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# 3G Server Setting Manual

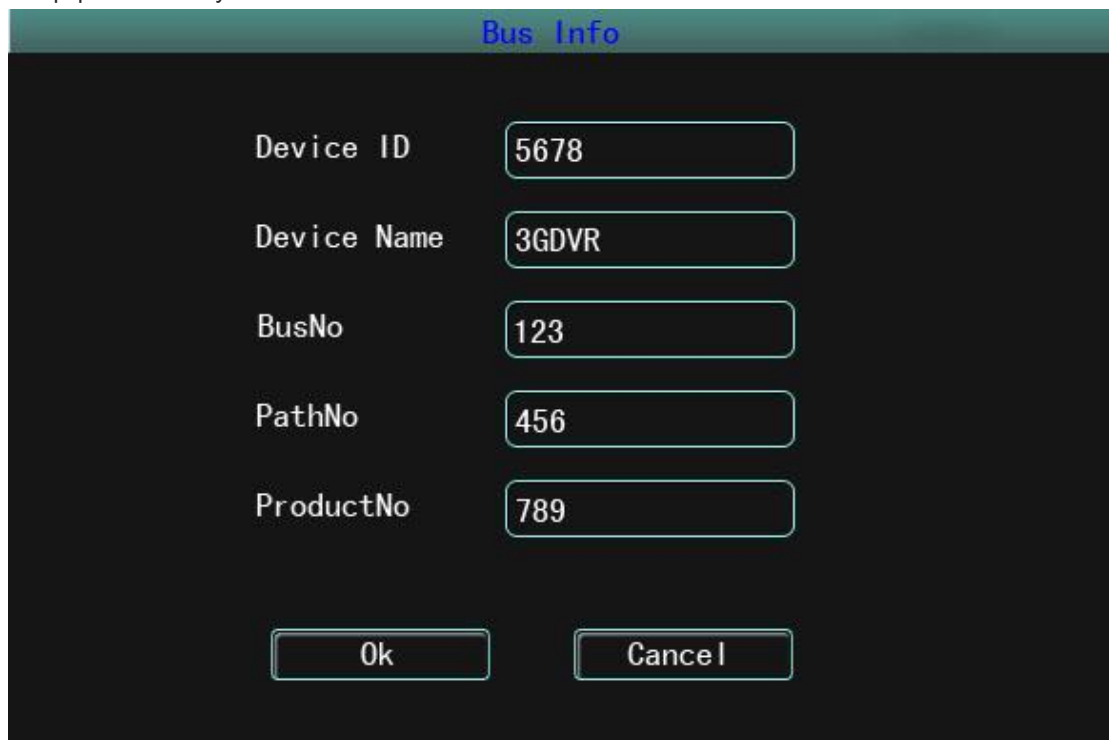
The mobile DVR support 3G wireless network transmission, there are some necessary settings we need to make before we can use this function. The settings mainly includes three parts:

- > Settings on the mobile DVR equipment
- > Server software configuration
- > Login on the client software

## 1. Settings on the mobile DVR equipment

### 1.1.Set the bus information

Path of the setting menu: 'MENU'--->'Bus info'. As shown in Figure 1 , the "Bus no." field which is the unique identifier of the device , is mandatory. The 'Bus no.' should be the same with the equipment when you add device to the server.



Bus Info	
Device ID	5678
Device Name	3GDVR
BusNo	123
PathNo	456
ProductNo	789
<div>Ok Cancel</div>	

Figure 1

### 1.2.3G dialing configuration

Path of the setting menu: 'menu'--->'config'--->'network'--->'3G'. As shown in Figure 2:

3GSet

3G Type EVDO ▼ Type Always ▼

User Name card

Password \*\*\*\*\*

Phone #777

APN 0

Ok Cancel

Figure 2

**Type:** there are two types to select: WCDMA and EVDO, you can choose one math with the 3G module of your device.

**Connection:**

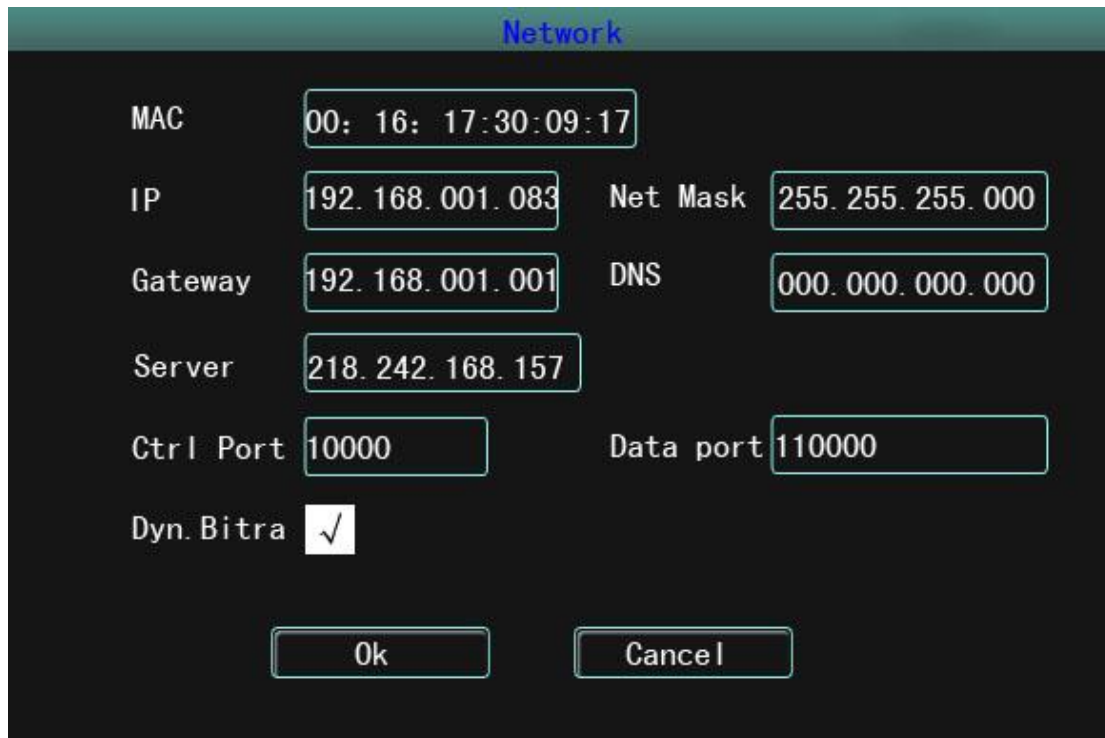
**Always:** The 3G dialing will continue until it succeed

**User name/password/phone/APN:** you need to get these parameters from your 3G service supplier.

### 1.3.3G server center settings

1) Path of the setting menu: 'Menu'--->'Config'--->'Network'--->'Local'.

As shown in Figure 3, you can set the server parameters according to your situation.



The image shows a 'Network' configuration window with a dark background and light blue text. It contains several input fields for network settings. The fields are arranged in a grid-like fashion. At the bottom, there are 'Ok' and 'Cancel' buttons.

Field	Value
MAC	00: 16: 17:30:09:17
IP	192. 168. 001. 083
Net Mask	255. 255. 255. 000
Gateway	192. 168. 001. 001
DNS	000. 000. 000. 000
Server	218. 242. 168. 157
Ctrl Port	10000
Data port	110000
Dyn. Bitra	<input checked="" type="checkbox"/>

Figure 3

**Server center:** the public IP address of the 3G server

**Ctrl port:** port for communication interaction command, using TCP, default value: 10000

**Data port::** port for video and audio transmission, using UDP, default value: 11000

**Dynamic bitrate:** adjust the bit rate of the stream dynamically according to the realtime network situation.

MAC, IP address, mask, gateway, **DNS:** these options are not mandatory, you do not have to set them.

## 2) The address of the server center

- If your server has a public IP address, just set it in the "server center" field.
- If your server connect to the public network through a router, you need to forward the service ports of the server to the router first. (You can forward the service ports following the user manual of your router.)

## 2. Settings on the server software

Install the server software , double click 'DVRServer.exe', a window as shown in Figure 4 pop up:

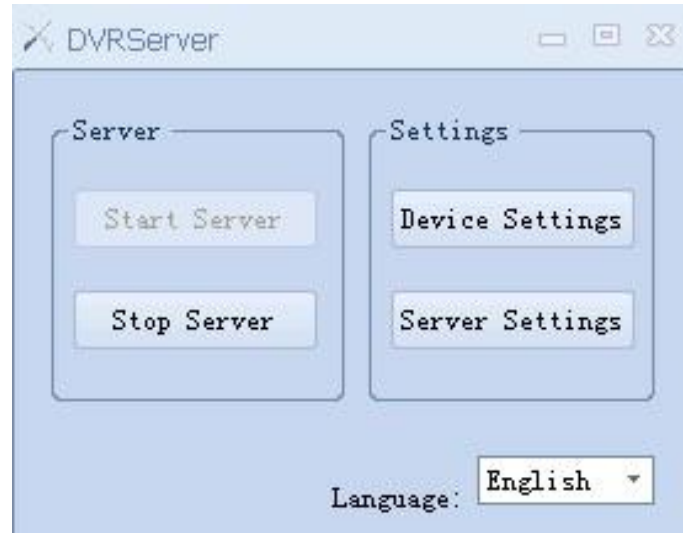


Figure 4

### 2.1. Device management and user management

Click the “device configuration” to enter the device and user management window ,as shown in the following Figure 5

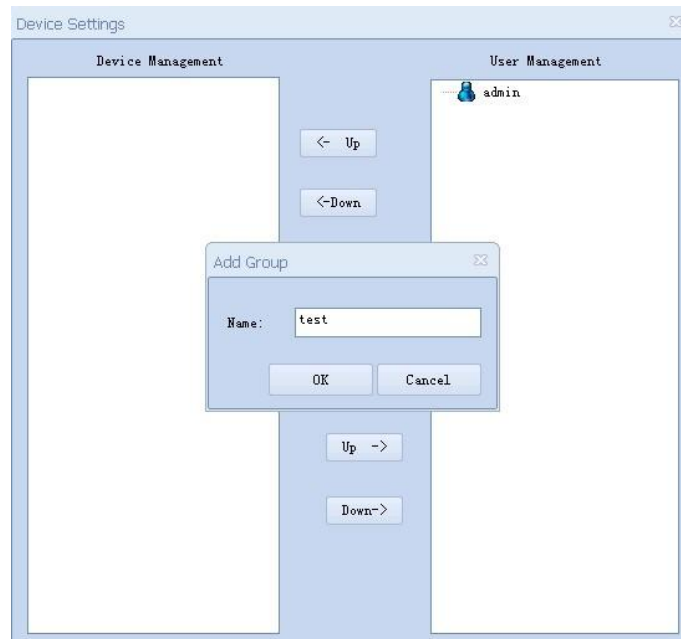


Figure 5

1) Add a group to the device group zone on the left:

Right click on the blank of the device group zone , select “add group” from the menu pops up,

input the group name in the add group dialog , then press the 'confirm' button to add a new device group, as shown in the following Figure 6

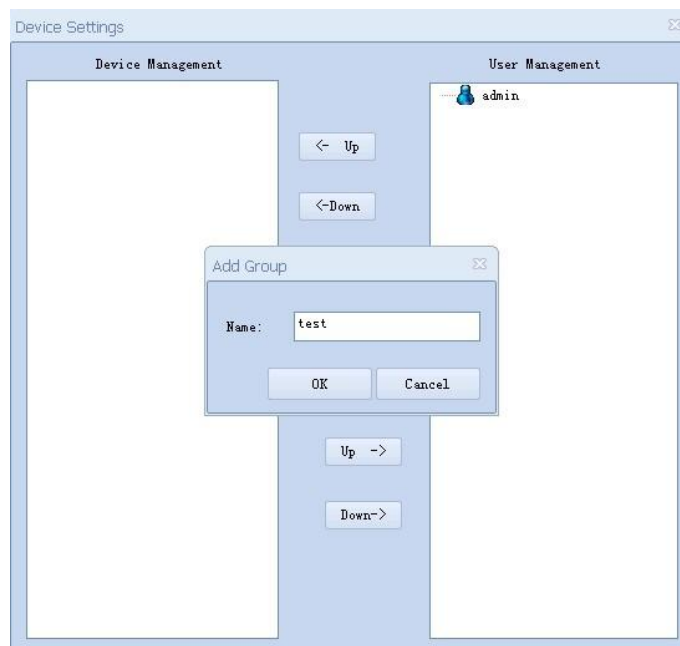


Figure 6

## 2) Add a device to the group

Right click on a device group , select “add device” from the menu pops up, an add device dialog will show up as shown in **錯誤! 找不到參照來源。**

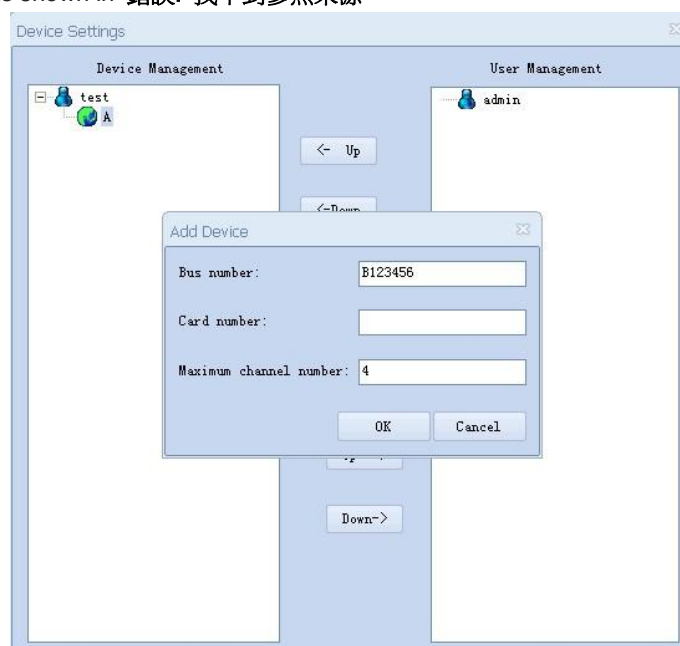


Figure 7

**Bus no. :** the unique identifier of the MDVR equipment

**Note:** your device can't connect to the server if you have not added your device to the server.  
The device will show that 3G dialing succeed but can't connect to the server.

**Card no.:** no use currently

**Channel number:** number of your channel , default value is 4, do not need to modify it.

3) Add a user to the user group zone on the right

Right click on the blank of the user group zone , select “add user” from the menu pops up, a dialog for user adding will show up(Figure 8) , set the username(no more than 15 characters) and password(no more than 9 characters) .

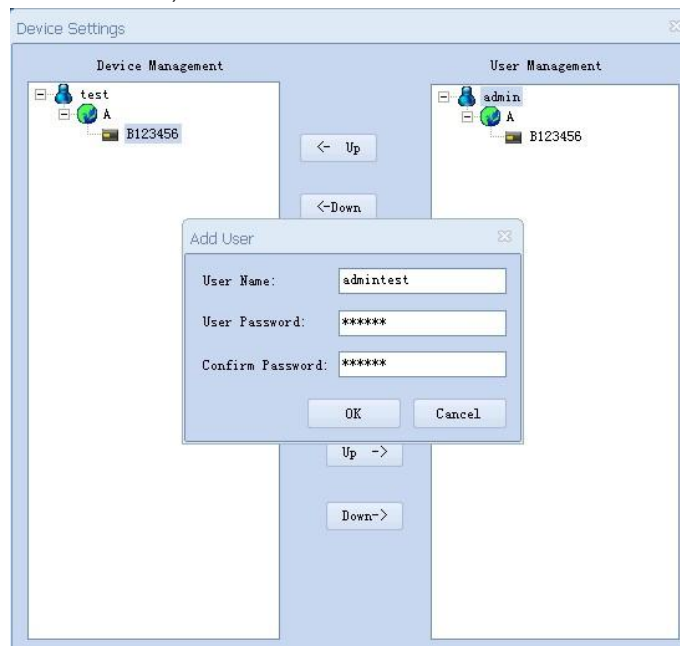


Figure 8

**Note:** when you use the client software to connect to the server , you will need the username and password we have set here.

4) Assign device to user

Select a device from the device group , select a user from the user group , then press the “>>>>” button to assign the device you select to the user you select. You can press the “<<<<” button to delete a device from the group or delete the whole group.

**Note:** only after you have assigned devices to a user , you can see these devices when you use the user to login the server with the client software.

## 2.2.Service settings

Click the “service configure” , set the service ports and other fields on the service setting window as shown in the following picture

Server Settings

**Port Settings**

Control Port: 10000

Data Port: 11000

**Foundation Set**

Max device number: 1000 (Table)

Device is not online days: 10 (Day)

**Log management**

☐ No Log File

☒ Base Log

☐ All Log

Log file size: 50 (MB)

Keep the latest: 10 days log

**Record Path**

...

**GPS forwarding**

☐ GPS forwarding

Send IP:

Send IP Port:

**Alarm recording channel**

☒ 1 ☒ 2 ☒ 3 ☒ 4

☒ 5 ☒ 6 ☒ 7 ☒ 8

OK Cancel

Figure 9

Ports configuration: set the control port and data port for the server to listen .

Log manage: set save the log information or not , set the size of the single log file, set how long the log files will be reserved.

### 2.3.Start the Service

After the configuration finished , click the “start” button to start the service.



### 3. Login with the Client Software

Install the client software , double click on the “DVRClient.exe”, a dialog as shown in the picture below will pop up, set the fields and login the server .



The screenshot shows a 'Login server' dialog box. It contains the following fields and controls:

- User Name:** Text box containing 'admin'.
- PassWord:** Text box containing '\*\*\*\*\*'.
- Server Address:** Text box containing '116.247.83.157'.
- Server Port:** Text box containing '10000'.
- Language:** A dropdown menu showing 'English'.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom left.
- Save password:** A checked checkbox at the bottom right.

Figure 10

**Username/password:** Use the username and password you have added to the user group of the server before (refer to 3.1 device management and user management)

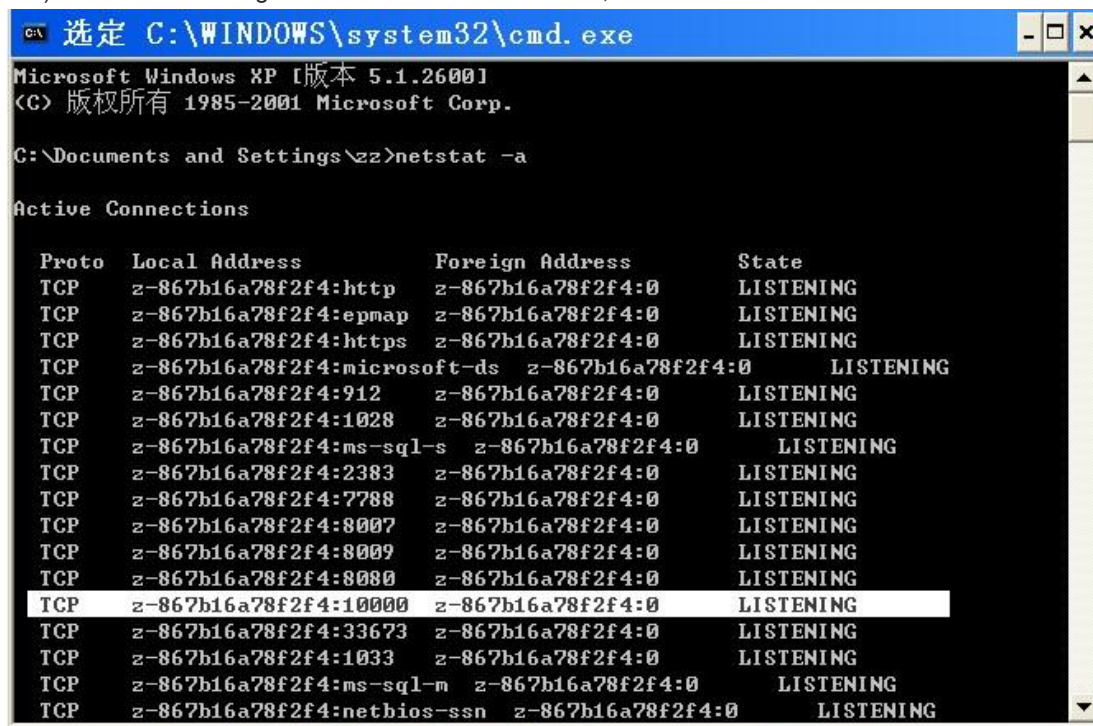
**Server IP:** The public IP address of the server center

**Server port:** Use the control port you have set on the server software(refer to 3.2 service settings).

## 4. Q & A

How can i judge whether the server work normally or not ?

- a) Local checking: use the “netstat -a” command , as below



```
C:\Documents and Settings\zz>netstat -a

Active Connections

Proto Local Address          Foreign Address         State
TCP   z-867b16a78f2f4:http    z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:epmap   z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:https   z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:microsoft-ds z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:912     z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:1028    z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:ms-sql-s z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:2383    z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:7788    z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:8007    z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:8009    z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:8080    z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:10000    z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:33673   z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:1033    z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:ms-sql-m z-867b16a78f2f4:0      LISTENING
TCP   z-867b16a78f2f4:netbios-ssn z-867b16a78f2f4:0      LISTENING
```

We can see in the picture that the port 10000 has been listened , it means the server software start already and work normally in local.

- b) Public network checking : take the public IP address 116.247.83.157 and control port 10000 as an instance , execute the following command “telnet 218.242.168.157 10000” in the command line, if a interface as below pops up , it means you service is available for the public network.

