



4 Exton Rd, Hilton, Bloemfontein, 9301
051 447 1859

REAL-PTT

Network Trunking Dispatcher System



Technology Solutions

1. PTT Dispatcher Station

1.1 Interface Instruction

1.2 Login Settings

1.3 Toolbar

1.4 Status Bar

1.5 Group Operation

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1.8 Map mode function

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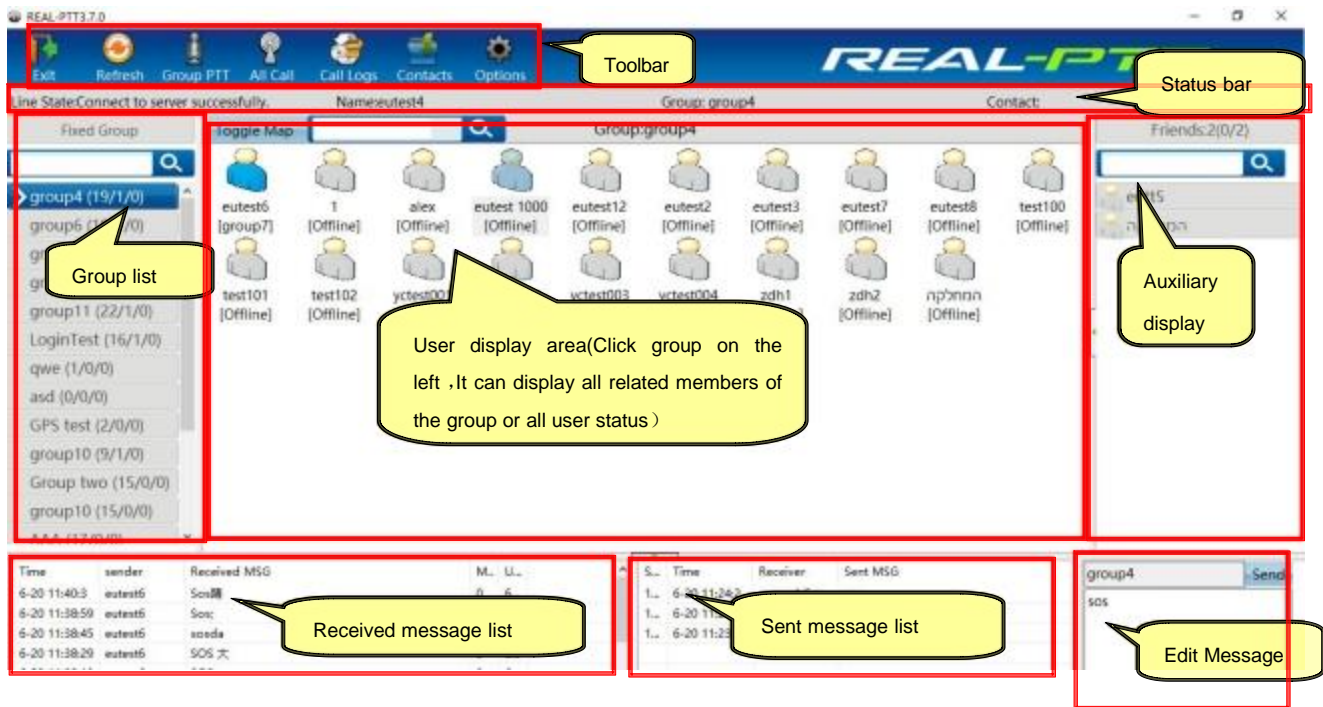
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1. Dispatcher

Real-PTT Dispatcher, which is based on multifunctional and visualization dispatching system, It includes private call, group calls, sending message inviting dynamic group, disconnecting, stuning, monitoring, GPS tracking,etc. It can provide timely dispatching function for company. Operation environment of RealPTT Dispatcher station is Windows XP, it is recommended to use 1024 x768 screen resolution.

1.1.Interface instruction

1.1.1. After the user has successfully logged dispatcher station, the system automatically displays the main interface dispatch operations



Dispatcher Main Interface

As shown above, main interface of dispatcher consists of the following components: ➤

- **Toolbar:** It provides "exit", "refresh", "group calls", "all call", "call logs", "contacts" and "audios", etc, it can help users to quickly view.
- **Status bar:** It can display the network state of dispatcher, the group info, the name of login in and the call info, etc.
- **Group list:** It is on the left side on the main interface, it can display all groups and group information.



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- **User display area:** It is on the right side of group directory, It can display information and status of group members.
- **Auxiliary display area:** it is right side of user display area, It is mainly assist dispatcher functions display, such as viewing friends, viewing audios, etc. **Received**
- **message list:** It is on the left of missed call list, It shows all the received info.
- **Sent message list:** It is on the right of received message list, It displays all the information has been sent.
- **Message sent area:** It is on the lower right corner, It can edit the message to be sent.

User status can be displayed by icons, the meaning is as follows:



User online

User status icon: It shows that user is online but not in the current group, so he can't hear current group calls, at the same time he can't make calls in the current group.



Users in the group

User status icon: the user is in the currently selected group, he can make calls directly to the group.



Offline status

User status icon: the user is not online, he can't hear calls of current group.



Users in the group

User status of map mode: the user is in the currently selected group, he can make calls directly to the group, It mean this user can directly hear calls of the current group.



User online

User status of map mode: It shows that user is online, but he can't hear the current group calls, at the same time also he can't make calls in this current group.



User offline

User status of map mode: It shows that user is offline, he can't hear calls in the current group



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1.2 Login Settings

After run the dispatcher, you can enter login interface of client program, as shown below. When you login in, you need to input account and password, select area and also you can save the password. The account used to log in to the dispatcher is a user account that is added in the company management platform. This account can not be accessed simultaneously with the radio device. You can open a user account for logging in to the dispatcher for scheduling management.

REAL-PTT3.7.0

Account: realptt1

Password: ●●●●●●●

Area: America

Save Password

Login Exit

1024X768 resolution is recommended

1.3 Tool bar



- Exit: logout this dispatcher.
- Refresh: refresh the user and group info.
- Group calls: make calls to all members in this group, if the dispatcher is on the group of a private call or dynamic group calls, it shows a private call or dynamic group calls.



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- All call: Make calls to all users in the different groups, which show in the Pc dispatcher
- Call logs: It can view this recent call logs, calls logs can be displayed in the right auxiliary display area, it is shown in figure 1, It can show these call logs when you double-click each record.
- Contacts: It shows friends and status of the dispatcher, It is shown in figure 2. You can make a single call to the user when double-click this user, when you open right menu, it can operate "send a message" and "stun" operation and so on for the selected user.
- Options: You can set any ptt hot key to make calls in the Pc dispatcher



Figure 1

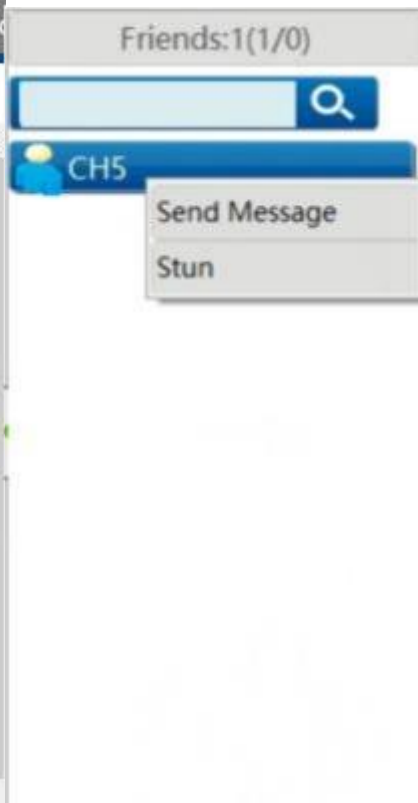


Figure 2

1.4 Status bar

The status bar display: network connection status, the dispatcher name, dispatcher group, speech user info, etc.

Line State: Connect to server successfully. Name: CH4 Group: SECAPA AD Contact:

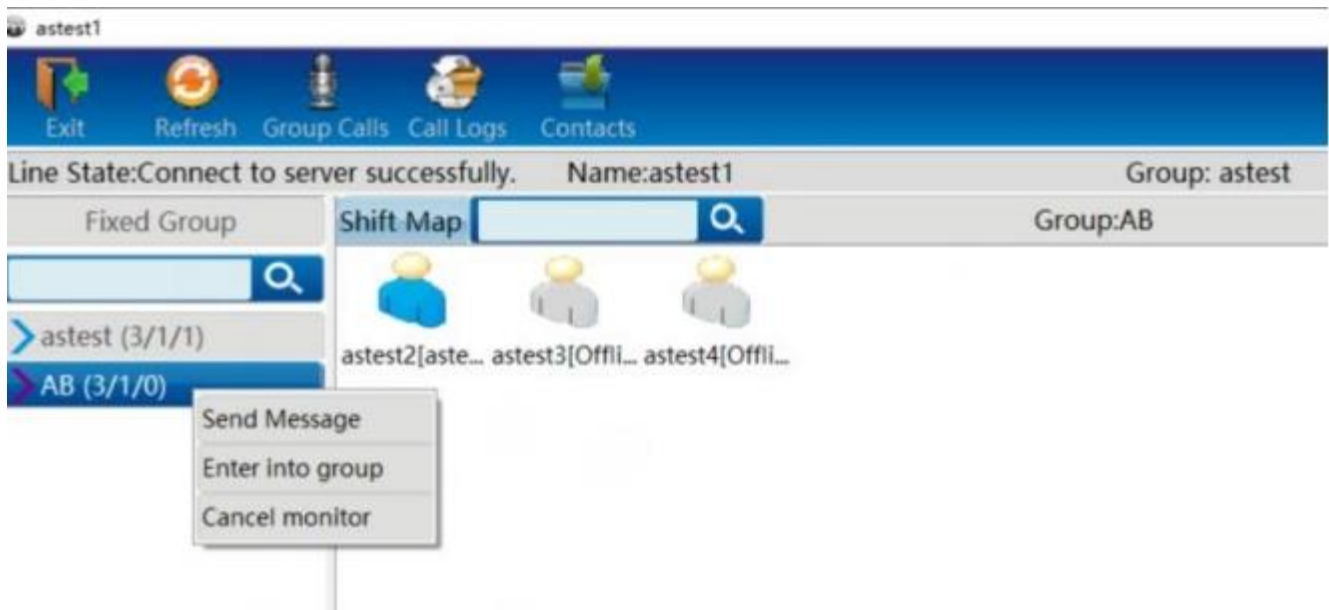
Status bar



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1.5 Group operation

Group list can list all group information of the dispatcher. The purple arrow shows dispatcher is monitoring this group, the blue arrow shows the talking group in the dispatcher. Select group, display area can show the user information. Double-click to enter a group ;select a group, and operate “Send message”, “Enter into group”, etc. on the group through the right-click menu. As Showed below.



Group operation

1.6 User display area

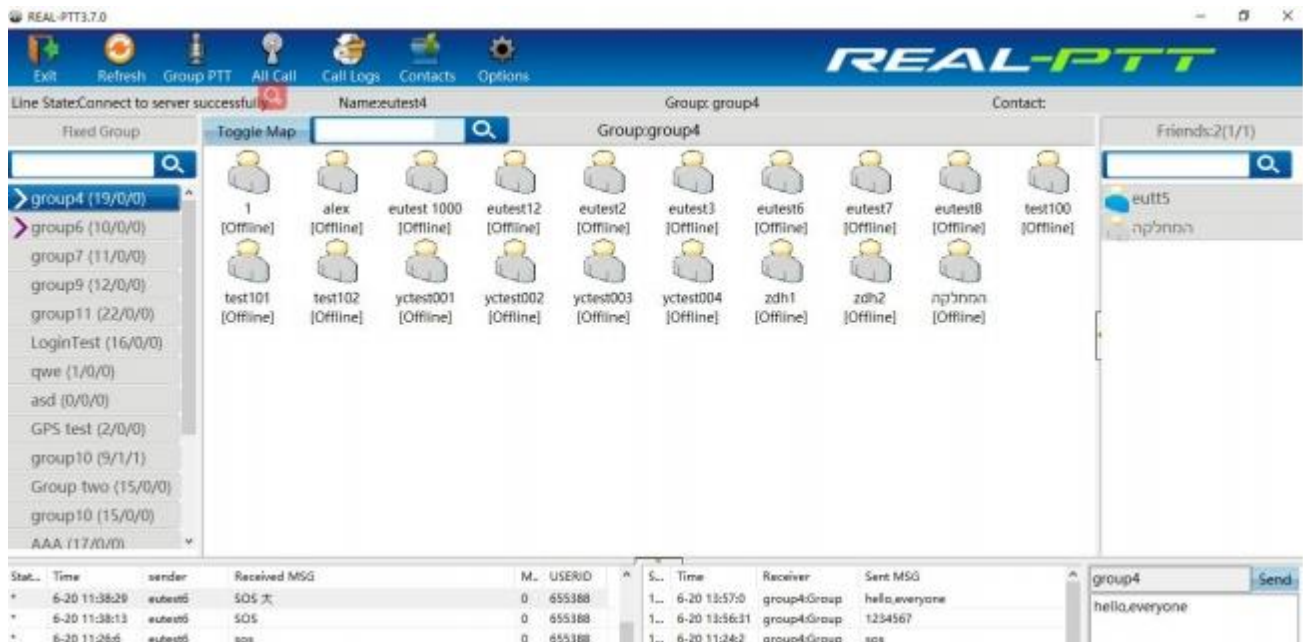
User and group area shows user information of the selected group in the group list,



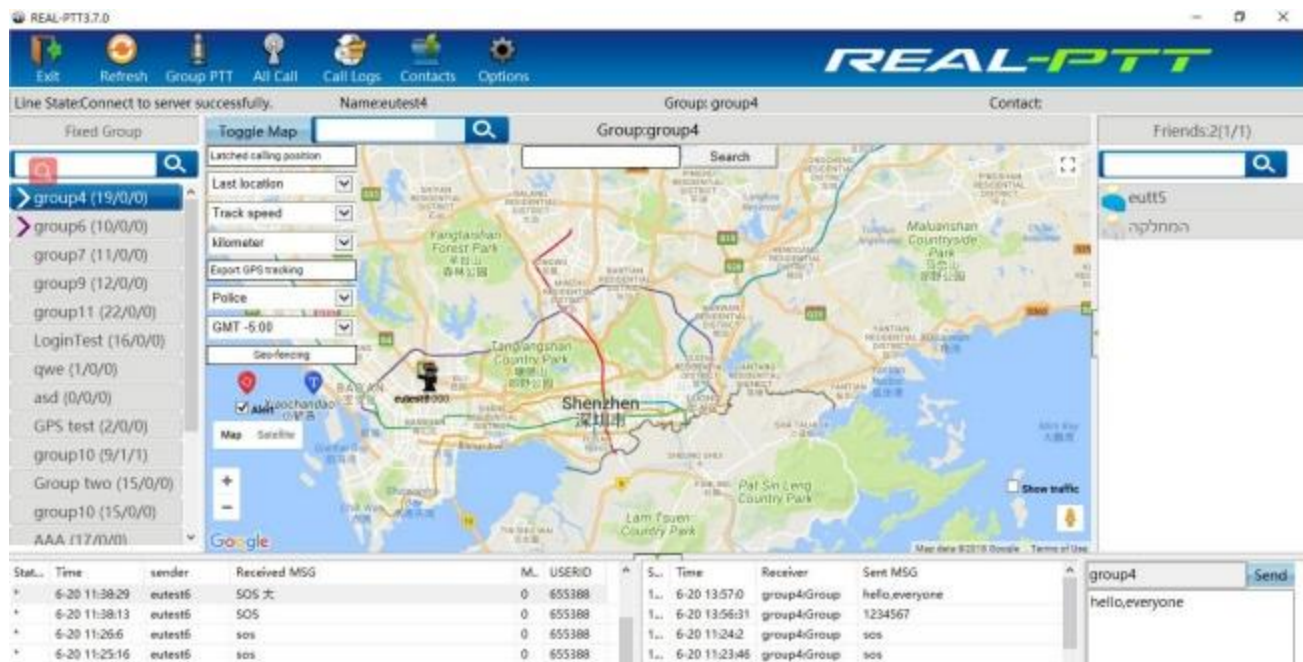
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including user status, user name and user's group information. There are two modes: the one is users and groups mode, the other one is map mode. Change mode through the "Toggle map" button. As showed below:



Users and groups mode



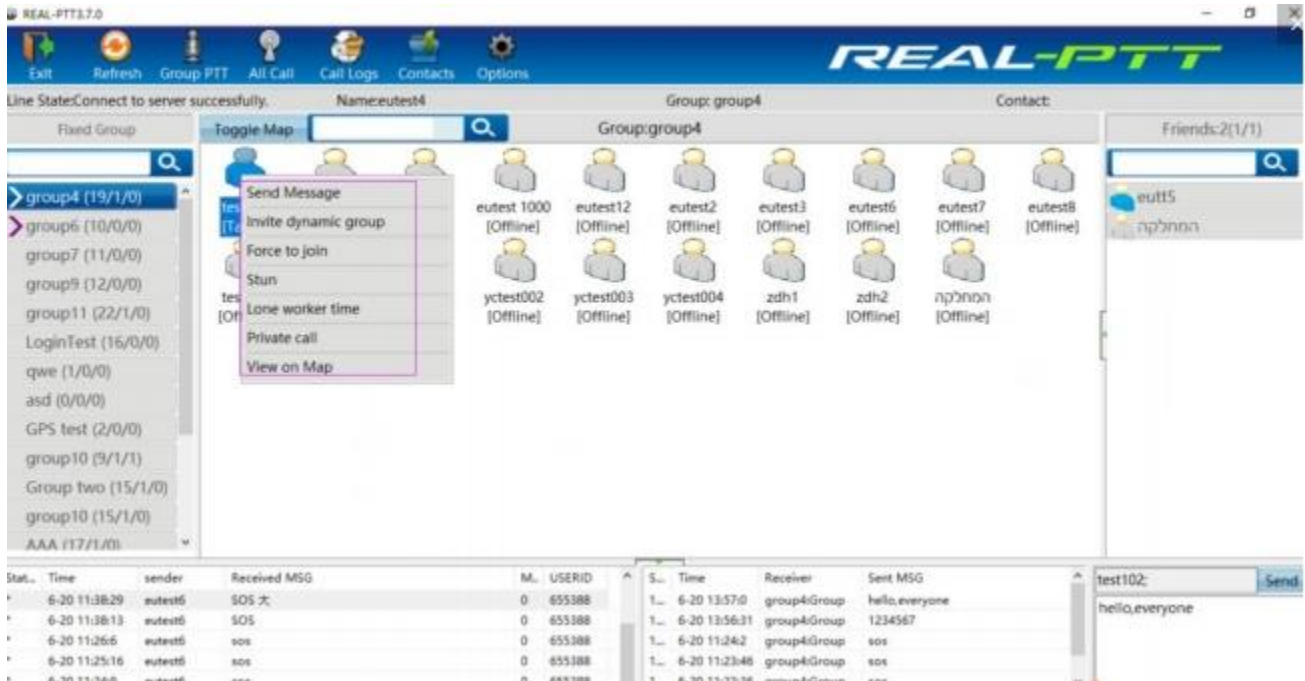
Map mode



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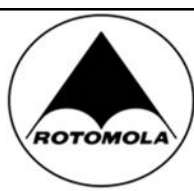
1.7 Users and group mode functions

On the users who are not in the group, select user and operate user through the right-click menu. Operate “send message”, “invite dynamic group”, “force to join”, “stun” “lone worker time”, “private call”, “view on map”, as shown below:

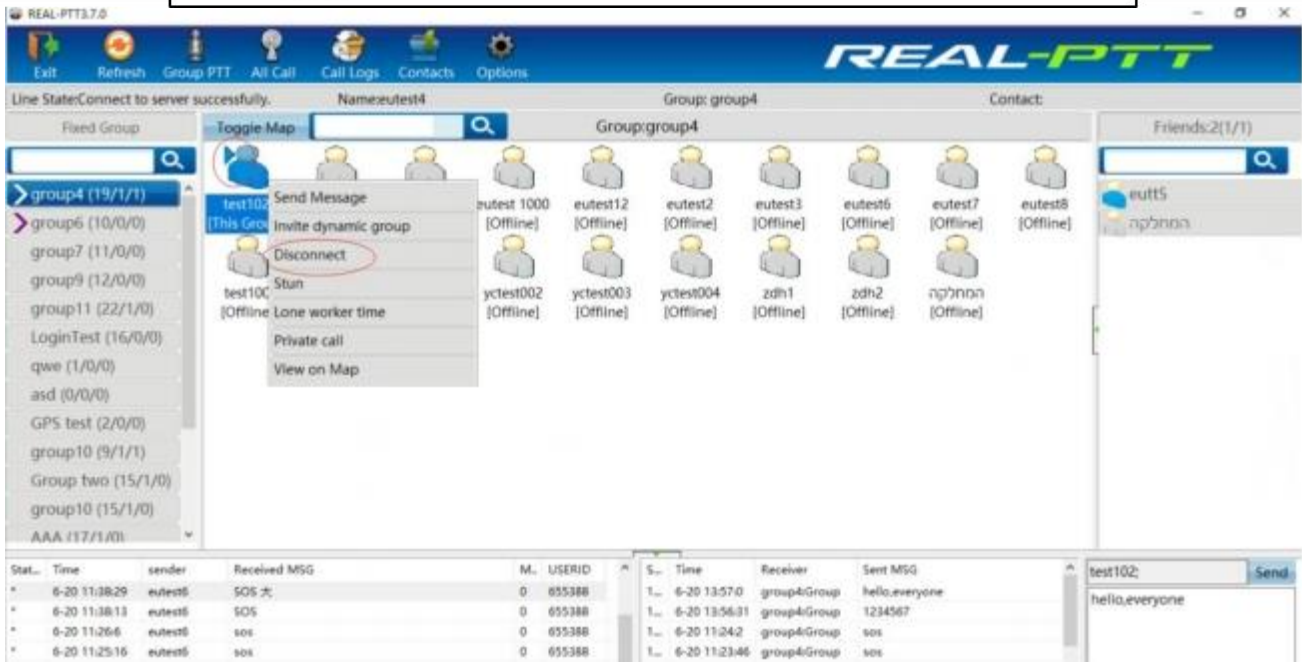


Users who are not in the group

The users are in the group, Operate “send message”, “invite dynamic group”, “Disconnect”, “Stun” “Lone worker time”, “private call”, “view on map”, As shown below:

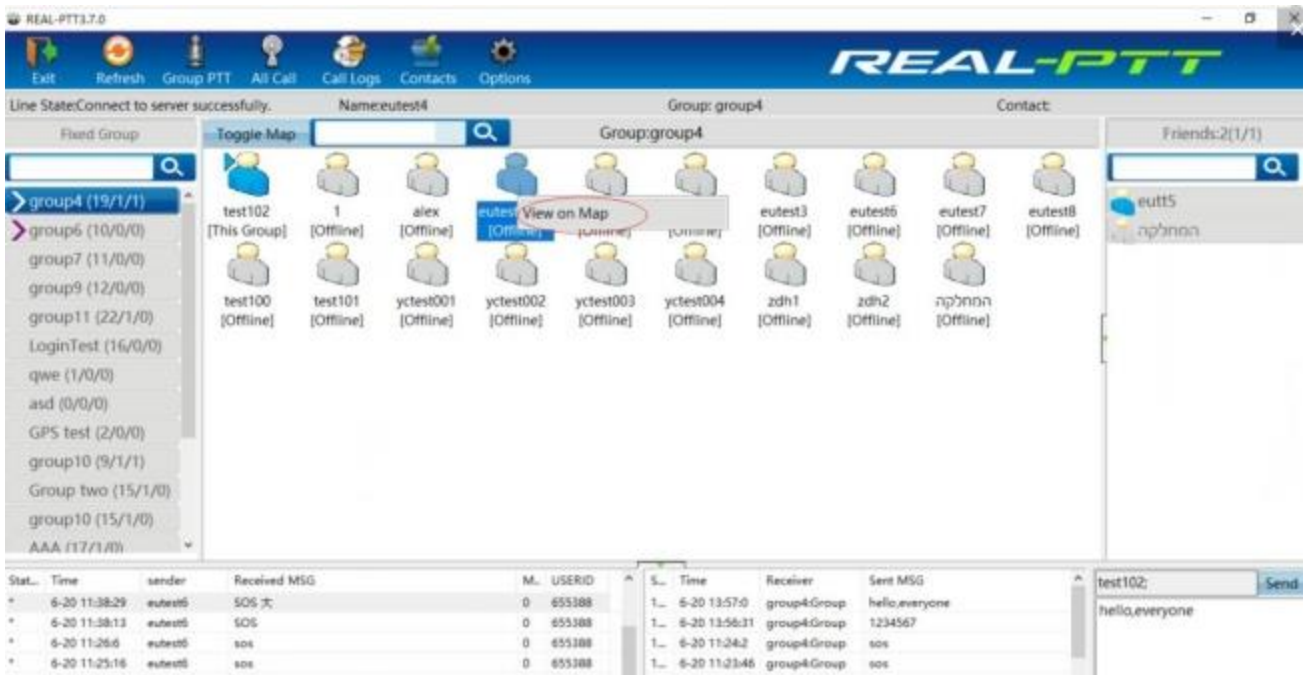


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Users are in the group

In the users and group mode, you can double-click offline user to view previous track. As showed below:

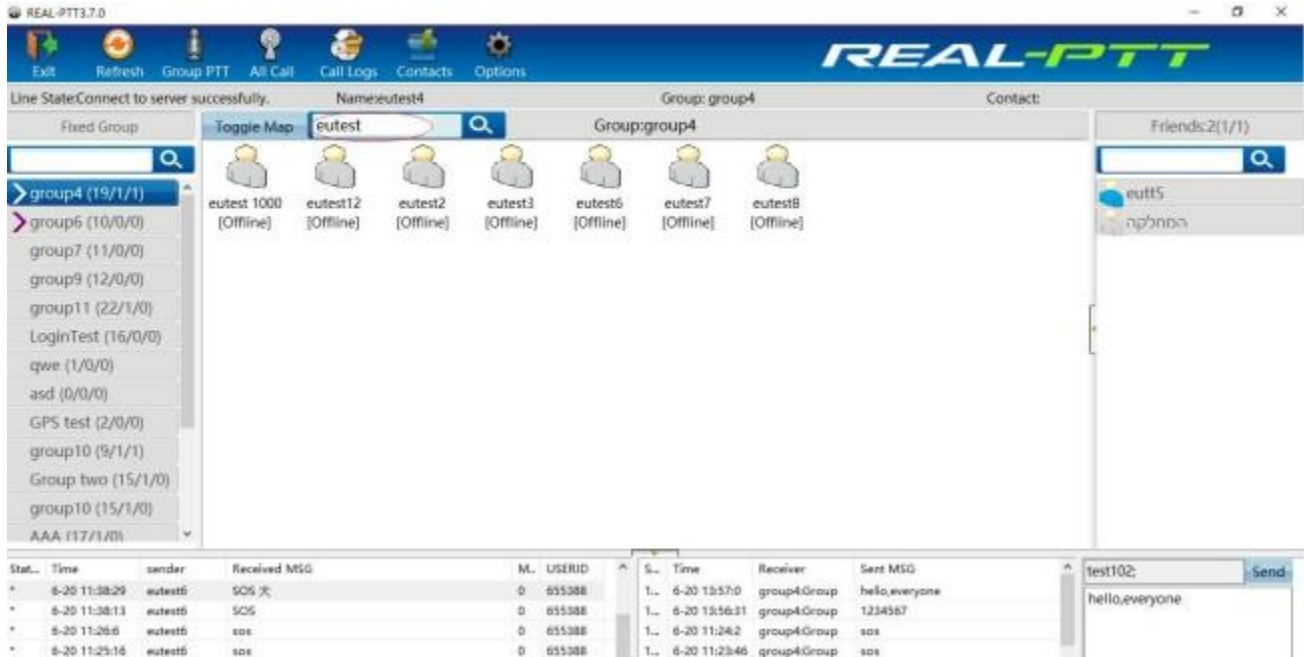


Offline User show "view on map"



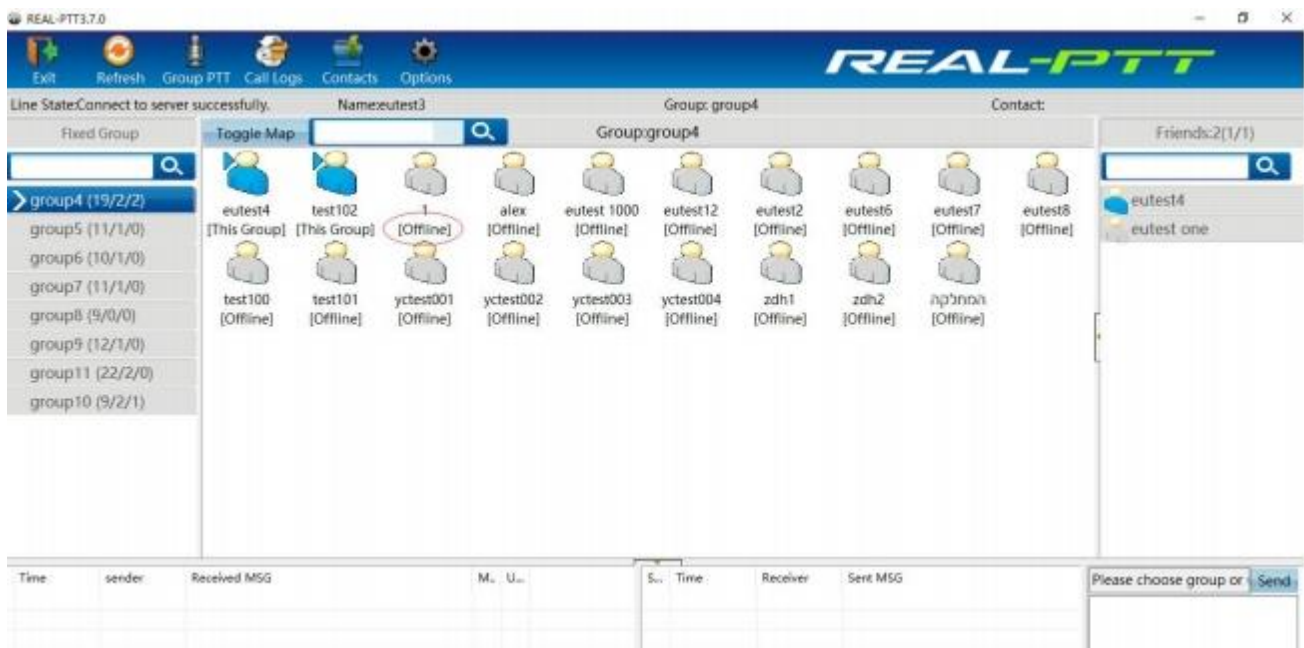
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User search bar, input user name or character can search out the user. As shown in Figure



User search bar

User status is offline, offline icon is displayed in the user display area.

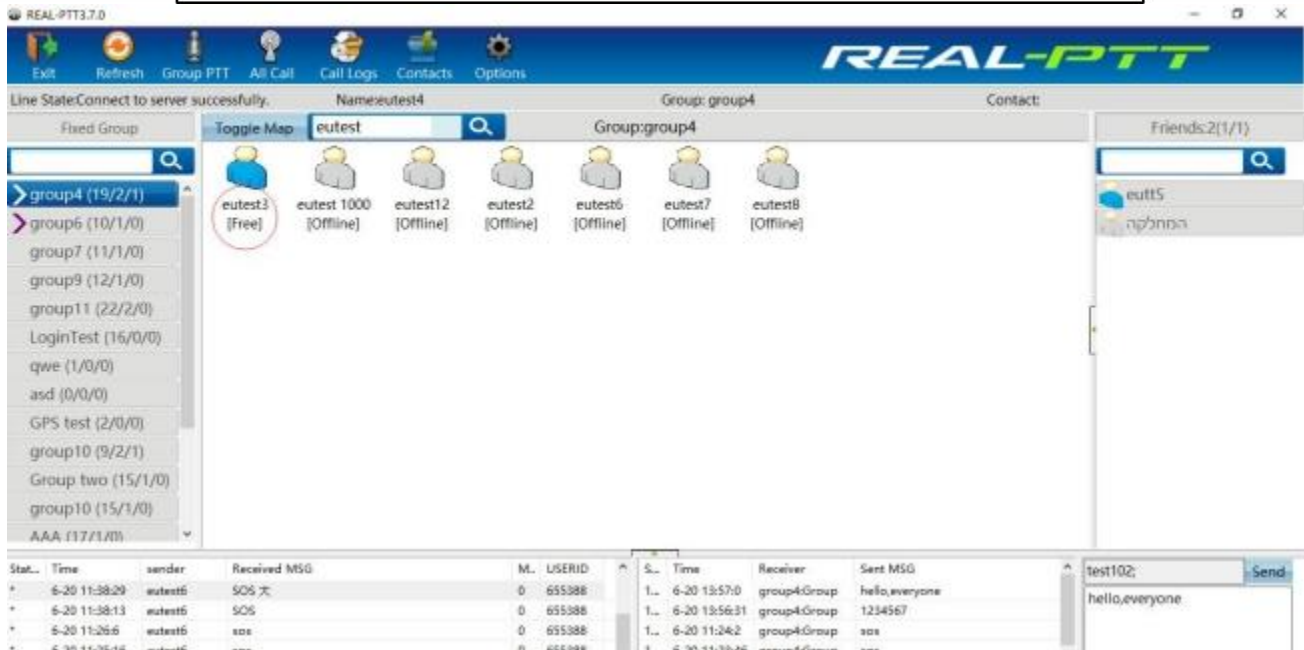


User status is offline

User status is free, which mean that the user is online but not in any group



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User status is free

1.8 Map mode functions

To see the user's location in map mode, the following settings are required:

For company platform

1:GPS positioning should be checked in the radio id account

2:GPS positioning and view location should be checked in the radio id account in the company platform, which login pc dispatcher

3:Set GPS, it should be more than 0 in the company platform

Radio device settings: If there are GPS options in the radio programming, gps should be checked in the programming software.

The radio needs to be positioned outdoors, For rainy days, as poor positioning situation, it takes more time to get gps data.

You selected one user and click then choose "View on map", it will be show below pic, then you can operate "Latched calling position", "Last location", "track speed", "export gps tracking", "select gps ico", "select time zone", "Geo-fencing" select satellite and traffic map etc.



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The screenshot shows the REAL-PTT interface with a map of Shenzhen. A context menu is open over the map, with 'View on Map' selected. The message log at the bottom shows the following data:

Stat.	Time	sender	Received MSG	M.	USERID	S.	Time	Receiver	Sent MSG
*	06-20 11:40:03	eutest6	Sos!!!	0	655388	1..	06-20 13:57...	group4Group	hello,everyone
*	06-20 11:38:58	eutest6	Soc	0	655388	1..	06-20 13:56...	group4Group	1234567
*	06-20 11:38:45	eutest6	sosda	0	655388	1..	06-20 11:24...	group4Group	sos
*	06-20 11:38:29	eutest6	SOS 犬	0	655388	1..	06-20 11:23...	group4Group	sos

Check the user's gps track

Select the user and then right-click in the pop-up options box, select "View on map", modify the start time and end time. The default query for the current hour ahead of the track, query a track time period of up to 12 hours.

The screenshot shows the REAL-PTT interface with a list of users. A context menu is open over the user list, with 'View on Map' selected. The message log at the bottom shows the following data:

Stat.	Time	sender	Received MSG	M.	USERID	S.	Time	Receiver	Sent MSG
*	06-20 11:40:03	eutest6	Sos!!!	0	655388	1..	06-20 13:57...	group4Group	hello,everyone
*	06-20 11:38:58	eutest6	Soc	0	655388	1..	06-20 13:56...	group4Group	1234567
*	06-20 11:38:45	eutest6	sosda	0	655388	1..	06-20 11:24...	group4Group	sos
*	06-20 11:38:29	eutest6	SOS 犬	0	655388	1..	06-20 11:23...	group4Group	sos
*	06-20 11:38:13	eutest6	SOS	0	655388	1..	06-20 11:23...	group4Group	sos



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The screenshot shows the REAL-PTT software interface. At the top, there's a menu bar with 'Exit', 'Refresh', 'Group PTT', 'Call Logs', 'Contacts', and 'Options'. Below the menu, there's a header with 'Line State', 'Connect to server successfully', 'Name: eutest3', 'Group: group5', and 'Contact:'. The main area is a map showing a location in China, with a red pin and a black car icon. A pop-up window displays tracking details: Start time: 2018-05-04 02:11:15, End time: 2018-05-04 02:17:41, Driving distance: 0.004km, Travel time: 01:30M, Stop time: 04:5M, Latitude: 22.55423882746582, Longitude: 113.94280242979922. On the left, there's a 'Fixed Group' list with groups 4 through 10. On the right, there's a 'View on Map: eutest 1000' section with 'Start time' and 'End time' fields, and 'Obtain' and 'Delete' buttons. At the bottom, there's a table with columns for 'Time', 'sender', 'Received MSG', 'M.', 'U.', 'S.', 'Time', 'Receiver', and 'Sent MSG'. A 'Please choose group or Send' button is also visible.

User gps tracking information

Search detail location on the map

You can input some detail address to search location.



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Line State: Connect to server successfully. Name: eutest4 Group: group6 Contact: Friends: 2(0/2)

Fixed Group: group4 (19/2/1), group6 (10/1/0), group7 (11/1/0), group9 (12/1/0), group11 (22/2/0), LoginTest (16/1/0), qwe (1/0/0), asd (0/0/0), GPS test (2/0/0), group10 (9/1/0), Group two (15/1/0), group10 (15/1/0), AAA (17/1/0)

Stat.	Time	sender	Received MSG	M.	USERID	S.	Time	Receiver	Sent MSG
*	06-20 11:38:29	eutest6	SOS 大	0	655388	1..	06-20 13:57...	group4:Group	hello,everyone
*	06-20 11:38:13	eutest6	SOS	0	655388	1..	06-20 13:56...	group4:Group	1234567
*	06-20 11:26:06	eutest6	sos	0	655388	1..	06-20 11:24...	group4:Group	sos
*	06-20 11:25:16	eutest6	sos	0	655388	1..	06-20 11:23...	group4:Group	sos
*	06-20 11:24:09	eutest6	sos	0	655388	1..	06-20 11:23...	group4:Group	sos

Latched calling position

In the map mode, click “Latched calling position”, the system can lock the calling position automatically. As shown below.

Line State: Connect to server successfully. Name: eutest4 Group: group4 Contact: Friends: 2(0/2)

Fixed Group: group4 (19/2/2), group6 (10/1/0), group7 (11/1/0), group9 (12/1/0), group11 (22/2/0), LoginTest (16/0/0), qwe (1/0/0), asd (0/0/0), GPS test (2/0/0), group10 (9/1/0), Group two (15/1/0), group10 (15/1/0), AAA (17/1/0)

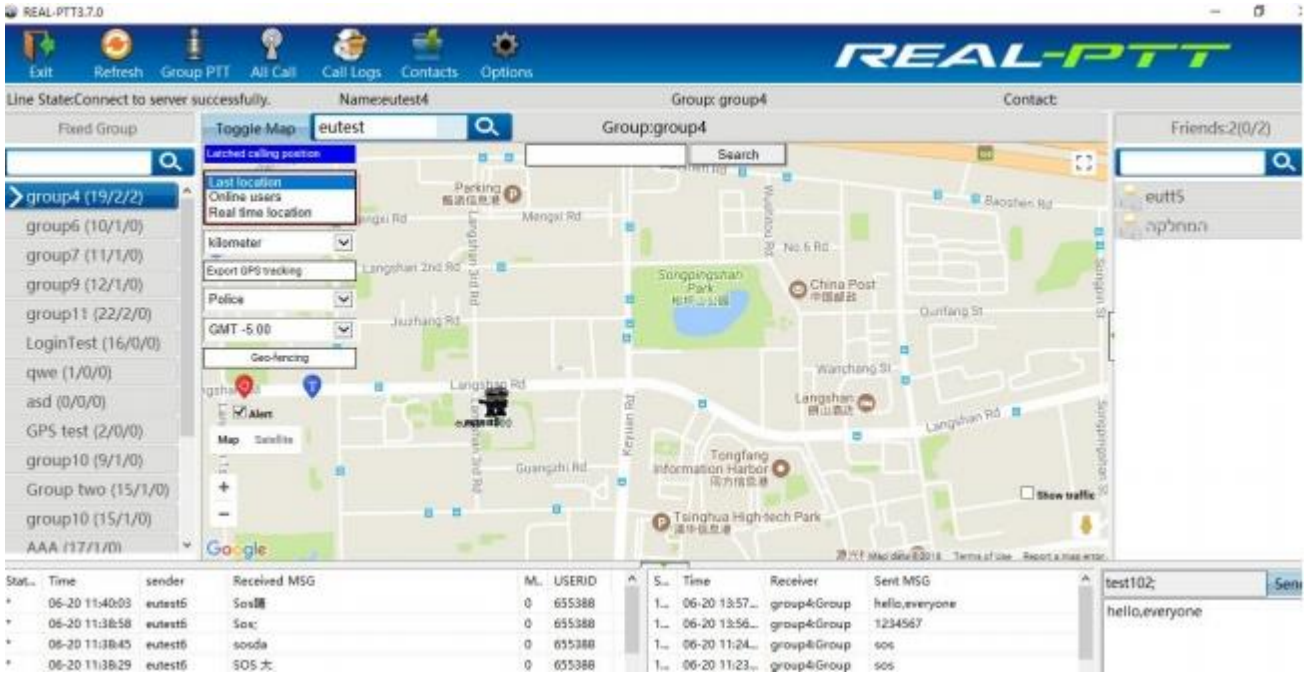
Stat.	Time	sender	Received MSG	M.	USERID	S.	Time	Receiver	Sent MSG
*	06-20 11:40:03	eutest5	Sos	0	655388	1..	06-20 13:57...	group4:Group	hello,everyone
*	06-20 11:38:58	eutest5	Sos	0	655388	1..	06-20 13:56...	group4:Group	1234567
*	06-20 11:38:45	eutest5	sos	0	655388	1..	06-20 11:24...	group4:Group	sos

Show last location, online users, real time location

The users last location can be showed in the map, what is more, you can click online users, and real time location during 15 minutes.

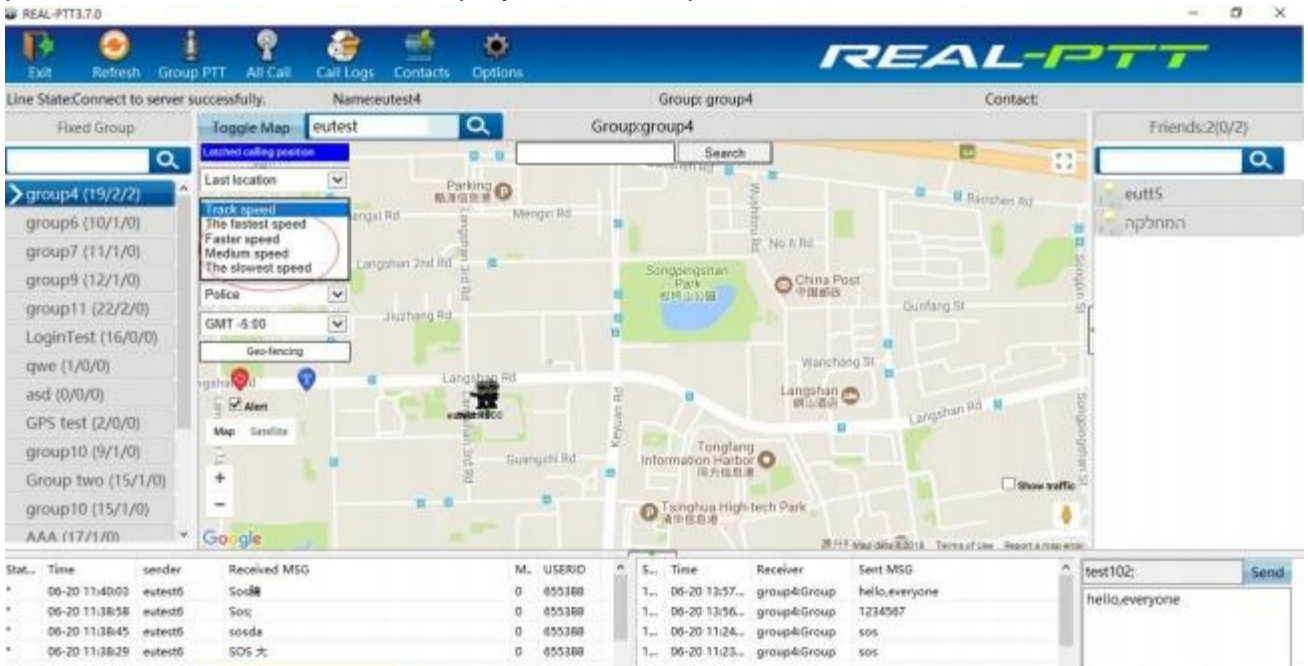


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Track speed

After checking the user gps tracking, track speed can be used to simulate the user's tracking process. There are five kinds of playback track speed.



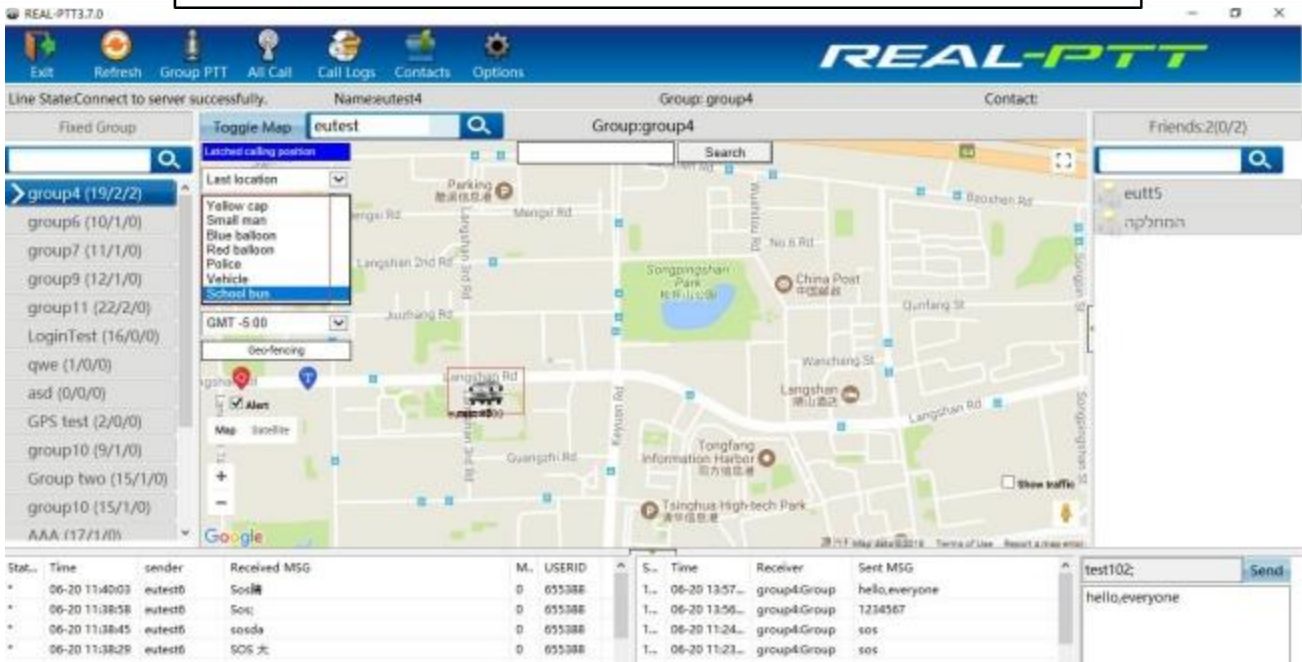
Track speed

Set location icon

You can select some kinds of icons to locate users, you can choose yellow cap, small man, blue balloon, red balloon, police, vehicle, school bus to show.

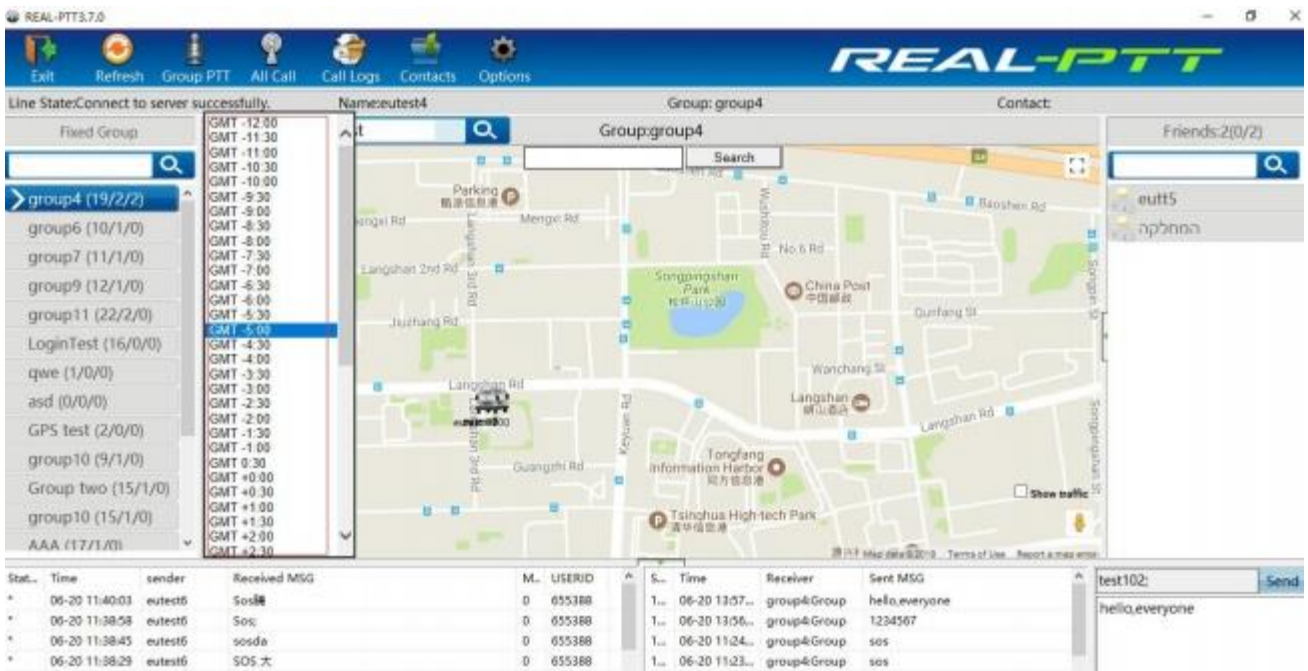


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Time Zone

You can select time zone according to your own country.



Satellite map

Click "satellite", Satellite map will be showed



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The screenshot shows the REAL-PTT interface with a satellite map of an urban area. The interface includes a top menu bar with options like Exit, Refresh, Group PTT, Call Logs, and Contacts. Below the menu, there are fields for Name (eutest4), Group (group4), and Contact. A search bar is also present. The map shows a city with roads and buildings. On the left, there is a 'Fixed Group' list with various group names and member counts. A 'Toggle Map' panel is open, showing settings like 'Latched calling position', 'Track speed', 'kilometer', 'Export GPS tracking', 'School bus', 'GMT -5:00', and 'Geo-fencing'. At the bottom, there is a message log table.

Stat.	Time	sender	Received MSG	M.	USERID	S.	Time	Receiver	Sent MSG
*	06-20 11:40:03	eutest6	Sos	0	655388	L.	06-20 13:57...	group4Group	hello, everyone
*	06-20 11:38:58	eutest6	Sos	0	655388	L.	06-20 13:56...	group4Group	1234567
*	06-20 11:38:45	eutest6	sos	0	655388	L.	06-20 11:24...	group4Group	sos
*	06-20 11:38:29	eutest6	SOS 文	0	655388	L.	06-20 11:23...	group4Group	sos

Satellite map

Street view

Moving pegman, street view will be shown in the map

The screenshot shows the REAL-PTT interface with a street view map of a coastal region. The interface is similar to the previous screenshot, but the map shows a different location, likely a coastal area with a bay. The 'Fixed Group' list on the left is updated to show Group2 (14/3/2) as the selected group. The 'Toggle Map' panel is also visible, showing settings for the current group. The map shows a coastline with a bay and surrounding land.



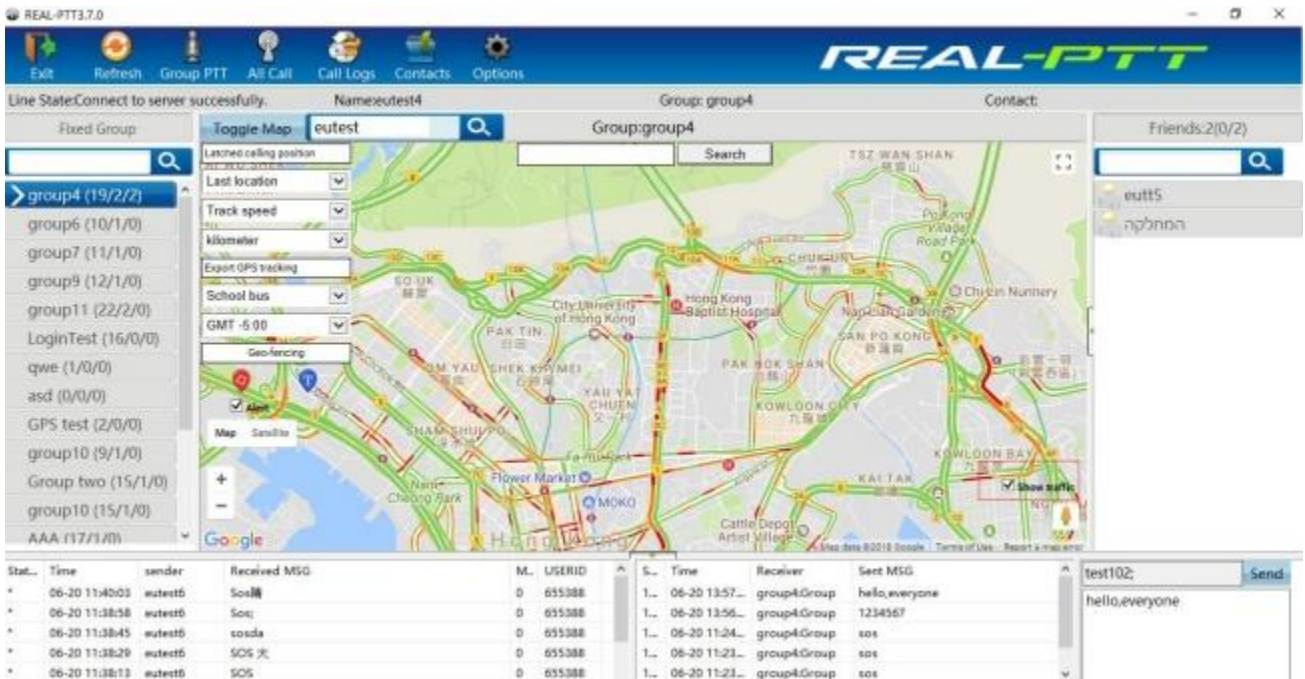
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Street view

Traffic map

Click traffic map, then it will show road traffic situation.



Geo-fencing

There is a small red icon used to set the geo-fencing,if there are some users are out of range,the alarm will sound on the dispatch station,what is more, there are text prompt box in the map interface.



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REAL-PTT3.6.1

Line State: Connect to server successfu Name: eutest3 Group: Group2

Fixed Group

- Group2 (14/3/2)
- Group1 (14/3/1)
- group4 (16/2/0)
- group5 (10/2/0)
- group6 (9/2/0)
- group7 (10/2/0)
- group8 (8/2/0)
- group9 (11/2/0)
- group10 (10/2/0)
- group11 (11/2/0)

Toggle Map eutest Group: Group2

Latched calling position

Show offline users

Track speed

kilometer

Export GPS tracking

GMT +8:00

Geo-fencing

Map Satellite

Map showing East Asia (Guangdong, Hainan, etc.) with a red location mark and a Geo-fencing polygon.

Line State: Connect to server successfu Name: BRAVO ONE Group: Real Security Contact: Friends: 0(0/0)

Fixed Group

- Real Security (10/5/5)

Toggle Map Group: Real Security

Latched calling position

Show offline users

Track speed

kilometer

Export GPS tracking

Geo-fencing

Warning! There are users out of range

Map Satellite

Map showing Pretoria area with a red location mark and a Geo-fencing polygon.

Time	sender	Received MSG	M...	U...	S...	Time	Receiver	Sent MSG	Please choose group of	Send

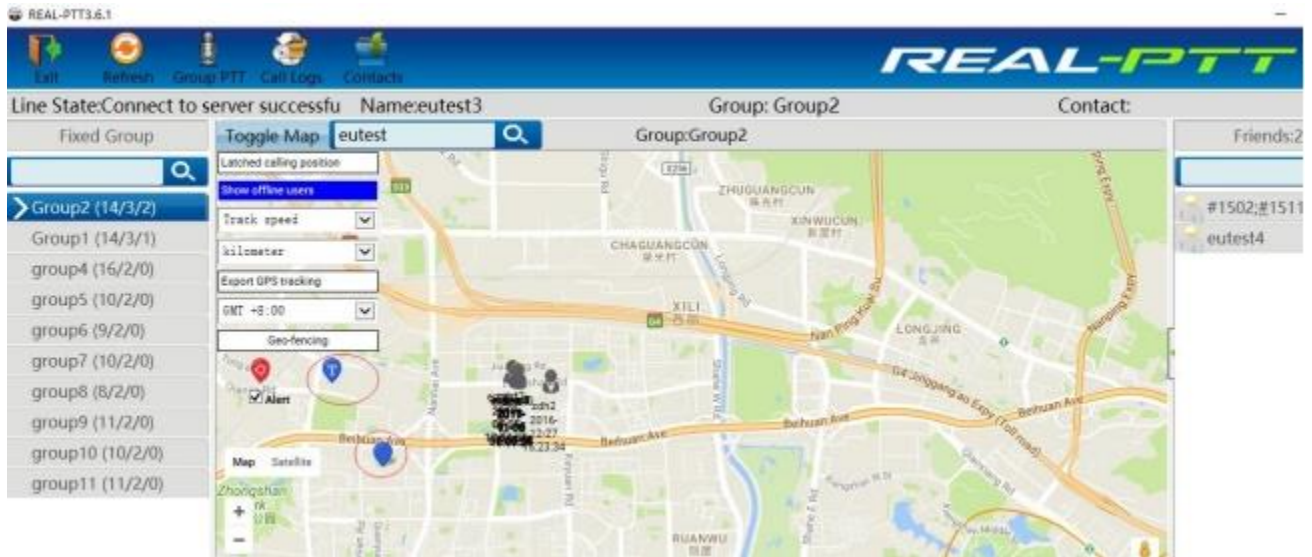
Geo-fencing

Location mark

Location mark can be set in the map interface, make note for location information.



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Location mark

Export GPS tracking

If you click "Export track" then it will be make a excel as below show,

User	Date	GPS Lat	GPS Long
vq1	2016/4/1 14:32	22.35908	114.1244
vq1	2016/4/1 14:31	22.35904	114.12441
vq1	2016/4/1 14:30	22.35916	114.12421
vq1	2016/4/1 14:29	22.3592	114.12426
vq1	2016/4/1 14:28	22.35904	114.12444
vq1	2016/4/1 14:27	22.35899	114.12451
vq1	2016/4/1 14:26	22.36014	114.1258
vq1	2016/4/1 14:25	22.35979	114.12601
vq1	2016/4/1 14:24	22.35794	114.12377
vq1	2016/4/1 14:23	22.35676	114.12503
vq1	2016/4/1 14:22	22.35581	114.12604
vq1	2016/4/1 14:21	22.35223	114.12386
vq1	2016/4/1 14:20	22.35193	114.122
vq1	2016/4/1 14:19	22.35362	114.12196
vq1	2016/4/1 14:18	22.35373	114.12204
vq1	2016/4/1 14:17	22.35373	114.12197
vq1	2016/4/1 14:16	22.35362	114.12196
vq1	2016/4/1 14:15	22.35361	114.12199
vq1	2016/4/1 14:13	22.35357	114.12192
vq1	2016/4/1 14:12	22.35357	114.12191
vq1	2016/4/1 14:11	22.3537	114.12196
vq1	2016/4/1 14:10	22.35364	114.12194
vq1	2016/4/1 14:09	22.35365	114.12193
vq1	2016/4/1 14:08	22.35364	114.1219

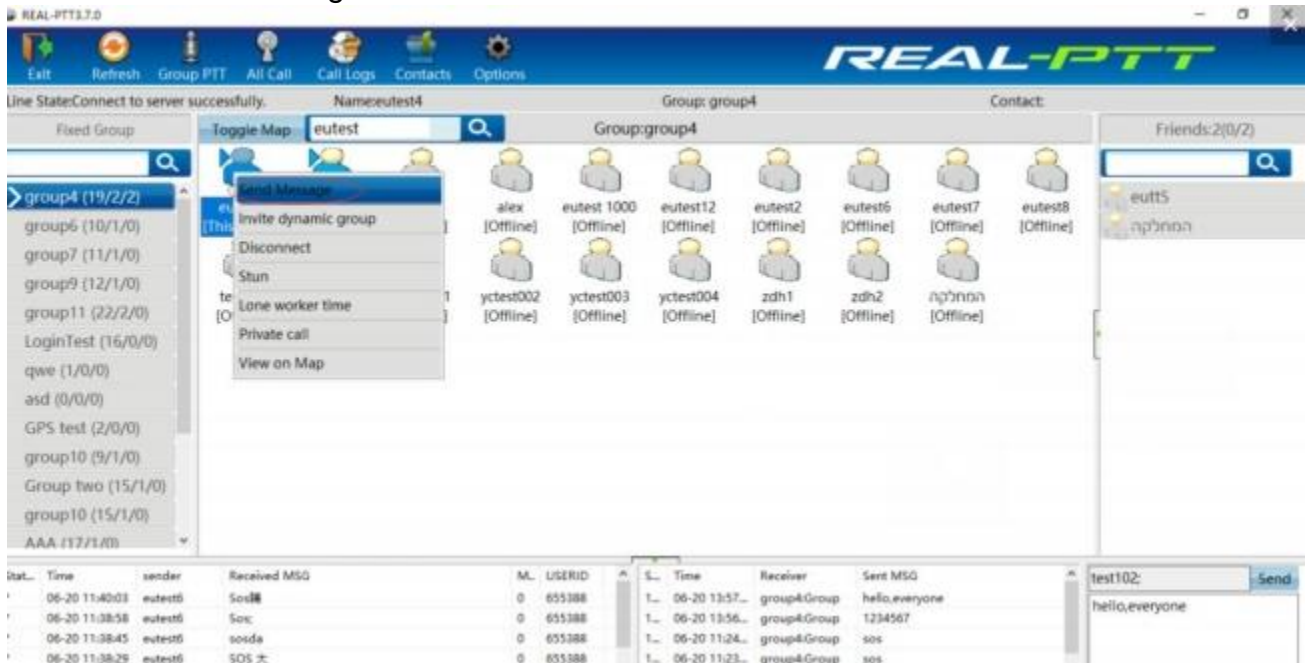


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Sending message

Send messages to individual users

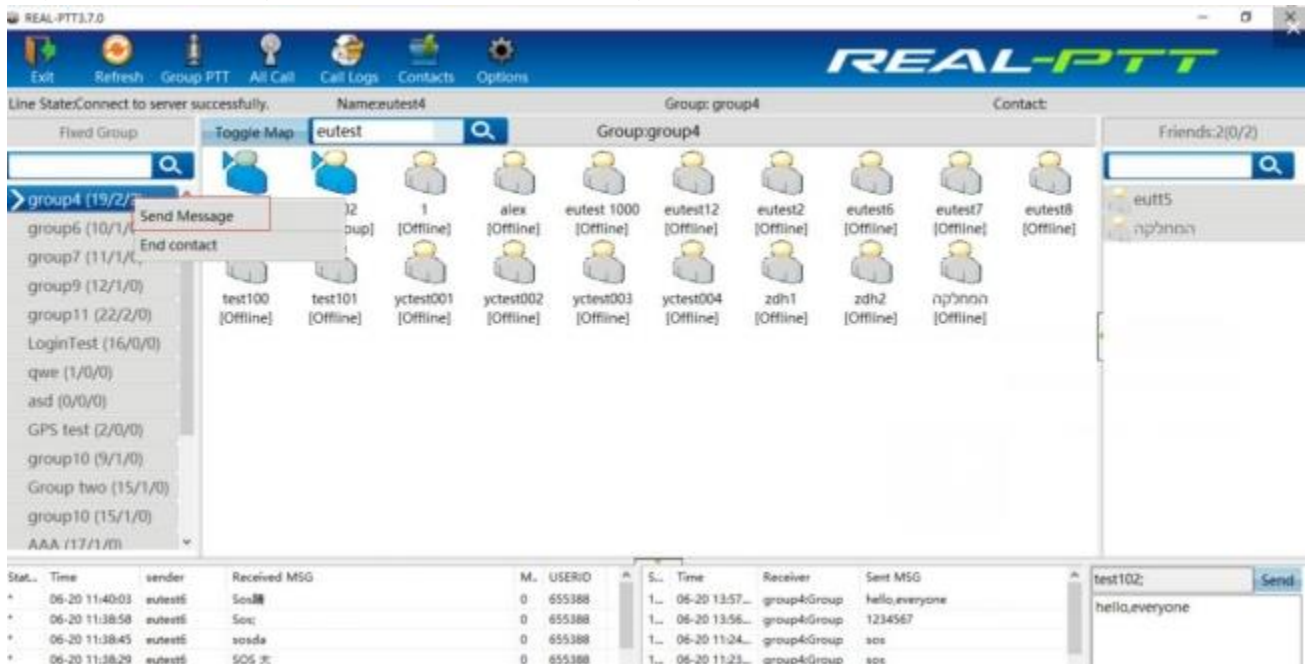
Right click on the online user, select "send message", a maximum of 5 online users can choose to send message.



Send messages to individual users

Send message to the group

Right click on the group, click "send a message."



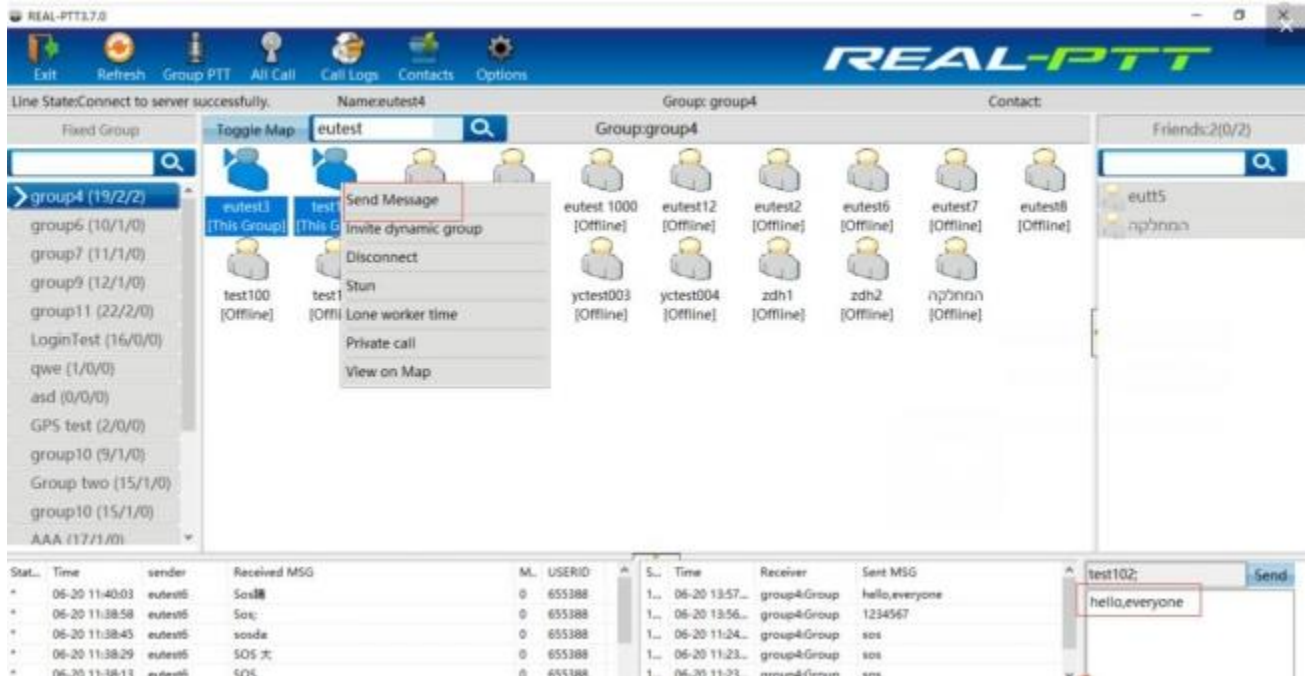
Send message to the group



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Edit the message

There is a message edit box in the lower right corner of the dispatcher, input the characters in the edit box. After editing the content, click "Send", the radio can receive message when the radio have function which can receive message.



Edit the message

Message sent situation

Check the message sending time, message receiver and message content.

S...	Time	Receiver	Sent MSG
1...	06-20 13:57...	group4:Group	hello, everyone
1...	06-20 13:56...	group4:Group	1234567
1...	06-20 11:24...	group4:Group	sos
1...	06-20 11:23...	group4:Group	sos
1...	06-20 11:23...	group4:Group	sos

Message receiving situation

Check the message receiving time, sender, and received message content.



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Stat..	Time	sender	Received MSG	M..	USERID	
*	06-20 11:38:29	eutest6	SOS 大	0	655388	^
*	06-20 11:38:13	eutest6	SOS	0	655388	
*	06-20 11:26:06	eutest6	sos	0	655388	
*	06-20 11:25:16	eutest6	sos	0	655388	
*	06-20 11:24:09	eutest6	sos	0	655388	v