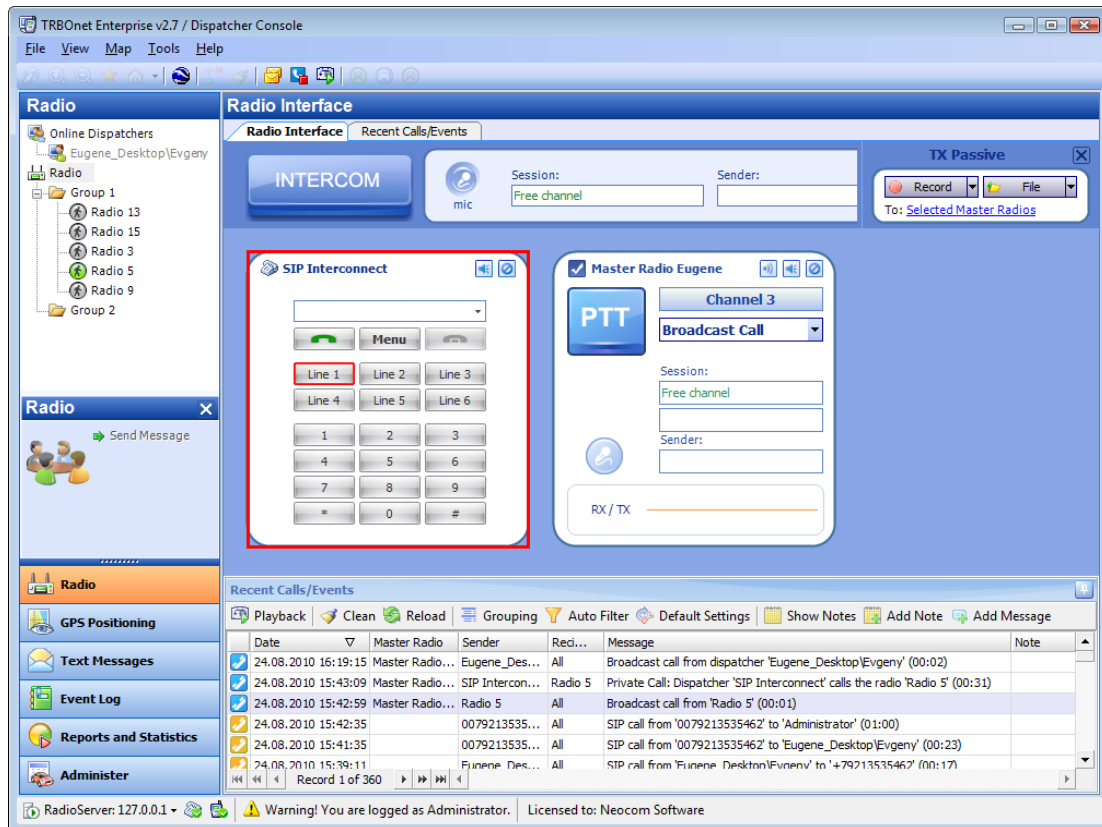


# Telephone Interconnect

We are glad to announce one of the **TRBONet Enterprise 2.7** release new features.

The **Telephone Interconnect (SIP)** function allows making calls from radios to telephones and from telephones to radios. A dispatcher can also make telephone calls from the Dispatcher Console.



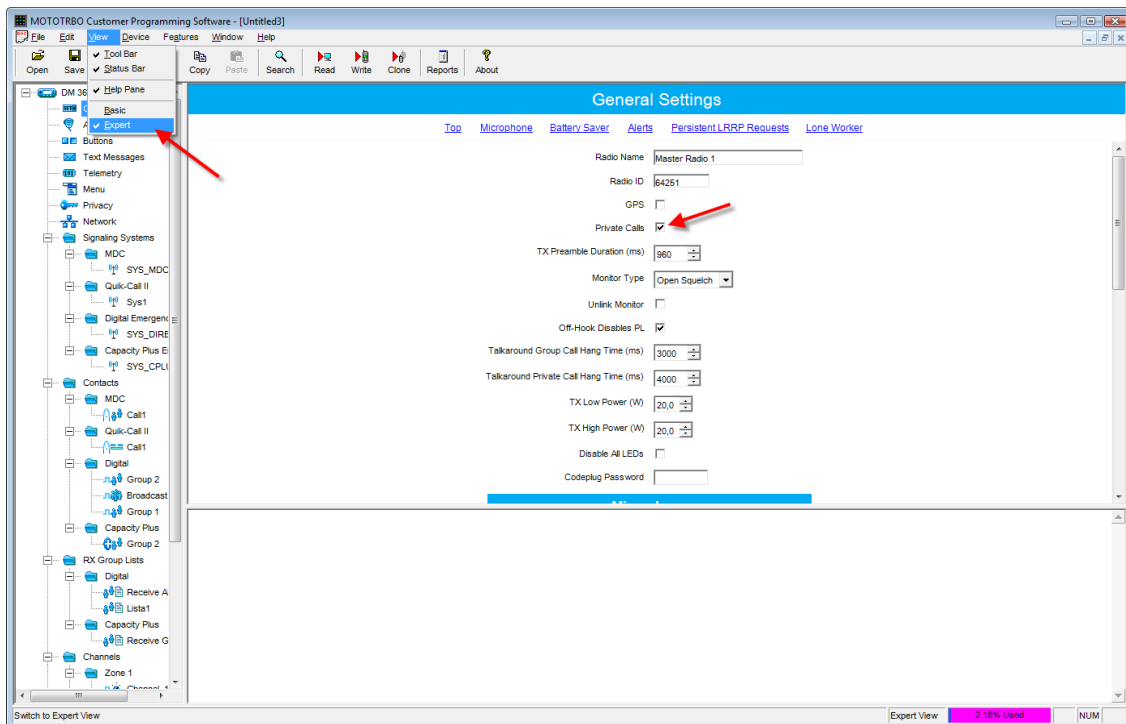
You only need to register a SIP account and configure the RadioServer to connect to this account. When you make a call, the SIP service connects to the RadioServer.

## Programming the master radio

**NOTE:** This feature currently is not supported in IP Site Connect systems.

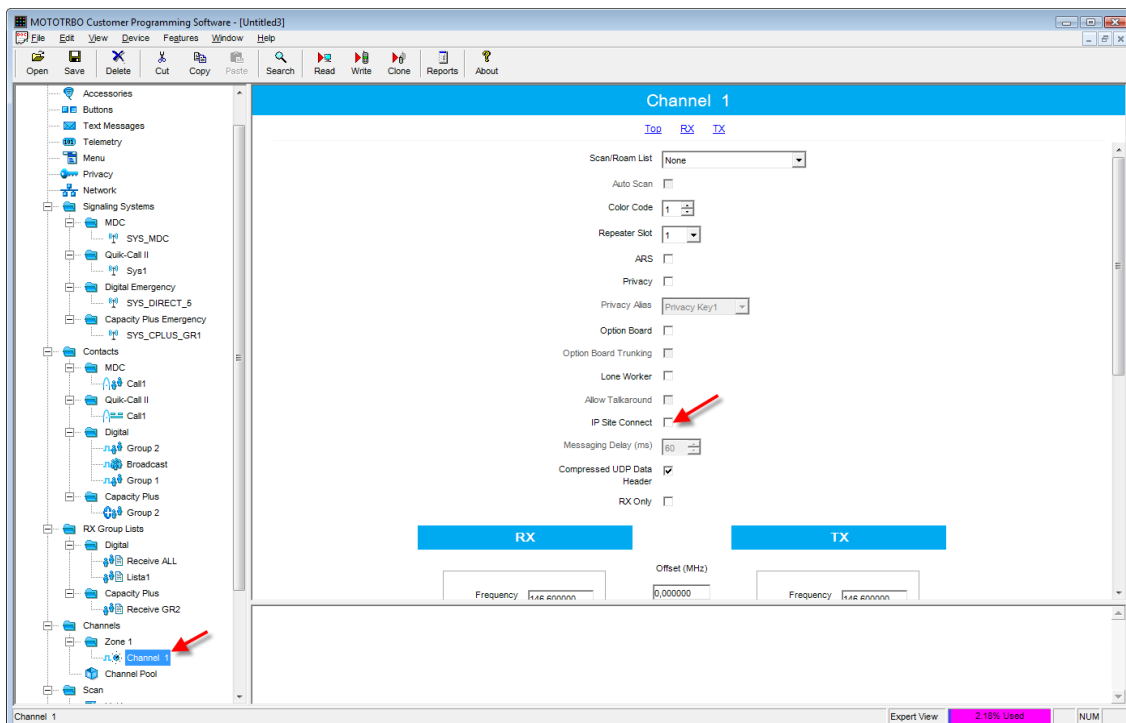
Make sure the Master Radio is correctly programmed. For this open **MOTOTRBO CPS**, select the expert view and read the radio's configuration.

1. Make sure the **Private Calls** are allowed in **General Settings**.



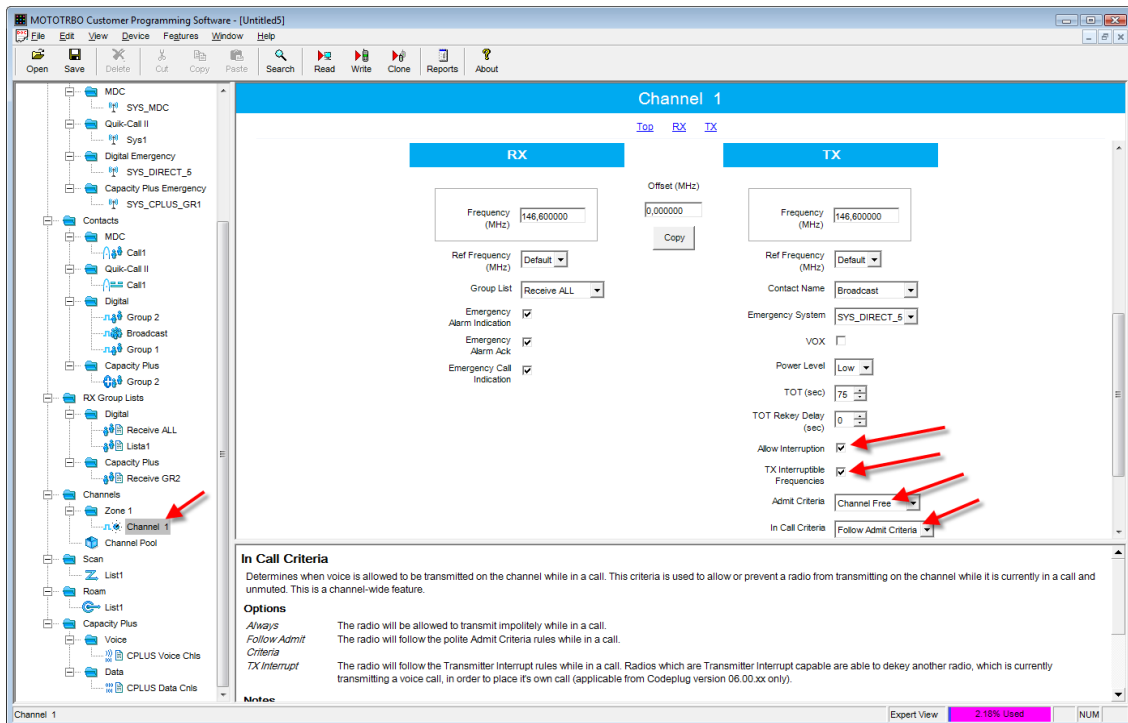
2. Go to your channel configuration and make the following settings:

- Make sure that **IP Site Connect** checkbox is not selected.



- Under the **TX** column select the **Allow Interruption** and **TX Interruptible Frequencies** checkboxes

- In **Admit Criteria** drop-down list select **Channel Free** and in **In Call Criteria** drop-down list select **Follow Admit Criteria**.

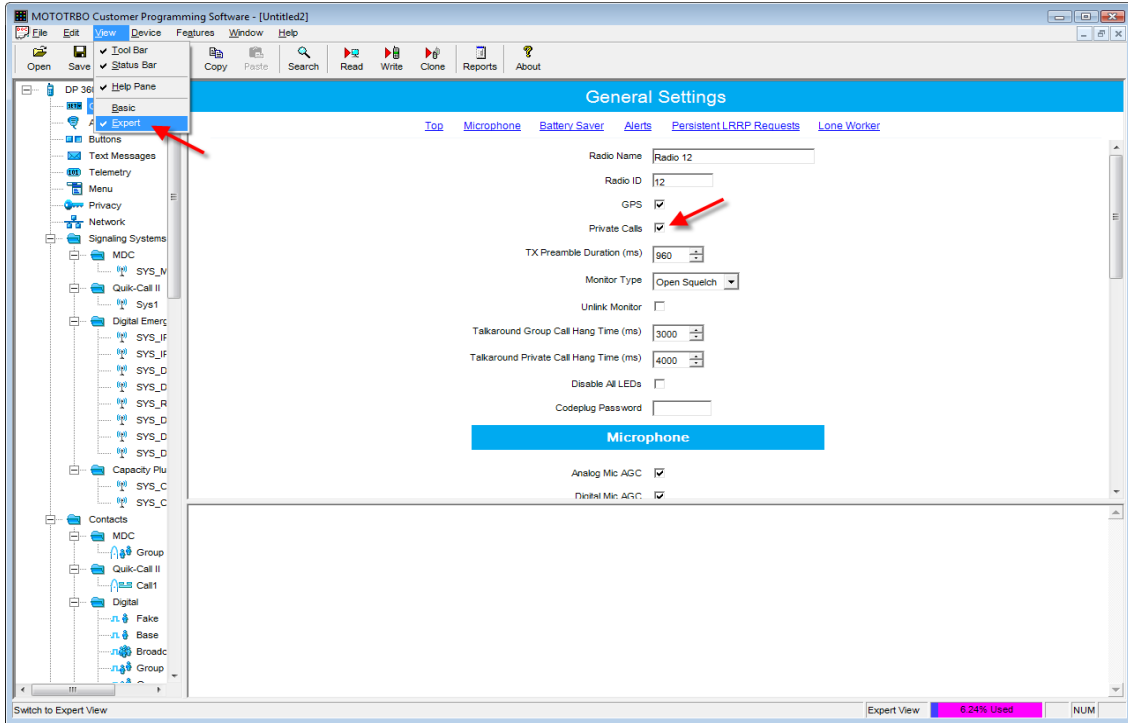


## Programming portable radios

**NOTE:** This feature currently is not supported in IP Site Connect systems.

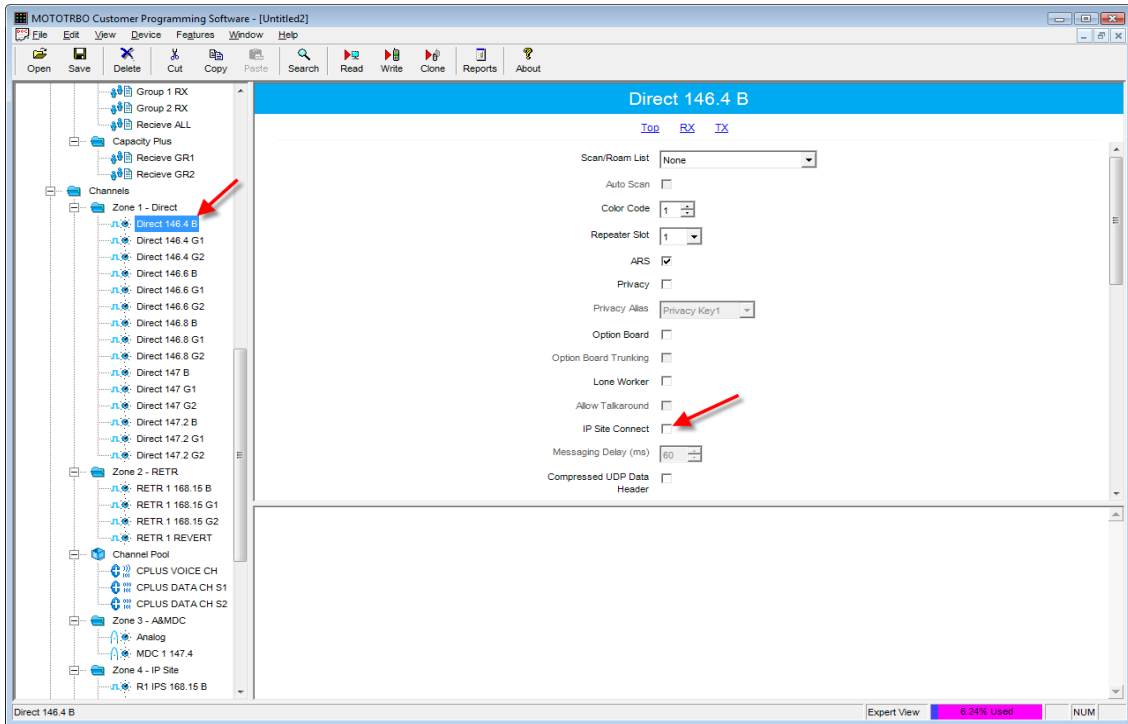
Make sure that portable radios are correctly programmed. For this open **MOTOTRBO CPS**, select the expert view and read the radio's configuration.

1. Make sure the **Private Calls** are allowed in **General Settings**.

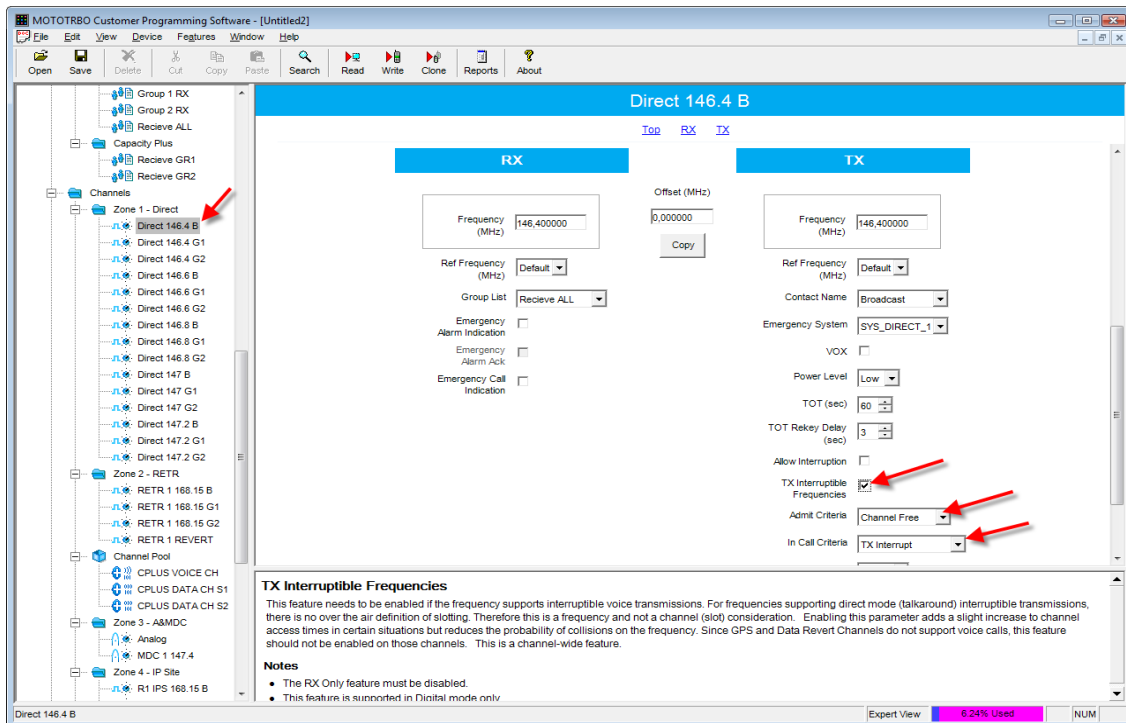


2. Go to your channel configuration and make the following settings:

- Make sure that **IP Site Connect** checkbox is not selected.

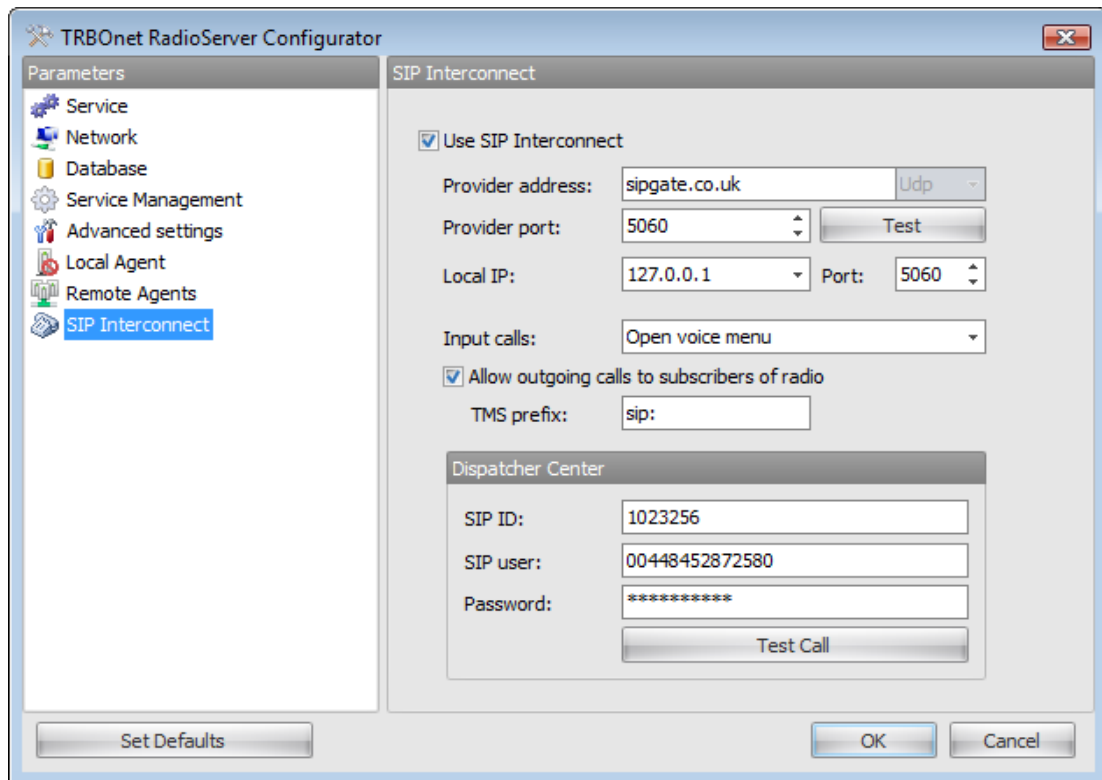


- Under the **TX** column select the **TX Interruptible Frequencies** checkbox
- In **Admit Criteria** drop-down list select **Channel Free** and in **In Call Criteria** drop-down list select **TX Interrupt**.



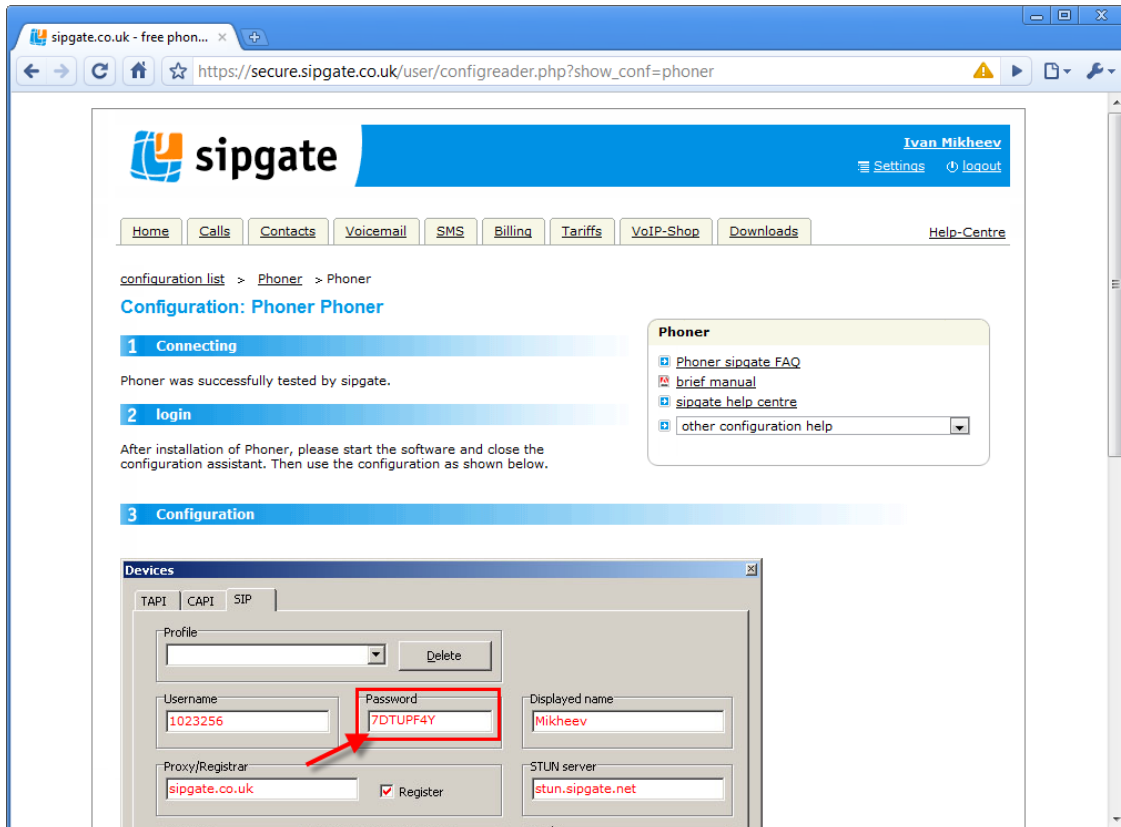
## Configuring Telephone Interconnect

1. Open the **TRBOnet RadioServer Configurator** using one of the following options:
  - In the Start menu, select **All Programs | Neocom Software | TRBOnet Enterprise v2.7 | Configure TRBOnet Enterprise RadioServer v2.7**
  - Use the **TRBOnet Enterprise RadioServer v2.7** shortcut on your desktop
2. Select **Sip Interconnect** in the navigation tree.



3. Configure the following parameters:

- **Use SIP Interconnect** - click to enable telephone interconnect
- **Provider address** - specify your SIP provider's website and select connection type (**UDP** or **TCP**)
- **Provider port** - specify the provider's port
- **Local port** - specify the local port
- **Test** - click test to test the SIP provider's availability
- **Input calls** - Select the RadioServer's actions in case of incoming phone calls (**Decline calls**, **Open voice menu** or **Redirect to dispatchers**)
- **Allow outgoing calls to subscribers of radio** - select to allow subscribers making calls to telephones
- **TMS prefix** - specify the prefix the subscriber will need to use to make a call (for example, if the prefix is "**sip:**" the subscriber will need to send a text message to a master radio with the text "**sip:N**", where **N** is the phone number to make call to)
- **SIP ID** - specify your SIP account's ID
- **SIP user** - specify your SIP account's full telephone number with the country code (for example 00448452872580)
- **Password** - to get your password, go to [https://secure.sipgate.co.uk/user/configreader.php?show\\_conf=phoner](https://secure.sipgate.co.uk/user/configreader.php?show_conf=phoner) and take it from the **Password** field.



- **Test call** - click to make a test call.

## Making calls from telephones to radios

To make a call from phone to radio you need to dial the SIP account's phone number. After that the SIP service connects to RadioServer and the call is conducted due to the RadioServer configuration (you are forwarded to a dispatcher or the voice menu to connect you to a subscriber).

## Making calls from radios to telephones

To make a call to a phone number you only need to send to the master radio a text message with the text "**PrefixN**".



**Prefix** - the prefix set in the RadioServer configuration (the default prefix is **sip**);

**N** - the telephone number

For instance, you send "sip:00789817388118" to the master radio to dial phone number 00789817388118. After that a private call is initiated and you can talk to the telephone subscriber.

## Making telephone calls from the Dispatcher Console

To make a phone call from the Dispatcher Console just select the free line, enter the phone number in

international format (for instance 00789817388118) and click . To terminate the call click .

The screenshot displays the TRBOnet Enterprise v2.7 Dispatcher Console interface. The main window is titled "Radio Interface" and contains several key components:

- Radio Interface Panel:** Includes an "INTERCOM" button, a microphone icon, and fields for "Session" (containing "Free channel") and "Sender". A "TX Passive" control is also present with "Record" and "File" buttons.
- SIP Interconnect Panel:** Features a dropdown menu with the number "0079213535462", a "Menu" button, and six "Line" buttons (Line 1 to Line 6). A red arrow points to the "Line 1" button.
- Master Radio Eugene Panel:** Shows "Channel 3" and "Broadcast Call" options, along with "Session" and "Sender" fields and an "RX / TX" indicator.
- Recent Calls/Events Log:** A table at the bottom of the interface showing call history. The table has columns for Date, Master Radio, Sender, Rec..., and Message.
 

Date	Master Radio	Sender	Rec...	Message	Note
24.08.2010 16:19:15	Master Radio...	Eugene_Des...	All	Broadcast call from dispatcher 'Eugene_Desktop\Evgeny' (00:02)	
24.08.2010 15:43:09	Master Radio...	SIP Intercon...	Radio 5	Private Call: Dispatcher 'SIP Interconnect' calls the radio 'Radio 5' (00:31)	
24.08.2010 15:42:59	Master Radio...	Radio 5	All	Broadcast call from 'Radio 5' (00:01)	
24.08.2010 15:42:35		0079213535...	All	SIP call from '0079213535462' to 'Administrator' (01:00)	
24.08.2010 15:41:35		0079213535...	All	SIP call from '0079213535462' to 'Eugene_Desktop\Evgeny' (00:23)	
24.08.2010 15:39:11		Eugene_Des...	All	SIP call from 'Eugene_Desktop\Evgeny' to '+79213535462' (00:17)	
- Left Sidebar:** Contains navigation options for "Radio", "GPS Positioning", "Text Messages", "Event Log", "Reports and Statistics", and "Administer".
- Bottom Status Bar:** Shows "RadioServer: 127.0.0.1", a warning "Warning! You are logged as Administrator.", and "Licensed to: Neocom Software".