



**User Manual** 

Siera CMS Server and X-Pro Mobile (WEB version)

www.sieraelectronics.com



#### NOTICE

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The purpose of this manual is to kindly aid the user for the software installation and setup.

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# 1 Preface

After you get the software, please try to setup the PRO 6004 and the CMS to get video first according to *manual*.

This software includes 4 parts: message server, transmit server, media proxy server and client.

Message server is used for the register information of all the PRO 6004, online information, GPS information and deal with all kinds of commands.

Transmit server is used to transmit video, you must add and setup the PRO 6004 information first in the transmit server.

Client is for the video display, information display and the reception of the command from the administrators.

## 1.1 System requirements

1. Operating System:

Server : windows 2003/2008 server

Client: XP/WIN7 32bit or 64 bit for client

2. The computer must have the drive of DirectX. Please check as follows: Start-Run--input "dxdiag"

Run	? 🗙
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	dxdiag 💌
	OK Cancel Browse

Click on "OK"

ystem	DirectX Files	Display	Sound	Music	Input	Network	More Help			
Devi	ce							Drivers		
	N	lame: Mobil	e Intel(R	) 945GM	Expres	s Chipset F	amily	Main Driver: jalmrnt5.dll		
	Manufact	urer: Intel	Corporal	ion				Version: 6.14.0010.4446 (English)		
	Chip 1	Type: Intel(	R) Calist	oga Grap	hics Co	ontroller		Date: 2005-12-13 18:01:20		
	DACT	Type: Inter	nal					WHQL Logo'd: n/a		
Ap	prox. Total Mer	mory: 224.0	) MB					Mini VDD: ialmnt5.sys		
C.	irrent Display N	1ode: 1440	× 900 (3	2 bit) (60	Hz)			VDD: n/a		
	Mo	nitor: Plug	and Play	Monitor				DDI Version: 9 (or higher)		
(	DirectDraw Direct3D AGP Texture	Acceleratio Acceleratio Acceleratio	n: Enal n: Enal n: Not	oled oled Available	)	Disable Disable Disable		Test DirectDraw Test Direct3D		
Note	5									
:	No problems f To test Direct	'ound. Draw functi	onality, d	lick the "	Test Di	irectDraw*	button above	5.		

The Direct Draw Acceleration and Direct3D Acceleration must be enabled.

- 3. Microsoft .Net Framework 3.5 SP1 or above version should be installed before the CMS installation
- 4. MySql 5.1 data base will be installed automatically during the CMS installation
- 5. Please install OCX activeX according to the prompt when you apply video on IE for the first time.
- 6. IE version: Microsoft Internet Explorer 6.0、Microsoft Internet Explorer 8.0

### 1.2 Main features

The standard version CMS no need to register, it can manage 100 vehicles on center server of transmit server. The transmit server can transmit 48 channels concurrently to 3 clients (each has 16 video window) at the same time.

The CMS is functional which integrate the video transmission, remotely PTZ control, alarm, GPS tracking, local recording on CMS, alarm recording, and also it can show you the operating and alarm information on the log window. Also, you can change the interface to different mode easily.

Message server is used for the PRO 6004 register, GPS information and all the commands downloading. Transmit server is for the video transmission. Client, the user friendly interface, shows you all the information. Also, you can setup the PRO 6004 remotely from the client.



#### Main features:

- 1. Wireless Video/Audio transmission
- 2. GPS tracking: show the real-time location of the vehicle on map window with MapInfo & Google map.
- 3. GPS playback
- 4. Report query
- 5. Support IE browser client.
- 6. Send Email to administrator/user automatically once alarm is triggered.
- 7. Remotely PTZ control: control the PTZ on CMS, including change direction, pre-set position, call position.
- 8. CMS local recording: record the video from the CMS video window.
- 9. Alarm report system: receive the alarm information, and deal with this alarm information according to the settings.
- 10. Vehicle management: manage vehicle on the transmit server, show all the vehicle information on the client vehicle window to check the online information and do some operations remotely to the PRO 6004.
- 11. Multi-clients supported: support many clients connect to the server to apply video.
- 12. Remotely configuration: setup the GPS upload interval, IO setup, stream setup for video transmission and so on.



## 2 Server Installation

## 2.1 System requirement

 Server: 2003 server, 2008 server Message and transmit server: CPU: Quad- Core Xeon 5504\*2 RAM: 8GB, ECC DDR3 HDD:2\*320GB SAS HDD, 15K RPM Hotplug Ethernet card: 2\* 1000Mbps
 Client: XP/WIN 7 ( 32bit & 64 bit) CPU:Dual Core Intel(R) Pentium(R) Processor E5400,2.7GHZ RAM: 2GB, DDR3 HDD: 320G SATA 7200RPM Graphics card: NVIDIA GeForce G310

Ethernet card: Integrated 1000 M Ethernet

## 2.2 Installation

Please double click the "Siera CMS Server\_Spanish.exe" file to install the server.



Click on Next to continue

CMS Server_	3.0.1.26	×
Seleccion Seleccio	nar ubicación de destino me la carpeta donde se instalarán los archivos de configurad	ción.
	Instalar CMS Server a:	
	C:\Program Files (x86)\CMS Server	Cambiar
nstallShield <sup>—</sup> CMS Server_ Tipo de in Seleccio	< Atrás Pro 3.0.1.26 nstalación ne el tipo de instalación que se adapte a sus necesidades	óximo > Cancelar
CMS Server_ Tipo de in Seleccio mejor Seleccio	Atrás Pro 3.0.1.26 Instalación ne el tipo de instalación que se adapte a sus necesidades ne la versión que requiere	óximo > Cancelar
CMS Server_ Tipo de in Seleccio mejor Seleccio	Atrás Pro 3.0.1.26 nstalación ne el tipo de instalación que se adapte a sus necesidades ne la versión que requiere ndar	óximo > Cancelar
CMS Server_ Tipo de in Seleccio mejor Seleccio	Atrás Pro 3.0.1.26 Instalación ne el tipo de instalación que se adapte a sus necesidades ne la versión que requiere Indar Indar Indar (ADS)	óximo > Cancelar
CMS Server_ Tipo de in Seleccio mejor Seleccio © Están © Comp © Defin	Atrás Pro 3.0.1.26 nstalación ne el tipo de instalación que se adapte a sus necesidades ne la versión que requiere ndar oleto(ADS) ido por el usuario	óximo > Cancelar

Click on Install to start the installation.

### 2.2.1 IP & Port configuration

After the installation is finished, you need to setup the port so that the SIERA CMS SERVER can get register/alarm/GPS/ video from the vehicle.

Configuración de puer	rto de servidor
Por favor configure el pu predeterminado, por favo	uerto, se recomienda a los puertos por defecto. si se utiliza el puerto ror, cambie a otro.
Puerto de mensajes	5555
Duada da Midaa	7263
Fuelto de Video	
IP	192.168.0.42

These ports are the default ports. For 3G transmission, please make sure you have opened these ports:

During the installation, it will read the local IP automatically,

CMS Server_3.0.1.26 Instala Servicio Web			V	
Instale servicio de Wel	WCMS3.0			
Puerto de dato	7250			
nstallShield		< Atrás	Próximo >	Cancelar

If you test the PRO 6004 and CMS in LAN (WIFI or RJ45 cable), then please don't change this IP. But if you test 3G transmission, please setup the IP as WAN IP here.

After the installation, on the right down bottom, there is a server icon

Server			
onfigurar Instalar servido	r Ayuda		
Control			
Iniciar el servidor	Detener el servidor		
Nombre del servidor	Estado	Descripción	
Servidor de control	Ejecutar normalmente		
Servidor de mensajes	Ejecutar normalmente		
Servidor de transmisión	Ejecutar normalmente		
YPro Mobile Service	Ejecutar normalmente		
i Servidor de Email	Ejecutar normalmente		
ADS(servicio de desc	<ul> <li>Ejecutar normalmente</li> </ul>		

The green icons in front of each server means it run normally, otherwise, please check the installation, or click on this server— Install server—uninstall current server first—Install the current server again.

Double click on the message server to check the online information of vehicle and client.

nt list			- Device L	.ist				
ine	Server IP	Time	Online	Deivce ID	Device IP	Vehicle plate	Time	
es	127.0.0.1	14:55:38	Yes	1438	127.14.38.55	1438	14:55:38	



# 3 Guide for SIERA CMS SERVER

## 3.1 Supported browser

Microsoft Internet Explorer 6.0, 8.0, 9.0 and above.

## 3.2 Login

You must login the server for the management of vehicle and user. When login, you need to put IP+ port. If on the server PC, put <u>http://127.0.0.1:7260</u> in the IE address bar; for remote server, put the IP of PC and the port like <u>http://58.60.23.1218:7260</u> Note: "http" here is essential. The default administrator User name and password is: admin/admin. This user has the authority of managing all vehicles and all users.



## 3.3 Home page

The layout of the home page is as following, vehicle fleet, map and the alarm information.



G		ttp://36.00.231.221:/200/Index	Page/Index.aspx:guid=29100	080-2001-4077-8184-9	48458228030	-			P -
x	<u>b</u> -								
🔶 Fi	avorites 🛛 🍰	🍪 WCMS (3) 🔞 WCMS (2	) 🚯 WCMS 🔁 Suggester	d Sites 🔻 😰 Web Sli	ce Gallery 🔻				
S XI	Pro Mobile							🟠 🔹 🖾 👻 🗁 👼 🔹 Bage 🔹	Safety ▼ Tools ▼ 🔞 ▼
		XPro Mobi Versión:3.0.1	le 🎤 Basic Function 🕶	📕 Report Manage 🕶	🚯 System Manage	•			<i>🄑</i> 📖 🎯
Monit	or center	~	AHomepage						
Bi V	ehicle No. 🔻 Pl	lease Enter The Keywo 🔍 🤹	8		ţ				Map Satellite
1	25 1	1 1 113							
4	• All •	Normal • Alarm •		+					
S	NOX	Normal		R. Gio	Vanni D.				
-					valini Battista Pi	relli			
60	NOON	Alarm	7/				-+	C . TIM	
P			V/A S	11 .				R. C. Giova	G
5-D			V B	Conan Ind Com Produtos Eletro				Slovanni Bar	HOMEHO
-	12816	Static		Eletrônicos				Battie D.	- HEUN
<b>-</b>			Google 200 ft		100			Map data @2013 MapLink - Terms	of Use
5-0			Time	Company/Group	Vehicle No.	Speed	Alarm/Fault Type	Alarm/Fault Content	
60			07/08/2013 10:28:50	Power	NOON	101	Speed Alarm	Current speed:101KM/H (10KM/H-100KM/H) d	lurativ
Ş									
60									
5	AlamiG	OfflineAbout6Day							
5	EVE001	Static							
Ş									
Ş			10 - 14 4 Pi	ge 1 of 1	1 3				Displaying 1 to 1 of 1 items
-								<b>O</b>	
Done								Unternet   Protected Mode: On	🖓 🔹 🔍 100% 🔹

- - ×

Vehicle fleet:

Green means online vehicle without alarm

Red means online vehicle which has alarm

Click on one vehicle to show the real time location of this vehicle, also, the details will be shown below the vehicle icon

<b>\$</b>	KF00003 NOXXON 2	Static Normal <u>Video GPS Playback</u>	E				NOXXON 2 2 0 5	14
Comp	oany/Team: Pow Speed: 54 K Longitude: 118. Time: 07/0 Position: <sup>Ling:</sup>	erconn M/H Direction: South 394611 Latitude: 29.131697 3/2013 13:03:25 shan Road	Google 50 m				<u>X605</u>	Automobile Repair Center Man data 92013 AutoNavi, Google - <u>Te</u>
S	02011	OfflineAbout11Day	Time	Company/Group	Vehicle No.	Speed	Alarm/Fault Type	Alarm/Fault Content
Ş	FTZ422MP		07/08/2013 13:00:47	Powerconn	NOXXON 2	0	IO Alarm	Alarm Source:1 ()
Ş	12816	Static	07/08/2013 13:00:19	Powerconn	NOXXON 2	0	IO Alarm	Alarm Source:1 ()
-			07/08/2013 12:59:29	Powerconn	NOXXON 2	0	IO Alarm	Alarm Source:1 ()

## 3.4 Basic function

Basic function is for company/group, vehicle, device and user management



### 3.4.1 Company management

🥜 Basic Function 🔻 📑 Report Mana	ge 🔻 🔅 System Manage	•			
🟠 Homepage 📔 Company Manage	e ×				
📴 Group/Company 🔍	🔄 Transportation Ente	erprise Managemen	ıt		
🚞 center	1) 2) Add 🥥 Delete	Export Group	)/Company Keyword	🔍 🄶 R	eset
1	Operate	Group	Superior	Type	Addres
	Edit	center		Group	

#### 1) Add a company/group

Click on Add button to add a company/group

<b>(</b>									
	Name:	test	*	Superior:	center	~	*	Type:	Group
	Phone Number:			WAN IP:	58.60.231.221			Transmit Port:	17891
	Address:								
			V	Apply	X Cancel				

Name: company/group name

Superior: choose father group

Type: Company or group

Phone Number: not necessary

WAN IP: the server's WAN IP address, so the client in WAN can apply video from this server.

Transmit Port: 17891 this port is for video out to Xpro Mobile from the server.

Address: company address, not necessary

After input the above information, click on Apply button to save to database, click on Cancel to return.

2) Delete a company/group

Choose a company/group to delete.

3) Export a company/group



Export the company/group information to local disk, this information is saved to a excel document.

### 3.4.2 Vehicle management

		S Keload Group	Vehicle No. Key	vord	~ Pr R	leset
	Operate	Vehicle No.	Group			
<b>Add d</b> Click	on Add	to add a vehicl	e, input the veł	nicle No. an	d then choose	e the group for this
4	Vehicle Manage >	<				
4 Ve	hicle List					
V	ehicle No.: demo	3	G	oup Belong: tt		
Vi	ehicle No.: demo re/Edit a vehic	le	G	Apply	Cancel	
Va Delet	ehicle No.: demo re/Edit a vehic <b>'ehicle List</b>	le	Gr V	Apply	Cancel	
Delet	ehicle No.: demo re/Edit a vehic rehicle List Add \ominus Delet	te 😵 Reload Grou	up Vehicle No. K	Apply	Cancel	Reset
Delet	ehicle No.: demo re/Edit a vehic fehicle List Add © Delet Operate	te 😵 Reload Grou Vehicle No.	up Vehicle No. F Group	Apply	Cancel	Reset
Delet	ehicle No.: demo re/Edit a vehic fehicle List Add © Delet Operate Edit   Delete	e SReload Grou Vehicle No. demo	up Vehicle No. H Group test	Apply	Cancel	Reset
Va Delet	ehicle No.: demo re/Edit a vehic 'ehicle List Add © Delet Operate Edit   Delete Edit   Delete	e SReload Grou Vehicle No. demo test	ap Vehicle No. F Group test test	Apply	Cancel	Reset

1) Add a device



Click on Add to add a device, input the Device ID, Sim Card Number, group, vehicle N., and so on.

evice List					
Device ID:	1436	*	Sim Card Number:	15813821022	4
Company/Group:	test	*	Vehicle No.:	demo	~
WAN IP:	58.60.231.221		Channel Count:	4	
Transmit Port:	17891		Install Person:		
Install Date:	0				

2) Delete/Edit a device

Choose a device and then click on <u>Edit | Delete</u> to edit/delete one device, or choose several device

and click on Other to delete all of them.

٠	Add 🥥 Delete	🔹 Refresh Group	Device IE
	Operate	Device ID	Vehicl
7	Edit   Delete	1436	der

## 3.4.4 User management

1) Add a role(user group)

Role	< 🤱 User		
🚳 system	Role user	Superior Role system	
	Group Authority	Operation Authority	P
			in Australian
	E Center E Center E test E Center E test E Center E test E Center E	Image: Second	Open Video     O
2 2 2 2 3	Homepage System	Device Management     Alarm Configuration	User Management

name, assign a vehicle group for this role, and limit the authority for this role.

following two mark to edit/delete a role.

After the user under this group login, he can only see his own vehicle group and do the operations in right part which is tipped.

#### 2) Add a user



PRO					
Role	user	~	*	User	cannie *
Password	•••••		*	Name	cannie
Phone Number				Email	
MSN					
	Apply			💥 Ca	ancel

Click on Apply button to save the user information

### 3) Delete/Edit a user

🕀 Add 🥥 Delete								
	Operate	User	Real Name					
	Edit   Delete	cannie	cannie					
<b>V</b>	Edit   Delete	Ray	ray					

Choose on user and click on Edit | Delete to Edit/Delete a user, for multi user delete, click on Orbitation delete them after choosing them.



## 3.4.5 Change password

on 🔻 📑 Report Manage	▼ 🎲 System Manage ▼					$\bigcirc$
📣 User Manage ×						
Change Password						
Old Password	••••	]				
New Password			Telep	ohone	Email	MSN
IVEW I assword						
Confirm Password	•••••					
Ch	nange Password					

If you want to change the password, please click on the key button in right-top corner.

## 3.5 Report form

#### 3.5.1 GPS information

A Homepage	B GPS Info ×					
<b>Vehicle Positioni</b>	ng Information S	tatistics				
Company/The Team:	Demo	~	Start Time:	2013-07-07 10:47:34	Query	Print
Vehicle No.:	50116	~	End Time:	2013-07-08 10:47:34	 Export	)

Choose a group/vehicle and setup the start time/end time to get the GPS information.

### 3.5.2 GPS detail information

Choose a group/vehicle and setup the start time/end time to get the GPS information



System Time	GPS Time	Vehicle No.	Company	Speed (KM/H)	Longitude	Latitude	Direction
07/08/2013 09:40:16	07/07/2013 19:54:20	NOX	Power P	0	-46.580433	-23.618488	West
07/08/2013 09:40:16	07/07/2013 19:54:30	NOX	Power P	0	-46.580433	-23.618488	West
07/08/2013 09:40:16	07/07/2013 19:54:39	NOX	Power P	0	-46.580433	-23.618488	West
07/08/2013 09:40:16	07/07/2013 19:54:49	NOX	Power P	0	-46.580433	-23.618488	West
07/08/2013 09:40:16	07/07/2013 19:54:59	NOX	Power P	0	-46.580433	-23.618488	West
07/08/2013 09:40:16	07/07/2013 19:55:10	NOX	Power P	9	-46.580465	-23.618525	West
07/08/2013 09:40:16	07/07/2013 19:55:19	NOX	Power P	18	-46.580978	-23.618522	West
07/08/2013 09:40:16	07/07/2013 19:55:30	NOX	Power P	18	-46.581107	-23.618330	North
07/08/2013 09:40:16	07/07/2013 19:55:39	NOX	Power P	36	-46.580965	-23.617597	North
07/08/2013 09:40:16	07/07/2013 19:55:50	NOX	Power P	54	-46.580735	-23.616330	North
07/08/2013 09:40:16	07/07/2013 19:55:59	NOX	Power P	38	-46.580350	-23.615268	East
07/08/2013 09:40:16	07/07/2013 19:56:10	NOX	Power P	18	-46.579293	-23.615242	East
07/08/2013 09:40:17	07/07/2013 19:56:20	NOX	Power P	0	-46.579237	-23.615265	East
07/08/2013 09:40:17	07/07/2013 19:56:30	NOX	Power P	0	-46.579237	-23.615265	East

## 3.5.3 Vehicle alarm

### List out the alarm time/type information

A Homepage	🗧 GPS Details × 📋	Vehicle Alarm ×				
🔁 Vehicle Fault	Alarm Statistics					
Company/Team:	Power P N	Vehicle No.: Check All	EVE001,EVE00 V	Start Time: 2013-0	7-07 10:56:23 💼 🔍 Query 🕞 Print	
		Type: Check All	,IO Alarm,Disk f 🗸	End Time: 2013-0	7-08 10:56:23 💼 📴 Export	
System Time	GPS Time	Vehice No.	Company	Type	Information	Speed (KN
7/08/2013 09:01:50	0 07/07/2013 15:38:56	NOX	Power P	Speed Alarm	Current speed:101KM/H (10KM/H-100KM/H) duration: 6s	101
7/08/2013 09:01:50	0 07/07/2013 15:40:07	NOX	Power P	Speed Alarm	Current speed:103KM/H (10KM/H-100KM/H) duration: 6s	103
7/08/2013 09:01:50	0 07/07/2013 15:40:43	NOX	Power P	Speed Alarm	Current speed:101KM/H (10KM/H-100KM/H) duration: 6s	99
7/08/2013 09:01:50	0 07/07/2013 15:41:52	NOX	Power P	Speed Alarm	Current speed:104KM/H (10KM/H-100KM/H) duration: 6s	104
7/08/2013 09:01:51	1 07/07/2013 15:49:42	NOX	Power P	Speed Alarm	Current speed:101KM/H (10KM/H-100KM/H) duration: 6s	101
7/08/2013 09:01:51	1 07/07/2013 15:51:28	NOX	Power P	Speed Alarm	Current speed:101KM/H (10KM/H-100KM/H) duration: 6s	101
7/08/2013 09:01:51	1 07/07/2013 15:52:24	NOX	Power P	Speed Alarm	Current speed:101KM/H (10KM/H-100KM/H) duration: 6s	101
7/08/2013 09:01:51	1 07/07/2013 15:53:08	NOX	Power P	Speed Alarm	Current speed:104KM/H (10KM/H-100KM/H) duration: 6s	104
7/08/2013 09:01:51	1 07/07/2013 15:55:46	NOX	Power P	Speed Alarm	Current speed:103KM/H (10KM/H-100KM/H) duration: 6s	103
7/08/2013 09:01:52	2 07/07/2013 15:57:40	NOX	Power P	Speed Alarm	Current speed:103KM/H (10KM/H-100KM/H) duration: 6s	103
7/08/2013 09:01:52	2 07/07/2013 15:58:23	NOX	Power P	Speed Alarm	Current speed:103KM/H (10KM/H-100KM/H) duration: 6s	103
7/08/2013 09:01:53	3 07/07/2013 15:59:22	NOX	Power P	Speed Alarm	Current speed:104KM/H (10KM/H-100KM/H) duration: 6s	104
7/08/2013 09:02:00	0 07/07/2013 16:33:56	NOX	Power P	IO Alarm	Alarm Source:1 ()	9
7/08/2013 09:02:00	07/07/2013 16:36:58	NOX	Power P	IO Alarm	Alarm Source:1 ()	0

## 3.5.4 Over speed

	Start Time	End Time	Statistical Duration	Overspeed Count
07/	07/2013 10:58:27	07/08/2013 10:58:27	1 Day 0 Hour 0 Minute	0
07/	07/2013 10:58:27	07/08/2013 10:58:27	1 Day 0 Hour 0 Minute	0
07/	07/2013 10:58:27	07/08/2013 10:58:27	1 Day 0 Hour 0 Minute	0
07/	07/2013 10:58:27	07/08/2013 10:58:27	1 Day 0 Hour 0 Minute	0
07/	07/2013 10:58:27	07/08/2013 10:58:27	1 Day 0 Hour 0 Minute	42

## 3.5.5 User online

Display the user's login/log out time.

-PR	0			
A Homepage	User Online	e ×		
SUsers Online	Statistics			
Role: system	~	Start Time:	2013-07-07 10:59:42	Query Print
User: Check All	admin 🗸 🗸	End Time:	2013-07-08 10:59:42	Export
User	Online Tin	ne	Offline Time	Online Duration
admin	07/08/2013 08	:29:40	07/08/2013 08:35:10	0 Day 0 Hour 5 Minute
admin	07/08/2013 08	:35:15	07/08/2013 09:04:36	0 Day 0 Hour 29 Minute
admin	07/08/2013 08	:54:58	07/08/2013 09:09:11	0 Day 0 Hour 14 Minute
admin	07/08/2013 08	:54:58	07/08/2013 09:15:01	0 Day 0 Hour 20 Minute
admin	07/08/2013 09	:11:57	07/08/2013 09:15:57	0 Day 0 Hour 4 Minute
admin	07/08/2013 09	:16:05	07/08/2013 09:55:03	0 Day 0 Hour 38 Minute
admin	07/08/2013 09	:21:52	07/08/2013 09:22:29	0 Day 0 Hour 0 Minute
admin	07/08/2013 09	:21:52	07/08/2013 09:42:03	0 Day 0 Hour 20 Minute
admin	07/08/2013 09	:22:49	07/08/2013 10:11:44	0 Day 0 Hour 48 Minute

### 3.5.6 User details

Show you what the user has done after login.

	Homepage	S User	Online	× SUS	er Details ×				
S U	ser Operatio	ns Log Sta	tistics						
Role	system		~	Log Source:	wcms	~	Start Time:	2013-07-07 11:00:06 💼 🔍 Query 🖨 Print	
User	Check All,a	ıdmin	~	Log Type:	Check All,Add	Group,Edil 🗸	End Time:	2013-07-08 11:00:06 🔤 🚱 Export	
	Date/Time		Us	er	Log Source	Log Typ	e	Log Content	Rema
07	08/2013 08:3	1:08	adr	nin	wcms	Delete Dev	vice dns:	ndvr0001;dns:mdvr0002;dns:mdvr0003;dns:mdvr0004;di	
07	08/2013 08:3	1:18	adr	nin	wcms	Delete Dev	vice dus:	ndvr0021;dns:mdvr0022;dns:mdvr0023;dns:mdvr0024;di	
07	08/2013 08:3	4:5 <mark>2</mark>	adr	nin	wcms	Delete Gro	oup	moni	
07	08/2013 08:3	5:31	adr	nin	wcms	Delete Dev	vice dns:1	53R01;dns:\$2802;dns:X11801;dns:X301;dns:X303;dns:5	
07	08/2013 08:3	5: <mark>4</mark> 1	adr	nin	wcms	Delete Veh	icle <mark>d</mark> ns::	ndvr0021;dns:mdvr0022;dns:mdvr0023;dns:mdvr0024;dr	
07	/08/2013 08:3	5:57	adr	nin	wcms	Add Vehi	cle	moni	
07	08/2013 08:3	6:08	adr	nin	wcms	Add Devi	ice		
07	08/2013 08:5	4:10	adr	nin	wcms	Query Rep	oort	User Details	

## 3.6 System management

## 3.6.1 Alarm message and Mail configuration

This function is for server to send email/short message when certain type alarm information is reported to server.

A Homepag	ge 🚺 User Online 🗙	User Details ×	🍪 Alarm Message An	d Mail Configuration ×				
🚞 Alarm Ma	il Configuration							
Alarm Type	Phone Num.	N	Iessager	Recipients(Use ';' Separation)	* * * * *	Send Frequency	Time	*****
IO Alarm	15813909866	IO alarm	* *	test@sieraelectronics.com	÷	Immediately	-	
D' 1 E 1				1	_			

Send frequency



Immediately: once server receives IO alarm, send email or SMS to administrator immediately.

**O'clock:** send the alarm information on clock. For example, you setup it as 8:00:00 ~16:00:00. Then the server will send all the alarm information between 8 ~9 to administrator at 9 o'clock. The other alarms happened exceeds this time range won't be send.

**Timing:** send all the alarm information to administrator at the setup time.

### 3.6.2 Alarm message and Mail configuration

Setup the servers sender email account.

-									
<ul> <li>Basic Function • E Report Manage • System Manage •</li> <li>6</li> </ul>									(
Alarm Message And Mail Configuration × 🍪 Configure Account For Message And Email ×									
	Account For Message								
	User Name:	test		1	Password:	*****			]
_	Account For Email			'					
	Email Address:	test@gmail.	com	Di	splay Name:	Test			
	User Name:	test	test		Password:	*****			
	Smtp Server:	smtp.gmail.c	smtp.gmail.com		Port:	25			]
	Subject:	alarm			Body:	Test			]
				Save					-

## 3.7 Video

Click the vehicle in left part vehicle list, and choose Video to open the video on IE page. For the first time to open a video, it will show you to install active X.





## 3.8 GPS Playback

Click on the vehicle icon and choose GPS playback

📄 Playlist

Date has GPS info[Highlight]

•	( j	ul	20	13	Þ	₩
Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Then pull down the bar to setup the start time and end time for GPS route

Playli	st						
1	•	1	10	**	12		
14	15	16	17	18	19	20	
21	22	23	24	25	26	27	
28	29	30	31	1	2	3	
4	5	6	7	8	9	10	
search!							
		se	arch!				
tart ime:	20	se 13-07	arch! 7-06	10:3	8:3	5 [	11
Start Yime: End Yime:	20 20	se 13-07 13-07	arch! 7-06 7-08	10:3 10:5	8:3! 0:4	5	

Then click on Load Tracking Line to playback GPS route



The alarm information during this period will be listed out below.



# 4 Xpro Mobile

Please double click the "Cms Xpro Siera.exe" file and click NEXT to finish the installation.

## 4.1 Network Setup

X-PRO Mobile CM	S 2.0.3.24						
Р	RO						
Servidor	127.0.0.1:7260						
Usuario	admin 💌						
Contraseña	*****						
Avanzado	Recordar OK Cancelar						
Predetermi							
— Servidor de me	Servidor de mensajes						
IP	192.168.0.100						
Puerto	5556						

Sever IP is the IP of the PC installed transmit sever, if transmit sever is in LAN with Xpro Mobile, the sever IP should be LAN IP. If you connect to sever via WAN, then the IP should be public IP. If the message server and the transmit server are on the same PC, and the port is default 5556, then you can tip Default. Otherwise, please input the message server and port below.

User name and Password: ask the administrator to create for you, and define your authority.



## 4.2 Functions on GUI



### 4.2.1 Check version



click on "X-PRO" to check the version number.



### 4.2.2 Window mode



Three button to change to window mode.

Video: video only.



Map: map only.

Video/Map: show video window and map together as the picture above.

### 4.2.3 Vehicle tree



(1) Type in all or part of vehicle ID, click on search button, it will list all the vehicles matched.



2

: This is used to refresh the vehicle list.

(2) A3 is the group name, click on this 📧 button to expand and show all the vehicles in this group.



(3) If the car icon is 🔳 🚍 1101 green, it means this PRO 6004 is online, then you can apply for video or

right click on it to do some operation. And click on the 📧 button to show all the cameras. 11019 is the vehicle name. dns:0000 in the bracket is the PRO 6004 ID.

(4) If the car icon is gray, it means this car is offline.

(5) The white cameras of the first 3 channels means there is no video data transmitted, while the black one on the 4th channel means applying for video of this channel.



#### 4.2.4 Right click menu

Right click on the online vehicle to do the following operations:



### **GPS Setup:**

Setup the GPS upload interval. If you choose close upload GPS, you cannot see the green icon on the map.

GPS setup 02009	N 1997
C Close upload GPS	02009: Device ID
Open upload GPS	
Interval	10 Second
	OK Cancel



## Stream setup:

SetStream					
Net Mode	Mode 2	Ţ			
Video Mode	PAL	V			
Total Band Width	4096	kbps (20 - 409	96)		
1 - 4					
	Enable	Resolution	Frame	Quality	Bit
Channel 1	ON 💌	CIF	18 💌	1 👻	1024
Channel 2	ON 💌	CIF	18 💌	1 🔻	1024
Channel 3	ON 💌	CIF	18 💌	1 -	1024
Channel 4	ON 💌	CIF	18 💌	1 💌	1024
Cult Characteria a sec	de Tra				
Sub Streaming Col	de jrix	•			
					Ok Cancel

Here you can setup some parts of the upload stream parameters, so if the transmission speed is not so good, you can change the total bandwidth and the frame to get a better speed.



IO setup:

🏭 Set IO		X
1 - 3		,
	name	Level
1	121	Low
2	122	Low
3	123	Low
		Ok Cancel

Setup the IO output of the PRO 6004 remotely, you can control the vehicle remotely.

## Mileage setup:

<b>L</b> ileage setup		
Total mileage		
309	Km (0-2000000Km)	
	ОК	Cancel

Setup the total mileage of the vehicle.



Intercom:

Intercom - 20100602	X
	•
Start	Stop

For the interphone function, it needs both the CMS and the device has audio input and output.

Attention: if you want to use this function, please follow the steps:

1) On the PRO 6004, only the fourth channel can be used as the audio input. For the audio output you can use the AV out or AV cable of the rear panel or the Audio out on the front panel. Please make sure the monitor has the sound amplifier function, otherwise you cannot hear audio output.

For the audio in on PRO 6004, if you use the BNC cable, you need to connect a sound pick-up, the device built-in the camera. It is different with the microphone. The main parameters of the sound pick-up are as following:

Resistance:  $600\Omega$ ; Peak-to-peak value: 1VPP

If you use DIN-jack cable, it is more easier, just connect the camera with audio in function to this cable is OK.

2) Please make sure the function is enabled on the PRO 6004, as the below picture, and the audio of  $4^{th}$  channel must be enabled.

SETUP—RECORD—CHANNEL SETTING.



## Broad cast:

First, choose the vehicle, or select one group to choose all the vehicles, and then click "start" to broadcast.

919188891			×
	Device ID	Status	

Send message: the PRO 6004 must connect a control panel to support this function.



Please choose the car on left part, choose the position where this message wanted to be shown, choose the show time and input the content in the bottom blank, when the control panel receives this message, it will read it out automatically.

### Upgrade:

Please click on \_\_\_\_\_ to choose the firmware, and click on Start button to continue the remotely upgrade.

PRO	
<b>Upgrade - 20100602</b>	
0%	
	Start Cancel

**3G dormant:** This command will make the 3G module standby, the PRO 6004 keep on recording .

Remote Restart: Restart the PRO 6004 remotely.

Remote Shutdown: Shutdown the PRO 6004 remotely.

*Listen:* click on one channel to listen the voice from the device.

You can get the voice from the device without open the video to reduce the data transmission. When you use the interphone function, the fourth channel will be occupied, so on the Xpro Mobile you cannot hear the voice of this channel even open the volume switch.





4.2.5 Video & transmission Info.



(1) There is only one No. for each video window. When you apply for video, it will show the PRO 6004 ID behind the window No..

(2) After get video, it will show the date and time on the screen of PRO 6004.

(3) Show the channel name on this window.

(4) Snapshot can be used after get video. The same function with snapshot in list after right click. "X" means close this video.

(5) Right click on the video window, you can do the following operations:





## Close video:

Only close the video, but remain the device ID and Channel No. on this window, so next time you can choose 5) open video to open this channel video automatically in this window.



**Snapshot**: Get picture of current window. The save path is configured in system setup. Or click on the camera icon to snapshot



**Record:** click to record this channel and save to PC. There will be an "R" on right top of this channel.

Note: record means record the video from the CMS, and save path is the one setup in system. And once the network disconnect, it will pack; otherwise pack it every 30 minutes.

**Open video:** only available when close one channel.

Open all: click to open all closed channels

**Clear Data:** clear all the data of the window you choose, shown as the blow picture, no channel information stays in this window.

*Clear all the data:* clear all the data of all the current open windows.

Scale: 3 options: default is fulfill the screen; 4:3; 16:9

Full screen: Full screen this channel.



on the video window.

4.2.6 GPS playback

Click 4 6 8 16 to change the window number.

#### (8) Page up and down button



Page up/ page down



GPS playback is playback the GPS route of this vehicle of specified time slot. Please follow the steps to



playback:

2.

1. Click on this icon to choose a device first.

Wed Thu Fri
2 3 4

The red dot on the calendar means there is GPS data at that day. Choose the data please.

- 3. Setup the start time and end time
- 4. Click on search to get the GPS data



Buttons for playback operation: slow, pause/start, fast. X5 is the current

speed.

6. This is for alarm information. It will load all the alarm information when loading GPS data. You can double click on the alarm information to locate the GPS position.

### 4.2.7 Log query

Click on the log query button on right top of the main interface to check the log. It will link to the IE, please login the IE using your own User name and password. Go to report—system log

Functions navigation	~	Home page	query 🗵						
📴 Vehicle group	+	System log							
Functions navigation     Image: Construction       Wehide group     Image: System log       Basic function     Image: CMS client     Log source CMS client       Report     Image: CMS client     Log type Snapsho       Report     Image: CMS client     Log type Snapsho       Report     Image: CMS client     Image: CMS client       Report     Im	Snapshot,Open vide	o,Stre 🗸 User admi	n	✓ Start time 2011-3-3	🖸 00:00 👻 End time 2011-3-3	🖻 23:59 👻 📸 Query 🕞 Pri 🗘			
Report	-	<							>
GPS report Speed report Mileage report Temperature report Alarm info. report System log Error log		Date	Time	Туре	User	Source	Content	Remark	

Setup the source, type, user and time to search.

### 4.2.8 Geo fence

### Create fence:

There two ways to enter into the GEO fence setup. Click on the Geo fence button voice, or click on the vehicle





icon and choose GEO fence

Name	Alarm na	me	
interchange 相近立交			
Me Rese IBM			
A CONTRACTOR			
international California			
	1		
Create	Edit	Delete	
Link to a	vehicle		

Click on Create button,



-PRO

Please enter into the Fence name, choose alarm type, setup alarm name and the trigger time.







1 <u>1</u>	Res	ervoir
Name	Alarm name	=07.49-
Geo 1	Line 1	
Create	Edit Delete	
Link to a vi	ehide and materia	
Import	Export	OK

Click on OK button, the fence will be shown on the list.

5ZGJ0004				×
Fence info, includ	led by SZGJ000 <mark>4</mark>	All fences	* Apaitment antum	in the
Name	Alarm name	Name	Alarm name	
geo3	IO alarm in fence	Ge0 2	Enter into fence alarm IO alarm in fence	
		Picont		SZGJ000
o'an		Vinke Vernin Horreland		
ES /		Exploped Following Electronic		
Create	The same config to other vehicle	Upload the fence t	o this vehicle	
	Fence management			
				Exit

## Link to vehicle:



When choose this fence, it will be shown on the map, and then click on Link to a vehicle button, to bind it to vehicles.







#### Click on OK to finish the setup.

Device ID	Туре	Information
dns:SZGJ0002	GPS receiver fa	
dns:SZGJ0002	Alarm Lifting	GPS receiver fault alarm;
dns:A301	Speed alarm	Current speed: 0.36 (0.00 KMH-0.30 KMH) duration: 0
dns:A301	Alarm Lifting	Speed alarm;
dns:A301	Speed alarm	Current speed: 0.36 (0.00 KMH-0.30 KMH) duration: 0
dns:A301	Alarm Lifting	Speed alarm;
dns:A301	Speed alarm	Current speed: 0.34 (0.00 KMH-0.30 KMH) duration: 0
dns:SZGJ0004	GPS receiver fa	
dns:SZGJ0004	Alarm Lifting	GPS receiver fault alarm;
dns:A301	Alarm Lifting	Speed alarm;
dns:A301	Speed alarm	Current speed: 0.40 (0.00 KMH-0.30 KMH) duration: 0
dns:A301	Alarm Lifting	Speed alarm;
dns:A301	Speed alarm	Current speed: 0.34 (0.00 KMH-0.30 KMH) duration: 10
dns:A301	Alarm Lifting	Speed alarm;
dns:A301	Speed alarm	Current speed: 0.34 (0.00 KMH-0.30 KMH) duration: 0
dns:A301	Alarm Lifting	Speed alarm;
dns:A301	Speed alarm	Current speed: 0.34 (0.00 KMH-0.30 KMH) duration: 23
dns:A301	Alarm Lifting	Speed alarm;
dns:SZGJ0002	GEO fence alar	Enter into fence alarm Name: Ge0 2;

So when the vehicle triggers alarm, it will be shown on the alarm log window as below.

Enter into fence alarm is alarm name.

Ge02 is fence name.

Note: this only gives an alarm log, if you want the CMS to record or play sound, please go to alarm setup in system setup.

## Export/Import fence:

This is used to save the fence information, so when you upgrade the CMS, no need to re-create them again. Choose the fence and click on Export button to save it as a \*\*.areas file. Otherwise, if you click on Export button, it will save all the fences information.

Click on the Import button and choose the .areas file to load the fence.

### 4.2.9 Download

As CMS is mainly used for 3G real-time monitoring, so when you download the whole video file, please take the 3G network and cost into consideration. Also it support remotely clip which can reduce the cost.

Click on the download icon on right top of the main interface.

PRO								
	search Do	wnload Playback (	Config					
	Index	Device ID	File type	Date	Time	Channel	Size(MB)	~
F	2)	dns:SZGJ0002	Normal	2011-03-04	08:00:41-08:15:4	1 1	111.75	
+ SZGJ0003 (dns:SZGJ0003	3) _ 🛛 🖓 2	dns:SZGJ0002	Normal	2011-03-04	08:15:41-08:30:4	1 1	112.00	
1+ SZGJ0004 (dns:SZGJ0004	n □ 🚱 3	dns:SZGJ0002	Normal	2011-03-04	08:30:41-08:45:4	1 1	111.25	
+ SZGJ0005 (dns:SZGJ000	5 □ 3 4	dns:SZGJ0002	Normal	2011-03-04	08:45:41-09:00:4	1 1	111.06	
F SZGJ0006 (dns:SZGJ0006	5	dns:SZGJ0002	Normal	2011-03-04	09:00:41-09:15:4	1 1	111.25	
(7/25)	í <b>□</b> (∰ 6	dns:SZGJ0002	Normal	2011-03-04	09:15:41-09:30:4	1 1	111.38	
€ 65533 (dns:65533)	7	dns:SZGJ0002	Normal	2011-03-04	09:30:41-09:45:4	1 1	111.19	
A301 (dns:A301)	□ 🕑 8	dns:SZGJ0002	Normal	2011-03-04	09:45:41-10:00:4	1 1	111.81	
A302 (dns:A302)	9	dns:SZGJ0002	Normal	2011-03-04	10:00:41-10:09:18	3 1	65.44	
E301 (dos:E301)	10	dns:SZGJ0002	Normal	2011-03-04	10:11:14-10:26:14	4 1	112.19	
x1101 (dos:x1101)		dns:SZGJ0002	Normal	2011-03-04	10:26:14-10:41:14	4 1	110.44	
X302 (dns:X302)	12	dns:SZGJ0002	Normal	2011-03-04	10:41:14-10:56:14	4 1	111.63	
X305 (dns:X305)	13	dns:SZGJ0002	Normal	2011-03-04	10:56:14-11:11:14	4 1	110.81	
20555 (dos: 20555)	14	dns:SZGJ0002	Normal	2011-03-04	11:11:14-11:26:14	4 1	111.88	
€5524 (dos: 50000)	15	dns:SZGJ0002	Normal	2011-03-04	11:26:14-11:41:14	4 1	110.69	
(dris:05534)	16	dns:SZGJ0002	Normal	2011-03-04	11:41:14-11:56:14	4 1	110.75	
		dns:SZGJ0002	Normal	2011-03-04	11:56:14-12:11:14	+ 1	111.94	
<		dns:SZGJ0002	Normal	2011-03-04	12:11:14-12:26:14	+ 1	109.31	
	19	dns:52GJ0002	Normal	2011-03-04	12:26:14-12:41:14	+ 1	109.75	<u> </u>
2011- 3- 4 2 Start time End time	Select A	Inverse	2	Download	Clip	Playback		
8:00:00     20:00:00       Chn1     Chn2     Chn3     Chn4       Chn5     Chn6     Chn7     Chn8       Alarm     Normal       Search	2011-03-0 [2011-03-0 [2011-03-0 [2011-03-0	4 14:16:55] Device:[ 4 14:17:03] Device:[ 4 14:17:08] Device:[ 4 14:17:09] Device:[ 4 14:17:09] Device:[ 6	ins:SZG30002] ins:SZG30002] ins:SZG30002] ins:SZG30002] ins:SZG30002]	Connect to device s inish searching! Connect to device s inish searching!	uccessfully, start to s uccessfully, start to s	earch earch		

First choose an online device, setup the date, time, channel and file type to search. It will list all the files. Then select one and click on download. And click on the download label to check the details information.

<b>.</b>	🕘 Center	(14/45)	^	Searc	h Download P	layback Config							
	i 🕐	(5/5)			Device ID	Time	Channel	Size(MB)	Percent	Speed	Downloa	Remaining time	
	÷ 🚍	SZGJ0002 (dns:SZGJ0002)		÷.	dns:SZGJ0	2011-03-04 08:00:41-08:15:41	01	111.75	0.12	21.21	00:00:12	01:29:48	
	÷ 🚍	SZGJ0003 (dns:SZGJ0003)	=										
	÷ - 🚍	SZGJ0004 (dns:SZGJ0004)	_										
	÷ - 🚍	SZGJ0005 (dns:SZGJ0005)											
	÷ 🚍	SZGJ0006 (dns:SZGJ0006)											
	÷ 🕗	(7/25)											
	÷ 🚍	65533 (dns:65533)											+
	±	A301 (dns:A301)											

If you want to clip part of the file, click on Clip button to setup the start time and end time.

	0.02000000		1111112 111 2112
Dialog			X
Start time		End time	
13:32:00	•	13:33: <mark>30</mark>	-
		OK	Cancel

Se	arcl	n Download F	Playback Config						
		Device ID	Time	Channel	Size(MB)	Percent	Speed	Downloa	Remaining time
		dns:SZGJ0	2011-03-04 13:32:00-13:33:30	01	11.39	0.00	0.00	00:00:16	23:59:59



After download the video, you can easily check the video using playback function.



Setup the path: click on config label to setup save path.

### 4.2.10 System setup

Click the setup icon on right- top the window to setup the system information.

## System:

System setup			X
System Record	Alarm Tv Wall		
Snapshot setu	p		
C Open snap	shot in a new window.		
Save path	D:\Program Files\CMSweb\@	CMS\SaveImage	
Video			
mode	Real-time	•	
Cut off the vid	eo transmission automatically af	fter this duration	
OFF			
Register			

**Snapshot Setup:** Please tick Pop-up picture when Screenshot successfully if you want to get the picture when snapshot.



Video mode: real-time or smooth mode

**Cut off video:** this function is developed to reduce the transmission cost when no one monitors video. It will cut off the video transmission after the setup mins if no one operates.

## Record:

System setup	öyste∎ setup				
System Record	Alarm Tv Wall				
Root video fa	lder name(A file name cannot contain any of the following characters: $\:/\:?"<> $ )				
CMS-Video	Refresh				
Disk	Select drive and percentage of available disk space to be used.				
🔽 C:	20%				
🔽 D:	20%				
🔽 E:	20%				
✓ Overwrite	disk when full.				

**Record Save Path**: setup the disk for the local recording, and the alarm recording on CMS. The folder will be in each disk.

#### Note: This path is used for the local recording function on CMS.

### Alarm setup:

After setup the dealing type for each event here, when the CMS receive the alarm information from the device (alarm information will be shown on the Log window—Alarm Log), it will make a sound, pop-up video window and record video automatically.



First, click Add to add a deal type.

Alarm Dealing Name
✓ Map automatically locking alarm vehicle!
Audio tip Play Stop
C:\Program Files\CMS\Sound\Police.wav
Video
✓ Open alarm video
🔽 Pop-up alarm video
☑ Automatic record when Alarm
C Open all channels of video
Open the specified channel video
1 (Separated by commas)

After setup the name, audio and video deal type, pleas click OK to add this type

System setup		X
System Record Alarm		
System Record Alarm Default 11	Alarm type IO alarm Video loss Temperature alarm Disk False alarm Speed alarm Acceleration alarm Low-voltage alarm Alarm Lifting	Event Option Default Default 11 Default Default Default Default Default
Add Modify Delete		
		OK Cancel

Click the dealing type in the left and then the alarm type in right, then click  $\ge$  to setup the alarm.

#### 4.2.11 Alarm Info.

alarm information.

When there is alarm, the green icon will change to be red. Click red icon to check all the



				X
Time	Plate	Device ID	Туре	Information 🔥
2010-08-19 09:32:59	X301	dns:X301	Acceleration alarm	X Direction: -0.5a
2010-08-19 09:33:01	X301	dns:X301	Alarm Lifting	Acceleration alarn
2010-08-19 09:34:07	X301	dns:X301	Acceleration alarm	X Direction: 5.4g
2010-08-19 09:34:10	X301	dns:X301	Alarm Lifting	Acceleration alarn
2010-08-19 09:34:10	X301	dns:X301	Acceleration alarm	X Direction: -6.5g
2010-08-19 09:34:13	X301	dns:X301	Alarm Lifting	Acceleration alarn
2010-08-19 09:37:49	A301	dns:A301	Speed alarm	Current speed: 36
2010-08-19 09:38:32	A301	dns:A301	Alarm Lifting	Speed alarm;
2010-08-19 09:38:37	A301	dns:A301	Speed alarm	Current speed: 34
2010-08-19 09:38:50	A301	dns:A301	Alarm Lifting	Speed alarm;
2010-08-19 09:39:34	A301	dns:A301	Speed alarm	Current speed: 32
2010-08-19 09:39:46	A301	dns:A301	Alarm Lifting	Speed alarm;
2010-08-19 09:41:21	X303	dns:X303	Speed alarm	Current speed: 9
2010-08-19 09:41:34	X303	dns:X303	Alarm Lifting	Speed alarm;
2010-08-19 09:41:36	X303	dns:X303	Speed alarm	Current speed: 21
2010-08-19 09:41:44	X303	dns:X303	Alarm Lifting	Speed alarm;
2010-08-19 09:41:49	X303	dns:X303	Speed alarm	Current speed: 7
2010-08-19 09:41:57	X303	dns:X303	Alarm Lifting	Speed alarm;
2010-08-19 09:42:02	X303	dns:X303	Speed alarm	Current speed: 4( 🗸
<				>
System setup			Clear	Cancel

## 4.2.12 Map

In Map and Video/Map window, the Maximize button can be used.





: this one is used to full screen the window

When in Map mode, then if you click this icon, it only full screen the map.



If in Video/Map mode, it will full screen the video and map.



4.2.13 Vehicle online Info.





12: Currently online number.

**GPS 8** : the number of vehicle which has GPS info. reported.

### 4.2.14 Log window

Sustem log – Alarm log			v
Syateming Alarining			
Time	Туре	Device ID	Infomation
2010-05-07 16:00:52	System operation		System restart successfully! CMS 2.0.0.68
2010-05-07 16:00:52	Device online	dns:02009	
2010-05-07 16:00:56	Open video	dns:02009	Channel: 1
2010-05-07 16:00:56	Open video	dns:02009	Channel: 2
2010-05-07 16:00:56	Open video	dns:02009	Channel: 3
2010-05-07 16:00:56	Open video	dns:02009	Channel: 4
2010-05-07 16:04:32	Open video	dns:3	Channel: 1
2010-05-07 16:04:52	Device offline	dns:02009	
2010-05-07 16:05:22	Device online	dns:02009	

In this window, you can see all your operation on the system log. And also you can check all the alarm information by click on the Alarm log button.

Please note that alarm information here is from the device, whenever the alarm happens, the device will report this to CMS and be shown here. It is different with the alarm filter function in system setup.

Right click on the log window,

-						
	System log	Alarm log				
	Time		Туре	Device ID	Information	
	2010-05-13 1	1:43:37	Close video	dns:1568	Channel: 2	
	2010-05-13 1	1:43:47	Open video	dns:11008	Channel: 1	
	2010-05-13 1	.2:28:18	Close video	dns:SZGJ	Channel: 1	
	2010-05-13 1	2:28:18	Close video	dns:00000	Channel: 1	
	2010-05-13 1	.2:28:18	Close video	dns:22 Cor	w the information	
	2010-05-13 1	2:28:18	Close video	dns:Si	,y the information	
	2010-05-13 1	.2:28:18	Close video	dns:Si 🗸 See	orll	
	2010-05-13 1	2:28:18	Close video	dns:SZGJ	Channel: 1	
1	2010-05-13 1	.2:28:18	Close video	dns:11008	Channel: 1	
1	2010-05-13 1	2:28:29	Open video	dns:SZGJ	Channel: 1	
1						

Scroll means: when the information is full of the log window, it can scroll down automatically, the latest information is shown on the top.

Copy the information: copy information to paste it to other place.



Then use Ctrl+V to paste the information.

Time: 2010-05-13 12:28:18 Type: Close video Device ID: dns:22222 Information: Channel: 1



When snapshot, it will show you the path, and double click on this path to open the picture.

System log	Alarm log			
Time		Туре	Device ID	Information
2011-03-04	14:52:39	Device online	dns:x1101	
2011-03-04	14:58:09	Device offline	dns:A302	
2011-03-04	14:58:27	Open video	dns:SZGJ0002	Channel: 1
2011-03-04	14:58:27	Open video	dns:SZGJ0002	Channel: 2
2011-03-04	14:58:27	Open video	dns:SZGJ0003	Channel: 1
2011-03-04	14:58:27	Open video	dns:SZGJ0003	Channel: 2
2011-03-04	14:58:27	Open video	dns:SZGJ0004	Channel: 1
2011-03-04	14:58:40	Snapshot	dns:SZGJ0003	Snapshot successfully! [D:\Program Files\CMSweb\CMS\SaveImage\SZGJ0003_2_20110
2011-03-04	14:58:46	Snapshot	dns:SZGJ0003	Snapshot successfully! [D:\Program Files\CMSweb\CMS\SaveImage\SZGJ0003_1_20110
2011-03-04	14:58:53	Snapshot	dns:SZGJ0003	Snapshot successfully! [D:\Program Files\CMSweb\CMS\SaveImage\SZGJ0003_1_20110

### 4.2.15 Basic Info. and PTZ

## Basic Info.:

Click the online car, it will show you the information as follows:

		*
Basic Info	PTZ	
Plate		szgj0002
Name		SZGJ0002
Transmit ser	ver	58.60.231.221
GPS Time		2010-05-12 16:42:28
Longitude+		114.068180
Latitude+		22.558303
Direction		Northwest
Speed		14

Click this icon **to** hide this part.







Please click the directional button to change the camera direction.



: Zoom in and zoom out.



: Aperture





: This is for pre-set and calling position.



# 5 Case studies

## 5.1 Introduction

There are two typical cases: the first one need to transmit about 250 channels video all the time, so the PC and network must very good to match this requirement; the second one have 1000 PRO 6004, but no need to transmit so many channels concurrently, so it is more easier compared with the first one.

CMS can support 2000 PRO 6004 at the same time, and it would be a little slow and refreshes every 15~20 seconds.

And if you want to get more channels at the same time, please take the 3G signal strength, bandwidth and PC performance into consideration.

## 5.2 Network diagram



PC 1 and PC 2 are two servers PC. PC 1 is installed with the message server and transmit server. Message server receive all the 325 vehicle information, transmit server on the PC1 is used to transmit 200 channels. PC2 is installed with the transmit server for the transmission of the other 125 vehicles, and also has storage server for the video storage. There are many clients connect to the server to check video all the time.



The above diagram shows that the client and server works in the same local network. Also the client can connect to server via WAN, diagram as follows:



You can only install the Xpro Mobile in a WAN PC, and then connect it to the server to realize monitoring.

## 5.3 Bandwidth calculate

(1) Video transmission: each vehicle has one channel video transmitted, and the bandwidth is 50Kbps, 325 vehicles.

50kbps \*325 = 16250Kbps = 15.87Mbps

(2) GPS information: 5 seconds one packet, each packet 200Bytes, 325 vehicles.

(325\*200 Byte / 5)\*8 = 101.7kbps = 0.1Mbps

(3) Command information: like apply for video command, 325 vehicles.

2\* (( 325\*256 Byte ) \*8 ) =1300Kbps = 1.3Mbps

So the totally bandwidth needed is 15.87 + 0.1 + 1.3 = 17.27 Mbps.