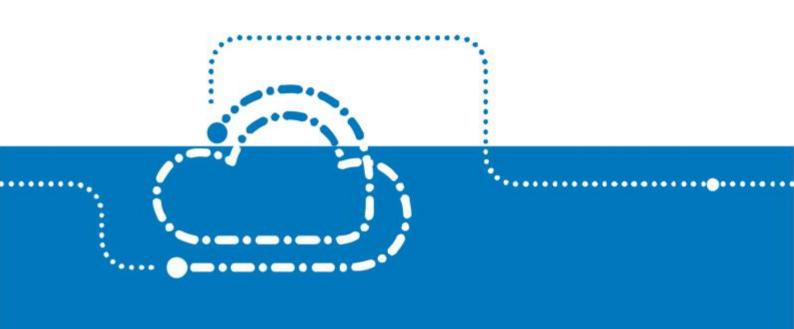


# ZXIMCUP300PortableEmergencyCommandSystemOperationManual



## Version update instruction

Version	Date	Author	Auditor	Remark
1.0	2021-01-19			

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# 1 Overview

ZXIMCU P300 Manpack Emergency Command System highly integrates base-band unit, radio unit, core network and multimedia dispatch, quickly implements the on-site deployment of LTE emergency network, provides rich LTE-based services such as professional trunking call, multimedia dispatch, real-time video transmission, GIS location, audio/video full duplex call, etc., which is widely adopted in emergency response scenarios such as forest fire protection, fire emergency, earthquake rescue, production safety, government affairs network blind spots coverage. The system supports various backhaul modes such as satellite, Mesh, optical fiber, microwave and carrier network etc.

P300 is designed into two versions, with battery version and without battery version as shown in the following two figures. The P300 with battery version can work continuously to at least 4 hours without external power supply. The without battery version should connect to external power supply with dedicated power adapter.

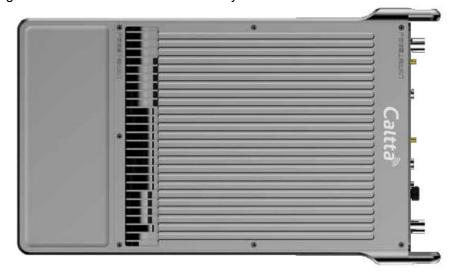


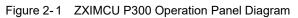




Figure 1-2 ZXIMCU P300 without battery



# 2 ZXIMCU P300 Product Specification





1	Core Network Switch	Mainly used for acting as a blind spot coverage station when P300 is used as a stand-alone station	7	Service Network Interfaces	Network interfaces used by service
2	Power Input Interface	Used for connecting with external power supply	8	Antenna Interface	Antenna Interface
3	12 V Power Output Interface	Provide 12V power supply output	9	GPS Interface	Connect with GPS antenna
4	Power Switch	Control both base station and core network	10	Device Indicator	Device status indicator



5	Wi-Fi Interface	Connect with WiFi antenna	11	Display Screen	Used to check and adjust device statue
6	DEBUG Interface	Used for base station debugging	12	Operation Knob	Used to control display screen

# **3** Network Architecture Introduction

Caltta LTE portable emergency command system is based on AlI-IP flat network architecture. The system follows B-TrunC Broadband Trunking standard, integrates LTE core network iEPC, professional voice and video trunking network DSS, multimedia dispatching server MDS, base station system and terminals, and provides end-to-end multimedia command and dispatch solution. While providing kinds of multimedia service such as voice, video and data, the system can also support data bearer and transmission for the third-party, keeping the system in openness.

LTE Portable Emergency Command System network topology is shown as follows:

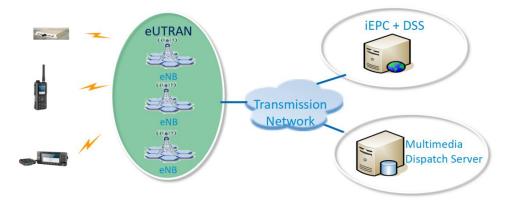


Figure 3-1 System Network Architecture

Remark: The network architecture diagram of the system is a schematic diagram of each network unit. The physical form of the device is determined by different products.

LTE core network iEPC is a common LTE core network device complying to 3GPP standard specification, consists of MME, S/P-GW, and HSS, which is used for providing common LTE services.

Trunking core network system DSS is composed of PDS and DAS. PDS provides trunking services for trunking users. DAS provides dispatching services and industry customized services.



Multimedia dispatching server MDS has various functions such as mobile video surveillance, Video pull, video distribution, video dubbing, etc.

## 4 Dispatching PC Configuration

Both common PC or laptop can be used as dispatching PC. The PC operating system requires Win 7 or above.

## 4.1 IP Address Setting

The IP address of PC needs to interconnect with the IP address of MDS server (defaults to 192.168.13.20) and the IP address of trunking dispatch console (defaults to 192.168.13.21). Interconnecting to OMM IP address is also required while login the OMM system.

The following two IP addresses can be configured individually in the LAN to communicate with MDS dispatch console, trunking dispatch console and OMM system, to login the dispatch console (in the LAN, the IP address of the dispatch console needs to be set in the same network segment with the trunking dispatch console and MDS dispatch console, and there is no IP address conflict):

192.168.13.160/24

192.168.90.160/24

Open the PC command terminal and add a static route for the direct access to the individual device, CPE and camera:

route add 45.45.0.0 mask 255.255.0.0 192.168.13.80 -p

```
Figure 4-1 Adding Route
```

Administrator: Command Prompt

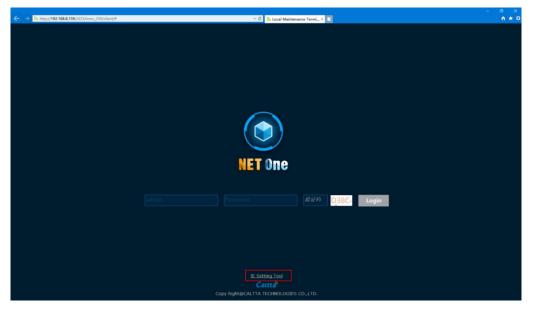
```
operable program or batch file.
C:\Users>
C:\Users>
C:\Users>route add 45.45.0.0 mask 255.255.0.0 192.168.13.80 -p
```

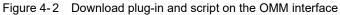
## 4.2 IE 11 Browser Setting

Login to the OMM system via browser. Support both IE and Chrome browser. If using IE browser, version 11 is required.



Before logging in, make sure the PC has been installed with Adobe flash player and the IE settings are correct, otherwise the OMM interface may not open. The Adobe flash player plug-in and IE setting script can be downloaded and installed on the OMM interface.





Script setting of IE trusted site:

Extract the following compressed package (or the batch file downloaded from the OMM), open Internet Explore11 to set up the script:



Input the OMM server address in the CMD window, which defaults to 192.168.90.129.

Figure 4-3 Trusted site script setting of IE browser

ndows\system32\cr trusted sites					
enter server	Enter 1	to s	kip):192.	168.90.129	

Press Enter button after inputting the IP address, the script will set up automatically. Click any key to exit when finishing set up.

## 5 Trunking Services Operations

## 5.1 Operations of DAS Unified Dispatch Console

#### 5.1.1 Dispatch Console Installation

Install the dispatch console software on the PC in advance and login the DAS dispatch console via the CS client.

Input the defaulted IP address 192.168.13.21 in the IE browser, then it will enter into the interface of plug-in and client downloading.

After downloading the client and plug-in., install the plug-in first, then install the client later according to the defaulted settings. Restart the PC after the installation.

6 http://192.168.13.21/ids/download.html	,D + → ● 192.168.13.21 ×		
	调度台客户端	<b>Download Client</b>	
	VC2013_x32		
		Download	
	dotNetFx45_Full_x86_x64	Plug-ins	

Figure 5-1 Downloading client and plug-ins of the dispatch console

#### 5.1.2 Dispatch Console Login

Double click the DAS dispatch console icon and open the software. The DAS software will pop up the IP selection interface if the fixed IP address changes or for

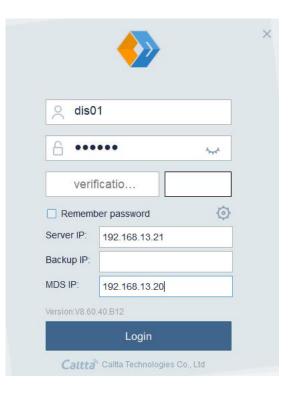


first time login. Select 192.168.13.160 as the dispatch console local IP address. Click **OK** to enter the login interface.

Plea	se select loc	al IP	
	192.168.8.160		
	192.168.13.160		
	192.168.90.160		

Figure 5-2 Selecting dispatch console local IP address

Figure 5-3 Login interface of the dispatch console





Input the account number and password on the login interface of dispatch console,

select Remember Password and click the setting icon on the right side, Input the server IP address (IP address of the trunking dispatch console) and MDS IP address, then click Login to login in the dispatch console. The defaulted parameters of the dispatch console are as follows:

Account number: dis01, Password: 666666

Server IP address (IP address of the trunking dispatch console) : 192.168.13.21

MDS IP address: 192.168.13.20

Tip 1: Modifying the Local IP Address of the Dispatch Console

Enter to the login interface of the dispatch console after the local IP address is configured. Will fail to access to the server if selecting the wrong IP address.

There are two methods to modify the local IP address:

1. Method 1: Delete the local fixed IP address and add another IP address, then re-select the IP address.

2. Method 2: Modify the configuration file in the DAS software installation directory. Change the local IP address by modifying the localIP=192.168.13.160 in the "config.ini" file.

#### 5.1.3 Dispatch Console Interface Introduction

The dispatch console interface is shown as follows after login:



<b>C</b> 2	121-01-28 <b>19:15</b>	Multimedia Cluster DAS	/		- 8	×
<b>8</b> 10159				ControlList		
08 ☐ Video	Floot         ()           ()         Chart Statuti         ()	LESSOSS	UEB923			

Figure 5-4 Dispatch console interface

#### 5.1.3.1 Dispatch Console Interface Layout

Figure 5-5 Dispatch console interface layout

0 2	221-01-28 19:15	/	Multimedia Cluste	ar DAS			- 8 ×
<b>X</b> 10158_	$ \mathcal{P}_{\Theta}^{i} $ Temporary $  _{\Theta}^{ii} $ Groups $  _{\mathcal{N}}^{i} $ Dynamic				Emergency	⊖ControList	()Activaty III
HHH Dispatch Gais Viceo	Fleet         ()           Q. Enter react:         ()           ()         ()           ()         ()           ()         ()           ()         ()           ()         ()           ()         ()           ()         ()           ()         ()           ()         ()           ()         ()           ()         ()           ()         ()           ()         ()	() UE999911 ()	ureaccean		® 992328		
	Crise_0((1019000000))     Crise_0(1019000000)     Crise_0(1019000000)						
<ul> <li>CUS</li> <li>MARSS</li> <li>MOS</li> </ul>	0 G154 ge(105400000)         (0) G150 (12) (15000012)         (0) G150 (12) (15000013)         (0) G150 (12) (12) (15000013)         (0) G150 (12) (12) (12) (12) (12) (12) (12) (12)						

The dispatch console interface is divided into four areas as shown above, introduction of each (marked with number) is as follows:

• Area 1: Menu area, with five icons of Dispatch, GIS, Video, History and Setting, corresponds to different interfaces.



- Area 2: User list area, which shows the authorized users of the system and user online status. The hand-held terminal means default fleet user, individual device means camera user. Click the icon on the upper right corner of user list to display or hide the user list.
- Area 3: Toolbar and shortcut tools of trunking functions, such as temporary group, dynamic regroup, emergency alarm, etc..
- Area 4: Function display area which displays different functions of dispatch, map, video and so on according to menu selections.

#### 5.1.3.2 General Operations of Trunking Dispatch

Select **Dispatch** on the menu and enter the dispatching interface.

#### Adding users to the dispatching operation area:

Select the user / group / dispatch console that needs to be dispatched on the user information list, double click to add the user / group / dispatch console to the dispatching operation area. Or right click and select Voice Dispatch to add the user / group / dispatch console to the dispatching operation area.

Restart       Restart       Control Lat         Planta       Restart       Restart       Restart         Restart       Restart	-
Druptich     Q: Ender Statute 1       DB:     17 Type       D::     0: detaut fore(0505)       D::     0: detaut fore(0505)       Video     R. Lessons(11:04)       D::     0: detaut fore(0505)       <	
* * amacd 2001       * information         * * information       * information         * information       * information </th <th>0.% ≍ {}</th>	0.% ≍ {}

Figure 5-6 Add user to dispatching operation area

#### Remove users from dispatching operation area:

Move cursor to the user to be removed, right click and select **Remove dispatch**.



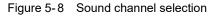


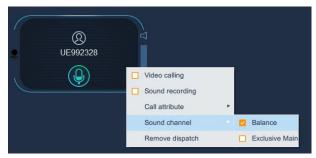
Figure 5-7 Remove user from dispatching operation area

#### Sound channel selection:

When the dispatch console dispatches users, groups or dispatchers, it supports switching between balance channel model and exclusive main channel model.

Right click the user/group/dispatcher and select **Sound channel** from the shortcut menu. The corresponding channel can be selected as required. By default, balance channel is selected.



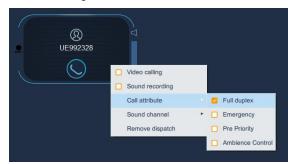


#### User call attribute setting:

Move cursor to a user, right click and select **Call attribute** from the shortcut menu. Select the corresponding call attribute as required. If select **Full duplex**, the dispatch console will make a full duplex call with the user. Otherwise, it is a half-duplex call.

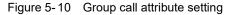


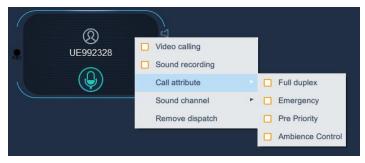
#### Figure 5-9 User call attribute setting



#### Group call attribute setting:

Move cursor to a group, right click and select **Call attribute** from the shortcut menu to select a call attribute as required.





#### Dispatcher call attribute setting:

Move cursor to the dispatch console, right click and select **Call attribute** from the shortcut menu to select the call attribute as required.

#### Figure 5-11 Dispatcher call attribute setting





#### 5.1.3.3 General Operations of GIS Dispatch

Select **GIS** from the menu, display the map interface.

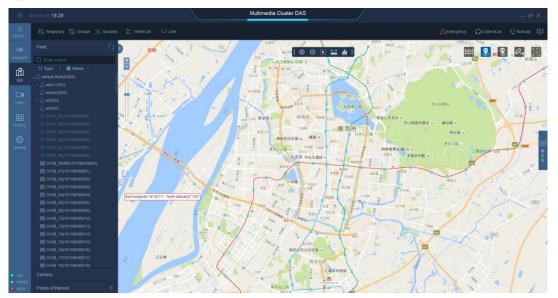


Figure 5-12 GIS interface of the dispatch console

The dispatch console supports both online and offline maps. Make sure the dispatching PC has been connected to the map server before logging to the dispatch console. If using online map, the PC is required to access to Internet before logging to the DAS dispatch console, otherwise map data cannot be loaded.

Similar to general map operations, zoom in or zoom out the map by scrolling the mouse wheel, drag the left mouse button to move the map, and search for locations.

The toolbar : ⊙ ⊙ N . The is on middle top of the map , which provides functions of Zoom in, Zoom out, Frame select, Ranging, Clean, and so on.

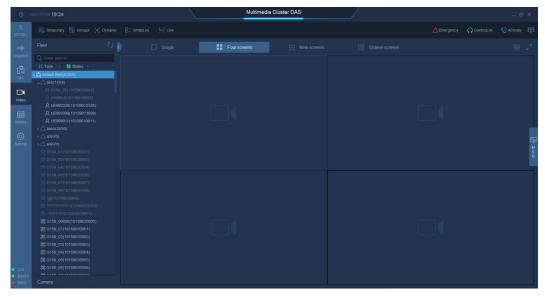
#### 5.1.3.4 General Operations of Video Dispatch

Select **Video** on the menu to display the video dispatching interface

The upper part of the video dispatch area is the split-screen control button, which controls the single screen, 4-split screen, 9-split screen, and 16-split screen of video display. It also controls self-defined split screen, self-defined allocation and editing, and split screen / full screen display. The system displays different video split screen layout in accordance with different split screens, and switches the number of displayed screens.



Figure 5-13 Video dispatch interface



#### 5.1.4 Dispatch Console Initiates a Half-duplex Voice Private Call

Move cursor to the user on the trunking dispatch interface, right click and select **Call attribute** from the shortcut menu and and uncheck the "Full duplex" option;.

Click the call origination icon in the middle, the terminal automatically joins the call, the dispatch console has the floor, and the terminal can hear the voice of the dispatch console.

During the call, you can change the sound channel and choose whether to locally record the call.

Move cursor to the upper part of the terminal that is calling, and click is to release the floor or apply for the floor.

After dispatch console releases the floor, the terminal can apply for the floor by pressing PTT button.

Move cursor to the top of terminal that is calling, click 🖾 to end the call.

The following figure shows the status of call origination, dispatch console speaking in progress, and call idle.

Figure 5-14 Dispatch console initiates a half-duplex voice private call



#### 5.1.5 Dispatch Console Initiates a Full-duplex Voice Private Call

Move cursor to the user (**Call attribute** defaults to **Full duplex**) and click the Call origination icon in the middle, then the dispatch console and corresponding terminal will ring. After the terminal answers the call, the full duplex voice call is established.

During the call, you can change the sound channel and choose whether to locally record the call.

Move cursor to the user that is calling, click 🖾 to end the call.

The following figure shows the status of call origination, callee is ringing, and call is established.

Figure 5-15 Dispatch console initiates a full-duplex voice private call



#### 5.1.6 Dispatch Console Initiates a Full-duplex Video Private Call.

Move cursor to the user (**Call attribute** defaults to **Full duplex**) and right click, select **Video calling**, the dispatch console and terminal will ring. After the terminal answers the call, the full-duplex video call is established. The video of the terminal and the dispatch console itself are displayed in the lower right corner of the interface, double click the video to display in full screen.

During the call, you can change the sound channel and choose whether to locally record the call.

Move cursor to the user that is calling, click 🖾 to end the call.

The following figure shows the status of call origination, callee is ringing, and call is established.

Figure 5-16 Dispatch console initiates a full-duplex video private call

©	<ul> <li>Video calling</li> <li>Sound recording</li> <li>Call attribute</li> </ul>	(2)	Q
∪E992328		UE992328 ←1	UE992328     □
	Sound channel	00:00.00 O	00:00:22



#### 5.1.7 Dispatch Console Initiates a Voice Group Call

Move cursor to a group and click Initiate Call in the middle, the terminals in the group will automatically answer the call and establish a voice group call. By default, the dispatch console has the floor.

During the call, you can change the sound channel and choose whether to locally record the call.

Move cursor to the upper part of the group call in progress to display floor switch icon,

then click 🖳 to release floor or apply for floor.

After dispatch console releases the floor, terminal can apply for floor by pressing PTT button.

Move cursor to the bottom of the group call in progress, the call termination icon will be displayed. Click to end the call.

The following figure shows the status of call origination, call in progress, before apply for / after release the floor .

Figure 5-17 Dispatch console initiates a voice group call



#### 5.1.8 Dispatch console initiates a video group call

Move cursor to a group, right click and select **Video group call**, the terminal will automatically answer the call and establish a group video call. Video will be displayed in the lower right corner. By default, the dispatch console has the floor.

During the call, you can change the sound channel and choose whether to locally record the call.

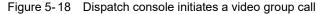
Move cursor to the upper of the group that is calling, the floor switch icon will be displayed, then click 🕑 to release the floor or apply for the floor.

After dispatch console releases the floors, the terminal can apply for the floor by pressing PTT button.

Move cursor to the bottom of group call in progress, the call termination icon will be displayed. Click it to end the call.

The following figure shows the status of call origination, call in progress, before apply for / after release the floor .



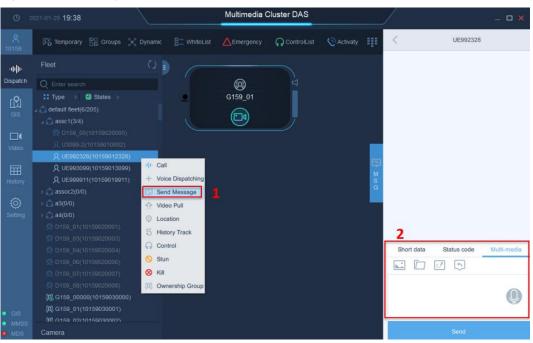




#### 5.1.9 Sending SMS and MMS

Move cursor to an online user in the user list, right click and select **Send Message** from the shortcut menu to send SMS and MMS to the terminal. Multiple file formats are supported (up to 20 MB).

Group operation is also supported. Right click a group to send SMS and MMS to the online group members.





#### 5.1.10 Forced Release and Forced Insertion by the Dispatcher

#### **Forced Release**

The dispatcher can forcibly release a private call or a group call in progress. When a terminal initiates a call, the call activation list on the dispatch console will display the ongoing call.



Select the ongoing call, and click 🖾 to forcibly release the call.

Figure 5-20	Forced	release	by the	dispatcher
i igui o o Lo	1 01004	1010400	<i>b j</i> and	alopatorior

🆓 Temporary		₿⊒ WhiteList			ControlList
Start Time					
19:44:23	Normal Call	Group call	UE992328(新1.4G基站	.G159_01	୬ ନ୍ର 🔍

#### **Forced Insertion**

Forced insertion is only applicable to group call. When a terminal initiates a group call and the group is not added to the dispatch area (if the group is already added to the dispatch area, the dispatcher participates in the group call by default and can directly apply for the floor), the dispatcher can directly obtain the floor by forced insertion.

When a terminal originates a group call, the call activation list on the dispatch console will display the ongoing group call.

Select an ongoing group call and click is to insert the call. The group will be automatically added to the dispatch area and the dispatch console obtains the floor.

Figure 5-21 Forced insertion by dispatcher

R Temporary	📴 Groups 🔀 Dynamic	₿ — WhiteList			ControlList	y III
Start Time						
19:44:23	Normal Call		UE992328(新1.4G基站	G159_01	) n -رو <u>ر</u>	N,

#### 5.1.11 Dynamic Regroup

The dispatch console can dynamically regroup users based on the target group, and add users that do not belong to the group to this group through the dynamic regroup function to implement unified dispatch.

Click **Example** on the toolbar of the dispatch console, open the dynamic regroup interface.



Double click the target group in the user list to add it.

Select the users to be added from the user list, the users will be shown in the dynamic member list.

Click Save, the user will be added. The system will automatically send the group information to the new member.



To remove a dynamic member, click  $\bowtie$  under the corresponding member.

New Dyn	amic Group		×
	Select Dynan	nic Members Fro	m tree
Number	10159030	0001	
Name	G159_01		1
			(New add:0/Total:0)
	)1		nanent member $ imes$
UE9999	911	Pem	nanent member $ imes$
UE9923	328	Pem	nanent member $ imes$
UE9930	999	Pem	anent member $ imes$
	Number Name Permaner U2167- C D159_C UE9992 UE9922	Number10159030NameG159_01Permanent member(5)/CU2167-4	Select Dynamic Members From         Number       10159030001         Name       G159_01         Permanent member(5)/Dynamic member         U2167-4       Perm         Q       D159_01       Perm         UE999911       Perm         UE992328       Perm

#### 5.1.12 Temporary Group Call

Different from dynamic regroup, temporary group call is to temporarily create a group. The group will disappear when it is removed from the dispatch area. To the contrary, the group information of the dynamic group will be saved and can be dispatched later.

Click Click Click Temporary on the toolbar of the dispatch console to open the temporary group interface. Input a temporary group name, and double click the user to be added from the user list.

To remove a dynamic member, click  $\bowtie$  on the right side of the member.

Click Save to add the user, the group will be added to the dispatch area by default, so that group dispatch can be performed for the temporary users.



,	remporary	group our		
		Temporary group		×
		Please enter a name	a temporary grou	p
		Selected member	(0)	1
		User Number		
		Cancel	Save	

#### Figure 5-23 Temporary group call

#### 5.1.13 Emergency call

In case of emergency, you can press the SOS emergency call button on the terminal to send an emergency call to the dispatch console and other terminals in the group.

The dispatch console can display the information of the user who initiates an emergency call and the time when the user initiates the call.

The dispatcher can click is to intervene the emergency call and switch to voice group call, and contact the user or other group members for proper handling.

Figure 5-24 Emergency call

Reference Temporary 🚰 Groups 🔀 Dynamic	د¢mu		G ControlList CActivaty
Start Time			
19:51:17	UE992328	00:00:09	ઝ

### 5.1.14 Dispatch Console Location

Select **GIS** from the system menu, and switch to the GIS interface. Move cursor to a user, and the user will be highlighted. Right click the user and display the operation menu.



Click **Location** to locate the terminal user. When the terminal has displayed the positioning status, click **Cancel Location** to end the positioning.

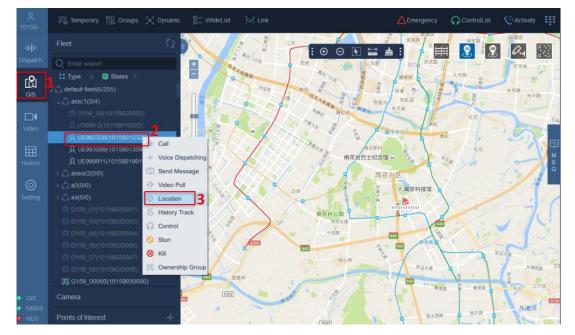


Figure 5-25 Dispatch console location operation

The location is successful if the terminal information is shown on the map. Move cursor to a terminal on the map, the detailed location information will be displayed in the following red box 1.

Click a terminal to dispatch it on the map, as the following red box 2.

Click 0 to end the location. Click 0 to display the moving path of the terminal. Click 1 to pull the terminal video. Click 1 to send a message. Click 1 to initiate a voice call.

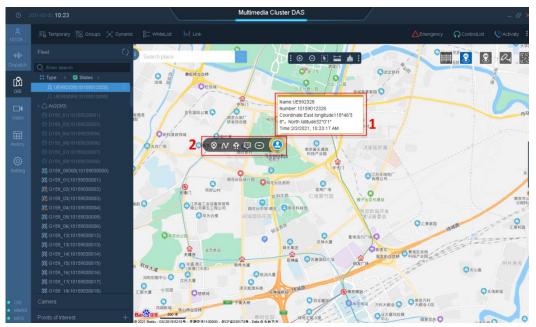


Figure 5-26 Map interface display and operation

#### 5.1.15 Frame Select and Dispatch on the Map

Frame select terminals on the map to make a temporary group call.

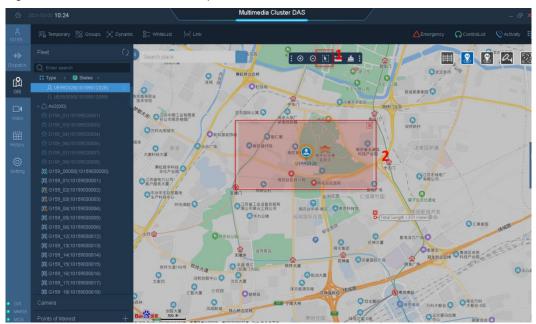


Figure 5-27 Frame select on the map

Tick the terminals in the pop-up box that need to be called, and click **Call** to start the group call.



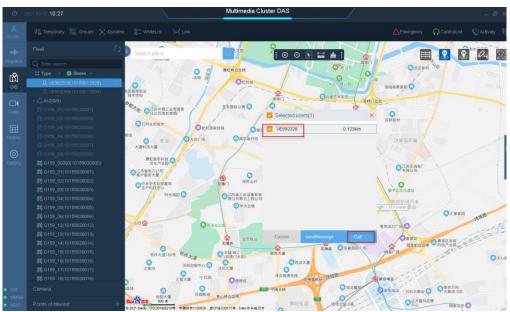


Figure 5-28 Frame select and dispatch on the map

#### 5.1.16 Dispatch Console Initiates Video Pull.

Select **Dispatch** on the system menu, and then switch to the Video Dispatch interface. Move cursor to a user, the user will be highlighted. Right click the user to display the operation menu.

Select **Video Pull**, the terminal video can be pulled to the dispatch console (the setting of the terminal video dispatch is configured correctly and registered successfully).

If **auto Rcv & Push** is not ticked in terminal video dispatch setting, the video will be pulled to the dispatch console only after the terminal answers manually.



 Image: Section of the property in the control of initial control of initinitial control of initial control of initi

Figure 5-29 Dispatch console initiates a video pull

Adjust the number of terminal videos to be displayed on the upper area of the Video interface. Click is to customize the display mode.

Move cursor to the toolbar on the bottom of video display window, click to end the Video Pull. Click to capture the video image. Click to capture the video images continuously. Click to record video. Click to distribute the terminal videos.

Click and it to control the speaker and microphone of the two-way voice.



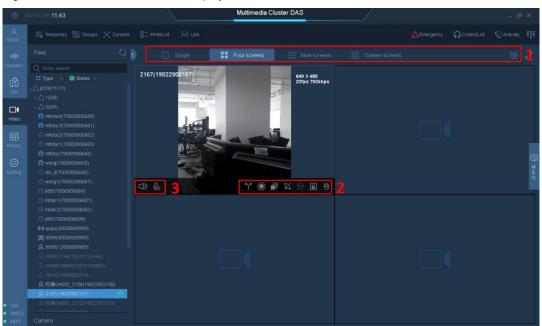


Figure 5-30 Toolbar of the video display window

#### 5.1.17 Dispatch Console Initiates Video Distribution

Pull a terminal video to the dispatch console first, and then move cursor to the video

display window, the toolbar will be shown. Click at the video's bottom right corner to open the **Video forward and distribute** page.

Select the users who need to receive video (the users should be registered online ) from the user list, and click **Start Distribution** on the page to distribute the pulled video to the specified terminals.

The terminal can end video pull and the video distribution.



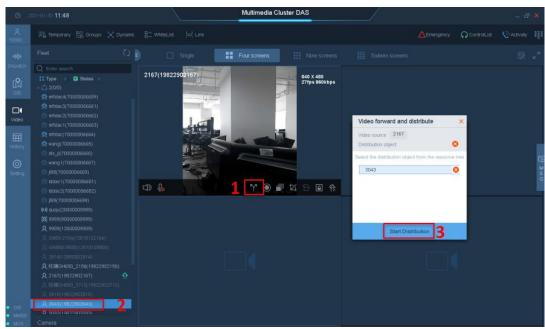


Figure 5-31 Dispatch console Initiates video distribution

## 5.2 Operations of Multimedia Dispatch System

The Multimedia Dispatch System (MDS) client supports independent client operations. It's required to install the client before logging.

Install the CS dispatch console client on the dispatching PC. Click the installation file, then click **Next** until the installation is completed, as shown in the following figure.



Figure 5-32 Client Installation of the Multimedia Dispatch System



#### 5.2.1 Dispatcher Login

Open the CS dispatch console client. If the the PC has multiple IP addresses, the client will prompt you to select the IP address. Select the correct IP address of PC that accesses with the client, and then turn to the login interface. Input the user name and password on the login interface, then configure the IP address of the server, as the following figure:

IP address of the server, the account and passwords default settings are as follows: Server IP address: 192.168.13.20

Account/password: 88807558001/666666 (consistent with the OMM account information in the authentication configuration)

6		***
	Remember the password	0
IP:	192.168.13.20	
Vers	ion No.5.3.0	



#### 5.2.2 Video Pull

The dispatch console can pull video from cameras and hand-held terminals that access to the system.

Select the user to be pulled in the user list, right click to select **Video Pull** from the shortcut menu as the following figure. You can also pull the end-user video from user list on the Map interface.



0	2021-01-30 14:53		E	Multimedia Dis	spatch System	- & ×
R wangt	Group			Four Screens		
Map Video Reports Settings	2 10229 1 22 28 99999 28 94949 2 2015 A 2015 A 2015 A 2015 A 5095 A 5095 A 5095 A 5095 A 5096 A 50905	C) totes 13/17 00 00 10/13 00 00 00 00 00 00 00 00 00 0				]
	C 5000	49 49 40 00				](

Figure 5-34 Operations of the multimedia dispatch video pull

After the video is pulled, the video captured by the user's camera can be viewed on the dispatch console. See the following figure:

Click Market at the lower right corner of the video window to end the video pull.

Click I at the lower right corner of the video window to lock the video angle.

Click at the lower right corner of the video window to automatically rotate the terminal video, that is, the video on the dispatch console is rotated when the terminal rotates.

Click Market at the lower right corner of the video window to capture the video image.

Click at the lower right corner of the video window to capture continuous video images.

Click I at the lower right corner of the video window to record the video.

Click at the lower right corner of the video window to distribute terminal video.

Click I at the lower right corner of the video window to project the video on the TV wall.

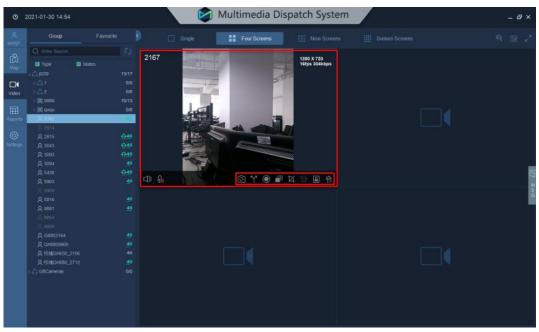


Figure 5-35 Multimedia dispatch video display window

## 5.2.3 Video Distribution

Dispatch console can distribute the pulled videos to terminals and groups.

Select a video that has been pulled on the interface of the dispatch console, click  $\square$  on the lower right corner of the window, then the distribution page will pop up. Add the users who need to receive the videos to the distribution page, as the following figure.

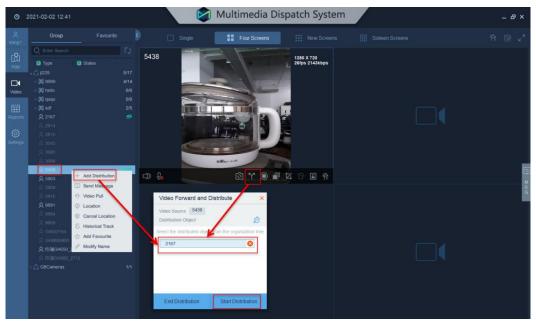


Figure 5-36 Multimedia dispatch video distribution

Click **Start Distribution** to distribute the video. For example, after a video is successfully distributed to user 5903, the pull and distribution status will be displayed on both the user list and the distribution list. See the following figure.

0	2021-01-30 15:12			Multimedia Dis	patch System	- & ×
A wangt	Group					
wangt Magi Video Rieports Settings	Q. Enter Search           Type         If star           If type         If type	مالية ates 13/17 00 00 10/13 00 49 048 048 048 048	3094		640 X 480 241ps 699kbps	
	R 5004 R 5538 R 5056 R 9061 R 9061 R 9064 R 9066 R 9060 R 68609000 R 68609000 R 64809000 R 648090000 R 64809000 R 648090000 R 648090000 R 648090000 R 648090000000 R 6480900000000000000000000000000000000000	949 049 049 049 049 049 049 049 049 049	Video Distrib Series 1 50	extension of Forward and Distribute Source 2094 With Object Inte distributed object from the organize 33	× Cá altor bre	

Figure 5-37 Video distribution is successful.



After the video is successfully distributed, the screen of terminal will display the video source, as shown below:



Figure 5-38 Video is distributed to the receiving terminal.

Click End on the Terminal who is receiving video to end the video distribution.

Or select the terminal that is distributing videos on the video distribution page of the dispatch console, and click **End Distribution** to end the video distribution, see the following figure.

When ending the pulled video source, the video distribution ends at the same time.

©	2021-01-30 15:13			Multimedia Dis	patch System	- @ ×
Rang1				Four Screens		18 12 e <sup>x</sup>
Шар	Q Enter Search I Type I States 1 (229)	3094		7 1 1	640 X 480 10fps 0kbps	
Video Reports Settings	2 2 2 2 2 2 2 2 2 2 2 2 2 2	40 80 1013 60 슈테 슈테 슈테 슈테 슈테 슈테 슈테 슈테 슈테				](
	R. 800 2. 500 2. 500 2. 500 4. 500 4. 500 4. 500 4. 500 4. 1300-800,2100 6. 1300-800,2100 7. 1300-800,2100 9. 1300-800,2100 9. 1300-800 9. 1300-800 1. 1300-800	49 149 49 40 59 60	Video 12 Distribu Beliect the S900	biotre and Distribute inter and Distribute inter Object a Distributed etject from the organiza- a	X Mon free X 2009	

Figure 5-39 Ending video distribution



### 5.2.4 Location

Terminals and groups can be located at the Map interface of the dispatch console. Select the terminal to be located, and select **Location** from the shortcut menu, see the following figure.

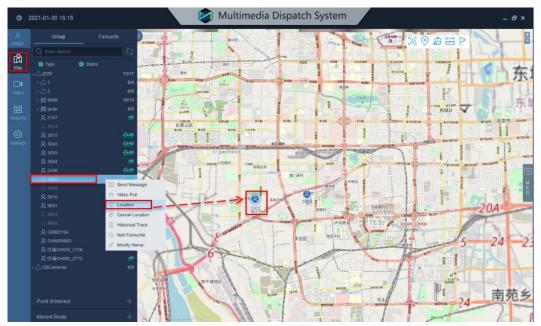
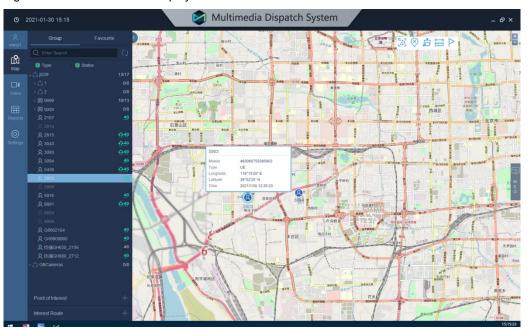


Figure 5-40 MDS terminal location operation

As shown in the above figure, the location of the terminal is displayed clearly on the map. When moving cursor to the terminal, the terminal details will be displayed.







Right click the contact list of the terminal and select **S** Historical Track to view the historical track replay of the terminal, as the following figure.

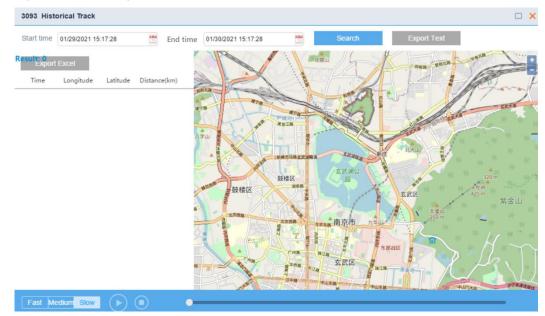


Figure 5-42 Viewing historical track of the terminal

Input the **Start time** and **End time** on the Historical Track page, and click **Search** to query the historical track of the terminal.



Click 1 Video Pull to pull the video, see the following figure.

Figure 5-43 Dispatching the terminal on the Map interface



# 6 Card Allocation and Number Allocation

# 6.1 Hand-held Terminal Number Allocation

#### 6.1.1 Login to the unified OMM

Login to the unified OMM via IE browser (IE 11).

Login address: http://192.168.90.129:2323/inms\_ 249/client/#

Login account: admin, password is null.

Note: Different projects may use different login IP addresses, accounts, and passwords. For details, please refer to the project system configuration guide.



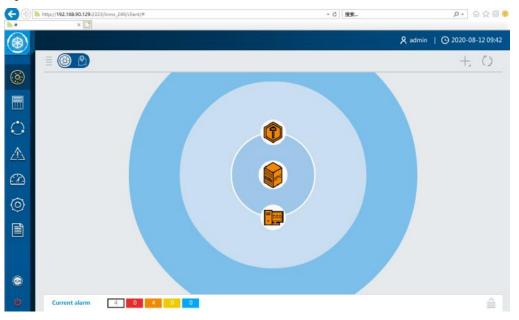


Figure 6-1 Unified OMM interface

## 6.1.2 User Authentication Information Configuration

Step1: Click Operation Management , select **Authentication**, and switch to the Authentication information interface. Select **Add card** under the menu to add the user authentication information , see the following figure:

()							8 admin	0 2021-01-	-30 16:35
<b>_</b>	· 世代周期後	Authentication in	formation list (	50781)					000
0	Fleet	IMSI number	Belonged fleet	User key	Authenticatic	Initiate OPC	OPC	ld card	mous Ar
	Dispatcher	460088100000017	default fleet	111111111111111111111111111111111111111	8234	YES	111111111111111111111111111111111111111	YES	YE
	Authentication	460088100000018	default fleet		8234	YES		YES	YE
<u></u>	Contract Template	460088100000019	default fleet		8234	YES		YES	YE
	PDN Template	46008810000020	default fleet		8234	YES		YES	YE
	Data Template	460088100000021	default fleet		8234	YES		YES	YE
		460088100000022	default fleet		8234	YES		YES	YE
0	User	460088100000023	default fleet		8234	YES		YES	YE
D)	Group	460088100000024	default fleet		8234	YES		YES	YE
Ð	IMEI Check	460088100000025	default fleet	111111111111111111111111111111111111111	8234	YES	111111111111111111111111111111111111111	YES	YE
	Status Message	460088100000026	default fleet	111111111111111111111111111111111111111	8234	YES	111111111111111111111111111111111111111	YES	YE
	PIS	460088100000027	default fleet	111111111111111111111111111111111111111	8234	YES	111111111111111111111111111111111111111	YES	YE
	PIS Group	460088100000028	default fleet		8234	YES	111111111111111111111111111111111111111	YES	YE
	Real-name	460088100000029	default fleet	111111111111111111111111111111111111111	8234	YES		YES	YE
	Sync	460088100000030	default fleet	111111111111111111111111111111111111111	8234	YES	111111111111111111111111111111111111111	YES	YE
		460088100000031	default fleet	111111111111111111111111111111111111111	8234	YES	111111111111111111111111111111111111111	YES	YE
		460088100000032	default fleet	111111111111111111111111111111111111111	8234	YES	111111111111111111111111111111111111111	YES	YE
Ð		460088100000033	default fleet	111111111111111111111111111111111111111	8234	YES	111111111111111111111111111111111111111	YES	YF
		K < 608 /60	× X X	Totally 60781. Item	60, every page displa	rs 100			0

Figure 6-2	Add card
riguic 0-z	Auu calu



Step 2: Input the IMSI number and SIM card authentication information (User key, Authentication management domain and OPC, can directly copy the existing card information) on the Add card page. Click **Save** to complete operation, as the following figure:

۲			🎗 admin   🕒 2021-01-30 16:36
	- 核心詞系统	Authentication information list (60781) Add card ×	
٢	Fleet	IMSI number * 460088100000023	
	Dispatcher	Belonged fleet default fleet	
0	Authentication	User key *	
	Contract Template	Use Key Encryption	
	PDN Template	Authentication man* 8234 ③	
	Data Template	Initiate OPC	
0	User	OPC 111111111111111111111111111111111111	
	Group	Use OPC Encryption	
	IMEI Check	Anonymous key ID	
٤	Status Message	Anonymous key ID	
	PIS		
	PIS Group		
	Real-name		
	Sync		
0			
6		Save & Con Save 2	
9			

Figure 6-3 Input Add card information

Note: Select the user authentication information to be operated,  $\operatorname{click}^{\swarrow}$  and  $\overline{\operatorname{im}}$  to edit or delete the information.

## 6.1.3 User Number Allocation

Step 1: Click Operation Management -> User and switch to the user management interface, and select **ZiLTE** under menu on the right to add user:



Figure 6-4 Add user

ŧ	和心网系统 🗸 🗸	User	list (30738) A	Add user $\times$	460012290000003	×					<del>1</del> . G	
1	Fleet	0)	IMSI Range	User type	User Number Range	Fleet user nu	User name	Belonged fleet	PTT service s	Data services Statu	ZiLTE External-ZiLT	E system
	Dispatcher		1111111111111111	DSS	11112211111	1	1	lidan111	Active	YES	0	
	Authentication		200200200200	Data-Only	15915915901			MDS测试勿删		YES		
4	Contract Template		40080755099907	DSS	15915999907	9907	9907	MDS测试勿删	Active	YES	0	
	PDN Template		46001000000000	0 Data-Only				ppqq		YES		
	Data Template		460012290000001	DSS	31390100001	0001	0001	zs_159	Active	YES	1	
			46001229000002	DSS	31390100002	0002	0002	zs_159	Active	YES	1	
1	User Z		460012290000003	DSS	31390100003	0003	0003	25_159	Active	YES	1	0 0
	Group		460012290000004	DSS	31390100004	0004	0004	zs_159	Active	YES	1	
	IMEI Check		460012290000005	DSS	31390100005	0005	0005	zs_159	Active	YES	1	
	Status Message		460012290000006	5 DSS	31390100006	0006	0006	zs_159	Active	YES	1	
	PIS		460012290000007	DSS	31390100007	0007	0007	zs_159	Active	YES	1	
	PIS Group		460012290000008	DSS	31390100008	0008	0008	zs_159	Active	YES	1	
	Real-name		460012290000009	DSS	31390100009	0009	0009	zs_159	Active	YES	1	
	Sync		460012290000010	DSS	31390100010	0010	0010	zs_159	Active	YES	1	
			460012290000011	DSS	31390100011	0011	0011	zs_159	Active	YES	1	
			460012290000012	DSS	31390100012	0012	0012	zs_159	Active	YES	1	
			460012290000013	DSS	31390100013	0013	0013	75 159	Active	YES	1	

Step 2: On the pop-up Add user page, input the **IMSI number**, **User number** (beginning with 1880755), tick **Activated data service**, select *iepc.com* as the data service template, tick **Subscribed PTT service**, input **Fleet user number** (recommend the last four digits of IMSI) and User name, and select **Belonged fleet** 

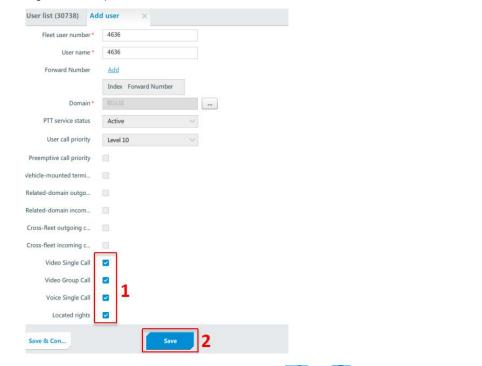
(by clicking <sup>1</sup> on the right) for the user. For a vehicle-mounted terminal, tick **Vehicle-mounted terminal** option. Keep the default settings for other parameters, and click **Save**, see the following figure.



IMSI number *	460012290000003	
User number *	31390100003	
Belonged fleet *	default fieet	× Bs
Belonged organization		×
Activated data service		
Data service template *	1000lidan	
Static subscription add	Add	
	Index PDN IPV4 address	PDN IFV6 address template
Closed user group ID		
Personal Qos		
PIS		
TAU user		
Subscribed PTT service		
Fleet user number *	4636	
User name *	4636	
Forward Number	Add	
	Index Forward Number	

#### Figure 6-5 Input user information-1

Figure 6-6 Input user information-2

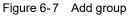


Note: Select the user to be operated, click and to edit or delete the user.



### 6.1.4 Add Group

Step1: Click Operation Management ->Group and switch to the Group management interface, and select **ZiLTE group** under the menu on the right to add group:



核心网	原境 ~	Grou	p list(1103)							(B	ē	+ 6 (
Fle	set		Group Number Range	Group name	Group type	Belonged flee	Group status	Group meml	Dynamic gro			ZiLTE group ZiLTE Foreign Group
Di	spatcher		10159030000	G159_00000	Collective bro	default fleet	Active	2				-
Au	uthentication		10159030001	G159_01	General Grou	default fleet	Active	5				
<mark>ا</mark> دە	ontract Template		10159030002	G159_02	Dynamic Reg	default fleet	Active	1	1			
	PDN Template		10159030003	G159_03	Dynamic Reg	default fleet	Active	1	1			
	Data Template		10159030004	G159_04	Dynamic Reg	default fieet	Active	0	3			
Üs	er		10159030005	G159_05	General Grou	default fleet	Active	3				
	oup 7		10159030006	G159_06	General Grou	default fleet	Active	1				
	IEI Check		10159030007	G159_07	General Grou	default fleet	Active	1				
			10159030008	G159_08	General Grou	default fleet	Active	1				
Sta	atus Message		10159030009	G159_09	General Grou	default fleet	Active	1				
PIS	S		10159030010	G159_10	General Grou	default fleet	Active	1				
	PIS Group		10159030011	G159_11	General Grou	default fleet	Active	1				
Re	al-name		10159030012	G159_12	General Grou	default fleet	Active	1				
Sy	nc		10159030013	G159_13	General Grou	default fleet	Active	1				
			10159030014	G159_14	General Grou	default fleet	Active	1				
			10159030015	G159_15	General Grou	default fleet	Active	1				
			10159030016	G159 16	General Gros	default fleet	Active	1				

Step 2: Input Group number (beginning with 6880755), Group short number, and

**Group name** on the Add group interface. Select **default fleet** (by clicking the the right) for the Belonged fleet. Keep the default settings for other parameters, and click **Save**, see the following figure.



Group list(1103)	Add group X	
Group number *	10159030007	
Group short number *	030007	
Group name *	G159_07	
Group type	General Group	
Belonged fleet •	default fleet	Bu
Belonged organizati		8.14
Domain *	默认验	
Preemptive call rights		1
Group call priority	Level 10 🗸	÷
Inactive timer	Default 🗸	
Group status	Active	
Call area restricted		
Related group		
Support Group Safe	NO V	
Voice Group Call Ti		
Voice Group Call Ti	0	min
Video Group Call Ti		
Save & Con	Save	2

Figure 6-8 Group account information setting

Note: Select the group to be operated, click and to edit or delete the group.

## 6.1.5 Add group member

Select the group that need to add group members, and click the number in the **Group member** column, see the following figure.

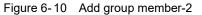
				A ad	min	O 2021	01-30 16	:40
-	市心同系统 ∨	Group list(1103)	Ē	ē	+,	G	$\langle \rangle$	0
0	Fleet	Group Number Range Group name Group type Belonged flet Group status Group memt Dynamic gro						
	Dispatcher	10159030000 G159_00000 Collective brz default fleet Active 2						
0	Authentication	10159030001     G159_01     General Grou default fleet     Active     5						
	Contract Template	I0159030002         G159_02         Dynamic Reg default fleet         Active         1         1						
Δ	PDN Template	10159030003 G159_03 Dynamic Reg default fleet Active 1 1						
	Data Template	10159030004     G159_04     Dynamic Reg default fleet     Active     0     3						
$\odot$	User	10159030005 G159_05 General Grou default fleet Active 3						
		10159030006 G159_06 General Grou default fleet Active 1						
	d Group	□ 10159030007 G159_07 General Gro⊥ default fleet Active 1 🖉 🗇 🛅						
¥	IMEI Check	10159030008 G159_08 General Grou default fleet Active 1						
$\sim$	Status Message	10159030009     G159_09     General Grou. default fleet     Active     1						
	PIS	10159030010 G159_10 General Grou default fleet Active 1						
	PIS Group	10159030011 G159_11 General Grou default fleet Active 1						
	Real-name	10159030012     G159_12     General Grou default fleet     Active     1						
	Sync	10159030013     G159_13     General Grout default fleet     Active     1						
		10159030014     G159_14     General Grout default fleet     Active     1						
		10159030015     G159_15     General Grou default fleet     Active     1						
۲		10159030016 G159 16 General Gros. default fleet. Active 1						
0		K K 1/12 X X Totally-1103 itembs), every page displays 100 • itembs)						0

Figure 6-9 Add group member-1



Click 🗄 on the right of the group member page to display the page for editing group members, see the following figure.

$\circledast$											8 adm	in   🖸 2021-01-30 16:41
	核心网系统	Group list(1103)									6 2	+, E () Q
<u>(</u>	Fleet	Group Number Range	Group name	Group type	Belonged flee	Group status	Group memt	Dynam	Group mem	ber(1)		⊞ Q 9 ×
	Dispatcher	10159030000	G159_00000	Collective bro	default fleet	Active	2		Number	Name	Туре	Flee
(°)	Authentication	10159030001	G159_01	General Grou	default fleet	Active	5		10159020003	D159_03	Dispatcher	default fleet
	Contract Template	10159030002	G159_02	Dynamic Reg	default fleet	Active		1				
	PDN Template	L 10159030003	G159_03	Dynamic Reg	default fleet	Active	- 3	1				
3	Data Template	10159030004	G159_04	Dynamic Reg			0	3				
$\odot$	User	10159030005	G159_05	General Grou			3					
	⊿ Group 2	10159030006	G159_06	General Grou			1					
	IMEI Check	10159030007	G159_07	General Grou			1					
¥	Status Message	10159030008	G159_08	General Grou			1					
	PIS	10159030009	G159_09 G159_10	General Grou			1					
	PIS Group	10159030010	G159_10	General Grou			1					
	Real-name	10159030012	G159_11	General Grou			1					
	a second activity of the	10159030013	G159_13	General Grou			1					
	Sync	10159030014	G159 14	General Grou			1					
		10159030015	- G159_15	General Grou	default fleet	Active	1					
0		10159030016	G159 16	General Grou	default fleet	Active	1	_				
Ċ		K K 1/12 >	Ж		Totall	1103 item(s), e	very page display	s 100	K K 1		) Displa	(_25



Select the member to be added from the available members list, and click to add the group member, see the following figure.

Group member													×
Selectable group n	nember(208)			Q		S	elected group	memb	er(1)				Q
Number	Name	Туре	Fleet				Number	N	ame		Туре	Fleet	
10159010002	U3099-2	User	default fleet				1015902000	3 D	159_03		Dispatche	default fleet	
10159011003	UE1003	User	default fleet										
10159011005	UE1004	User	default fleet			-							
10159011006	UE1005	User	default fleet		1	2							
10159011007	UE1006	User	default fleet										
10159011008	UE1007	User	default fleet										
10159011009	UE1008	User	default fleet										
10159011010	UE1009	User	default fleet										
K < 1	/5 X	Display 50	×				K K	1 ]/1	>	К	Display	50 💌	

Figure 6-11 Add group member-3

Note: Support add or delete multiple group members.

Note: Select the users to be deleted from the right side, and click to delete the member.



Select the group member to be edited, and click to display the page for editing group member attributes. Modify the information, and click **Save**. The group member attribute will be modified.

Secure member cal	-	
Group member cal	MIDDLE 🗸 🗸	
Speak time	1min 🗸	
Group call rights	Talk privilege	
	Initiate group call	
	Irrminate group call	
		Group call rights

Figure 6-12 Modify the group member attribute

# 6.2 CPE Terminal Number Allocation

#### 6.2.1 Login to the unified OMM

The same as chapter 5.1.1, login to the unified OMM via IE browser (IE 11). Login address: http://192.168.90.129:2323/inms\_249/client/# Login account: admin, password is null.

#### 6.2.2 User Authentication Information Configuration

User authentication information is configured in exactly the same way as described in chapter 5.1.2.

Step1: Click **Authentication** and switch to the Authentication information interface. Select **Add card** under H menu on the right to add the user authentication information;

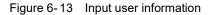
Step 2: Input the IMSI number and SIM card authentication information (User key, Authentication management domain and OPC, can directly copy the existing cards information) on the Add card page. Click Save to complete operation.



#### 6.2.3 User Number Allocation

Step 1: Click Operation Management -> User and switch to the user management interface, select **ZiLTE** under menu on the right to add user. This step is the same as that of hand-held terminal number allocation.

Step 2: Input IMSI number, User number on the interface, select subscription data service and select *cpe.com* as the Data service template. Keep the default settings for other parameters, and click **Save** to add a CPE user information, see the following figure.



	Fleet	User list (123368) Ad	d user ×
<u>;;</u>	Dispatcher	IMSI number *	4600809000349
	Authentication	User number	3
$\bigcirc$	<b>1</b> Contract Template	Belonged fleet	default fleet × 🖪
	PDN Template	Belonged organization	default fleet 🛛 🗙
	Data Template	Activated data service	
	⊿ User 2	Data service template *	cpe.com
$\bigcirc$	Group	Static subscription add	Add
Ē	IMEI Check	Classification and TD	Index PDN IPV4 address PDN IPV6 address template
	Status Message	Closed user group ID	
¥	PIS	Personal Qos	
	PIS Group	PIS	
9	Real-name	TAU user	
Q	Sync	Save & Con	Save 4

Note: Select the user to be operated, click and to edit or delete the user.

### 6.2.4 Login to the LTE Core Network Management Page

Login to the OMM management page of the iEPC (LTE core network) via Web.

Login address: http://192.168.90.129: 2323/iepc\_80/client/#

Login account: admin, the password is null.

Note: Different projects may use different login addresses, accounts, and passwords.

For details, please refer to "access IP address and account/password of the iEPC OMM client " in the system configuration information table.



Figure 6-14 Enter to expert diagnosis mode on the unified OMM interface.

iepc51(192.168.8.159)	What shall be									
	🙀 Text Result	Table Result	T Br	oadcast Result 🧯	Operation Reco	rd 😡 Help				
	Copy Modify Delet	277	0	CPE_drsTest077	277	31.32.1.77	31.32.1.77	255.255.255.255	Disable	
b 🗠 🚺 🖬 👘	Copy Modify Delete	278	0	CPE_drsTest078	278	31.32.1.78	31.32.1.78	255.255.255.255	Disable	
kar 🗙	Copy Modify Delet	280	0							
	Copy Modify Delet	281	0	CPE_drsTest081	281	31.32.1.81	31.32.1.81	255.255.255.255	Disable	
Contraction of the second s	Copy Modify Delet	282	0		282					
r 🚞 Daily Maintaining	Copy Modify Delete	283								
			0							
		286	0	CPE_drsTest086	286	31.32.1.86	31.32.1.86	255.255.255.255	Disable	
	Copy Modify Delete	287	0							
Local Authorize Profile Configuration	Copy Modify Delete	289		CPE_drsTest089		31.32.1.89	31.32.1.89	255.255.255.255		
* CDE Arress Terminal 19 Pool Configurati			0							
	Copy Modify Delet	292	0	CPE_drsTest092	292	31.32.1.92	31.32.1.92	255.255.255.255	Disable	
		293	0	CPE_drsTest093	293	31.32.1.93	31.32.1.93		Disable	
C) Set CPE IP Pool	Comy Modify Delet									
			0							
Theo cre in pediusir		298	0	CPE_drsTest098	298	31.32.1.98	31.32.1.98	255.255.255.255	Disable	
	Copy Modify Delet		0							
Show CPE IP Pool	Coperadify Delet			CPE_drsTest100						
> Chicos American Transient (Dark Deal Configure										
	AND MILL PRICE				301			277.277.277.240		
V CPE Terminal Authorization Profile Confi	213 Record(s)									
Create CPE Authorization Profile										
Nodify CPE Authorization Profile	Executed comman	a successful	(eraps	ied 0.3065).						
Delete CPE Authorization Profile	•									
	3 > 0 -									
D works part from address	MML:> SHOW CPE IP	POOL								
Moulty ons server Address	MML:>									
Modify P-CSCF Server Address	1									
Modify HOMESTATE Server Address									Parameter Search	A V []
CPE ACS Address Configuration										
NOI OW APR Configuration	CPE Pool ID									
Bearer QoS Limit Template Configuratio										
P QoS Policy Profile Configuration										
b Dadiested Berne Ore Templete Confer										
Dedicated Bearer Template Configuratic										
▶ 🔛 Log Management										
> Oata Transfer										
Backup and Restore										
Ca Enable Configuration										
The second secon										
		Configuration Management     Configuration Management     Configuration Management     Configuration     Configurat	Configuration Management     Configuration Management     Configuration Management     Configuration     Configurat	Configuration Nanagement     Configuration Nanagement     Configuration Nanagement     Configuration     Configurat	Configuration Management         Configuration Management         Configuration Management         Configuration Management           Configuration Management         Configuration Management         Configuration Management         Configuration Management           Configuration Management         Configurati	Configuration Maragement         Configu	Configuration         Configur	Configuration         Configur	Configuration         Configur	Configuration Management         Configuration Management         Display the second of

### 6.2.5 APN Configuration

The APN configuration mainly include CPE Access Terminal IP Pool Configuration and CPE Terminal Authorization Profile Configuration.

#### 6.2.5.1 CPE Access Terminal IP Pool Configuration

Login to the iEPC management interface, select from the menu on the left: Daily Maintaining ->APN Configuration ->CPE Access Terminal IP Pool Configuration ->

**Show CPE IP Pool**, and click *(intersection)*, the system will display all IP pool configuration information.

Select **Create CPE IP Pool** to add a CPE IP pool. Input the information and click to execute.

CPE pool ID: Number of the address pool, which must be unique.

VRF ID: Defaults to 0.

Select Add CPE IP Segment and add the IP segment information to the corresponding IP pool. Input the information and click let to execute.

Segment ID: The number of the address segment is recommended to be the same as the number of the IP pool added in the previous step.

CPE Pool ID: The same as the address pool ID added in the previous step.

IP Segment Start, IP Segment End, and Mask: Determine the IP pool configuration together. Options:

IP Segment Start:45.45.x.1

IP Segment End: 45.45.x.254

Mask: 255.255.0.0

x represents any number of 0-254. The x of the IP Segment Start is the same as the IP Segment End.

Figure 6-15 Add CPE IP Pool and IP Segment.

€ €	http://192.168.8.159:2323/inms_250/client/#			* × 1		- σ × n★9
(					8	admin   🕑 2021-01-30 16:44
) 🖩 🛞	Port Configuration     Port Address Pool Configuration     Point Pool Pool Configuration     Point Pool Pool Pool Configuration     Point Pool Pool Pool Pool Pool Pool Pool Poo	the Test Result I I induct transit any Modify Delete 278 appr Hodify Delete 278 appr Hodify Delete 278 appr Hodify Delete 279 appr Hodify Delete 281 appr Hodify Delete 285 appr Hodify Delete 286 appr Hodify Delete	CPE_draftstream         CPE_draftstream           0         CPE_draftst	m flectored         Ø Holg           11, 32, 1, 77         11, 32, 1, 77           13, 32, 1, 78         11, 32, 1, 77           13, 32, 1, 79         11, 32, 1, 17           13, 12, 1, 17         11, 32, 1, 17           11, 32, 1, 18         11, 32, 1, 18           11, 12, 1, 10         11, 12, 1, 14           11, 12, 1, 14         11, 12, 1, 14           11, 32, 1, 14         11, 32, 1, 18           11, 32, 1, 14         11, 32, 1, 18           11, 32, 1, 16         11, 32, 1, 18           11, 32, 1, 16         11, 32, 1, 18           11, 32, 1, 16         11, 32, 1, 16           11, 32, 1, 16         11, 32, 1, 16           11, 32, 1, 16         11, 32, 1, 16           11, 32, 1, 16         11, 32, 1, 16           11, 32, 1, 16         11, 32, 1, 16           11, 32, 1, 16         11, 32, 1, 16           11, 32, 1, 16         11, 32, 1, 16           11, 32, 1, 16         11, 32, 1, 16           11, 32, 1, 16         11, 32, 1, 16           11, 32, 1, 16         11, 32, 1, 16           11, 32, 1, 16         11, 32, 1, 16           11, 32, 1, 16         11, 32, 1, 16	253, 225, 225, 225, 225 253, 225, 225, 225, 225, 225, 225, 225,	
$\triangle$	CPE Access Terminal IP Pool Configurab     Create CPE IP Pool     Delete CPE IP Pool     Set CPE IP Pool	Day Hodify Delete 290 Day Hodify Delete 291 Day Hodify Delete 292 Day Hodify Delete 293 Day Hodify Delete 294 Day Hodify Delete 295 Day Hodify Delete 295	0         CPE_drsTest090         290           0         CPE_drsTest091         291           0         CPE_drsTest092         292           0         CPE_drsTest093         293           0         CPE_drsTest094         294           0         CPE_drsTest095         295           0         CPE_drsTest096         296           0         CPE_drsTest096         296	31, 32, 1, 90 31, 32, 1, 91 31, 32, 1, 91 31, 32, 1, 91 31, 32, 1, 92 31, 32, 1, 92 31, 32, 1, 93 31, 32, 1, 94 31, 32, 1, 94 31, 32, 1, 95 31, 32	255.255.255.255 Disable 255.255.255 Disable 255.255.255 Disable 255.255.255 Disable 255.255.255.255 Disable 255.255.255.255 Disable 255.255.255 Disable	
0	Delete CPE IP Segment     Show CPE IP Pool      Delete CPE IP Pool      Delete CPE Access Terminal IPV6 Pool Configur		0 CPE_drsTest097 297 0 CPE_drsTest098 298 0 CPE_drsTest099 299 0 CPE_drsTest100 300 0 301 0 302	31.32.1.97 31.32.1.97 31.32.1.98 31.32.1.98 31.32.1.98 31.32.1.98 31.32.1.99 31.32.1.99 31.32.1.100 31.32.1.100 59.159.0.1 59.159.0.10 59.159.0.17 59.159.0.27	255.255.255.255 Disable 255.255.255.255 Disable 0 255.255.255.255 Disable 0 255.255.255.250 Publish dynamic route	
(¥)	Create CPE Authorization Profile Modify CPE Authorization Profile Delete CPE Authorization Profile Show CPE Authorization Profile Nuclén CPE Authorization Profile Nu	E 🕨 🥔 💽 💭 🙀	10			•
	Modify P-CSCF Server Address	ALTS ADD CPE IPSEUTSEUTDHS,POOL	10=3,1PHEAD= 45.45.2.1 ,1PTAIL=	==	Parameter Search	A V Bare
0	GW APR Configuration	agment ID 3 ask 255.255.0.0	CPE Peol ID 2	Bogment Bact	45.45.2.1 IP Segment Gel (45.4	
Q						

Perform Show CPE IPPool again to check whether it is added successfully.

#### 6.2.5.2 CPE Terminal Authorization Profile Configuration

Select from the menu on the left: Daily Maintaining ->APN Configuration -> CPE Terminal Authorization Profile Configuration -> Show CPE authorization Profile, and click , the system will display all CPE authorization Profile configuration information.

Select **Create CPE Authorization Profile** and add the CPE authorization information. Input corresponding information and click **b** to execute.

Profile ID: The same as the Profile ID number corresponding to the CPE configured in the GW APN. It is generally set to 1.

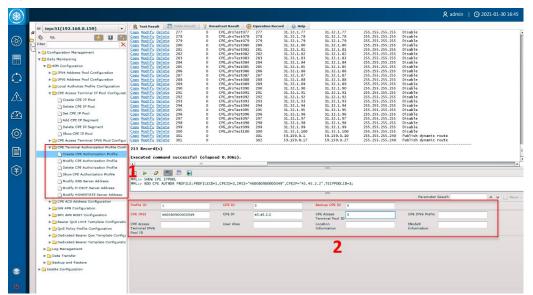
CPE ID: The CPE ID cannot be the same as the existing CPE ID. Recommend to configure the same number as the corresponding pool ID.

CPE IMSI: Input the IMSI number of the SIM card of the CPE to be added.



CPE IP: The IP address used by the CPE to obtain wireless signal, which is the corresponding IP address inside the IP pool (recommend: 45.45.x.2, where x is the IP network segment of the corresponding address pool).

CPE Access Terminal Pool ID: Configure IP pool ID in the CPE Access Terminal IP Pool Configuration .





Perform **Show CPE authorization Profile** again to check whether it is added successfully.

#### 6.2.6 Synchronize Data

Synchronize related data to the system after completing the above steps.

Select from the menu on the left: Daily Maintaining -> Data Transfer -> Synchronize EPC Data, click , and select "Yes" on the pop-up dialog box to complete the configuration data synchronization.

Or directly input SYNC EPC in the command line to synchronize data.

### 6.2.7 Show CPE Access Status

Select from the menu on the left: Daily Maintaining -> Dynamic Management -> User Management -> Show CPE State Info.

Click and check the CPE access status.

Or, input **SHOW CPESTATE** directly in the command line to check the CPE access status.



Figure 6-17 Show CPE access status

									🞗 admin   🔘 2	2021-01-30 16:47
-	NE iepc51(192.168.8.159) ▼	🙀 Text Resu	R Table Recei	T Broadcast Res	alt 🙆	Operation Record	😥 Help			
	0	276	460088100000076		Pv4: 31.3		0	0		
	🖕 🗢 🛛 🚺 💭 🔚	277 278	460088100000077		Pv4: 31.3		0	0		
$\odot$	Filter	278	460088100000078 460088100000079		Pv4: 31.3 Pv4: 31.3		0	0		
		280	460088100000080	OffLine II	Pv4: 31.3	2.1.80 0	0	0		
		281	46008810000081	OffLine II	Pv4: 31.3		0	0		
	▶ 🛄 Daily Maintaining	282 283	460088100000082 460088100000083		Pv4: 31.3 Pv4: 31.3		0	0		
	V Configuration	284	460055100000084		Pv4: 31.3		0	ő		
	▶ 🗁 Version Management	285	46008810000085	OffLine II	Pv4: 31.3	2.1.85 0	0	0		
$\mathbf{O}$	Independent Board Version Nanagemen	286 287	460088100000086 460088100000087		Pv4: 31.3 Pv4: 31.3		0	0		
•••		288	46008810000087		Pv4: 31.3		0	0		
	▶ 🔁 Local Office Global Data Management	289	460088100000089	OffLine II	Pv4: 31.3	2.1.89 0	0	0		
	Device Management	290	460088100000090		Pv4: 31.3		0	0		
	Local Office Mobile Data Management	291 292	460088100000091 460088100000092		Pv4: 31.3 Pv4: 31.3		0	0		
	Capacity Layout Management	293	460088100000093	OffLine II	Pv4: 31.3		0	ő		
-		294	460058100000094	OffLine II	Pv4: 31.3		0	0		
$\bigcirc$	GTPC IP Address Management	295 296	460088100000095 460088100000096		Pv4: 31.3		0	0		
	SIGTRAN Configuration	290	46008810000096		Pv4: 31.3 Pv4: 31.3		0	0		
	Diameter Management	298	460088100000098	OffLine I	Pv4: 31.3	2.1.98 0	0	0		
$\bigcirc$	Sumber Analysis Configuration	299	460088100000099		Pv4: 31.3		0	0		
<b>U</b>	Hells Configuration	300 301	460088100000100 460080755099910		Pv4: 31.3 Pv4: 59.1		0	0		
	Carl Access Area Management	207 Records	(s)							
	IP Stack Configuration	Function of	mand sussessful	l (elapsed 1.314	-					1
	GW System Configuration		amanu successi u	ii (elapsed 1.314	»).	_				•
$\bigotimes$	▶ 🔄 H55 Global Configuration	1 <u>.</u>						100		•
$(\hat{\mathbf{x}})$	▶ 🔤 8-Trunc Global Configuration									
	► 🗁 SIMP Configuration	MML :> SHOW C								
	SNTP Management	MRL:>	- Contra							
	▶ 🔤 Time Zone Management							-	Parameter Search	A V Bere
	Daylight Saving Time Configuration									N V L CONSIL
	🔻 🛅 Dynamic Management									
	Time Management									
	▶ 📴 eNode8 Management									
	🔻 🛅 User Management									
	Create EPS Bearer									
	Delete EPS Bearer									
	Update EPS Bearer									
	Detach Mobile User									
	Show MME User Statistics									
$\odot$	C) Show MMS User Dynamic Info	1								
	Show CPE State Info									
	Show More CPE state information									
	Show PGW User data Volume									

# 6.3 Dispatcher Management

Step1: Select Operation Management -> Dispatcher, switch to the dispatcher management interface. Click on the right side to show interface of adding a dispatcher.

$(\circledast)$						R admin	🕑 2021-01-30 16:48
	核心明系统 🗸	Dispatcher I	ist(63)				+ 020
0	Fleet	Dispatcher ID	Belonged flee	Dispatcher number(Zil			ZILTE
	⊿ Dispatcher 2	ppqq1591	ppqq	13880010001			
	Authentication	ppqq1592	ppqq	13880010002			
	Contract Template	8620j	8620j	86208620201			
	PDN Template	D159_02	default fleet	10159020002			
$\bigcirc$	Data Template	D159_03	default fleet	10159020003			
$\odot$	User	2ppqq1	ppqq2	13880019001			
		ppqq1	ppqq	13880010003			
	Group	mfldac	mfl	12345678912			
¥	IMEI Check	l01-ppqq	ppqq	13880010010			
0	Status Message	们对于	mfl	12345678913			
	PIS	rd1	燃烧	13855052001			
	PIS Group	mk111	mfl	12345678888			
	Real-name	mk2	mfl	12345678889			
	Sync	ppqq1594	ppqq	13880010004			
		ppqq1595	ppqq	13880010005			
		208Prime	江苏省	86208620208			
0		8620a	8620i	86208620202			
Ø		KK	1 /1 >		Totally 63 item(s), every page displays 100 • item(s)		O

Figure 6-18 Add dispatcher account



Step2: Input the corresponding information according to the interface requirements (the dispatcher number beginning with 8880755, 11 digits), and click **Save** at the bottom to complete the operation of adding a dispatcher, see the following figure:

	والتناجيج وي					🞗 admin   🗿 2021-01-30 16:48
	核心网系统	Dispatcher list(63)	ZiLTE Dispatcher ×			
0	Fleet	Dispatcher ID *	ppqq1593	_	1	
	Dispatcher	Dispatcher password *	888838			
$\odot$	Authentication	Belonged fleet •	default fleet	Ee		
	Contract Template	Belonged organizati	assel	0		
	PDN Template	Dispatcher number *	13880010002		1	
	Data Template	Dispatcher fleet use*	2333		-	
$\odot$	User	Priority	LAST 🗸		]	
	Group	Cross-fleet outgoin				
	IMEI Check					
٤	Status Message					
	PIS	10,000,000,000				
	PIS Group					
	Real-name	More>>>				
	Sync					
0				_		
0		Save & Con	Save		2	

Figure 6-19 Setting dispatcher account information

Select the dispatcher to be operated, click and to edit or delete the dispatcher.

# 7 References

# 7.1 Manually Add Trusted Sites to the IE Browser

IE 11 (win 7 32-bit operating system) is used for the login and related operations of the dispatch console and OMM of the ZiLTE system. It's required to configure the IE browser when login to the dispatch console for the first time, otherwise, it will fail to login (if cannot login to the dispatch console, please check whether the IE settings have been modified).

Open the IE browser, and select [Tools ->Internet Options] from the toolbar, open the Internet Options dialog box. Select [Security] ->[Trusted sites] ->[Sites], open the Trusted sites page, see the following figure:

Add the IP address of the dispatch console to the trusted site. For example, take the IP address of the dispatch console as 192.168.90.55. Input http://192.168.90.55, remove the check mark from check box of "Require server verification (https) for all sites in this zone", no server verification is required. Click Add, and then click Close to exit the settings of trusted sites.

Internet Options	? × Trusted sites	×
General Security Privacy Content Connections Programs Ad Select a zone to view or change security settings.	Vanced You can add and remove websit this zone will use the zone's sect	es from this zone. All websites in rrity settings.
Internet Local intranet Trusted sites Restricted sites	http://192.168.90.55	Add
Trusted sites This zone contains websites that you trust not to damage your computer or your files. You have websites in this zone. Security level for this zone	tes http://*.ecitic.com http://*.zte.com/m http://192.165/13.20 http://192.168.90.129 http://192.168.90.180	all sites in this zone
Custom Custom settings. - To change the settings, click Custom level. - To use the recommended settings, click Default	lorer)	Close
Qustom level     Defaul       Reset all zones to defau       OK		

#### Figure 7-1 Trusted sits setting of the Internet Options



Return to the page of Internet Options [Security], select **Trusted sites** and click **Custom level** to enter the Security Settings - Trusted Sites Zone page to set the security level of the trusted sites. Set all the sub-items under **ActiveX controls and plug-ins** to **Enable**, see the following figures.

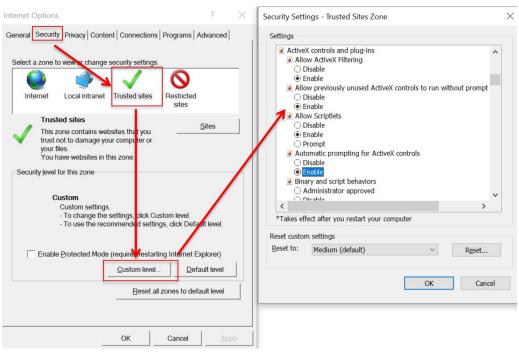


Figure 7-2 Security settings of trusted sites-1

Set all the sub-items under Downloads to Enable, see the following figures.



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	ess data sources across domains		~
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*Takes ef	fect after you restart your computer	-	
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#### Figure 7-3 Security settings of trusted sites-2

Select Enable for "Allow script-initiated windows without size or position constraints", click OK.

#### Figure 7-4 Security settings of trusted sites-3

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• E	Enable		
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•	Disable		
0	Enable		
	ow script-initiated windows wi	thout size or position	n constraint:
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	ow the TDC Control		
~ ~	Disable		
-	Enable		
	ow webpages to use restricted	protocols for active	content
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Return to the page of Internet Options [General], and click **Settings** to enter the Temporary Internet Files page. Select [**Every time I visit the webpage**] -> [**OK**], see the following figure.

Homepage To create home page tabs, type each address on its own line. About blank	et Files   History   Caches and databases   stores copies of webpages, images, and media for	×
Hompage To create home page tabs, type each address on its own line. About blank	stores copies of webpages, images, and media for er. <u>versions of stored pag</u> es:	
To create home page tabs, type each address on its own line.	er. versions of stored pages:	
Use current Use default Use new tab C Automatic Startup C Start with tabs from the last session C Start with home page C Current locations	I Start Internet Explorer ally (8-1024MB) 330÷ ± 50-250MB) 0131\AppData\Local\Microsoft\Windows\ 	Cancel

Figure 7-5 Temporary Internet Files Settings

Switch to the page of Internet Options [Privacy], and remove the check mark of "Turn on Pop-up Blocker".



Internet Options			?	$\times$
General Security Privacy Con	ntent Connection	ns Programs A	dvanced	
Settings	5	ites A	d <u>v</u> anced	
Location				_
Physical location	quest your	C	lear Sites	
Pop-up Blocker				_
Turn on Pop-up <u>B</u> locker			S <u>e</u> ttings	
	ОК	Cancel	<u>A</u> ppl	ly

Figure 7-6 Uncheck "Turn on Pop-up Blocker"

Switch to the page of the Internet Options [Advanced] . tick "Use software rendering instead of GPU rendering", click OK.



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*Ta Reset Res	kes effect after	you restart y er settings	our comp	Restore a		-

Figure 7-7 Advanced Setting of Internet Option

Restart the IE browser to validate the configuration.

# 7.2 Appendix A.1.1

# 7.2.1 Appendix A.1.1.1



Precautions: