	ECX2360	NY	13:18:12
M-01	UTE93T	NJ	13:17:42
M-01	J1CJ1	?	13:17:42
M-00	DRP8074	NY	13:17:36
M-01	CWE9610	NY	13:17:19
M-01	CNM4322	NY	13:17:06

Alarms

M-00	AVJ3872	NY	13:16:08
------	---------	----	----------

Info

Setup

Menu

About

2008-04-10 13:18:36

LPR ☐ GPS ☐ COM ☐

Hazard



During the shift, officers may input new tags, or query the hot list for manual input.

Hot list		Hot list results		Reports		Report results							
Plate		State	? - ALL COUNTRIES						Search				
Note								Insert					
							Delete						
1	2	3	Search Hotlist or Insert Plates manually Searches History Automatically on Insert			8	9	0	Delete local hot list				
Q	W	E				I	O	P					
A	S	D				K	L	↑					
Z	X	C				V	B	N		M	←	↓	→
Caps						#@...	Canc						
							Close						

In-car shift reporting and Query



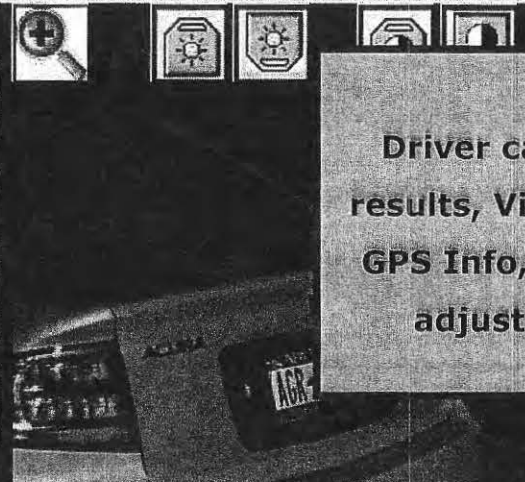
Hot list	Hot list results		Reports	Report results	
Start	13	02	2006	12	☐ Alarms ☐ Rejected Alarms ☐ Reads
	Day	Month	Year	Hour	
End	13	02	2006	13	
Plate			State	? - ALL COUNTRIES	▲ ▼

1	2	3	4	5	6	January	February	2005
								2006

Hot list Hot list results Reports Report results

Match found 10

Date	Plate	State	Reader
2006-02-09 15:39:54	CBD2898	NY	M-01
2006-02-09 15:22:17	AGR1580	NY	M-00
2006-02-09 15:17:45	BZH3539	NY	M-00
2006-02-09 15:12:42	CWM6898	NY	M-00
2006-02-09 15:09:27	DDT2026	NY	M-01
2006-02-09 13:56:05	54233JJ	NY	M-01
2006-02-09 13:56:04	DER5973	NY	M-00
2006-02-09 13:55:55	CYU6562	NY	M-01
2006-02-09 13:03:15	CUC7496	NY	M-00
2006-02-09 12:18:51	GRE7466	NY	M-00



Driver can Search results, View Alarms, GPS Info, Zoom and adjust images

Lat 40.857682

Long -73.917053

Note

Susp. or Revoked Reg. - Verify NYSPIN

General report

Shift report

Close





Shift Reporting

Hot list	Hot list results		Reports	Report results	
Start	13	02	2006	12	• Alarms • Rejected Alarms • Reads
	Day	Month	Year	Hour	
End	13	02	2006	13	
Plate			State	? - ALL COUNTRIES	

1	2	3	4	5	6	January	February
7	8	9	10	11	12	M	
13	14	15	16	17	18		
19	20	21	22	23	24		
25	26	27	28	29	30	September	October
31						November	December

2006

General Report shows summary by day
Shift Report shows summary by hour

Flexible Search by date, time and type

General report

Shift report

Close



Detailed History in Car

Hot list | **Hot list results** | **Reports** | **Report results**

Match found **10**

Date	Plate	State	Reader
2006-02-09 15:39:54	CBD2898	NY	M-01
2006-02-09 15:22:17	AGR1580	NY	M-00
2006-02-09 15:17:45	BZH3539	NY	M-00
2006-02-09 15:12:42	CWM6898	NY	M-00
2006-02-09 15:09:27	DDT2026	NY	M-01
2006-02-09 13:56:05	54233JJ	NY	M-01
2006-02-09 13:56:04	DER5973	NY	M-00
2006-02-09 13:55:55	CYU6562	NY	M-01
2006-02-09 13:03:15	CUC7496	NY	M-00
2006-02-09 12:18:51	CRE7466	NY	M-00

Lat 40.857682 **Long** -73.917053

isp. or Revoked Reg. - Verify NYSPIN

Export **Close**

Select Search results,
View Alarms, GPS Info
Zoom and adjust
images



Shift Reporting Video Video Segment 2





Hotlist Management



NYSPIN Categories



1 Stolen Vehicle!

3 Out of State Stolen Vehicle.

2 Wanted Person! Or Missing Person!

3 Stolen License Plate.

4 Suspended or Revoked Registration

Supervised Release - Not cause to stop - Check NYSPIN.

Protection order - Not cause to stop - Check NYSPIN.

Immigration Violator - Not cause to stop - Check NYSPIN.

VGTOF - Not cause to stop - Check NYSPIN.

**Convicted Sexual Offender Registry - Not cause to stop -
Check NYSPIN."**

Unknown Alarm - Canadian Origin - Check NYSPIN.



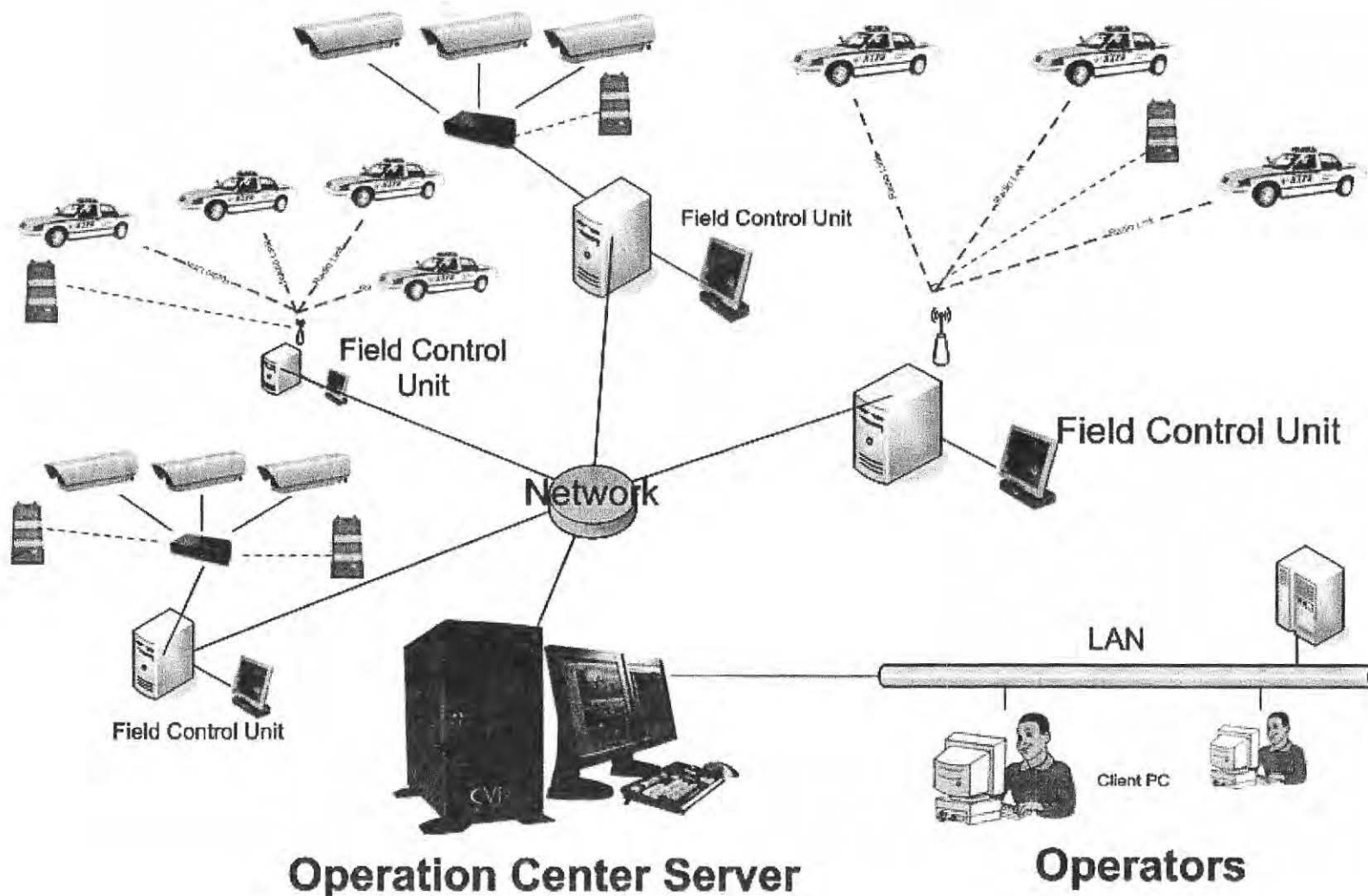
Manual Plate Search and Insert Video Segment 4





Command Center Schematic

MPH-900 Command Center is able to coordinate hundreds of fixed and mobile LPR devices in real time.





Troubleshooting

- LPR Status Indicator
- Communications cables
- Data Synch issues
- MAR issues
- Replacing Laptop requires software installation
- GPS

Thank You !!



Support - 1 866 9 MPH900

Todd Child 914 556 8504

Chris Johnson 336 453 6840

Quick Reference



CarSystem.ico





"Live" View

System will not read while in "LIVE" Mode.

Plate Hunter 900

Pending Alerts 0

Alerts ☐ ☒

Management **Diagnostics**

Hot list last update
2008-04-08 23:44

Operations

Readers

ECX-2360

M-01 ECX2360 NY 13:18:12

Alarm Last events

Reads			
M-01	ECX2360	NY	13:18:12
M-01	UTE93T	NJ	13:17:42
M-01	J1CJ1	?	13:17:42
M-00	DRP8074	NY	13:17:36
M-01	CWE9610	NY	13:17:19
M-01	CNM4322	NY	13:17:06

Alarms			
M-00	AVJ3872	NY	13:16:08

About 2008-04-10 13:18:36

LPR ☐ GPS ☐ COM ☐ **Info** **Setup** **Menu** **Hazard**

"Diagnostics" menu to adjust Cameras



Shift Reporting





During the shift, officers may input new tags, or query the hot list for manual input.

Hot list		Hot list results		Reports		Report results						
Plate			State	? - ALL COUNTRIES		▲ ▼		Search				
Note								Insert				
								Delete				
1	2	3	Search Hotlist or Insert Plates manually Searches History Automatically on Insert			8	9	0	Delete local hot list			
Q	W	E				I	O	P				
A	S	D				K	L	↑				
Z	X	C				V	B	N		M	←	↓
Caps						#@...	Canc		Close			



- 12449 -



Shift Reporting Video Video Segment 2



NYSPIN Categories



1 Stolen Vehicle!

3 Out of State Stolen Vehicle.

2 Wanted Person! Or Missing Person!

3 Stolen License Plate.

4 Suspended or Revoked Registration

Supervised Release - Not cause to stop - Check NYSPIN.

Protection order - Not cause to stop - Check NYSPIN.

Immigration Violator - Not cause to stop - Check NYSPIN.

VGTOF - Not cause to stop - Check NYSPIN.

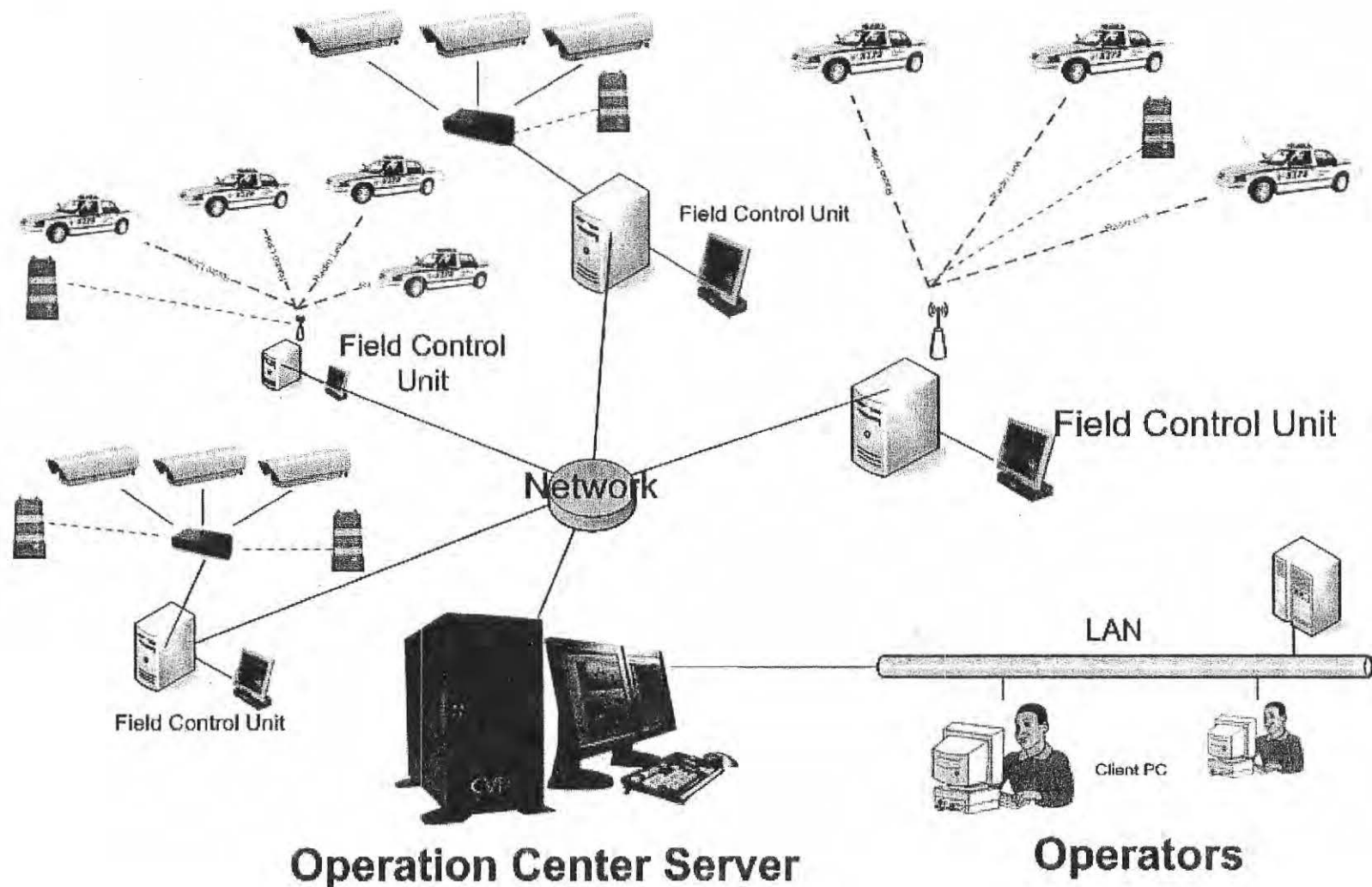
**Convicted Sexual Offender Registry - Not cause to stop -
Check NYSPIN."**

Unknown Alarm - Canadian Origin - Check NYSPIN.



Command Center Schematic

MPH-900 Command Center is able to coordinate hundreds of fixed and mobile LPR devices in real time.





Thank You !!

Support - 1 866 9 MPH900

Todd Child 914 556 8504

Chris Johnson 336 453 6840



REMINGTON ELSAG LAW ENFORCEMENT SYSTEMS, LLC

870 Remington Drive P.O. Box 1046
 Madison NC 27025
 Duns # 196140821 Fed Tax ID# 800119568
 Phone: 1-866-9MPH900 (967-4900)
 Fax: 336-379-7164

2/20/2008
 ** QUOTATION **

Delivered to:

Nick Massaregli
 City of New Rochelle's Police Department
 475 North Avenue
 New Rochelle, N.Y. 10801
 (914) 654-2380 Nickmass@newrochelleny.com

Quotation valid until: March 31, 2008
 Prepared by: TC

Projected Arrival Date: 15 days from PO

NYS OGS NASPO Multi-State Contract #PC62119 Award #19745
Hazardous Incident Response Equipment Group #38232

Includes training and support for year 1. Customer provides Central Server Hardware.
Customer should consider retention period and image storage in designing server config.

Model #	Description	Cost	Units	Amount
MPH-900 Extended	Extended warranty past the first year. Maintenance and support for MPH900 and Op Center for years 2,3 and 4	\$46		
MPH-900OPC	Single license for the MPH900 Operations Center.	\$925	1	\$925.00
Phone Support	24 Hour Telephone Support by qualified MPH-900 technicians			FREE
ON-SITE TRAINING	Included in the purchase of both transportable and permanent MPH-900 installations available in group and individual sessions.			FREE
TRAINING CENTER MEMBERSHIP	Unlimited access to Remington ELSAG training classes held either in the field or at Company Facilities.			FREE
			TOTAL	\$925.00

Service Plan for goods and services provided by the above quote

Year I	Free	
Year II	\$46	Hardware and Software
Year III	\$46	Hardware and Software
Year IV	\$46	Hardware and Software
Beyond	\$28	Software Only

Service Plan Includes:

- Software Updates
- Annual Training/Service
- Parts & Labor

Approval Signature: _____



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***MOBILE PLATE HUNTER
MPH900
OPERATIONS CENTER
USER MANUAL***

Code:

Rev.: 0.0

Date: May-17-2005



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1 - INTRODUCTION

1.1 – Document scope

This handbook is intended for both general users and system administrators.

The document describes:

- available functions;
- how to operate the system;
- system messages.

1.2 – Definitions and Abbreviations

Table 1

lists the abbreviations used in the text and their meanings:

Table 1
– List of Acronyms

Acronyms	MEANING
IIS	Internet Information Services
LAN	Local Area Network
PC	Personal Computer
ANPR	Automantic Number Plate Reader
DDS	Data Download Station
EHL	External Hot List
THL	Temporary Hot List
HLPN	Hot License Plate Number
ODM	Operations Center Data Manager
OWA	Operations Center Web Application
PS_DB	Peripheral Station Data Base
OP-Center	Operations Center
HCI	Human Computer Interface



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1.3 – Human-Computer interface (HCI)

The Human-Computer Interface (HCI) is a web-based client/server application; the OP-center station runs a web server (IIS) for remote connections and a graphical interface through which the operator can access the system.

The minimum hardware and software configuration for the client PC to be able to use the HCI is as follows:

Table 2: Required configuration of the OP-Center PC

Processor	Pentium 4 (Pentium M) 1 GHz
Memory	256 MB
Display Resolution	1024x768
LAN port	100Mb/s LAN
Operating System	Windows 2000 or XP Professional
Browser	Internet Explorer v. 6.0
Web Server	Microsoft IIS

Note: The Web Site needs the Java Virtual Machine to execute Java Applet. A link at the bottom of default page of the HCI, allows downloading the installation program if needed.

The HCI application is hosted on the web server. We can have more than HCI PC on the network since PCs can use Internet Explorer both to access the application and monitor, control and manage the system.

These operations are described in detail in the following sections.

Access to system functions is restricted. Different user profiles specify permitted operations for classes of users.

User classes are:

- **Maintenance-Upgrade;**
- **System Administration;**
- **Supervisor;**
- **User.**

The following sections list all HCI operations available to **System Administration** user profiles. Details on the characteristics of other profiles are given in Sec. 8.



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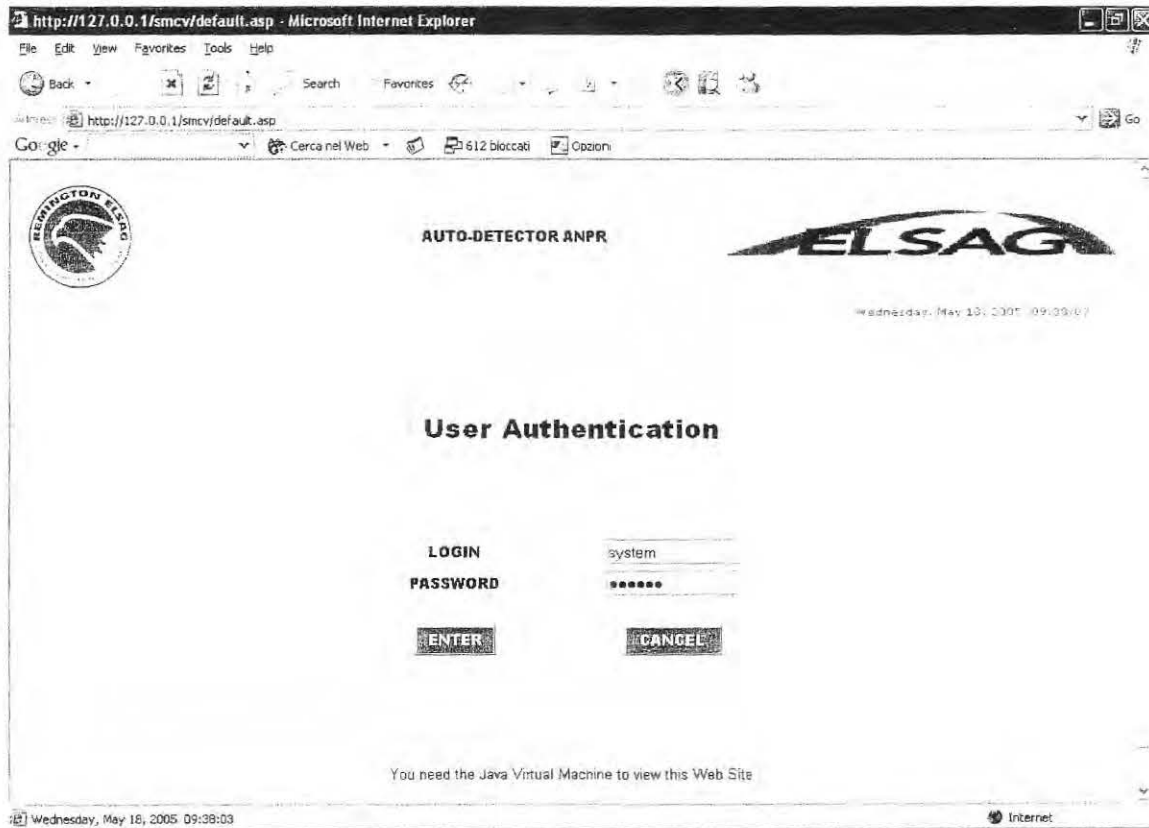


Fig. 2.1 – HCI Authentication Page

The user ID is “**system**” and the associated password includes six characters displayed as a sequence of eight “*”.

If the user ID and password match the values stored in the system, a home page like the one shown in Fig. 2.2. is displayed:



Fig. 2.2 – Site Home Page

As illustrated in Fig. 2.2, the home page contains four frames:

- **Alarm Management**, on the left side of the home page;
- **Menu**, the blue bar at the top of the home page;
- **Main Frame**, in the center of the home page.
- **Footer**, at the bottom of the home page.



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2.5 – Possible Errors

If the user ID and password do not match the values stored in the system, the following message is displayed:

**Wrong User or Wrong Password or User
not allowed**

At this point the operation may be repeated by re-entering the information described in par. 2.3.

3 - ALARM Management

3.1 – Functional Description

This function displays alarms as soon as a license plate in the Hot List is detected by a Fixed camera connected to the OP-Center.

As soon as the plate recognition system detects a vehicle on the hot list of wanted plates, an alarm bell icon shows up on the operator's monitor and an acoustic alarm goes off at the same time.

The operator must then process the alarm using the alarm view function: each alarm has to be confirmed or discarded after the analysis of the associated image. In this way potential false positives are detected and deleted.

The Alarms can go off even from systems installed in vehicles, even if normally those alarms are processed immediately by troopers by means of the onboard user interface of the MPH900 plate reader. That happens when car operators do not process an alarm within a given time-out. In this case, after data download from the car processor to the OP-Center, the alarm is presented to the OP-Center HCI User.

These kind of alarms can be distinguished by Fixed cameras ones because they have a slightly different icon. (See Fig. 3.1).

3.2 - Detailed Description

Almost all site pages, except those relating to command results, contain an alarm indication field (see Fig. 2.2 and Fig. 3.1).



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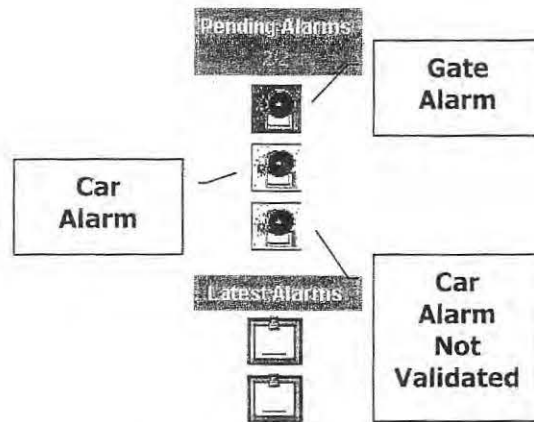


Fig. 3.1 – Alarm Management Area

The "**Pending Alarms**" section shows the alarm bell icons associated with alarms which have not yet been verified by the operator. The "**Latest Alarms**" section shows the icons (one for each alarm) associated with the last five alarms that have been verified.

For sake of simplicity, a maximum of 5 pending alarm icons are displayed with the total indicated as a number. The presence of one or more pending alarms is also associated to an audible alarm.

"2/2" indicates that 2 latest alarm icons are displayed out of a total of 2 pending alarms.

The total number of pending alarms is automatically decreased each time an alarm is processed and accepted (or discarded).

By clicking on the icons, the operator can obtain detailed information on the corresponding alarm and decide whether to accept it (resolving any possible ambiguities present, relating to state for example) or discard it.

Fig. 3.2 shows the alarm view details page:



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2 – CONNECTION TO THE SYSTEM

2.1 – Functional Description

At the beginning of a work session, users must enter their name and password in the "**User Authentication**" form (see Fig. 2.1): if both match the information contained in the system database, the HCI system can be accessed.

2.2 – Warnings

For access to be granted, the application has to be running. This means that the IIS service must also be running. The system default settings activate these services.

The system distinguishes between upper and lower case letters. Spaces are considered as characters.

Pay special attention to using function keys like "**Caps Lock**".

2.3 – Detailed Description

Users must:

- Enter their user ID in the "**LOGIN**" box;
- Enter the access code associated with the user ID in the "**PASSWORD**" box. All characters entered are displayed as "*" for reasons of confidentiality;
- Press "**Enter**" on the keyboard or click the "**ENTER**" button on the screen to confirm the ID and Password.

2.4 – Examples

In the example below:

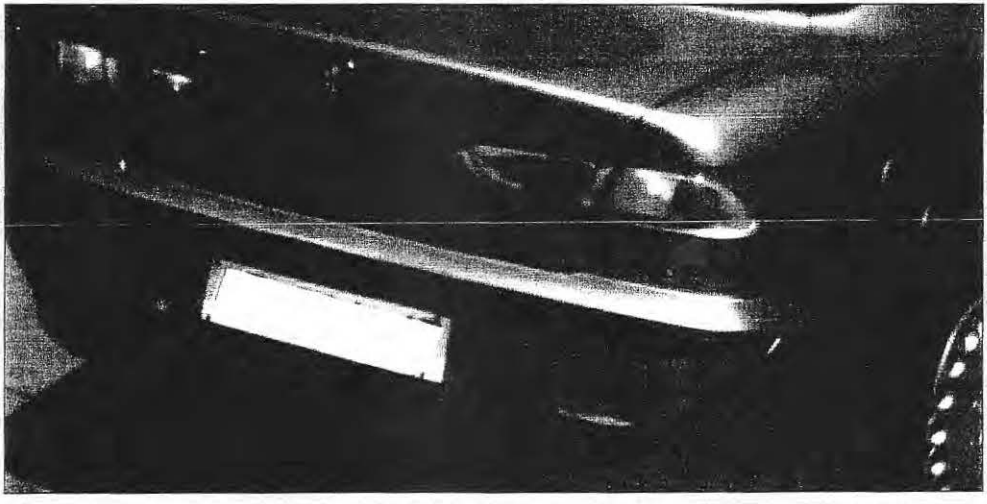


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Alarm View Details

Date	Plate(State)	Hot List Matches	Car
03/31/2006 16:58:19	AH23876(7)	1	Demo Car



AZ001JT - (OH) - Prova inserimento targa reale AZ001JT

String Match - Wrong State



Close

Fig. 3.2 – Alarm Details Page for Acceptance

The page includes:

- "Date" of the detection;
 - "Plate - State" license plate and State, as reported in the Hot List;
 - "Hot List Matches" number of entries in the Hot List matching the detected plate; some plates can be present more than once but from different states. It is up to the User determine what is the state of the plate shown in the image.
 - "Gate" ID of the gate that detected the transit (Fixed Camera only);
- or
- "Car" ID of the car that detected the transit (MPH900);

Plus:

- an image of the license plate;



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- the form for accepting (selecting the correct plate-state-description from the Hot List) or discarding the alarm (selecting the reject reason).

By pressing "**ACCEPT**" and confirming the operation, the alarm is accepted and entered in the database with information on the date and time it was handled by the operator. The system displays the message shown in Fig. 3.3.

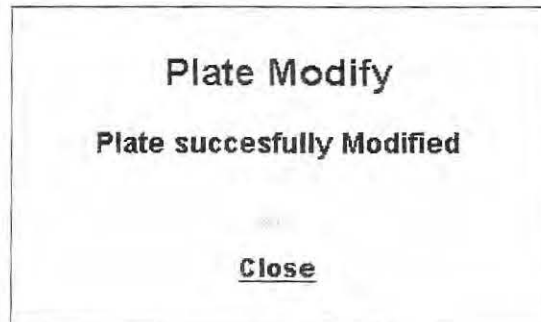


Fig. 3.3 – Alarm Acceptance Message

It is also possible to discard an alarm by pressing "**DISCARD**".
The possible reasons for reject an alarm are:

- String Match - Wrong State;
- Incomplete / Partial Reading;
- String is not a Plate;
- Partial Occlusion;
- Dirty Plate;
- Other;

After confirming the operation, the system displays the message shown in Fig. 3.4

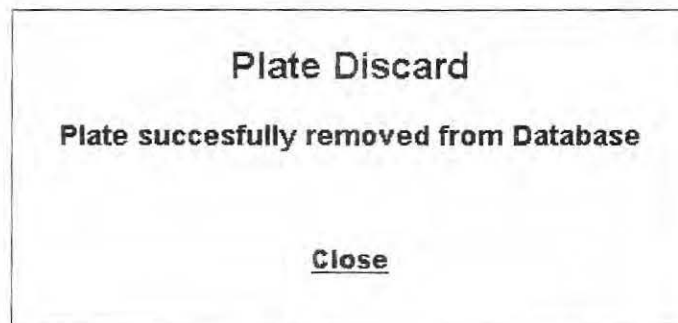


Fig. 3.4 – Alarm Discard Message



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The reject reasons can be disabled, depending on system configuration.

3.3 - Possible Errors

If several clients (browsers) are connected to the system there may be an icon in the pending alarms list that refers to an alarm which has already been verified by a user logged onto another client. However, as the list is updated every 10 seconds this is highly unlikely.

In this case the page would appear as in Fig. 3.5, which has no accept/discard form and displays the operator who acknowledged the alarm with the date and time.

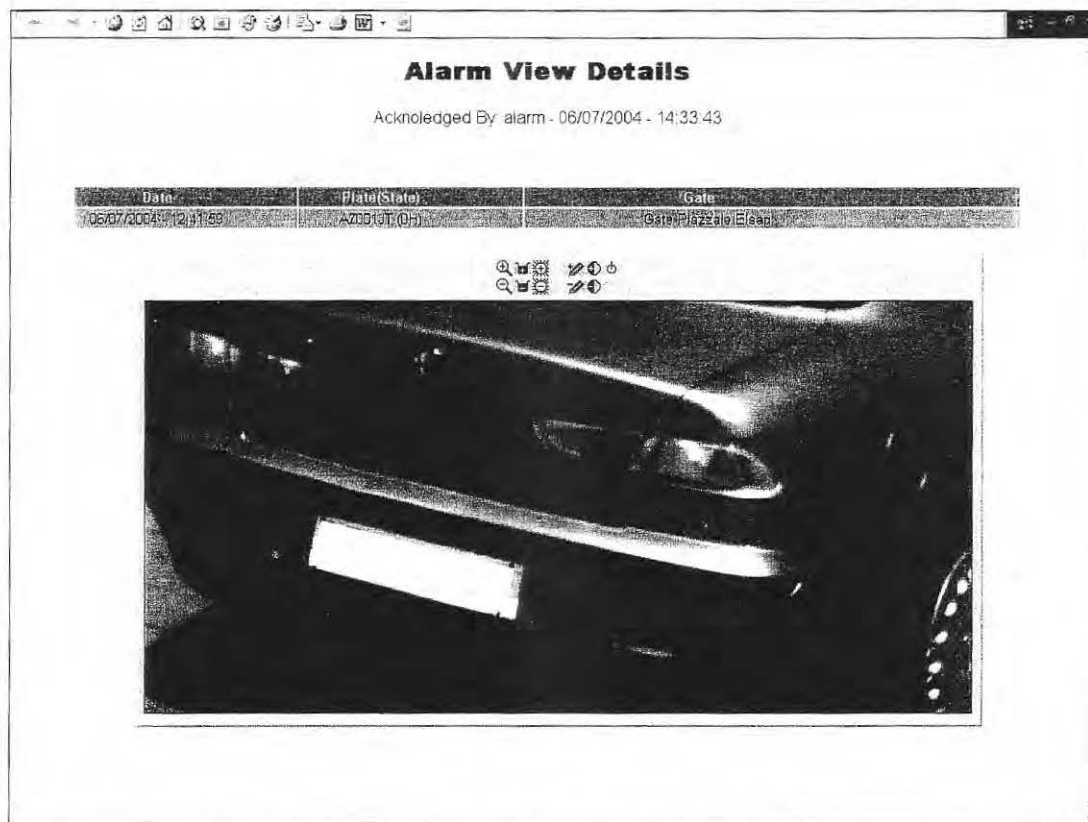


Fig. 3.5 – Alarm already accepted by another user

The screen shown in Fig. 3.5 is identical to the screen that appears after clicking on one of the icons representing the latest alarms taken in charge ("Latest Alarms").

Alarm view images may sometimes be quite dark because the infrared filter is mounted on the plate reader. If this is the case, the commands at the top of the frame can be used to increase or decrease image brightness, contrast and zoom.



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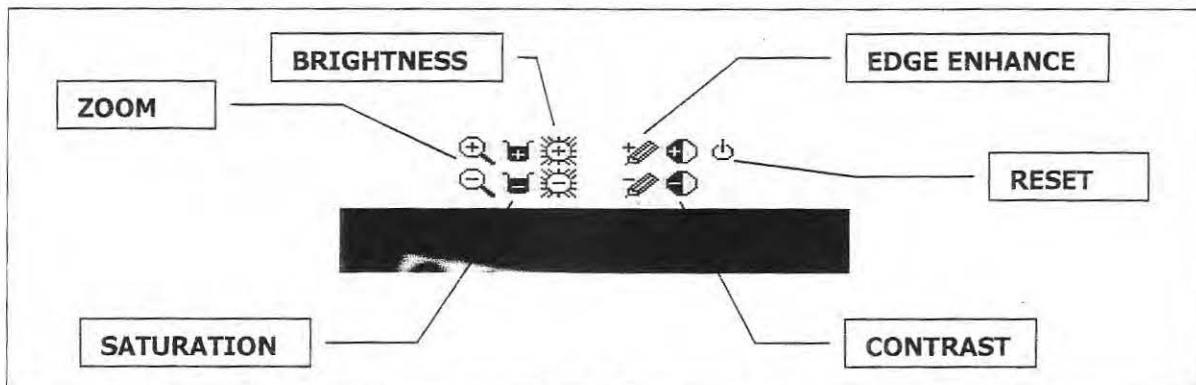


Fig. 3.6 - Image Enhancement Commands

Note: For the Alarms detected by the MPH900 and not validated by car operators, the State is not defined and it's always represented by a question mark "?".



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4 – ALARM QUERIES

4.1 - Query

4.1.1 - Functional Description

The query function allows users to retrieve a set of alarms stored in the database on the local or a remote OP-center and display them in chronological order.

The set is defined according to user-provided time and logic criteria.

Note: The storage period for alarms in the database is a system setting (31 days by default). After this period, the system automatically deletes the alarm information and relative images

4.1.2 - Warnings and Precautions

When making consecutive queries, double-check the from data because the default settings are automatically restored after every query.

4.1.3 - Detailed Description

To perform an **Alarm Query**, left click the mouse on the "Query" option in the **Main Menu** (see Fig. 4.1) and select the "Alarms" item.

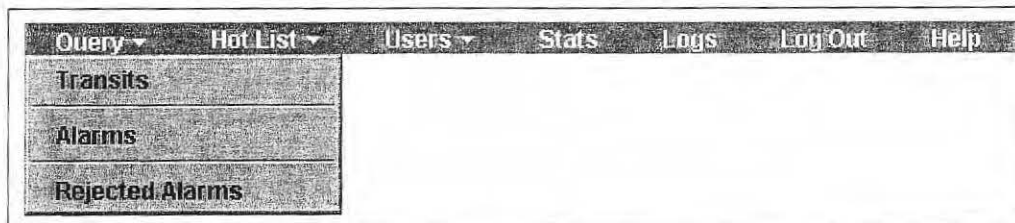


Fig. 4.1 – Main Menu

The following page is displayed (Fig. 4.2).



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Traffic Monitoring System - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites

http://127.0.0.1/smcv/layoutA.asp

Go

Cerca nel Web 612 bloccati Opzioni

REMINGTON ELSAG LAW ENFORCEMENT SYSTEMS, LLC

AUTO-DETECTOR ANPR

ELSAAG

Query Hot List Users Stats Logs Log Out Help Wednesday, May 18, 2005 10:16:19

Pending Alarms

No Alarms pending

Latest Alarms

Query Archive Alarms

	Month	Day	Year	Hour	Minute	
Start	5	18	2005	10	00	
End	5	18	2005	11	00	CARS

Plate ALL POST DEMO Station CARS ALL

State ALL

SEARCH CANCEL

ElSag a Finmeccanica Company Hot List Last Update: 05/09/2005 - 13:26:39 User: system

Wednesday, May 18, 2005 10:16:19 Internet

Fig. 4.2 – Alarm Query Page

Set the desired query criteria.

These include:

- "Month", "Day", "Year", "Hour" and "Minute" of the start of the query interval;
- "Month", "Day", "Year", "Hour" and "Minute" of the end of the query interval;
- "Plate": the complete or partial license plate alarm to query. To specify a partial license plate use the wild character %, which performs a similar function to the "*" wild card in Windows systems. For example, entering the characters "AB365TS" in the plate field, the query searches for alarms of the specific plate "AB365TS". Entering the characters "AB%", the query searches for alarms of all plates starting with "AB". Entering the characters "%5TS", the query searches for alarms of all plates ending with "5TS". Entering "%36%", the query searches for alarms of all plates containing the characters "36";
- "State": the field restricts the query to plates of the specified State. The search can be extended to ALL State by selecting the "ALL" item from the drop-down list;
- "Gates": Restricts the query to alarms signaled by fixed cameras. The search can be restricted to a single gate by selecting the corresponding ID from the drop-down list;



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- **"Cars"**: Restricts the query to alarms signaled by patrol cars. The search can be further restricted to a single patrol car by selecting its ID from the drop-down list;

Fig. 4.3 – Gates and Cars Selection Page

- **"POST"**: This is the name of the OP-Center Server where images are stored.

The fields in the **Alarm Query form** are automatically set to the following default values:

- the current date and time with a time window of one hour between query Start and End Date / Time;
- **"Gates"** mode selected;
- **"Plate"** = **"ALL"** (the same as not specifying anything in the plate field and querying all detected plate transits);
- **"Gates"** = **"ALL"** (see plate field: query for all gates);
- **"State"** = **"ALL"** (the default state can be set by a configuration file);
- **POST** the name of the local OP-Center Server PC.

4.1.4 - Examples

Fig. 4.4 gives an example of the **Alarm Query** results page:



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Traffic Monitoring System - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites

http://127.0.0.1/smcvlayoutA.asp

Google Cerca nel Web 612 bloccati Opzioni

AUTO-DETECTOR ANPR

Query Hot List Users Stats Logs Log Out Help Wednesday, May 18, 2005 10:21:36

Pending Alarms

No Alarms pending

Latest Alarms

Query Result - CARS

Start Date Hour: 5 / 18 / 2004 - 10 : 00 Plate: ALL
End Date Hour: 5 / 18 / 2005 - 11 : 00 Car: ALL

Date	Car	Plate(State)	Description	Image
05/17/2005 - 10:01:14 AM	Demo Car	CVB4203(NY)	Troops Plate or Expired from Hot Li ...	
05/09/2005 - 12:15:41 PM	Demo Car	XMV566(OR)	Troops Plate or Expired from Hot Li ...	
05/09/2005 - 1:20:10 PM	Demo Car	XMV566(OR)	Troops Plate or Expired from Hot Li ...	
04/29/2005 - 3:20:10 PM	Demo Car	BB7880(CA)	Troops Plate or Expired from Hot Li ...	

Back to Search window

ElSag a Finmeccanica Company Hot List Last Update: 05/09/2005 - 13:26:39 User: system

Wednesday, May 18, 2005 10:21:36 Internet

Fig. 4.4 – Alarm Query Results Page

Plate reads are given in table form on one or more pages containing the following information:

- **"Date"**;
- **"Gate / Car"**;
- **"Plate (State)"**;
- **"Description"**; the description comes from the Hot List.
- **"Image"**: Link to the plate image. Left click on the mouse to view all details, including the image;

The query criteria are given above the table, specifying:

- **"Start Date Hour:"**;
- **"End Date Hour:"**;
- **"Plate:"**;
- **"Gate / Car:"**.



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The following further operations are also possible:

- Result order: Plate Reads can be sorted in ascending or descending order by left clicking on the "Date", "Gate / Car" and "Plate (State)" links;
- Browsing the table: the query results pages can be browsed by left clicking the "Prev" and "Next" links at the bottom of the table;
- Save Table: left clicking on the "Save Query Data" icon saves the query result to file as text. The file can be downloaded to any folder of the PC;
- Query Backup: left clicking on the "Backup Data" icon creates a zipped file containing an index, in HTML format, and all the images associated with the alarms. The file can be downloaded to any folder of the PC;
- Print table: left clicking on the "Print" icon prints the query results;
- Back to Search Window: left clicking on the "Back to Search window" icon returns you to the corresponding page and the search criteria are restored to the default values.

4.1.5 - Possible Errors

No errors are possible other than entering search criteria that do not correspond to any item stored in the database.

If no records meet the search criteria, the HCI informs the operator with the message:

No Transit
Found

Left clicking on "**BACK**" at the end of the previous message displays the **Search Window**.

The storage period is a system parameter, set by default to 31 days. Queries on previous periods will produce no results since the information were automatically deleted.

4.2 – Alarm Image Display

4.2.1 - Functional Description

The images associated with alarms can also be displayed. These images allow operators to identify the license plate and usually the type of vehicle as well, depending on image quality.

4.2.2 - Warnings and Precautions

The plate recognition system processes images captured by a gate or patrol car during missions. Image quality is directly dependent on environmental conditions during capture.

4.2.3 - Detailed Description

With reference to Fig. 4.4, the image of the selected alarm can be viewed by left clicking on the "**Image**" link in the far right column of the table, which displays the page shown in Fig. 4.5.



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ALARM IMAGE

Date	Plate(State)	Gate	Lane Id
5/14/2004 11:09:23 AM	OD466RW (OH)	Gate/Razzale El sag	00001

Take in charge Date	Description
5/14/2004	

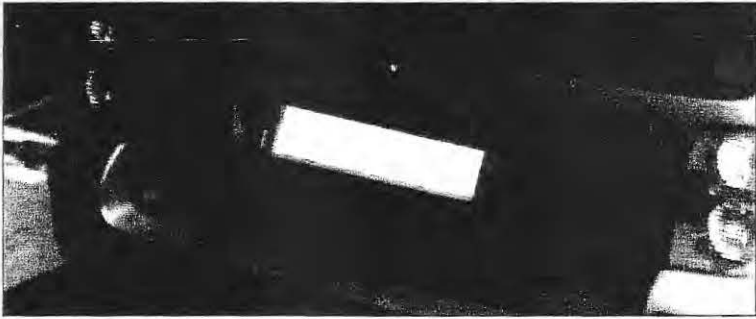


Plate Correction



Close

Fig. 4.5 – Alarm Image Page

Alarm plate details are given at the top:

- **"Date"**: date and time of alarm;
- **"Plate (State)"**: license plate and state of vehicle;
- **"Gate / Car"**: gate or patrol car involved;
- **"Take in Charge Date"** (Verification Date): date the alarm was taken in charge by the operator at the OP-Center;
- **"Description"**: description as given in the hot list.

Further down the page:

- Alarm Image, if available;
- the **"Plate Correction"** link is only displayed if an image of the alarm is available, allowing the plate and the state of the identified vehicle to be corrected, if necessary.



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The control buttons above the image can be used to adjust zoom and contrast level.

4.2.4 - Examples

Fig. 4.5 gives an example of alarm image display.

4.2.5 - Possible Errors

If, for any reason, (no connection between OP-Center and DDS, images unavailable on DDS because not yet downloaded from patrol car, etc.) image display is not possible, the following message is displayed in place of the image:

Image not
Available

While the detailed information described above continues to be displayed, in this case there is no "Plate Correction" link because the operator is unable to make any visual comparison between the plate recognition result and the plate image.

4.3 – Correction of Alarm Reads

4.3.1 - Functional Description

The license plate and state of the transit displayed can be corrected by choosing between the alternatives (plate-state pairs) presented by the system. All alarms from gates must be "accepted" by the operator before final entry into the database. Alarms detected by cars during patrols are normally accepted by the onboard officers.

4.3.2 - Warnings and Precautions

The plate recognition system processes images captured by a gate or patrol car during missions. Image quality is directly dependent on environmental conditions during capture.

Adjusting the zoom and contrast levels may improve plate readability.

4.3.3 - Detailed Description

With reference to Fig. 4.5, left clicking on "Plate Correction" displays the page shown in Fig. 4.6:



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ALARM IMAGE

Date	Plate(State)	Gate	Lane Id
5/14/2004 11:09:26 AM	CD486PW(OH)	Gate Piazza ElSag	00001

Take in charge Date	Description
5/14/2004	

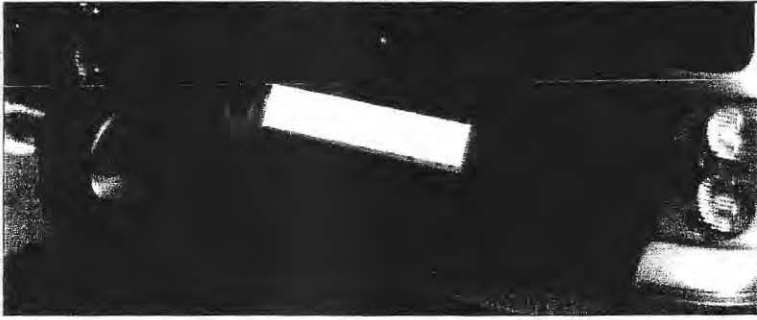


Plate Correction

CD486PW - (OH) Prova inserimento targa reale CD486PW

String Match - Wrong State

Fig. 4.6 – Plate Correction Page

Any Hot List alternatives to the detected plate are displayed in the drop-down list. The correct alternative can be selected (State recognition ambiguity) or the alarm can be discarded.

4.3.4 - Examples

Fig. 4.7 shows an example of the result of a plate correction carried out as described above:

Plate Modify

Plate succesfully Modified



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Fig. 4.7 – Transit Correction Operation Result Page

Fig. 4.8 shows an example of the result of a plate discard operation performed by clicking the "DISCARD" button.



Fig. 4.8 – Transit Discard Operation Result Page

The link displayed closes the plate correction/discard page.

4.4 – Rejected Alarms

4.4.1 - Functional Description

The query function allows users to search for a set of rejected alarms stored in the database on the local or a remote OP-center and display them in chronological order.

The set is defined according to user provided time and logic criteria.

4.4.2 - Warnings and Precautions

When making consecutive queries, double-check the form data because the default settings are automatically restored after every query.

4.4.3 - Detailed Description

To perform a **Rejected Alarms Query**, left click the mouse on the "Query" option in the **Main Menu** (see Fig. 4.1) and select the "Rejected Alarms" item.

The following page is displayed (Fig. 4.9).



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Traffic Monitoring System - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites

Address: http://127.0.0.1/smcv/layoutA.asp

Google Cerca nel Web 612 bloccati Opzioni

REMINGTON ELSAG **AUTO-DETECTOR ANPR** **ELSAG**

Query Hot List Users Status Logs Log Out Help Wednesday, May 18, 2005 10:36:10

Pending Alarms
No Alarms pending

Latest Alarms

Query Archive Rejected Alarms

	Month	Day	Year	Hour	Minute	
Start	5	18	2005	10	00	
End	5	18	2005	11	00	☒ CARS

Plate ALL POST DEMO Station CARS ALL

State ALL

Reject Reason ALL

SEARCH CANCEL

Elsag a Finmeccanica Company Hot List Last Update: 05/09/2005 - 13:26:39 User: system

Wednesday, May 18, 2005 10:36:10 Internet

Fig. 4.9 – Rejected Alarms Query Page

Set the desired query criteria.

These include:

- "Month", "Day", "Year", "Hour" and "Minute" of the start of the query interval;
- "Month", "Day", "Year", "Hour" and "Minute" of the end of the query interval;
- "Plate": the complete or partial license plate rejected alarm to query. To specify a partial license plate use the wild card character %.
- "State": Restricts the query to Plate of a specified State. The search can be extended to ALL State by selecting the "ALL" item from the drop-down list;
- "Reject Reason": Restricts the query to the specified reject reason. The search can be extended to ALL State by selecting the "ALL" item from the drop-down list;
- "Gates": Restricts the query to rejected alarms signaled by Fixed cameras. The search can be restricted to a single camera by selecting the corresponding ID from the drop-down list;
- "Cars": Restricts the query to rejected alarms signaled by patrol cars. The search can be further restricted to a single patrol car by selecting its ID from the drop-down list;



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Fig. 4.10 – Gates and Cars Selection Page

- "POST": name of OP-center server where reads are stored.

The fields in the **Rejected Alarm Query form** are automatically set to the following default values:

- the current date and time with a time window of one hour between query Start and End Date / Time;
- "Gates" mode selected;
- "Plate" = "ALL" (the same as not specifying anything in the plate field and querying all detected plate transits);
- "Gates" = "ALL" (see plate field: query for all gates);
- "State" = "ALL" (the default state can be set by a configuration file);
- "Reject Reason" = "ALL" (see plate field: query for all reasons);
- POST the name of the local OP-center.

4.4.4 - Possible Errors

If no Alarms records meet the search criteria, the HCI informs the operator with the message:

No Transit
Found

Left clicking on "BACK" at the end of the previous message displays the **Search Window**.

4.5 – Rejected Alarm Image Display

4.5.1 - Functional Description

Images associated with rejected alarms can be displayed by clicking the image link. By inspecting the images operators can verify whether they really are "false alarms" and therefore correctly rejected.



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4.5.2 - Detailed Description

The image of the selected alarm can be viewed by left clicking on the "**Image**" link in the far right column of the table. The operations are the same of the Alarm Image Display. Refer to section 4.2 for further details.

4.6 – Rejected Alarm Correction

4.6.1 - Functional Description

The license plate and state of the transit displayed can be re-accepted by choosing between the alternatives (plate-state-description) presented by the system.

4.6.2 - Detailed Description

The operations are the same as for the Alarm Correction. Please refer to Section 4.3 for further details.



5 – Transit QUERY

5.1 - Query

5.1.1 - Functional Description

The query function allows users to select a set of transits (plate reads that are not alarms) stored in the database on the local or a remote OP-Center and displays them in chronological order.

The set is defined according to user provided time and logic criteria.

Note: The storage period for alarms in the database is a system setting (31 days by default). After this period, the system automatically deletes the alarm information and relative images

5.1.2 - Warnings and Precautions

When making consecutive queries, double-check the form data because the default settings are automatically restored after every query.

5.1.3 - Detailed Description

To perform a **Transit Query**, left click the mouse on the "**Query**" option in the **Main Menu** (see Fig. 5.1) and select the "**Transit**" item.

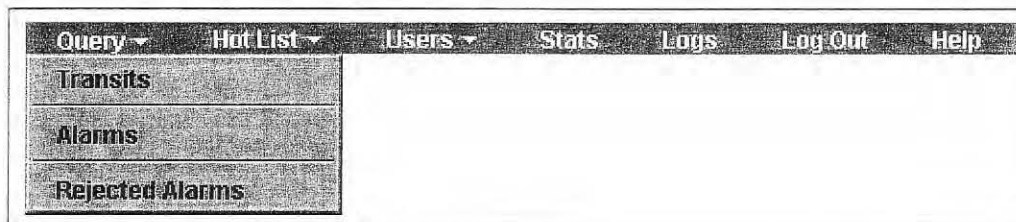


Fig. 5.1 – Main Menu

The following page is displayed (Fig. 5.2).



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Traffic Monitoring System - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Go

http://127.0.0.1/smcv/layoutA.asp

Google Cerca nel Web 612 bloccati Opzioni

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AUTO-DETECTOR ANPR

Query Hot List Users Stats Logs Log Out Help Wednesday, May 18, 2005 10:47:24

Pending Alarms

No Alarms pending

Latest Alarms

Query Archive Transits

	Month	Day	Year	Hour	Minute	
Start	5	18	2005	10	00	
End	5	18	2005	11	00	☒ CARS

Plate ALL POST DEMO Station CARS ALL

State ALL

SEARCH CANCEL

ElSag a Finmeccanica Company Hot List Last Update: 05/09/2005 - 13:26:39 User: system

Wednesday, May 18, 2005 10:47:24 Internet

Fig. 5.2 – Transit Query Page

Set the desired query criteria.

These include:

- "Month", "Day", "Year", "Hour" and "Minute" of the start of the query interval;
- "Month", "Day", "Year", "Hour" and "Minute" of the end of the query interval;
- "Plate": the complete or partial license plate transit to query. To specify a partial license plate use the wild-card character %;
- "State": Restricts the query to Plate of a specified State. The search can be extended to ALL State by selecting the "ALL" item from the drop-down list;
- "Gates": Restricts the query to transits detected by Fixed cameras. The search can be restricted to a single camera by selecting the corresponding ID from the drop-down list;
- "Cars": Restricts the query to transits detected by patrol cars. The search can be further restricted to a single patrol car by selecting its ID from the drop-down list;



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GATES	CARS
☐ GATES	☐ GATES
☐ CARS	☐ CARS
GATES	CARS
ALL	ALL
Gate Piazzele Elsas	Car OSPH 00001
Gate Rullo Elsas	Car OSPH 00002
CANCEL	CANCEL
	Car OSPH 00003
	Car OSPH 00004

Fig. 5.3 – Gates and Cars Selection Page

- "POST": name of OP-Center server where transits are stored.

The fields in the **TransitQuery** form are automatically set to the following default values:

- the current date and time with a time window of one hour between query Start and End Date / Time;
- "Gates" mode selected, if the OP-center is configured for both cars and fixed gates.
- "Plate" = "ALL" (the same as not specifying anything in the plate field and querying all detected plate transits);
- "Gates" = "ALL" (see plate field: query for all gates);
- "State" = "ALL" (the default state can be set by a configuration file);
- POST the name of the local OP-Center.

5.1.4 - Examples

Fig. 5.4 gives an example of the **Transit Query** results page:



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Traffic Monitoring System - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Search Favorites

Address: http://127.0.0.1/smcv/layoutA.asp

Google+ Cerca nel Web 612 bloccati Opzioni

REMINGTON ELSAG **AUTO-DETECTOR ANPR** **ELSAG**

Query Hot List Users State Logs Log Out Help Wednesday, May 18, 2005 10:53:38

Pending Alarms
No Alarms pending

Latest Alarms

Query Result - CARS

Start Date Hour: 5 / 18 / 2004 - 10 : 00 Plate: ALL
End Date Hour: 5 / 18 / 2005 - 11 : 00 Car: ALL

Date	Car	Plate(State)	Image
05/17/2005 - 2:05:56 PM	Demo Car	567890(?)	Image
05/17/2005 - 2:05:59 PM	Demo Car	0107U(?)	Image
05/17/2005 - 2:05:36 PM	Demo Car	34567890(?)	Image
05/17/2005 - 2:02:12 PM	Demo Car	34567890(?)	Image
05/17/2005 - 2:01:39 PM	Demo Car	34567890(?)	Image
05/17/2005 - 2:01:03 PM	Demo Car	56789(?)	Image
05/17/2005 - 2:00:56 PM	Demo Car	3456789(?)	Image
05/17/2005 - 10:19:47 AM	Demo Car	247RJC(?)	Image
05/17/2005 - 10:19:46 AM	Demo Car	350041(?)	Image
05/17/2005 - 10:19:45 AM	Demo Car	CPY1007(?)	Image

Elsag a Finmeccanica Company Hot List Last Update: 05/09/2005 - 13:26:39 User: system

Wednesday, May 18, 2005 10:53:38 Internet

Fig. 5.4 – Transit Query Results Page

Transits found are given in table form on one or more pages containing the following information:

- **"Date"**;
- **"Gate / Car"**;
- **"Plate (State)"**;
- **"Image"**: Link to the transit image. Left click on the mouse to view all transit details, including the image;

The query criteria are given above the table, specifying:

- **"Start Date Hour:"**;
- **"End Date Hour:"**;
- **"Plate:"**;
- **"Gate / Car:"**.



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The following further operations are also possible:

- Result order: transits can be sorted in ascending or descending order by left clicking on the "Date", "Gate / Car" and "Plate (State)" links;
- Browsing the table: the query results pages can be browsed by left clicking the "Prev" and "Next" links at the bottom of the table;
- Save Table: left clicking on the "Save Query Data" icon saves the query result to file as text. The file can be downloaded to any local folder;
- Query Backup: left clicking on the "Backup Data" icon creates a zipped file containing an index file, in HTML format, and all the images associated with the alarms. The file can be downloaded to any local folder;
- Print table: left clicking on the "Print" icon prints the query results;
- Back to Search Window: left clicking on the "Back to Search window" icon returns you to the corresponding page and the search criteria are restored to the default values.

5.1.5 - Possible Errors

If no transits meet the search criteria, the HCI informs the operator with the message:

No Transit
Found

Left clicking on "**BACK**" at the end of the previous message displays the **Search Window**.

5.2 – Transit Image Display

5.2.1 - Functional Description

The images associated with transits can also be displayed. These images allow operators to identify the license plate and usually the type of vehicle as well, depending on image quality.

5.2.2 - Detailed Description

With reference to Fig. 5.4, the image of the selected transit can be viewed by left clicking on the "**Image**" link in the far right column of the table, which displays the page shown in Fig. 5.5.



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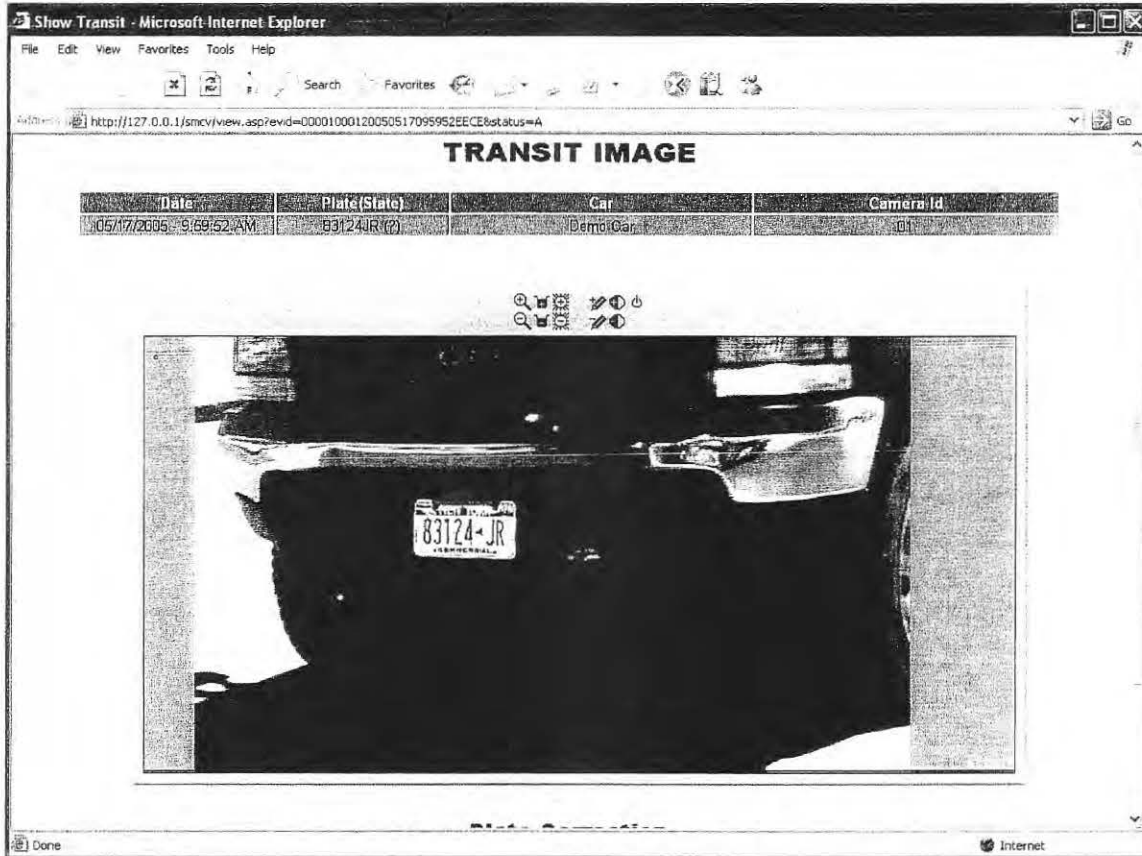


Fig. 5.5 – Transit Image Page

Transit details are given at the top:

- "Date": date and time of alarm;
- "Plate (State)": license plate and state of vehicle;
- "Gate / Car": gate or patrol car involved;
- "Camera ID": ID of car/gate camera.

Further down the page:

- Transit Image, if available;
- the "**Plate Correction**" link is only displayed if an image of the transit is available, allowing the plate and the state of the vehicle identified to be corrected.

The control buttons above the image can be used to adjust zoom and contrast level.

5.2.3 - Possible Errors

If, for any reason, (no connection between OP-CENTER and DDS, images unavailable on DDS because not yet downloaded from patrol car, etc.) image transfer is not possible, the following



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message is displayed in place of the image:

Image not
Available

While the detailed information described above continues to be displayed, there is no "**Plate Correction**" link because the operator is unable to make any visual comparison between the plate recognition result and the plate image.

5.3 – Transit Corrections

5.3.1 - Functional Description

The license plate and state of the transit displayed can be corrected by entering a new plate string or choosing a new state among the alternatives presented by the system.

5.3.2 - Detailed Description

With reference to Fig. 5.5, left clicking on "**Plate Correction**" displays the page shown in Fig. 5.6:

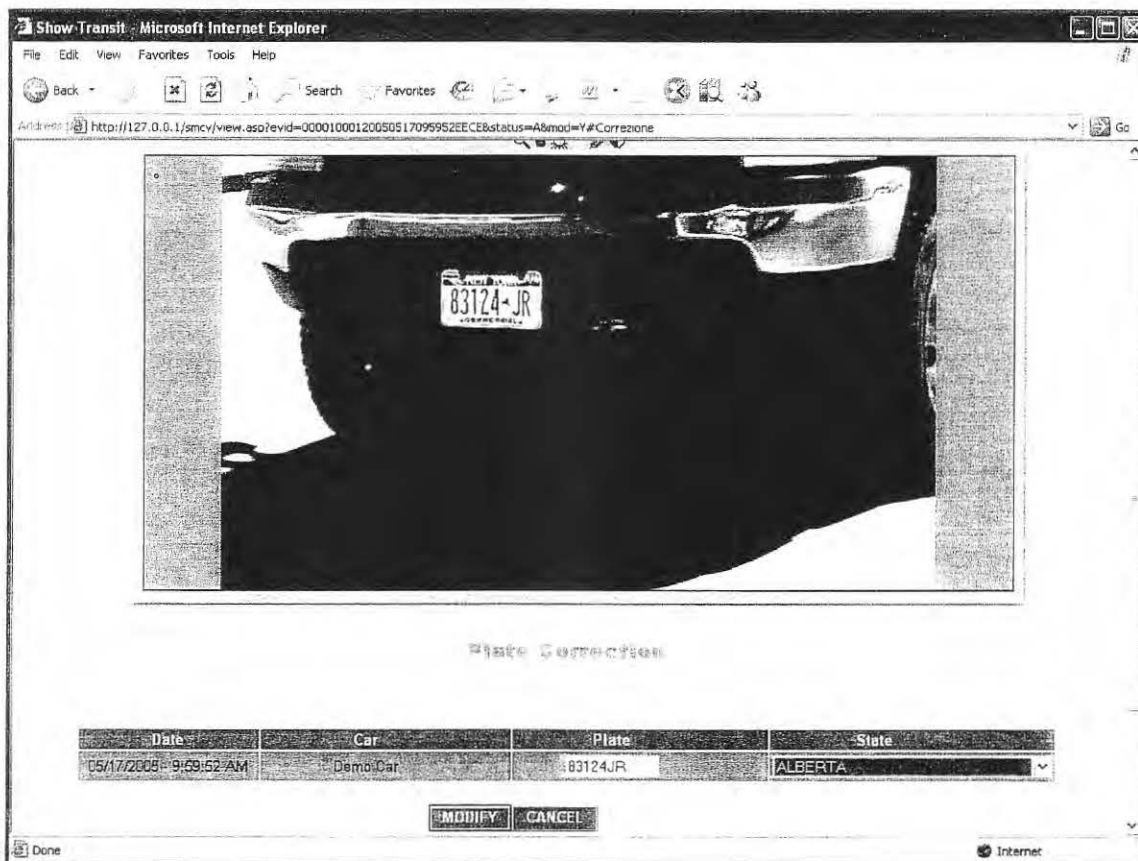


Fig. 5.6 – Plate Correction Page



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Enter a new string for plate or select a new state from the drop down box to correct the transit and then press MODIFY.

5.3.3 - Examples

Fig. 5.7 shows an example of the result of a plate correction carried out as described above:

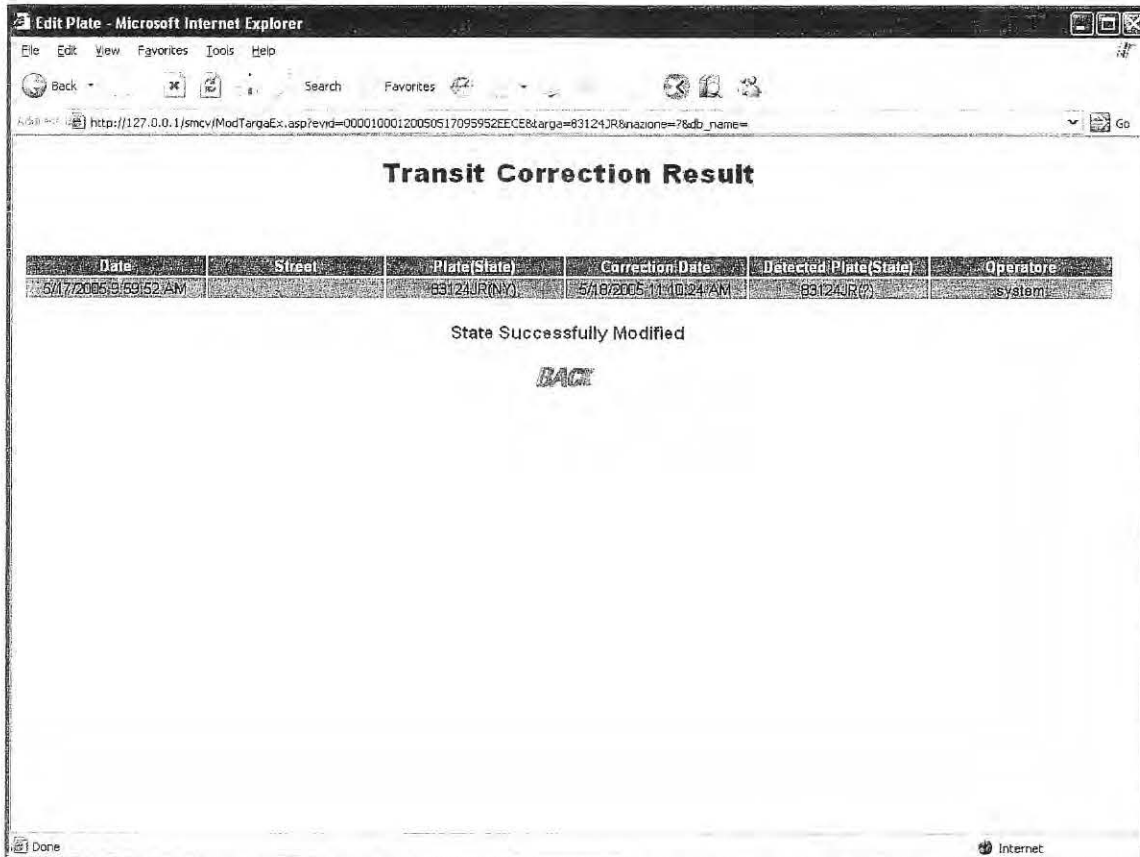


Fig. 5.7 – Transit Correction Operation Result Page



6 - STATISTICAL ANALYSIS

6.1 - Overview

The system computes statistical data of the number of transits and alarms detected by each gate or car.

6.2 - Functional Description

All data are stored automatically with date and time information. Statistics can be displayed in table or bar chart formats.

6.3 - Detailed Description

Select "Stats" from the menu to access the statistical analysis function. Fig. 6.1 shows the main page, which gives a summary report of transits, alarms and rejected alarms detected by cars and gates.

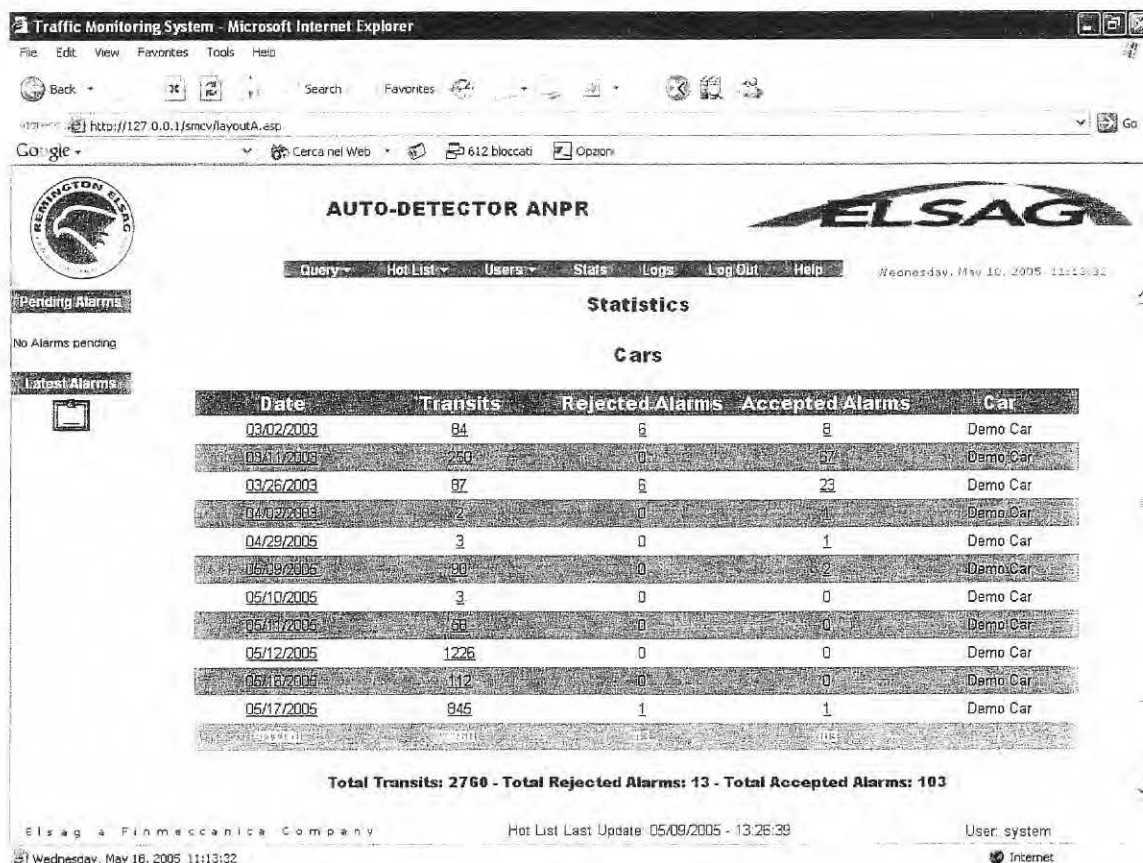


Fig. 6.1 – Gate and Car Statistics

The statistics are presented in tabular, numerical form, sorted on the acquisition date. The meanings of the fields are as follows:



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- **"Date"** acquisition date;
- **"Transits"** number of detected transits;
- **"Rejected Alarms"** number of rejected alarms;
- **"Alarms"** number of alarms;
- **"Gate/Car"** ID of gate or car the data refers to.

Clicking on the number fields opens up a further window displaying a time bar chart (events per hours histograms) :

- **"Date"** chart of transits, rejected alarms and alarms during the day;
- **"Transits"** chart of transits only during the day;
- **"Rejected Alarms"** chart of rejected alarms only during the day;
- **"Alarms"** chart of alarms only during the day;

The system provides one table for each Gate / Car with the number of total transits, rejected alarms and alarms in the last row.

Left clicking on the **"Export Statistics Data"** icon allows saving the statistics data to a text file. The file can be downloaded to any local folder;

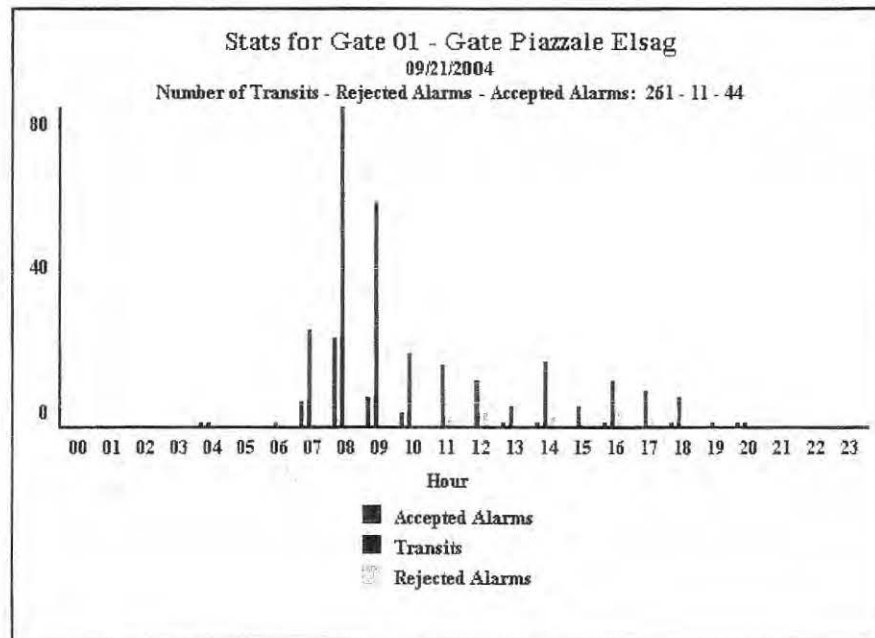
Left clicking on the **"Print"** icon allows printing the statistics data.



Fig. 6.2 gives an example of a complete graph.



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BACK

Fig. 6.2 – Complete Gate Chart

6.4 - Possible Errors

Data from patrol cars is only available after the transits, rejected alarms and alarms have been downloaded at the end of a mission.



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7 - Hot List MANAGEMENT

We can define two different Hot List categories: External and Temporary.

Any Hot License Plate entered by the operators through the HCI, are inserted in the Temporary Hot List. The Hot Lists imported from outside sources are defined as External Hot List.

Note: OP-center temporary hot lists must not be confused with Temporary Hot Lists that are created by car officers through the MPH900 on-board user interface. OP-Center Temporary Hot Lists are considered an External Hot Lists when downloaded onto the Cars.

7.1 - External Hot List Automatic Update

7.1.1 - Functional Description

The system can automatically update the External Hot List. A suitably formatted file must be placed in a specific directory of the OP-Center Station. The OP_center software, through the ODM application that must be active, reads the file and sends the updates to the competent DDS applications, that can be present in the same OP-center PC or on remote LAN or WAN connected PCs. These updates are downloaded to the patrol car readers if the appropriate download procedure is carried out (see MPH900 User manual for details).

Operators can find out when the last External Hot List update was performed by reading the information in the HCI footer, as shown in Fig. 7.1.

Hot List Last Update: 6/21/2004 12:26:37 PM

Fig. 7.1 – Last External Hot List Update

7.1.2 - Warnings and Precautions

If the automatic update mode is configured, the update operation is fully automatic and requires no operator intervention.

7.2 - External Hot List Manual Import

7.2.1 - Functional Description

The operator can manually select and import an external Hot List if the automatic import mode is not available.

The OP-center software, through the ODM application that must be active, reads the file and sends the updates to the relevant DDS applications, that can be present in the same OP-center PC or on remote LAN or WAN connected PCs. These updates are downloaded to patrol car readers if the appropriate download procedure is carried out (see MPH900 User manual for details).

7.2.2 - Warnings and Precautions

Be sure that the Hot List file is a TXT (Text file) and that the internal format is compliant with the



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given Hot List format.

7.2.3 - Detailed Description

Click on "REPLACE LIST" under the "Hot List" menu.

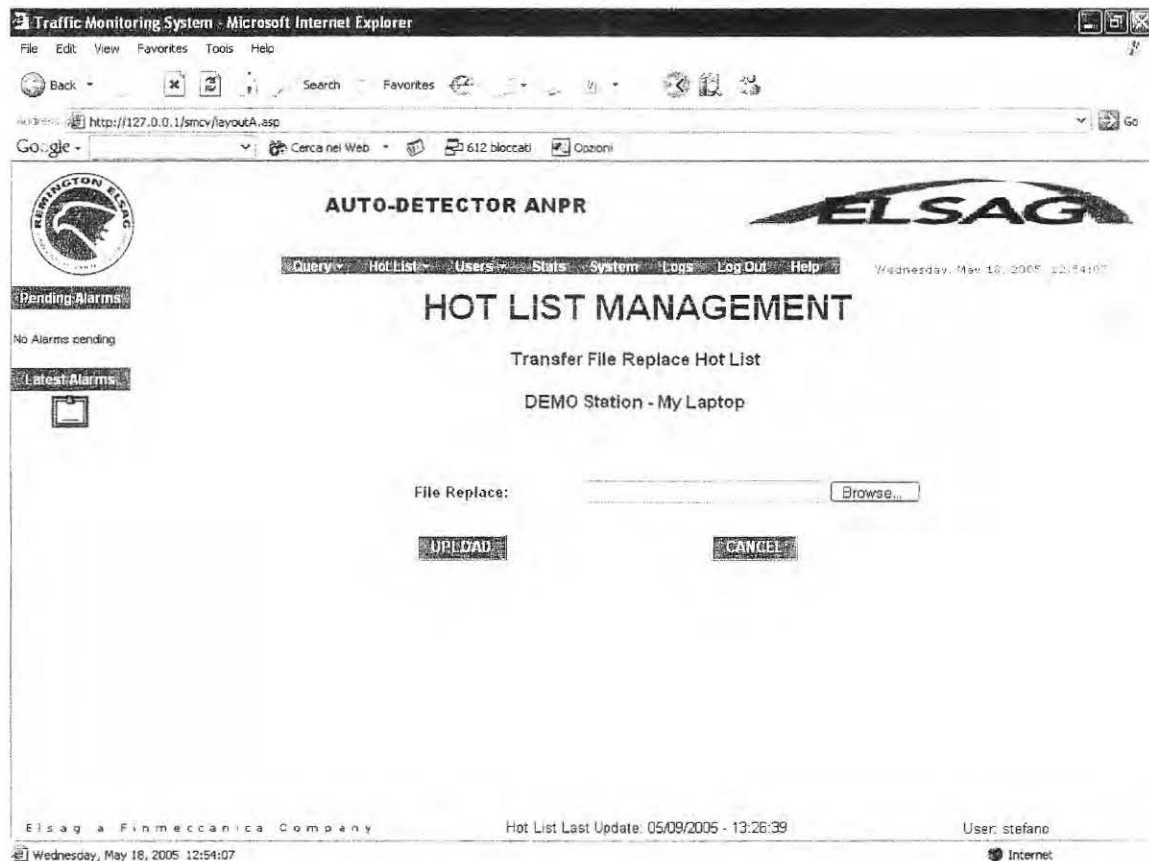


Fig. 7.2 – Hot List Plate Search Menu

The window of Fig. 7.2 shows up. Press "**Browse**" to locate the Hot List file in the PC. Then press "**UPLOAD**". If the ODM and the connected DDS are active, the new Hot List is imported and transmitted to Fixed gate readers and cars.

Note: The existing Hot List is totally deleted and substituted by the new one, when the REPLACE LIST command is used.

7.3 – Hot List Manual Update

7.3.1 - Functional Description

The User can add an additional temporary Hot List by using the "**Update List**" command.

The OP-center software, through the ODM application that must be active, reads the file and sends the updates to the relevant DDS applications, that can be present in the same OP-center



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PC or on remote LAN or WAN connected PCs. These updates are downloaded to patrol car readers if the appropriate download procedure is carried out (see MPH900 User manual for details).

7.3.2 - Warnings and Precautions

Be sure that the Hot List file is a TXT (Text file) and that the internal format is compliant with the given Hot List format.

7.3.3 - Detailed Description

Click on "UPDATE LIST" under the "Hot List" menu and press "Browse" to locate the Hot List file in the PC. Then press "UPLOAD". If the ODM and the connected DDS are active, the new Hot List is imported and transmitted to fixed gate readers and cars.

Note: the Hot List imported by means of the "Update List" command is considered Temporary. .

7.4 – Query of Temporary Hot List and External Hot List

7.4.1 - Functional Description

This function enables users to search a set of plates in the Temporary Hot List or the External Hot List and view it in chronological order sorted according to the Entry Date field.

Note: Access to External Hot List data is restricted to "System Administration" users.

7.4.2 - Warnings and Precautions

When making consecutive queries, double-check the form data because the default settings are automatically restored after every query.

7.4.3 - Detailed Description

Clicking on "Query" (see Fig. 7.5) under "Hot List" in the **Main Menu** opens the page shown in Fig. 7.3:



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Traffic Monitoring System - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites 612 bloccati Opzioni

http://127.0.0.1/smcvlayoutA.asp

Google Cerca nel Web

AUTO-DETECTOR ANPR

ELSAG

Query Hot List Users Stats Logs Log Out Help Wednesday, May 18, 2005 11:40:10

HOT LIST MANAGEMENT

Pending Alarms
No Alarms pending

Latest Alarms

Plate Search

DEMO Station - My Laptop

	Month	Day	Year	Hour	Minute
Start	5	18	2005	10	00
End	5	18	2005	23	59

Plate ALL Insert by: ALL

State NEW YORK (NY)

SEARCH CANCEL

Elsag a Finmeccanica Company Hot List Last Update: 05/08/2005 - 13:26:39 User: system

Wednesday, May 18, 2005 11:40:10 Internet

Fig. 7.3 – Hot List Plate Search Menu Page

Enter the required search criteria.

Available parameters are:

- "Month", "Day", "Year", "Hour" and "Minute" of the start of the search interval;
- "Month", "Day", "Year", "Hour" and "Minute" of the end of the search interval;

The time interval refers to the plate Entry Date in the Hot List.

- "Plate": complete or partial plate to search in the Hot List. To specify a partial license plate use the wild-card character %;
- "State": Restricts the query to Plate of a specified State. The search can be extended to ALL State by selecting the "ALL" item from the drop-down list;
- "Insert by": to search the plates entered in the temporary or external list.

7.4.4 - Examples

Left clicking on the "SEARCH" button displays the page shown in Fig. 7.4:



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Traffic Monitoring System - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Search Favorites

Address: http://127.0.0.1/smcv/layoutA.asp

Google Cerca nel Web 612 bloccati Opzioni

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AUTO-DETECTOR ANPR

Query Hot List Users Stats Logs Log Out Help

Wednesday, May 18, 2005 11:43:27

Pending Alarms: No Alarms pending

Latest Alarms:

Page 1 of 1 - 13 Record

Plate	State	Entry Date	Deleting Date	Insert by:	Description	
2DKB276	CA	05/09/2005 - 1:29:33 PM	07/07/2007	DEMO Station	720010624 test short	Remove
3D3X1E2	CA	05/09/2005 - 1:29:33 PM	07/07/2007	DEMO Station	113720021223 test short	Remove
3NGS	CA	05/09/2005 - 1:29:33 PM	07/07/2007	DEMO Station	3720010905 test short	Remove
4ML4724	CA	05/09/2005 - 1:29:33 PM	07/07/2007	DEMO Station	1920020107 test short	Remove
4WRC718	CA	05/09/2005 - 1:29:33 PM	07/07/2007	DEMO Station	3020030506 test short	Remove
5R2426	CA	05/09/2005 - 1:29:33 PM	07/07/2007	DEMO Station	5620070305 test short	Remove
5S016	CA	05/09/2005 - 1:29:33 PM	07/07/2007	DEMO Station	3420030222 test short	Remove
ADJ3919	NY	05/09/2005 - 1:29:33 PM	07/07/2007	DEMO Station	18910105 test small	Remove
ADL236	NY	05/09/2005 - 1:29:33 PM	07/07/2007	DEMO Station	89 FORD test small	Remove
AELU4275	NY	05/09/2005 - 1:29:33 PM	07/07/2007	DEMO Station	19991001 test small	Remove
R33	CA	05/09/2005 - 1:29:33 PM	07/07/2007	DEMO Station	3720021217 test short	Remove
398DACK	GA	05/03/2005 - 3:37:27 PM	07/07/2007	DEMO Station		Remove
471365	SC	05/03/2005 - 3:37:26 PM	07/07/2007	DEMO Station		Remove

ElSag e Finmeccanica Company Hot List Last Update: 05/09/2005 - 13:26:39 User: system

Wednesday, May 18, 2005 11:43:27

Fig. 7.4 – Hot Plate List Page

Search results are presented in table form on one or more pages containing the following information:

- "Plate";
- "State";
- "Entry Date";
- "Deleting Date";
- "Insert by";
- "Description";
- "REMOVE": direct link to the page used to remove the plate from the temporary list.

For details on these data types, see Par. 7.5.

To browse through the pages, simply click on the "Prev" or "Next" links under the table.



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7.4.5 - Possible Errors

If no Hot List plates meet the set search criteria, the HCI informs the operator with the message:

No Query
Result

Operators can return to the previous page by left clicking on the link "[New Search](#)" at the end of the previous message.

7.5 – Plate Entry in the Temporary Hot List

7.5.1 - Functional Description

A plate can be entered in the Temporary Hot List if it is not present yet in the current imported external Hot List. While the connected Fixed gate readers are updated immediately (data network transfer time is negligible), car readers are only updated if the appropriate download procedure is carried out (see MPH900 User manual for details).

7.5.2 - Detailed Description

Left clicking on "Hot List" in the **Main Menu** presents the options shown below in Fig. 7.5:

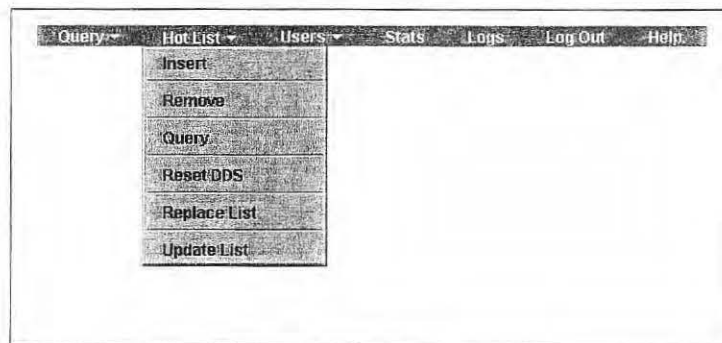


Fig. 7.5 – "Hot List" Drop-down Menu

Clicking on "Insert" the Plate Insertion in Temporary Hot List page comes up as shown in Fig. 7.6:



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HOT LIST MANAGEMENT

Plate Insertion

Pc OSHP-POST-SER - Genova

Insertion Date 5/20/2004 PLATE	Deleting Date 5/22/2004 State OHIO (OH) v
Description	
INSERT	CANCEL

Fig. 7.6 – Plate Insertion in Temporary Hot List Page

Entry fields:

- **"Insertion Date"**: date of entry in Temporary Hot List, automatically set to the current date. It cannot be edited by the operator;
- **"Deleting Date"**: date of removal from Temporary Hot List, automatically set to the pre-configured default period;
- **"Plate"**: vehicle license plate;
- **"State"**: vehicle state;
- **"Description"**: text describing the new entry.

Clicking the **"INSERT"** button requests command execution. A confirmation dialog box is displayed to allow the operator to go back and check the data entered before finally issuing the command (see Fig. 7.7).



HOT LIST MANAGEMENT

Plate Insertion

Pc OSHP-POST-SER - Genova

Grant Operation - WebPage

Insertion: 5/20/20
PLA: AA971E
Do you want to continue?
OK CANCEL

Deleting Date: 5/22/2004
State: HIO (OH)

Sample Plate

INSERT CANCEL

Fig. 7.7 – Plate Insertion in Temporary Hot List Page with Confirmation Request

7.5.3 - Examples

Clicking on "INSERT" and then confirming displays the page shown in Fig. 7.8:

Plate Insertion : AA971BB - 0H

from ODM : ODM001

Plate insertion succeeded

Please Wait 30sec before check Hot List

Fig. 7.8 – Plate Insertion in Temporary Hot List Page with Confirmation of Success

This message reports the following information:

- "Plate Insertion": the alphanumerical characters of the plate inserted;
- "from ODM": the HCI OP-CENTER from which the insertion was performed;
- a Message informing the operator of the outcome of the command.

7.5.4 - Possible Errors

If the plate is already present in the Temporary Hot List or External Hot List, the insertion command fails and the operator is informed of the error by a message:



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AA971BB - OH:
This Plate is
already in the Hot
List

Operators can return to the previous page by pressing "Back".

7.6 – Plate Removal from Temporary Hot List

7.6.1 - Functional Description

A plate can be removed from the Temporary Hot List. While the gate readers are updated immediately (data network transfer time is negligible), patrol car readers are only updated if the appropriate download procedure is carried out (see MPH900 User manual for details).

7.6.2 - Detailed Description

Clicking on "Remove" under "Hot List" in the Main Menu (see Fig. 7.5) displays the page shown in Fig. 7.9:

Traffic Monitoring System - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites

Address: http://127.0.0.1/jsncv/layoutA.asp

Google Cerca nel Web 612 bloccati Opzioni

AUTO-DETECTOR ANPR

Query Hot List Users Stats Logs Log Out Help Wednesday, May 18, 2005 11:54:44

Pending Alarms

No Alarms pending

Latest Alarms

HOT LIST MANAGEMENT

Plate Removal

DEMO Station - My Laptop

Plate State

NEW YORK (NY)

REMOVE CANCEL

Elsag a Finmeccanica Company Hot List Last Update: 05/09/2005 - 13:26:39 User: system

Wednesday, May 18, 2005 11:54:44 Internet

Fig. 7.9 – Plate Removal from Temporary Hot List Page



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Entry fields:

- **"Plate"**: license plate of the vehicle to remove from the list;
- **"State"**: state of the vehicle to remove from the list.

Press the **"REMOVE"** button : A confirmation dialog box is displayed to allow the operator to go back and check the data entered before finally sending the command (see Fig. 7.10).

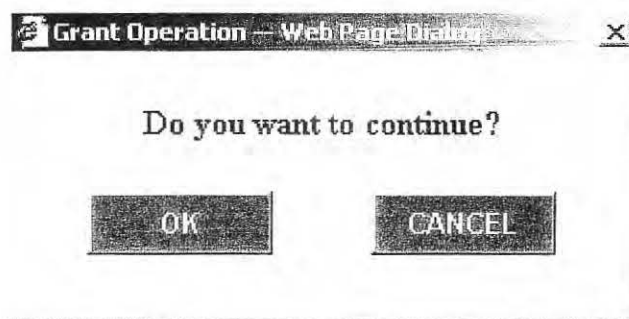


Fig. 7.10 – Operation Confirmation Dialog Box

7.6.3 - Examples

Clicking on **"REMOVE"** and confirming displays a page like the one in Fig. 7.11:

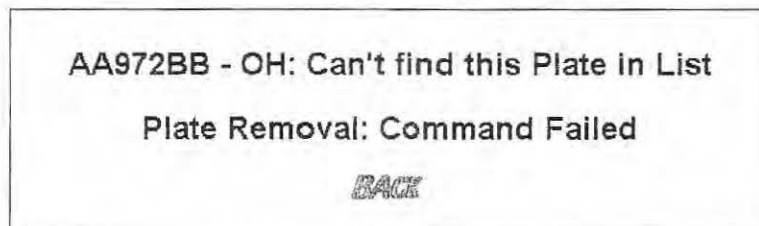


Fig. 7.11 – Plate Removal Command Failure Page

In this case, for example, the plate couldn't be found in the Temporary Hot List and an error message has been displayed to inform the operator that the command has failed.

7.6.4 - Possible Errors

If the specified plate is not in the Temporary Hot List or it is present in the External Hot List, the operation fails and the HCI informs the operator of the error with one of the following messages:

This Plate cannot be removed (External Hot List)

or:



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Can't find this Plate in
List

Operators can return to the previous page by pressing "**Back**".



8 - USER MANAGEMENT

8.1 – Overview

As mentioned in the introduction to section 1.3, access to functions is not available to all users. Different user profiles are assigned to operators connecting to the system.

User types are:

- Maintenance-Upgrade;
- System Administration;
- Supervisor;
- User.

Tab. 8.1 below lists permitted operations for each user type:

Tab. 8.1 – Permitted Operations according to User Type

Login	Role	Description	Privileges
operator	User	Supervisor	Search Database for Alarms Show Granted Users Change User Password Performance Statistics
alarm	Alarm Management	User	Search Database for Alarms Search for License Plate Number in the Temporary Hot List Insert/Remove Plate in the Temporary Hot List Change User Password Accept, Store or Discard Alarms Performance Statistics
system	System Administration	System Manager	Insert/Remove Users Show Granted Users Change User Password Search Database for Alarms Search for License Plate Number in the External Hot List Search for License Plate Number in the Temporary Hot List Insert/Remove Plate in the Temporary Hot List Upload External Hot List Upgrade/Replace
maintenance	Maintenance	Maintenance Operator	Search Database for Alarms Search for License Plate Number in the Temporary Hot List Search for License Plate Number in the External Hot List Insert/Remove Plate in the Temporary Hot List Show Granted Users Insert/Remove Users Change User Password Accept, Store or Discard Alarms Upload External Hot List Upgrade/Replace System Configuration System Monitoring Performance Statistics



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8.2 – Users List

8.2.1 - Functional Description

This function displays a list of users present in the User Database used by the system.

8.2.2 - Detailed Description

Left clicking on "Users" in the **Main Menu** displays the drop-down menu options displayed below in Fig. 8.1:

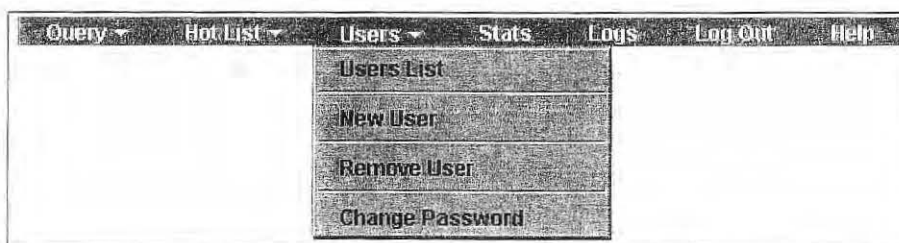


Fig. 8.1 – "Users" Drop-down Menu

Clicking on the "Users List" item displays a list of granted users (see Fig. 8.2):



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The screenshot shows a web browser window displaying the 'AUTO-DETECTOR ANPR' application. The page title is 'USERS MANAGEMENT'. On the left, there are links for 'Pending Alarms' and 'Latest Alarms'. The main content area is titled 'Granted Users List' and contains a table with columns: Login, Role, Description, and Privilege. The table lists three users: 'alarm' (User), 'maintenance' (Maintenance Upgrade), and 'operator' (Supervisor). The 'Privilege' column lists various system functions for each user. At the bottom, it says 'Elsag a Finmeccanica Company' and 'Hot List Last Update: 00-07-2004 11:03:46'.

Login	Role	Description	Privilege
alarm	User	User	Search Database for Alarms Search for License Plate Number in the Internal Hot List Insert/Remove Plate in the Internal Hot List Change User Password Acknowledgement, Store or Discard Alarms Performance Statistics
maintenance	Maintenance Upgrade	Maintenance Operator	Search Database for Alarms Search for License Plate Number in the Internal Hot List Search for License Plate Number in the Internal Hot List Insert/Remove Plate in the Internal Hot List Insert/Remove Plate in the Internal Hot List Acknowledgement, Store or Discard Alarms System Configuration Performance Statistics Show Granted Users Insert/Remove Users Change User Password System Configuration System Configuration
operator	Supervisor	Supervisor	Search Database for Alarms Show Granted Users Change User Password Performance Statistics Insert/Remove Users Show Granted Users Change User Password Search Database for Alarms

Fig. 8.2 - USERS MANAGEMENT Page with Granted Users List

8.3 – New User Insertion

8.3.1 - Functional Description

This function allows a new user to be entered in the system's user database.

8.3.2 - Detailed Description

Left clicking on "Users" in the Main Menu displays the drop-down menu illustrated in Fig. 8.1. Now clicking on the "New User" item displays the page shown in Fig. 8.3:



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8.3.3 - Possible Errors

The following errors are possible:

- "Password" and "Confirm Password" different;
- "Login" not specified;
- "Login" the same as that of an existing user.

In all these cases access is not allowed and the operator is informed of this with a specific message and given the possibility of returning to the login screen by pressing **"BACK"**.

8.4 – User Removal

8.4.1 - Functional Description

This function allows a user to be removed from the system database.

8.4.2 - Detailed Description

Left clicking on **"Users"** in the **Main Menu** displays the options in the drop-down menu illustrated in Fig. 8.1. Now clicking on the **"Remove User"** item displays the page shown in Fig. 8.5:

The image shows a rectangular dialog box titled "User Removal" in a bold, serif font. Inside the box, the word "Login" is positioned to the left of a drop-down menu. The menu currently displays the text "alarm" and has a small downward-pointing arrow on its right side. Below the "Login" label and the menu, there are two buttons: "OK" on the left and "Cancel" on the right. Both buttons have a 3D, button-like appearance with a shadow.

Fig. 8.5 - USER MANAGEMENT - User Removal Page

A drop-down list of user logins in the Database is displayed for the operator to select the user login to remove.

Press **"OK"** button : A confirmation dialog box is displayed to allow the operator to go back and check the data entered before finally issuing the command (see Fig. 8.6).



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The form is titled "Insert New User" and is enclosed in a rectangular border. It contains several input fields and two buttons at the bottom. The fields are arranged in two columns. The left column has a "Login" text field, a "Role" dropdown menu (currently showing "Supervisor"), and a "Description" text field. The right column has a "Password" text field and a "Confirm Password" text field. At the bottom center, there are two buttons: "OK" and "Cancel".

Fig. 8.3 - USERS MANAGEMENT - Insert New User Page

A form is displayed for the operator to enter the new user's data, including:

- **"Login"**: name of new user;
- **"Password"**: password associated with the new user;
- **"Confirm Password"**: password confirmation;
- **"Role"**: type of user profile associated with the new user;
- **"Description"**: note describing the new user.

Clicking on the **"OK"** button requests command execution. A confirmation dialog box is displayed to allow the operator to go back and check the data entered before finally issuing the command (see Fig. 8.4):

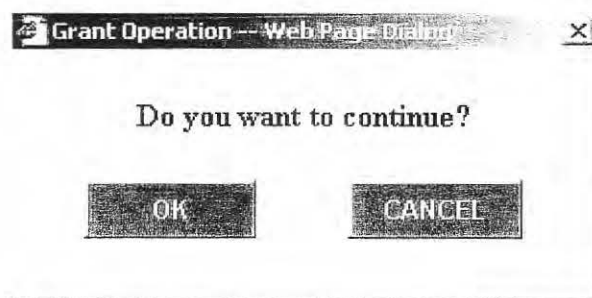


Fig. 8.4 – Operation Confirmation Window

At the end of the operation a result message is displayed.



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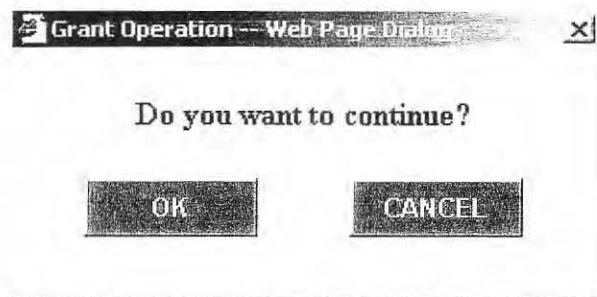


Fig. 8.6 – Operation Confirmation Dialog Box

At the end of the operation a result message is displayed.

8.5 – Change User Password

8.5.1 - Functional Description

This function allows a user password in the system database to be changed.

8.5.2 - Warnings and Precautions

Modification mode depends on the user profile of the operator connected to the OP-Center.

If the operator is a **Maintenance-Upgrade** or **System Administration** profile, users' passwords can be changed without knowing the old password.

8.5.3 - Detailed Description

Left clicking on **"Users"** in the **Main Menu** displays the drop-down menu illustrated in Fig. 8.1. Now clicking on the **"Change Password"** item displays the page shown in Fig. 8.7 (if the operator has a **Maintenance-Upgrade** or **System Administration** user profile) or in Fig. 8.8 (if the operator has a **User** or **Supervisor** user profile):



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Change Password

Login

Fig. 8.7 - USER MANAGEMENT - Change Password Page (Maintenance-Upgrade or Sys Admin users)

Change Password

Login

Fig. 8.8 - USER MANAGEMENT - Change Password Page (User or Supervisor Profiles)

Both contain a form for entering the following information:



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- **"Login"**: login name of user to change password;
- **"New Password"**: new password to enter;
- **"Confirm New Password"**: new password to enter, confirmation.

The screen in Fig. 8.7 also contains a list of the users stored in the database, whereas the one in Fig. 8.8 has a **Password** field in which to enter the old user password.

Clicking on the **"OK"** button requests command execution. A confirmation dialog box is displayed to allow the operator to go back and check the data entered before finally issuing the command (see Fig. 8.9):

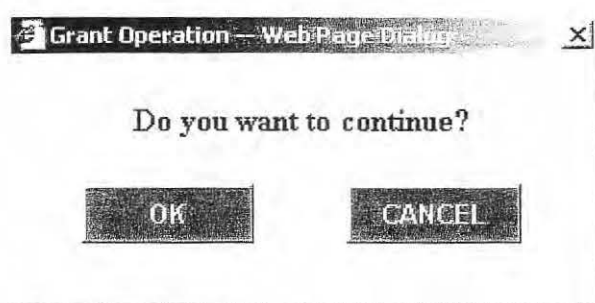


Fig. 8.9 – Operations Confirmation Dialog Box

At the end of the operation a result message is displayed.

8.5.4 - Possible Errors

The following errors are possible:

- **"New Password"** and **"Confirm New Password"** are different;
- **"Password"** incorrect (Fig. 8.8 only).

In all these cases the operation produces no result. The operator is informed by a specific message and given the possibility of going back by pressing **"BACK"**.



9 – OPERATION Logging

9.1 - Functional Description

The HCI incorporates a logging function to record the main operations carried out by the operators.

9.2 - Detailed Description

A file is created in the OP-Center OWA log folder at each system login.

The folder is C:\sitoweb\log.

Operations are stored in files with names in the following format:

<AAAA><MM><GG><HH><MM><SS>_<SessionId>_UserActions.txt

Where: <AAAA>	≡ 4 characters identifying year of creation
<MM>	≡ 2 characters identifying the month of creation
<GG>	≡ 2 characters identifying the day of creation
<HH>	≡ 2 characters identifying the hour of creation
<MM>	≡ 2 characters identifying the minute of creation
<SS>	≡ 2 characters identifying the second of creation
<SessionId>	≡ numerical characters identifying the session of creation

Logged operations include:

- User / HCI connection data;
- Alarm database queries;
- Hot List queries;
- Alarm Accept/Discard;
- Temporary Hot List Insert/Remove;
- Data Backup / Export.

9.3 - Examples

Fig. 9.1 gives an example of the start of an HCI logging file.

```
06-07-2004 15:27:26 - system (System Administration) - 172.19.0.31 - Mozilla/4.0
(compatible; MSIE 6.0; Windows NT 5.0; .NET CLR 1.1.4322) - Connection to WEB APPLICATION
06-07-2004 15:27:44 - Query 5/4/2004 15:00 - 6/7/2004 16:00 - alarms - gate - ALL -
06-07-2004 15:27:52 - Export Query Data
06-07-2004 15:28:04 - Backup Query Data
06-07-2004 15:29:46 - Query Hot List - 5/7/2004 0:00 6/7/2004 23:59 Temporary ALL
06-07-2004 15:29:05 - Query Hot List - 6/1/2004 0:00 6/7/2004 23:59 External ALL
06-07-2004 15:42:01 - Alarm Accept BT863ZA (0H) EvId 0000101200406040842128AB4
06-07-2004 16:23:27 - Hot List Insert Plate AA00BB (0H) 06/09/2004 Test Plate Insert
```



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06-07-2004 16:35:27 - Hot List Delete Plate AA000BB (OH)

Fig. 9.1 – Example of OWA Logging File Content

the rows show indicate the following operations:

- connection to HCI;
- alarm database queries;
- data export commands;
- data backup commands;
- Temporary Hot List queries;
- External Hot List queries;
- alarm accept;
- plate insertion in Temporary Hot List;
- plate removal from Temporary Hot List;

10 - On Line Help

10.1 - Functional Description

The HCI incorporates an online help function for operators. Clicking on "**Help**" in the main menu (see Fig. 4.1) displays a page containing basic system instructions. Fig. 10.1 shows the Help page.



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Traffic Monitoring System - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Go

http://127.0.0.1/smcv/layoutA.asp

Google Cerca nel Web 612 bloccati Opzioni

REMINGTON ELSAG **EL SAG**

AUTO-DETECTOR ANPR

Query Hot List Users Stats Logs Log Out Help Wednesday, May 18, 2005 12:04:38

Traffic Monitoring System

Pending Alarms
No Alarms pending

Latest Alarms

Search
Search for 'Alarms' collected and archived in the data base. As a key a time range or a partial/full licence plate can be used.
The query can also return the car plate image.

Hot List
Manage the temporary hot list. You can search for car plates, enter new car plates, remove car plates from the data base.

Alarms
When a licence plate in the hot list is detected, an alarm is generated and sent to the Operating Centre. Information contains: date and time of detection, location and the description associated to the event.

Users
The "Auto Detector ANPR" system is restricted to enabled users.
Each User is identified by a personal Login/Password pair.

Elsag a Finmeccanica Company Hot List Last Update: 05/09/2005 - 13:26:38 User: system
Wednesday, May 18, 2005 12:04:38 Internet

Fig. 10.1 – Help On Line Page

11 – System maintenance

11.1 - Functional Description

The System Administrator can access to a special SYSTEM Menu, which shows up only to users with the MAINTENANCE Profile. In Fig. 11.1 the System parameters changing frame is shown.



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Traffic Monitoring System - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Search Favorites

Address: http://127.0.0.1/srvcv/layoutA.asp Go

Google Cerca nel Web 612 bloccati Opzioni



AUTO-DETECTOR ANPR



Query~ HotList~ Users~ State~ System~ Logs~ Log Out~ Help Wednesday, May 10, 2006 12:36:06

System Parameters

Pending Alarms
No Alarms pending

Latest Alarms


Transits Deleting Period (Days)	1000
UPDATE	RESET
Alarms Deleting Period (Days)	1000
UPDATE	RESET
Temporary Plate Deleting Period (Days)	2
UPDATE	RESET

Elsag a Finmeccanica Company Hot List Last Update: 05/09/2005 - 13:26:39 User: stefano

Wednesday, May 10, 2006 12:36:06 Internet

Fig. 11.1 – System Parameters menu

The following parameters can be changed:

- **"Transit Deleting Period"**: the time interval in days of storage of transits data. The system automatically deletes any entry older than this period.
- **"Alarms Deleting Period"**: the time interval in days of storage of alarms data. The system automatically deletes any entry older than this period.
- **"Temporary Plate Deleting Period"**: the time interval in days of validity of plates inserted in the temporary Hot List. The system automatically deletes any entry older than this period from the current Hot List.