# CMSServer Centrol Management Server Installation

## Manual

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March 2013

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## **1. Product Introduction**

#### 1.1. **Product Functions**

CMSServer Central Management Server is a Wireless Network for centralized management and monitoring of all types of mobile assets. It is a high-quality, high-efficiency centralized and distributed network management architecture that provides network transmission of video, audio, data and other multimedia information for users to perform real-time remote video monitoring, GPS maps positioning, video storage, vehicle scheduling, recorded vehicle data playback and tracking, voice intercom and alarm warning security work. Other features include remote data download and storage, alarm triggering and remote alerts, remote vehicle management, etc.

#### 1.2 Features Introduction

- The CMS Server Network can support up to 100,000 vehicles monitoring
- Vehicle information management system
- Quickly locate and track vehicles quickly via GPS information, displays real-time vehicle status display online and statistical interpretation of data collected
- Alarms and Alerts information statistical functions
- Send SMS Alerts
- Real-time remote audio and video surveillance
- Real-time vehicle front end image capture function
- Two-way voice intercom, vehicles broadcast function
- Pan Tilt Zoom (PTZ) remote control function
- Vehicle's historical tracking playback function
- Remote video search, download and playback capabilities
- Depending on the configuration program, the storage server automatically snap pictures, automatic recording, occur after alarm linkage, automatic SMS and mail to notify the user Alarm Linkage (Emergency button alarm, Video signal alarm, Unauthorized unlock alarm, Hard disk-error alarm, Over speed

alarm, Motion detection alarm, Long idling time alarm, Temperature alarm, GPS signal lost alarm, IO alarm (custom), Electronic map lock alarm.

- Assets Report Description
- iPHONE and ANDROID mobile smart phone Client Support

## 1.3 System Architecture



Diag. 1. 1 CMS Server Architecture

The CMS consists of 8 Functional Servers, namely the :

- 1. Login Server
- 2. Gateway Server
- 3. Media Streaming Server
- 4. User Management Server
- 5. Storage Server
- 6. WIFI Auto Download Server
- 7. Web server
- 8. Remote Client Monitoring Server

Users have the option of deploying 1 or 2 of the 7 Functional Servers stated above such as, Login Servers, Multiple Gateways Servers, Media Streaming Servers, Multiple Users Management Servers to provide Mobile DVR and Remote Client Services and features as GPS Location, Video and Alarms.

#### Description of Functional Servers

**Database Server:** Used mainly as Storage Server, Configuration information and Alarm events.

The database server application used is MySQL-5.5.12 - Win32.

Login Server: For registration of various servers and to coordinate and manage registered servers, Assign User Clients, Configure End Management Server, Allocation of Gateway Server for MDVR devices, User Management, Gateway Servers, Server Load Balancing.

**Gateway Server**: Provide vehicle access. Vehicle Gateway Server is used to establish a communication link between the MDVR device and the server, sending vehicle location and status information via this link.

**Streaming Media Server**: Provides media data forwarding function. Including Audio and Video, Intercom, Remote Monitoring, Remote Capture, Configuration parameters, Search and forwarding Download data.

User Management Server: Provides Remote Client Access

Storage Server: For storing pictures, video capture and reduce costs

**WIFI Auto Download Server**: When within the assigned access point range, the WIFI enabled MDVR will automatically upload the video files onto the server.

Web Server: Provides GIS electronic map information, and provide links to the CMS Backroom Control center, Front End management system login.

**Remote Client Application**: Provides real-time video preview, GPS positioning, electronic map display, vehicle status monitoring, image capture, video search, video download and playback, vehicle tracking playback, real-time alarm information monitoring, alarm statistics, vehicle configuration parameters and other functions. The Remote Client is available as Web Client, PC Windows Client, IOS and Android Version Clients, allowing users different ways to login and manage their vehicle.

# 2. CMSServer Deployment

OS	Microsoft Windows Server 2003 or Higher
CPU	Intel quad-core Xeon, Frequency of not less than 2.33GHz
Network	2 Gigabit Ethernet
RAM	4G or more
Hard Disk	1TB or more
CD Player	DVR-ROM
	Support VGA Display
Others	Supports normal keyboard, recommended to use USB Keyboard
	LED Indicator lights for Computer, HDD and other Activities Status

# 2.1 CMSServer Minimum Requirements

# 2.2 Media Streaming Server

Performance Specifica	ations
	Each Streaming Server, distributed, can support up to 256
	concurrent Incoming Channels with a bandwidth of 128Mbps.
	Each Video Channel supports up to 6 Clients viewing. Each
	Channel maximum data rate output is 512Mbps.
	Gigabit Ethernet ports, 20Mbps output stream rate average
	forwarding delay is less than 5 ms
	Gigabit Ethernet ports, 100Mbps output stream rate average
	forwarding delay is less than 40ms.
	Gigabit Ethernet ports, 512Mbps output stream rate average
	forwarding delay is less than 200ms.
Video Bandwidth	
	Using CIF video format per Channel video data rate is
	320Kbit/second, 256 video channels therefore requires 320 X
	256 = 81,920 Kbit bandwidth.

NOTE: As the MDVR device in a 3G network environment has
network bandwidth limitations. The maximum upload is using
CIF resolution video format.

## 2.3 Examples of System Deployment

This examples are for reference only, using user's hardware, network and CMS, MDVR installation environment.

## 2.3.1 200 Vehicles/Devices



## 2.3.2 5000 Vehicles/Devices



### 2.3.3 50000 Vehicles/Devices

	CMS Database (Backup)	
	Gateway Server	
50000 MDVR	Gateway Server	Client
	Ger Mangeant Server	

## 2.4 CMSServer Operating Processes

Steps:

- 1) Install CMSServer CMS
- 2) Create Users in BackOffice
- 3) Create Devices/Vehicles ID in BackOffice
- 4) Assign User/Company Groups
- 5) User Login Using FrontEnd Management System to Manage Vehicles/Devices

Specific operation as shown in the following:

#### 2.4.1 Login to System

Login to the management system (address: <u>http://localhost</u> IP), Local host CMSServer is where the server resides, PC's IP address; CMSServer BackOffice management system default login name and password are: admin

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💋 Vehicle Management Sys ×			a second as from			division in succession	and the second
			Home	Download Question	Chinese Tr	radition	
						18.22	
	-	1. A.m.					
	Tog	jin Area					
	Account	admin					
		en e		Print and	Appendix and		
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						0	
	Code	4726		The second second	the second second		
		Login					
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			-				
			Contractor States	And the second second second	100 C	1. A	- 0 -X
🗢 🕤 👩 http://localhost/system/index.htr	tml?lang=en					, <b>р</b> - в	d× n + 0
🧭 Vehicle Monitor System 🛛 🗙						All and a support of the	ALC: NAME
Vehicle Monitor System						Welcome! admin   Manager	Password   Exit
Home	Client	Device Status	Server Log				
				Q Device Name Or IDNO	Search	Q Client Name Or Account	Search
Client Information							More
Client Count: 2 User Count: 0 Online Co	Count: 0						
🖨 🔵 Device Information							More
Management total: 50 Device Count: 12	Inventory Count	1 Online Count: 1 Unregister Dev	ice Number: 0				
Server Information							Here
Login Server: Online Server Count: 5 0	Online Count: 5						
n Franken i der sinder i der der der							
Copyright (c) 2013. All right reserved.							

#### 2.4.2 Adding Users

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Client Managerie	ent								
Cherr Col 1 Union									
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	Ann	Accounts							
		100	-						
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v Page – Next Page – Total 1	1 Page 1 Record Cu	ament 1 Page G		Add Client Nume	client	×			
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n Page Next Page Total I regit (c) 2013. At right reser	1 Page 1 Record Co	ment 1 Page G		Add Client Name Account Conact	client client	×			
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ve Page – Neo Page – Total 1 veget (c) 2013. All right rener	Page 1 Record Co	arrent 1 Page G	9	Add Client Name Account Telephon E-Mail Defeat Parwork	client client	×			
ver Page – Neco Page – Total 1 verget (c) 2013. All right resor	1 Page 1 Record Cu	arrent 1 Page G	3	Add Client Name Account Connact Telephon E-Mail Default Parevord	client client 000000 Save	×			

## 2.4.3 Adding Terminals/Devices/Vehicles ID

Select "Terminal Management" Tab

icle Monitor S	ystem								Welcom	ie! admin   Manag	er   Password
Hor	me Clier	nt C	Device	Status	Server	Log					
							(Q.Devic	e Name Or IDNO	Search Q.Cli	ent Name Or Accou	int See
Device Manager > /	All Device										
Durley											
I Device	Manage	ment total: 50	Device Count: 9	Inventory Co.	int 1						
remory perice	Add	Batch Add	Del Selected	Sale Selected	Export V	thicle To Excel	Export Mobile To Excel	Import Form Excel			
	iii All	Index	Name	IDNO.	Device	SEM Card	Date Manufactur	n Client	0	scator	
	10	1	30000	30000	MDVR	30000	2013-03-19	test	Customer	Edit Delete	
	13	2	30001	30001	MDVR.	30001	2013-03-19	test	Customer	Edit Delete	
	83	3	30002	30002	MDVR	30002	2013-03-19	test	Customer	Edit Delete	
	10	. 4	30003	30003	MDVR	30003	2013-03-19	test	Customer	Edit Delete	
	10	5	30004	30004	MDVR	30004	2013-03-19	test	Customer	Edit Delete	
	10	6	30005	30005	MDVR.	30005	2013-03-19	test	Customer	Edit Delete	
	8	7	30006	30006	MDVR.	30006	2013-03-19	test	Customer	Edit Delete	
	10	8	30007	30007	MDVR	30007	2013-03-19	test	Customer	Edit Delete	
	12	9	30015	30015	MDVR		2013-03-19		Customer	Edit Delete	
	Prev Page N	ext Page Total	1 Page 9 Record (	Current 1 Page	Go						

## 2.4.3.1 Adding a Single Terminal

Select "ADD", a Add Terminal Window will pop up. Enter the terminal/device information as required in the window and SAVE.

	stem	_					Welcome! admin   Manager   Password
		nt D	levice				
		1					Search (O.Client Name Dr Account ) Soon
		_/_					
Device Manager > /	All Device						
Il Device .		1	Partie Parte				
aventary Device		ent total, 50					
	Add	Batch Add	Del Selected	Sale Selecte		Export Mobile To Excel Import Form Excel	
			New	Internet			Dpreator
					Add Device		Customer Edit Debes
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		3			MI IDNO.:	30008	Customer Eds Defets
		- (A)			htt. Teminal:	MDVR	Custome Edit Delete
			30004		MI SIM Card:		Customer Edit Delete
		6			NO Product	2013-03-20	Customer, Edit Delate
					Mg Default Password:	000000	Customer Eds Delete
		1			5.0	Save	Customer Eds Debris
		9			1.0		Customer Edit Delete

After successfully Saving the device information you will notice a line with your asset information added into the page.

icle Monitor S	ystem								Welcome!	admin   Manager   Pas	sword
Но	me Clier	nt D	Device	Status	Server	Log					
							Q Device M	lame Or IDNO	earch Q Client	Name Or Account	Searc
Device Manager >	All Device										
Device	Manager	ment total: 50	Device Count: 1	0 Inventory Co	unt 2						
entory Device	Add	Batch Add	Del Selected	Sale Selected	Export	Vehicle To Excel	Export Mobile To Excel	Import Form Excel			
	a Al	Index	Name	IDNO. I	Device	SEM Card	Date Manufacture	Client	Oper	ator	
	13	1	30000	30000 3	DVR	30000	2013-03-19	test	Customer I	idit Delete	
	8	2	30001	30001 3	4DVR	30001	2013-03-19	test	Customer 1	Edit Delete	
	83	3	30002	30002 8	(DVR	30002	2013-03-19	Sest	Customer E	Edit Delete	
	23	4	30003	30003 5	DVR	30003	2013-03-19	test	Customer 1	Edit Delete	
	10	5	30004	30004 3	4DVR	30004	2013-03-19	fest	Customer B	Edit Delete	
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	83	7	30006	30006 3	DVR.	30006	2013-03-19	test.	Customer H	Edit Delete	
	23	8	30007	30007 3	-DVR	30007	2013-03-19	Sect	Customer 1	Edit Delete	
	四	9	30015	30015 M	DVR		2013-03-19		Customer I	Edit Delete	
		10	30008	30005	MDVR		2013-03-20		Customer 1	Edit Delete	
	Prev Page No	est Page Total	Page 10 Record	Current 1 Page	Go						-
	1000										

#### 2.4.3.2 Adding Multiple Terminals/Devices in Batch

Select "ADD Batch", a "Add Batch" Terminal window will pop up.Note: Adding Multiple Terminals in Batch requires adding morse than 1 but less than 10 Vehicles/Devices.

	and the second second				-	the second distance in the		and the second	And Address of the Owner of the	
licle Monitor S	iystem	_							Welcomel admin   Manager   Parrword	
		nt	Device							
									arch 🔵 (Q.Client Name Or Account ) 🤇 Sec	
	All Device									
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ventary Device		Control and	Des Robert	had Sala Sul						
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				30000	MDVR.	30000	2013-03-19	heat.		
					hDV7	Batch Add Device			X. Customer fidit Delete	
		1			MDVR	IDNO ::	30009		Customer Edit Delets	
		1.5			MDVR.	Teminal	MDVR		Custanes Edd Delete	
			30004		MDVR	Product:	2013-03-20		Curturaier Edit Delete	
		6			MDVR.	Count	4		Containing Edit Delate	
			30005	30005	MOVE	Default Password	000000		Customer Edit Debrie	
		1.8			MDVR	architer i married.			Custome Edd Delete	
		9			MOVR		Save		Customer, Edit Delete	
					MIDVE				Customer Edit Delets	
	Prev Page 3	let Page To	tal I Page 10 Rec	ord Current 1	Page Go					
			100403-000400							

The example above and the result below shows the successful addition of 4 new vehicles/devices.

Home	Client	C	Device	Status	Server	Log	(Q Devic	e Name Or IDNO ) Sear	th (Q.Client N	ame Or Account
Device Manager > All Dev	rice						(Q.Davic	e Name Or IDNO Sear	th Q Client N	ama Or Account
Device Manager > All Dev	rice									
ll Device	Manageme	nt total: 50	Device Count: 1	4 Inventory Co	unt 6					
nventory Device	Add I	Batch Add	Del Selected	Sale Selected	Export V	ehicle To Excel	Export Mobile To Excel	Import Form Excel		
	AR I	index	Name	IDNO.	Device	SIM Card	Date Manufactur	v Client	Operati	r
	10	11	30009	30009	MDVR	30009	2013-03-20		Customer Edit	Delete
	8	12	30010	30010	MDVR	30010	2013-03-20		Customer Ede	Delete
	83	13	30011	30011	MDVR	30011	2013-03-20		Customer Edit	Delete
	13	14	30012	30012	MDVR	30012	2013-03-20		Curtomer Edit	Delete
ħ	tev Page Next	Page Total	2 Page 14 Record	Current 2 Page	Go					

## 2.4.4 Assigning Groups/Owners

### 2.4.4.1 Single Terminal/Device Assignment

Select Assign Terminal/Device, Click on Assign, the Assign Terminal Window will pop up.

					-	and the second second	and the second se		A DE LES ALLES
icle Monitor System	st/system/index.htm	l?lang=en			_	-			P-Edx G
hicle Monito	r System								Welcomet admin   Manager   Parrow
	Homa C	12010	Device						
	Home C	bent	Device	313105	Server	coy			
							Q Device Name	OLIDNO Se	arch (Q. Client Name Or Account ) Se
	er > All Device								
All Device	Mana	igement total.	50 Device Cour	st 14 Invents	ry Count, 6				
nventory Device	An	d Batch A	dit Del Select	ed Sale Sel	Icted Export V	ducle to Excel Expo	t Mobile To Excel Impor	Form Excel	
	1 A.								Operator
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		- 14			ouse a	Please select client			
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					Persha	* 0013.03.00			
					Our	2013/03/20			
					U.L.	-			
pyright (n) 2013. All right i	nserved					adve			

Select the Group/Owner to Assign to, SAVE, After successful Save, the terminal/device will be associated with the assigned Group/Owner name.

Device manager / An Device     Management total 50 Device Count: 14 Inventory Count: 6     Vestory Device     Add Device Add Del Selected Sets Selected Exect Makin To Event Makin To Event Makin To Event	
And bitch how by seeved and seeved Export function of the capacity in participation of the capacity of the cap	
iii All Index Name IDNO. Device SIM Card Data Manufacture Chient O	peratar
11 30009 30009 MDVR 30009 2013-03-20 chiest Customer	Edit Delete
12 30010 30010 MDVR 30010 2013-03-20 Curtomer	Edit Delete
E 13 30011 30011 MDVR 30011 2013-03-20 Curtome	Edit Delete
14 30012 30012 MDVR 30012 2013-03-20 Custome	Edit Delete
Prev Page Next Page 14 Record Current 2 Page Go	

### 2.4.4.2 Assigning in Batch

Select the terminals/devices to be assigned, Select the Group/Owner to be assigned to.

		-		-		tion being all marries	And a second second		1 / m (c)
http://localhost/	system/index.html?la	ang=en		_	_	_			P+≣d×
hicle Monitor System		-	-		-	the second s		and the second sec	And one at
hicle Monitor	System	_							Welcome! admin   Manager   Parrow
		nt C	Device						
							Q Device Name Or I	DNO ) Search	(Q. Client Name Dr Account.)
			· · · · ·						
Device Manager	<ul> <li>All Device</li> </ul>			$\mathbf{\Lambda}$					
All Device				1		Sale Device		×	
aventary Device	Manage	ment total. 50	Device Cou	nt 1 invent	ary Count: 6	Sala Ta	alast -	1	
	And	Batch And	Del Select	led Sale Sol	Acted Export	Davies Lists	30010/30010	1	
					Detics	Device Line.	30011(30011) 30012(30012)		Oniciti
	10		30009	30009	MDVR				Customer Edit Delete
	191				MDVR				Customer Edit Delety
	199				MDVR				Culture Edd Delete
	1921	14			MDVR				Curromer Edit Delate
		and Passe Total	7 Page 14 Pag	and Connect 7	Para Go		( and the second		
					- Mr. [22]		Save		
anynght (n) 2013. All right mise	rund								

After successful SAVE, the assigned terminals/devices will be associated with the Group/Owner's name.

nicle Monitor	System								Welcome! admin   Manage	r   Password
H	lome C	ient	Device	Status	Server	Log		_		
							Q Device I	lame Or IDNO	cch Q Client Name Or Accourt	it Seat
Device Manager	» All Device									
-										
I Device	Mana	gement total: 50	Device Court	t 14 Invento	ry Count: 6					
ventory Device	Ad	Batch Add	Del Selecte	d Sale Sele	cted Expor	t Vehicle To Excel	Export Mobile To Excel In	port Form Excel		
		Index	Name	IDNO.	Device	SIM Card	Date Manufacture	Client	Operator	
	10	11	30009	30009	MDVR	30009	2013-03-20	client	Customer Edit Delete	
		12	30010	30010	MDVR	30010	2013-03-20	client	Customer Edit Delete	
	(V)	13	30011	30011	MDVR	30011	2013-03-20	client	Customer Edit Delete	
	N.	14	30012	30012	MDVR	30012	2013-03-20	client	Customer Edit Delete	
	Dan Dan	Nest Dear Tate	Dana 14 Ress	of Connet 7	Pres (20)					
	The raje	Neurige 100	12 rage 14 Nets	tu Curieni z	Life 00					
yright (c) 2013. All right res	erved.									

# **3. Server Installation**

Requirements:

Existing CMSServer installation can directly install the new version of the CMSServer.



1. Double Click to run

CMSServer installation

2. After double-click , enter installation dialogue box:



Pic 3.1 Installation Dialogue Box

3. Click "Next", enter into the Installation Dialogue Box, as shown below:

😼 Setup - CMSServerV6	Browse For Folder
Select Destination Location Where should CMSServerV6 be installed?	Select a folder in the list below, then click OK.  C:\AlarmAction\CMSServer\V6
Setup will install CMSServerV6 into the following folder.         To continue, click Next. If you would like to select a different folder, click Browse.         C:\Program Files\CMSServer         Browse         At least 392.1 MB of free disk space is required.	AlarmAction         DevUserInfo         Documents and Settings         gps_data         GP5_DOWNLOAD         GP5_MEDIA_TEMP         GP5_MEDIA_UPLOAD         Preview         Program Files         Internet Explorer         Messenger         Movie Maker
< Back Next > Cancel	OK Cancel

Pic 3.2 Select Installation Path

4. Specify the target installation path, click "Next" to continue.

i Setup - CMSServerV6
Select Start Menu Folder Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder. To continue, click Next. If you would like to select a different folder, click Browse.
CMSServer Browse
< Back Next > Cancel

Pic 3.3 Select the Program location

5. Select additional tasks (whether to create a desktop shortcut), and then click "Next" to continue  $% \lambda = 0.015$ 



Pic 3.4 Choose whether to create a desktop shortcut

6. Click on "Install" to complete the Installation.

🔂 Setup - CMSServerV6
Ready to Install Setup is now ready to begin installing CMSServerV6 on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location: C:\Program Files\CMSServer
Start Menu folder: CMSServer
Additional tasks: Additional icons: Create a desktop icon
<ul> <li>✓</li> <li>✓</li> </ul>
< Back Install Cancel



Pic 3.5 Installation Process

7. Click the "Finish" button, Data Configuration begins after this.



1/4 Database Parameters	$\mathbf{X}$
This guide applies to all servers installed on the same PC	
Database File Path C:\Program Files\CMSServer\mysql\	
Drive Info	
Total Diskspace 9.996 G	
Free Diskspace 2.405 G	
Note: Please select the remaining disk space!	
Next(N) Exit	

Pic 3.6 Database Configuration Parameters

8. Click on "Next" to begin Network Address Configuration

2/4	Network Addres	s Parameters	×
	This guide applies	to all servers installed on the same PC	
	Internat Address WIFI Download	192.168.0.201	
	SSID	Enable WIFI Automatically Download	
		Through the the SSID distinction download site (MDVR WIFI network to connect to this SSID)	
	LAN Address	192.168.0.201	
		address	
		Next(N) Exit	

Pic 3.7 Web Server Parameter Configuration

9. Click on "Next" to start Web Server Configuration Parameters

WEB Service Parameters	×
This guide applies to all servers installed on the same PC	
Port 80	
Next(N) Exit	- 1
	WEB Service Parameters         This guide applies to all servers installed on the same PC         Port       Image: Compared to the same PC         Next(N)       Exit

Pic 3.8 Web Server Port Configuration

10. Click on "Finish" to activate CMSServer Server Controller.

4/4 Configuration Complete	
This guide applies to all servers installed on the same PC	
1. Allow service program through Windows Firewall	
2. Start the service control program	
3. View the ReadMe describe file	
Finish Exi	t



Pic 3.9 Configuration Complete

# 4. Server Configuration

## 4.1 CMSServer Server Port Description

CMSServer Server default port are as follows for Mobile DVR and Client services. If the Server is behind a firewall, please ensure the following ports are opened in order for the appropriate services are made available for the Mobile DVR and Client Users.

Server Name	Server Port	Description	Remarks

Login Server	6605, 6606	6606 Device Service Port	6606 - UDP
		6605 Client Service Port	6605 - TCP and UDP
Gateway Server	6607 6608	6608 Device Service Port	6608 - UDP
Gateway Server	0001, 0000	6607 Client Service Port	6607 - TCP and UDP
Media Streaming	6602 6601	6602 Device Service Port	6602 - TCP
Server	0002, 0001	6601 Client Service Port	6601 - TCP and UDP
User Management	6603	6603 Client Service Port	
Server			6603 - TCP and UDP
WIFI Download Server	2200 2210	6610 Device Service Port	6610 - TCP
	6609 6610	6609 Client Service Port	6609 - TCP and UDP
Storage Server		6612 Device Service Port	6612 - TCP
	6611 6612	6611 Client Service Port	6611 - TCP and UDP
WEB Server	80	80 Client Service Port	80 – TCP

# 4.2 CMSServer System Configuration

# 4.2.1 Database view and configure

Note: The database configuration,	installation package has	already been configured
for this version of CMSServer.		

💈 Server Manage	r				×
Register	Database	DIY	WAN Address	WIFI Config	<b>536</b>
Web Config	Login	SMS Conf	ig E-Mail Config	Storage Config	Exit System
Start Service	Stop Service	Service Cor	nfig		
Server	Informa	Database Car	finanza lina		Exe Path
Login Server Gateway Server Media Server User Server WIFI Download Serv Storage Server MySQL Server Web Server Watch Dog	Runnin Runnin Runnin Runnin Runnin Runnin Runnin	Database Parame Type Name Address Port User Password	ters MySQL 1010GPS 127.0.0.1 3311 root xxxxxxxxxxx e control program Setup	Cancel	D8 C:\Program D1 C:\Program D1 C:\Program D4 C:\Program 21 C:\Program C:\Program D7 C:\Program 21 C:\Program

Pic 4.2.1 Database Configuration Information

4.2.2 DIY: logo and	l title	customization
---------------------	---------	---------------

Server Manage	er -	2	PUT real			6
Register	Database	DIY	web Logo File			Select
Web Config	Login	SMS Conlig	Current Logo	Selected Logo	Readme: 48 * 48 gif format, background transparent format.	
Stat Service	Stop Service	Service Config			Modify Defualt Priview	
Server	Information					
Login Server	Running - Run	ning			English	
Gateway Server	Running - Run	ning		-	Ligion	
Media Server User Server	Running - Hur	ning .		System Title Ve	hicle Monitor System	
WIFI Download Ser	over Running-Run	ining		Web Title Ma	hide Management System	
Storage Server	Running - Run	ning		Web Hue Ve	nicie Management system	
Web Server	Running - Run	ning		Complaint Co	evright (C) 2013. All right reserved.	
Watch Dog	Running - Run	ning e		copyright 100	, , , , , , , , , , , , , , , , , , ,	
					Readme Defualt Modify	
		-				
			Client			
		-	Logo File			Select
			Current Logo	Selected Logo	Readme: png transparent images, the client will be proportional compression.	
						Beadme
					in the second seco	
c		100			Modify Defualt Priview	
un Time 00:04:37						
			Title		Mod	ify Defualt
						Evit
						LAN

#### Pic 4.2.2 DIY configure

## 4.2.3 CMSServer server modify network IP address

1. Installation configuration LAN, and now would like to replace the public network, directly at the following figure can be modified, and vice versa.

💈 Server Manager					×
Register	Database	DIY	WAN Address	WIFI Config	Fuit Sustem
Web Config	Login	SMS Config	E-Mail Config	Storage Config	Exit System
Start Service	Stop Service	Service Config			
Server	Information		Run Time	Version	Exe Path
Login Server Gateway Server Media Server User Server WIFI Download Server Storage Server MySQL Server Web Server Watch Dog	Running - Ru Running - Ru	Network Address ( This configuration ap Network A Current Ad	Configuration         oplies to all servers and         ddress       218.17.62.4         ddress       192.168.0.2	re installed on the sam WAN 14 LAN 201	Ne PC
<				Ok	Cancel



## 4.2.4 WIFI download configuration parameters and status View

erver Man	ager						×
Register	Da	atabase	DIY	WAN Address	WIFI Config		vit Sustem
Web Config		Login	SMS Config	E-Mail Config	Storage Config		.xit System
WIFI Down	Iload Ser	ver Config	uration				
Download Pa	rameters	Download St	atus(Flash 5 Second)	]			
Disk Manage	ement					0200	Exe Path
Disk	The Total	Space(MB)	Used Space(M	1B)   Remaining Spac	e(MB) B	0308	C:\Program C:\Program
Пс	10236	,	7815	2421	3	0301	C:\Program
ME E	10228		3021	7207	B	0304	C:\Program
₩ F	0		0	0	3	0121	C:\Program
							C:\Program
					3	0307	C:\Program
Space I	nadequate	Cover The	Oldest Files				
Rese	rve Space	1024		МВ			
-Download Pa	arameters –						>
	Device	10	*	Simultaneous Download	± (1-16)		
Records P	re Device	2	*	Simultaneously downloa	d(1-6)		
	Days	3	*	Recently Days (1-7)			
					ок		

Pic 4.2.4 wifi download configuration parameters and status View

#### 4.2.5 Modified CMSServer server web access port

Here you can modify the web service port configuration 80 port has been occupied, as shown below:

🖇 Server Manage	r					×
Register	Database	DIY	WAN Addr	ess	WIFI Config	Euit Sustern
Web Config	Login	SMS Config	E-Mail Cor	nfig	Storage Config	Exit System
Start Service	Stop Service	Service Config				
Server	Information		Bun	Time	Version	Exe Path
Login Server Gateway Server Media Server User Server WIFI Download Serv Storage Server MySQL Server Web Server Watch Dog	Running - Ru Running - Ru Running - Ru WEB Server I P Current P	nning nning Port Configuratio ort 8080 ort 8080 88 88 8080 8088	00:1 00:1 00:1 Cancel	2:17 2:06 2:06 5 4 3 7 4 2	6.11.0.3 20130 6.11.0.2 20130 6.11.0.2 20130 6.11.0.1 20130 6.10.0.2 20130 6.10.0.2 20130 5.5.23 6.11.0.4 20130 6.10.0.2 20130	308 C:\Program 301 C:\Program 301 C:\Program 304 C:\Program 121 C:\Program 121 C:\Program 307 C:\Program 307 C:\Program
<		Ш				>
Run Time 00:09:19						

Pic 4.2.5 modify web access port

## 4.2.6 SMS configuration

🖗 Server Manage	Э <b>Г</b>				×
Register	Database	DIY	WAN Address	WIFI Config	
Web Config	Login	SMS Config	E-Mail Config	Storage Config	Exit System
Start Service	Stop Service	Service Config			
🚑 SMS Setup					Exe Path
SMS Parameters Serial Baud I SMS Center Tip:Find SMS ce	Rate 115200 NO. card	✓ ✓ ''card''	Setup Cancel	0.3 201303 0.2 201303 0.2 201303 0.1 201303 0.2 201301 0.2 201301 3 0.4 201303 0.2 201301	08 C:\Program 01 C:\Program 01 C:\Program 04 C:\Program 21 C:\Program 21 C:\Program 07 C:\Program 21 C:\Program
Test					
Phone No.					
Content	test short message	123ABC@#*&%!	Send		
					>

Pic 4.2.6 sms configuration

4.2.7 Email configuration

Server Manage	er				×
Register	Database	DIY	WAN Address	WIFI Config	
Web Config	Login	SMS Config	E-Mail Config	Storage Config	Exit System
Start Service	Stop Service	Service Config			
E-mail Setup					Exe Path 308 C:\Program
E-mail Paramete Ac Pas SMTP Ac SMT SMTP S Send Rec S C	rrs count mdvrtest@g sword mdvrtest123 ddress smtp.gmail.c P Port 465 ecurity SSL ipients s iubject Send Mail T ontent My Mail Tes	mail.com			301 C:\Program 301 C:\Program 304 C:\Program 121 C:\Program 121 C:\Program 307 C:\Program 121 C:\Program 121 C:\Program 121 C:\Program
Test	]		OK	Cancel	

Pic 4.2.7 email configuration

# 4.2.8 Storage configuration

Server manager					X	d Storage	Server Configuration			
Register	Database	DIY	WAN Address	WIFI Config		Param	eters Snapshot State	Record Status		
	1200	010.0.1	-		Exit System	Disk Mar	agement			1
Web Conng	Login	SMS Config	L-Mail Config	Storage Conng		Ditk	The Total Space(MB)	Used Space(MB)	Remaining Space(MB)	
1	1					HC:	10236	2021	2421	
Start Service	Stop Service	Service Conlig				ØF	0	0	0	
Server	Information		Run Time	Version	Exe Path					
Login Server Sateway Server Viedia Server User Server WIFI Download Server Storage Server MySQL Server	Running - Run Running - Run Running - Run Running - Run Running - Run Running - Run Running - Run	ning ning ning ning ning ning ning	00.07:35 00.07:24 00.07:23 00.07:23 00.07:22 00.07:22 00.07:21 00.07:21	6,11.0.3 20130300 6,11.0.2 20130301 6,11.0.2 20130301 6,11.0.1 20130304 6,11.0.2 20130304 6,10.0.2 20130121 6,10.0.2 20130121 5,5.23	C:VProgram C:VProgram C:VProgram C:VProgram C:VProgram C:VProgram					
Web Server Watch Dog	Bunning - Bun Bunning - Bun	ning ning	00.03.01 00.07.20	6.11.0.4 20130307 6.10.0.2 20130121	C:\Program C:\Program	Spa Pi	eserve Space 1024	Didest Files 💽	ИB	
6										
ID Time 00:04:37						8				

Pic 4.2.8 storage configuration

## 4.3 CMSServer Introduction

### 4.3.1 Login Server

1. From the main CMSServer Server window, select "Login Server", "Service Configuration" button and then click on the top of the interface, log on to the server can be configured in the form of pop-up network parameters, as shown below:

Server Manager					×
Register	Database	DIY	WAN Address	WIFI Config	
Web Config	Login	SMS Config	E-Mail Config	Storage Config	E xit System
Start Service	Stop Service	Service Config			
Server	Intermation		Bun Time	Version	Exe Path
Login Server	Bunning - Bunni	na	00.20.35	6 11 0 3 201303	308 C:\Program
Gateway Server	Running - Runni	ng	00:20:00	6 11 0 2 201303	301 C:\Program
Media Server	Running - Runni	ng Login Sor	vor Droforoncos		C:\Program
User Server	Running - Runni	ng Lugin Sei	ver Preferences		C:\Program
WIFI Download Server	Running - Runni	ngNetworl	Parameters		C:\Program
Storage Server	Running - Runni	ng			C:\Program
MySQL Server	Running - Runni	ng Cli	ent Access Port 660	5	C:\Program
Web Server	Running - Runni	ng			C:\Program
Watch Dog	Running - Runni	ng		~	L:\Program
		Dev	ICE ACCESS Port 660	ь	
<					>
Run Time 00:17:37					

Pic 4.3.1 Login Server Parameter Configuration

**Client Access Port** : Registered Client Users connect to the server through this port. Default is 6605, it is recommended not to modify;

**Device Access Port:** Registered devices/vehicles connects to the gateway server through this port. Defaults to 6606, it is recommended not to modify.

One or 2 servers can be deployed on the CMSServer system and log on to the server, one of them as the primary server, another as Login (Backup) server. When the Login server fails, the Login server by switching to a virtual IP, will not affect the normal use of the device and the client.

#### 4.3.2 Gateway Server

1. From the main CMSServer Server window, select "Gateway Server", Click "Service Configuration" button which on the top of the interface, then you can config your gateway parameter , as shown below:

💈 Server Manager					×		
Register	Database DIY		WAN Address	WAN Address WIFI Config			
Web Config	Login	SMS Config	E-Mail Config	Storage Config			
Start Service	Stop Service	Service Config					
Server	Information	•	Bun Time	Version	Exe Path		
Login Server	Bunning - Runr	ning	Gateway Server P	Preferences			
Gateway Server	Running - Runn	ning	Gaterial Server 1	Tererences	<u> </u>		
Media Server	Running - Runn	ning	-Register Paramenters				
User Server	Running - Runn	ning					
WIFI Download Server	Running - Runn	ning	Login Server IP 127.0.0.1				
Storage Server	Running - Runn	ning					
MySQL Server	Running - Runn	ning Ving	Server Port 6605				
Web Server	Bunning - Bunn	iiriy ying					
Watch Dog	Traning * Tan	miy	Serv	erID G1			
			Network Paramete	ers			
			Client Access	Port 6607			
			0.01111100000				
			Device Access	Port 6608			
				Ok	Cancel		
		Ш					
Run Time 00:18:19							

Pic 4.3.2 Gateway Server Configuration Parameters

Login Server Address: Login Server uses the PC's Server IP address. If the Gateway server and Login Server are on the same PC, you can enter 127.0.0.1, where the Gateway and Login Server resides on the same LAN, the IP configuration should be the LAN IP Address. If the enter log on to the server where the LAN IP address, and vice versa enter log on to the server where the PC's public IP address, and enter the Windows service to modify the properties on the gateway server login tab); 127.0.0.1 advice address is not valid in a particular case must input CMSServer server where PC's IP;

Server port: Client Access the Login Server service port, default 6605, does not propose to modify.

Server ID: Each Gateway Server has a unique number. The system can deploy one or more Gateway Servers, Login Server uses the unique number to distinguish between different gateway server, the unique number must be the same as the ID of the gateway server, and server management information defined in CMSServer BackOffice Management System;

**Client Access Port:** Through this port to provide service for the Client and Media, default is 6607, does not propose to modify;

**Device Access Port:** Through this port to provide instruction registration service for car DVR. default is 6608, does not propose to modify;

#### 4.3.3 Media Server

1. From the main CMSServer Server window, select "Login Server", "Service Configuration" button and then click on the top of the interface, media server can be configured in the form of pop-up network parameters, as shown below

💈 Server Manager							X	
Register	Register Database		WAN Address		WIFI Config	Fuit Sustern		
Web Config	Login	SMS Config		E-M-	ail Config	Storage Config	Exit System	
Start Service	Stop Service	Service Confi	J					
Server	Information				Run Time	Version	Exe Path	
Login Server	Ruphing - Runn	ing			00:21:47	6.11.0.3 201303	308 C:\Program	
Gateway Server	Running - Runn	ing						
Media Server	Running - Runn	ing	Media Server Preferences 🛛 🔀 👖					
User Server	Running - Runn	ing	Pegister Paramentera					
WIFI Download Server	Running - Runn	ing		negiste	i Falamenteis		n	
Storage Server	Running Runn	ing	Login Server IP 127.0.0.1					
MySQL Server	Running - Runn	ing in -			-		P	
Web Server	Rupping - Rupp	ing ing	Server Port 6605					
Watch Dog	rranning - rrann	mg			00110110		P	
					Server II	M1		
					Serverit			
			- C	Networl	Reprint the second s			
				Cli	ent Access Po	rt 6601		
				Deu	ica Accass Do	# 6602		
				Dev	ICC ACCESS FU	10002		
<							Cancel	
Run Time 00:18:49								

Pic 4.5 Media Server Configuration Parameter

Login Server Address: Login Server uses the PC's Server IP address. If the Media server and Login Server are on the same PC, you can enter 127.0.0.1, where the Media and Login Server resides on the same LAN, the IP configuration should be the LAN IP Address. If the enter log on to the server where the LAN IP address, and vice versa enter log on to the server where the PC's public IP address, and enter the Windows service to modify the properties on the media server login tab); 127.0.0.1 address is not valid in a particular case must input CMSServer server where PC's IP;

Server port: Client Access the Login Server service port, default 6605, not advised to change.

Server ID: Each Media Server has a unique number. The system can deploy one or more Media Servers, Login Server uses the unique number to distinguish between different Media server, the unique number must be the same as the ID of the Media Server, and server management information defined in CMSServer BackOffice Management System;

**Client Access Port:** Through this port to provide Media forwarding service, default is 6601 , does not propose to modify;

#### 4.3.4 User Server

1. From the main CMSServer Server window, select "Login Server", "Service Configuration" button and then click on the top of the interface, user server can be configured in the form of pop-up network parameters, as shown below:

🖗 Server Manage	er						×	
Register	Database	DIY	WA	WAN Address		T Config	Euit Custom	
Web Config	Login	SMS Config	E-M	lail Config	Stora	ge Config		
Start Service	Stop Service	Service Config						
Server	Information			Run Time	Ver	sion	Exe Path	
Login Server Gateway Server	Running - Runi Bunning - Runi	ning ning	User	Server Pre	ferenc	es		
Media Server	Running - Runn	ning	-Be	Benister Paramenters				
User Server	Running - Runi	ning						
Storage Server	Bunning - Bun	ning		Login Server IP 127.0.0.1				
MuSQL Server	Bunning - Bun	ning						
Web Server	Running - Runi	ning		Serv	er Port	6605		
Watch Dog	Running - Runi	ning						
				Se	rver ID	U1		
			-Ne	etwork Parame	eters —			
				Client Acce	ss Port	6603		
						Ok	Cancel	
		1111						
Run Time 00:19:19								

Pic 4.6 Media Server Configuration Parameters

Login Server Address: Login Server uses the PC's Server IP address. If the User server and Login Server are on the same PC, you can enter 127.0.0.1, where the User and Login Server resides on the same LAN, the IP configuration should be the LAN IP Address. If the enter log on to the server where the LAN IP address, and vice versa enter log on to the server where the PC's public IP address, and enter the Windows service to modify the properties on the User Server login tab); 127.0.0.1 address is not valid in a particular case must input CMSServer server where PC's IP;

Server port: Client Access the Login Server service port, default is 6605, not advised to change.

Server ID: Each User Server has a unique number. The system can deploy one or more User Servers, Login Server uses the unique number to distinguish between different User server, the unique number must be the same as the ID of the User server, and server management information defined in CMSServer BackOffice Management System;

**Client Access Port:** Through this port to provide registration and update data service, default is 6603, does not propose to modify;

🗟 Server Manage	er						×
Register	Database	DIY	WA	WAN Address WIFI Config			
Web Config	Login	SMS Config	E-M	lail Config	Stora	age Config	Exit System
Start Service	Stop Service	Service Config					
Server	Information			Bun Time	Ve	rsion	Eve Path
Login Server	Bupping - Bupr	vina	7	00.22.53	61	11 0 3 201303	08 C:\Program
Gateway Server	Ruphing - Runn	ning	wiei	Dame la a du	e	D	
Media Server	Punning - Runn	ning	WIFI	Download	server	Preferenc	es 🔼
User Server	Running - Runn	ning	Register Paramenters				
WIFI Download Ser	ver Running-Runn	ning					
Storage Server	Running - Runn	ning	Login Server IP 127.0.0.1				
MySQL Server	Running - Runn	ning					
Web Server	Running - Runn	ning		Serv	er Port	6605	
Watch Dog	Running - Runn	ling					
				Sa	rvar ID	D1	
				56	IVEITE		
			-Ne	etwork Parame	eters —		
					_		
				Client Acce	ess Port	6609	
			-				
				Device Acce	ss Port	6610	
					_		
<					ſ	Ok	Cancel
Run Time 00:19:55							

#### 4.3.5 WIFI Download Server

Login Server Address: Login Server uses the PC's Server IP address. If the WIFI Download Server and Login Server are on the same PC, you can enter 127.0.0.1, where the WIFI Download Server and Login Server resides on the same LAN, the IP configuration should be the LAN IP Address. If the enter log on to the server where the LAN IP address, and vice versa enter log on to the server where the PC's public IP address, and enter the Windows service to modify the properties on the WIFI Download Server login tab); 127.0.0.1 address is not valid in a particular case must input CMSServer server where PC's IP;

Server port: Client Access the Login Server service port, default 6605, not advised to change.

Server ID: Each WIFI Download Server has a unique number. The system can deploy one or more WIFI Download Servers, Login Server uses the unique number to distinguish between different WIFI Download Server, the unique number must be the same as the ID of the WIFI Download Server, and server management information defined in CMSServer BackOffice Management System;

Server Manage	r						×
Register	Database	Database DIY		WAN Address WI		/IFI Config	Fuil Curture
Web Config	Login	SMS Config	E-M	ail Config	Sto	rage Config	E XIC System
Start Service	Stop Service	Service Config					
Server	Information			Bun Time	Īv	ersion	Exe Path
Login Server Gateway Server	Running Runn Running Runn	ing ing	Storag	e Server P	refer	ences	
Media Server	Running - Runn	iing iine	Register Paramenters				
WIFI Download Server	ver Running - Runn	iing iina					
Storage Server	Running - Runn	iing		Login Serv			
MySQL Server	Running - Runn	iing iina		Server Port 6605			
Watch Dog	Running - Runn	iing					
		-		Serv	/er ID	S1	
			-Net	work Paramet	ers —		
				Client Acces:	s Port	6611	
			ſ	)evice Acces	s Port	6612	
					ſ	Ok	Cancel
<		1111			L		Cancer
Run Time 00:20:28							

#### 4.3.6 Storage Server

Login Server Address: Login Server uses the PC's Server IP address. If the Storage Server and Login Server are on the same PC, you can enter 127.0.0.1, where the Storage Server and Login Server resides on the same LAN, the IP configuration should be the LAN IP Address. If the enter log on to the server where the LAN IP address,

and vice versa enter log on to the server where the PC's public IP address, and enter the Windows service to modify the properties on the WIFI Download Server login tab); 127.0.0.1 address is not valid in a particular case must input CMSServer server where PC's IP;

Server port: Client Access the Login Server service port, default 6605, not advised to change.

**Server ID:** Each Storage Server has a unique number. The system can deploy one or more Storage Servers, Login Server uses the unique number to distinguish between different Storage Server, the unique number must be the same as the ID of the Storage Server, and server management information defined in CMSServer BackOffice Management System;

## 5. Server Registration

Free server version and the registered version only difference is to manage the number of vehicles. The free version can manage 20 vehicles. The registered version can manage the number of vehicles to be determined based on the serial number to developers.

## 5.1 Server registered version (free)

The free version of the CMSServer server without the server registration operation, data can be configured to use.

### 5.2 Server registered version

1. Click on the "Software Registration" menu item in the the CMSServer server control window.

🔉 Server Manager	Software Registration	×
Register Datab	Status Unregistered	
Web Config Logi	Vehicles 10	
Start Service Stop Se	Fence SMS Auto Down 3g Flow	
Server Inform	📘 Phone 🔲 Playback 🔲 Center Storage 🔲 Tracker	
Login Server Runni Gateway Server Runni Media Server Bunni		
User Server Runni		-
WIFI Download Server Runni Storage Server Runni	Signature 30303030303030303030303030303030303030	
MySQL Server Runni		
Web Server Runni Watch Dog Bunni	Copy To Clipboard	
	Help Please submit the signatures and the number of vehicles to the developers, to get the software serial number. Unregistered version only allows management of up to 10 vehicles.	
	Serial	
Run Time 00:21:07		
	Anti Registered Paste From Clipboard Register	

2. The software registration interface at this time you can see the signature of this server, as shown above the red box shown

3. When mouse click "Copy to clipboard" signature copied to the clipboard, you can also directly select the signature copy available to developers, this signature to obtain the corresponding serial number (including the management of vehicles quantitative information).

4. Paste it into the corresponding serial number provided by the developers of the signature sequence number window, as shown below:

Software Re	gistration					×
Status	Registered					
Vehicles	50					
V Fence	✓ SMS		🖌 Auto Down		✔ 3g Flow	
V Phone	🔽 Play	back	Center Sto	rage 🛛	Tracker	
Signature	2020202020574	42D574D419	59555638343838	3131		
				C	opy To Clipbo	ard
Help	Please submit the developer Vnregistered vehicles.	the signs s, to get version or	tures and the the software s ly allows mans	number serial m agement	of vehicles number. of up to 10	to
Serial	8D3FCB8BA4645 616970C5D0358 8500B1490F820 C29BA80EF3494 721A79FF5CBF3	38E5103793 9F1D8D1DE0 7E8708F6A BDCE49A7A 6528DC591J	3E4226CEE02638 COED9D6F611B11 7E63CF98B30239 A44FC8E36B6959 33	E14E6C1 68E787D A763C86 C505FAB	C9387323CBBA6 B7040413761A5 0894BD212226B 28D382038D118	C5 A F9 FC E4
Anti	Registered	Paste 1	rom Clipboard		Register Agai	n

5. Click "Register" button to complete the registration. If you want to see the Software Registration information, Click CMSServer server control interface "Software Registration" button will pop up the software registration information. This registration information has been saved to the registry service where PC users to replace the network card or hard drive, as well as software feature codes change, need to re-obtain the serial number.