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TRBOnet Digital Technologies

MOTOROLA SOLUTIONS CHANNEL AWARD WINNER 2012

Mobile Client For TRBOnet Enterprise 0.9 (BETA)

User Guide



December 04, 2014

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Overview

TRBOnet Mobile Client is a mobile application for Android smartphones which intends to expand TRBOnet Enterprise capabilities. The following functions are supported:

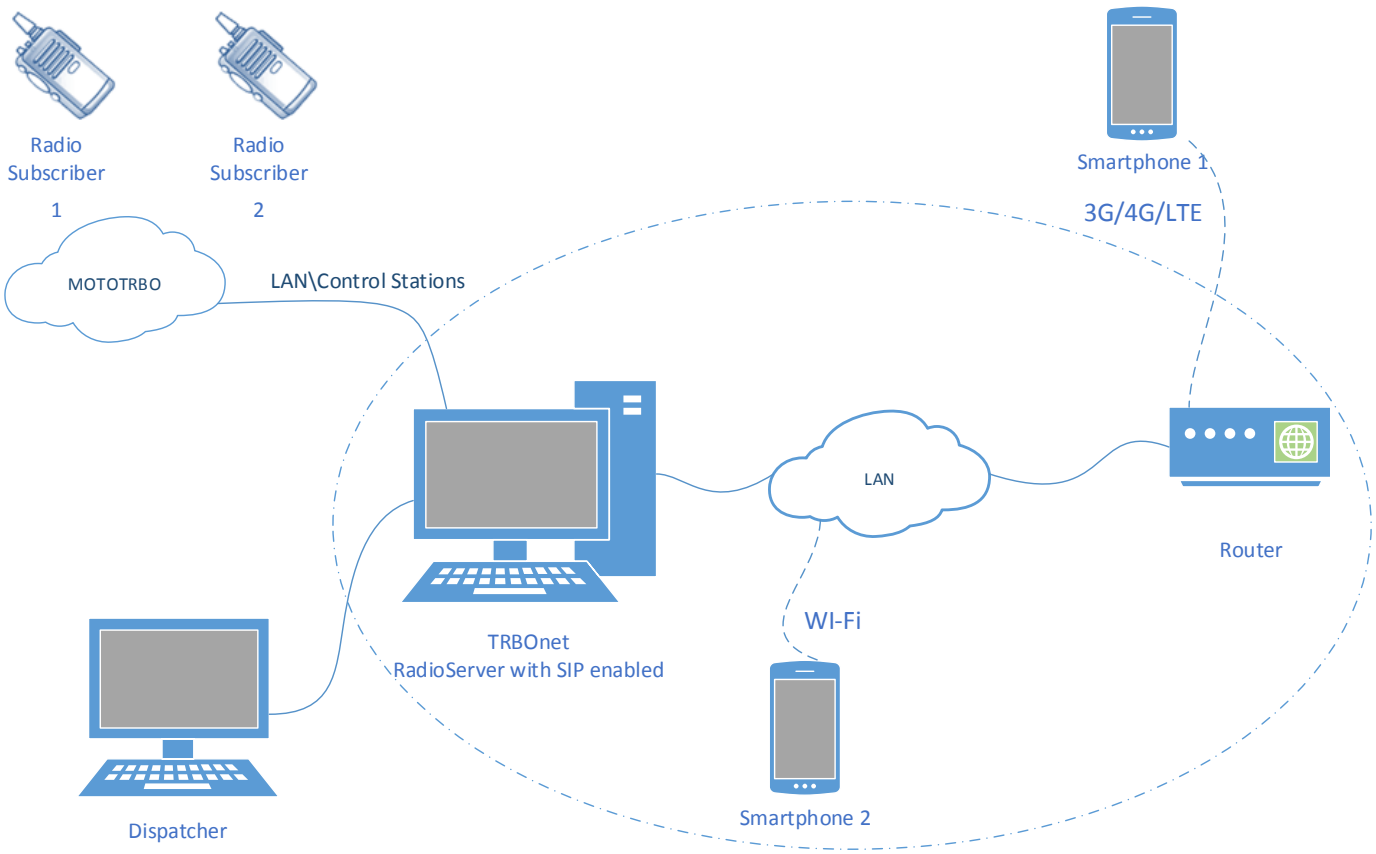
- VoIP, RoIP (PTT on Android)
- Emergency Alarm;
- Text Messages;
- GPS Monitoring;
- Job Ticketing.

Note: The current Mobile Client version 0.9 is NOT designed for a tablet.

Hardware and Software Requirements

TRBOnet Mobile Client	
Android Version	4.0 or higher. Application performance depends on the particular device efficiency
Software	TRBOnet Enterprise 4.6 or higher. NOT AVAILABLE FOR TRBOnet PLUS.
Ping	Ping between TRBOnet Enterprise Server and Mobile Client should be less than 100 ms.

System Architecture



TRBOnet Mobile Client utilizes SIP protocol to connect to TRBOnet RadioServer.
Connection type – Wi-Fi or 3G/4G/LTE.

If both ''Wi-Fi'' and 'Cellular Data'' are enabled on smartphone, TRBOnet Mobile Client automatically switches to cellular data when leaving Wi-Fi coverage area. It may result in extra costs for Internet traffic based on your mobile operator rates.

Note: when ''**Cellular Data**'' is in use, sound quality might be worse.

Features

	MOTOTRBO Control Stations (wireless setup)	MOTOTRBO IPSC and NAI (wireline setup)	Selex Echo-D (Wireline)
PTT for TX and RX to Radios	YES	**NO**	YES
Device-to-Device Calls	YES	YES	YES
Device-to-Dispatcher	YES	YES	YES
Emergency Alarm	YES	YES	YES
Text Messages	YES	YES	YES
Job Ticketing	YES	YES	YES
GPS Position tracking in TRBOnet Dispatcher	YES	YES	YES
GPS Maps for Radio Units	YES	YES	YES

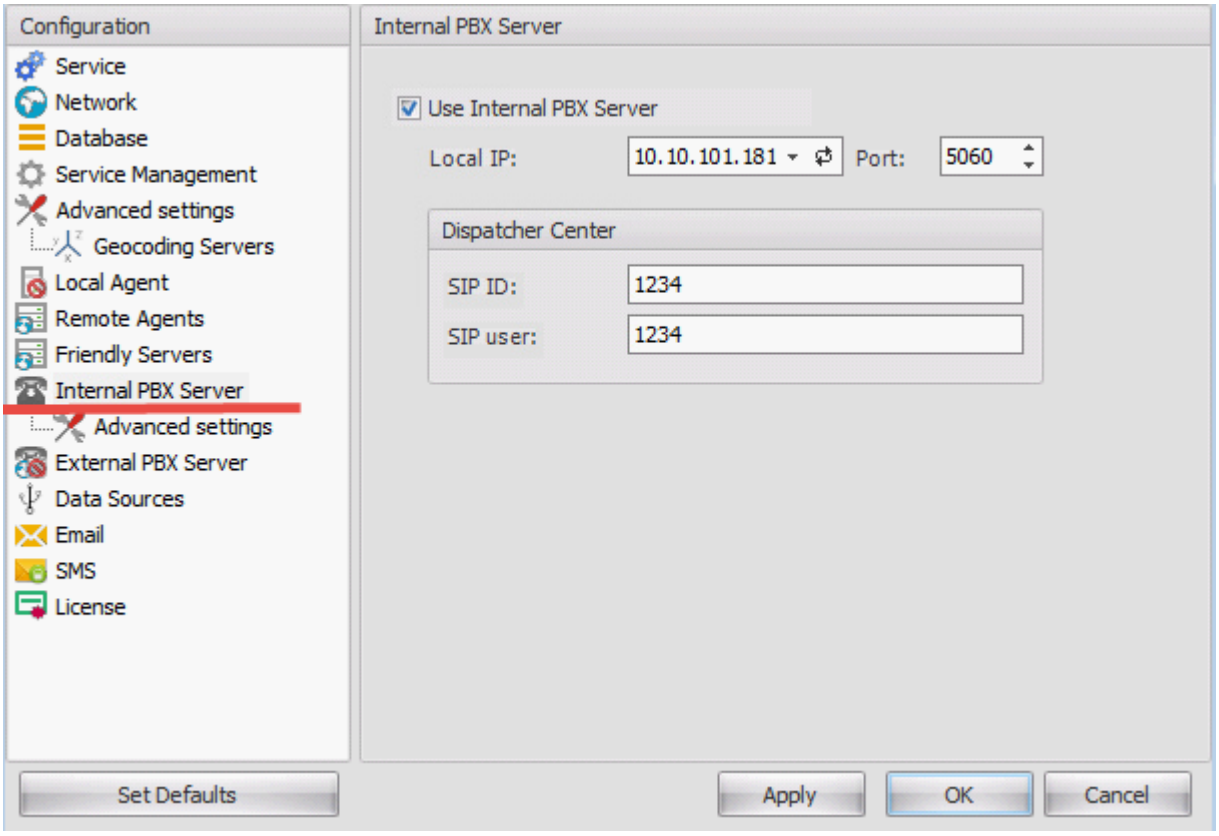
TRBOnet Mobile Client Installation

To install TRBOnet Mobile Client follow the steps below:

1. Download **TRBOnet Mobile Client** and install it on a smartphone.
2. Make sure your TRBOnet Enterprise license has **Mobile Client** features enabled.

Note: the number of available Mobile connections to a TRBOnet RadioServer is shown in a license.

3. Set **Internal PBX Server** parameters in TRBOnet RadioServer Configurator:

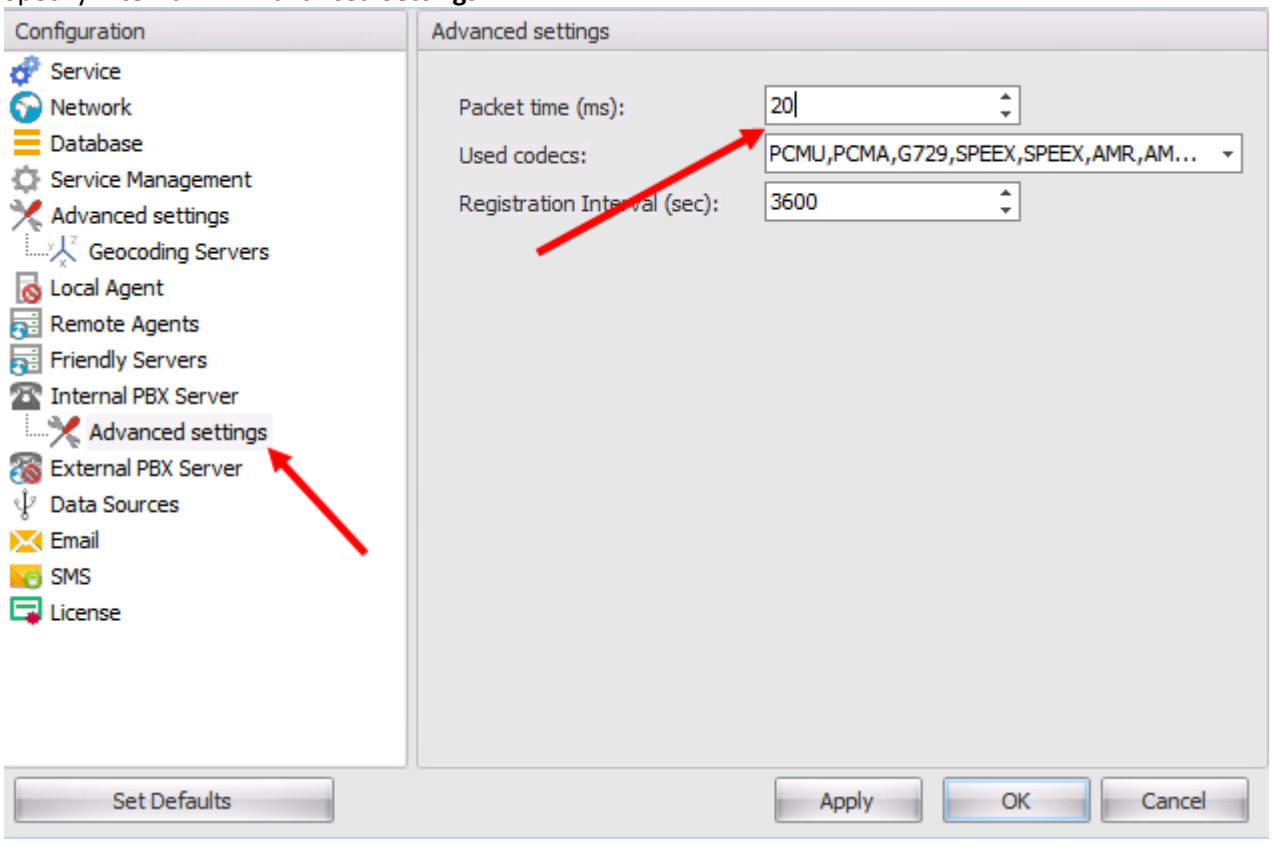


- **Use Internal PBX Server** – enable Phone Interconnect option using the internal PBX server;
- **Local IP** – specify the Network interface.
- **Port** - specify the port on the local PC; (5060 is the recommended)

Dispatcher Center:

- **SIP ID** – specify SIP ID associated with TRBOnet RadioServer to make and receive calls;
- **SIP User** – specify in SIP Name;

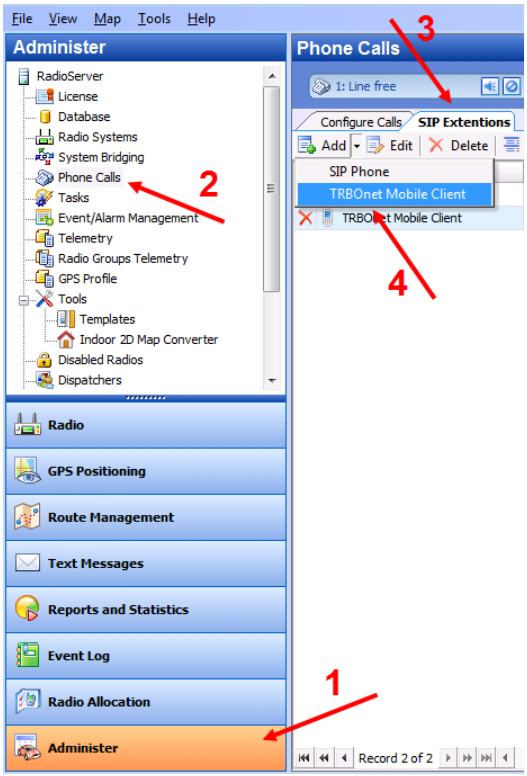
Specify **Internal PBX Advanced Settings**:

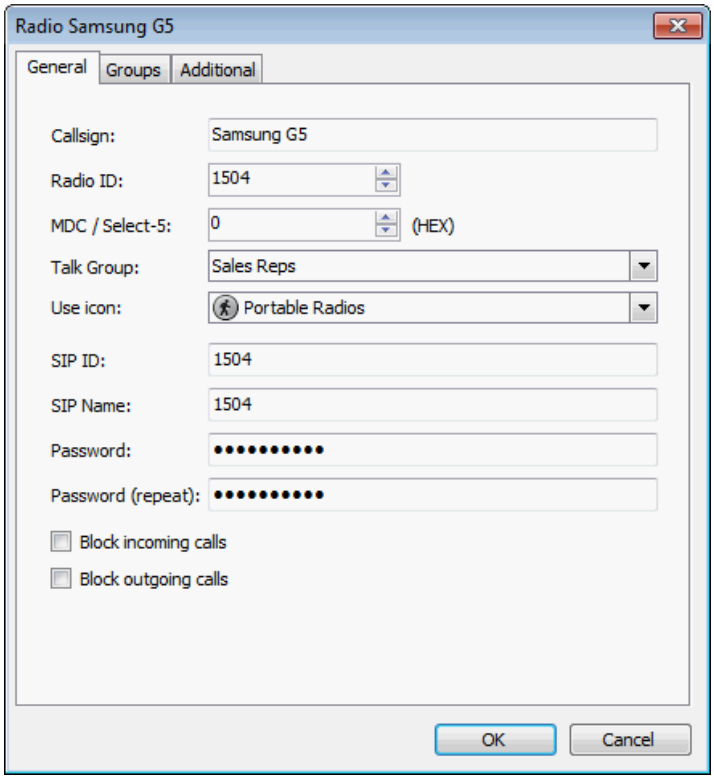


- **Packet time** (ms) – for TRBOnet Mobile Client stable work you need to specify 20 ms;
- **Used codecs** – use the default settings;
- **Registration Interval (sec.)** – specify how often a device should do the SIP registration.

Note: Mobile Client checks the connectivity to TRBOnet Server every 10 seconds.

4. Register mobile devices:





To add new mobile device go to **Administer** (1)**Phone Calls** (2)**Sip Extensions** (3) and click **''Add>TRBOnet Mobile Client**'' button (4).

Mobile Device registering window appears.
On the **General** tab insert general settings:

- **Callsign –** specify a callsign for new mobile device to display in the Dispatch Console;
- **Radio ID** – specify a Radio ID. Sets an individual ID that uniquely identifies the mobile device. This ID is used by other calling radios when addressing the device, for instance, when making a private call or sending a text message;
- **MDC/Select-5** – specify a Radio ID for analogue signaling (if in use). For more details see TRBOnet Administration Guide, **TRBOnet.Swift Agent's Advanced Settings** section.
- **Talk Group** – select the talk group for the mobile device in the dropdown list;
- **Use Icon** – select an icon for the new mobile device in the dropdown list;
- **SIP ID** – specify the SIP ID assigned to this device;
- **SIP Name** – specify the SIP Name assigned to this device;
- **Password** – specify the SIP Password assigned to this device;
- Block incoming calls – does not allow this device to receive calls
- Block outgoing calls – does not allow this device to make calls

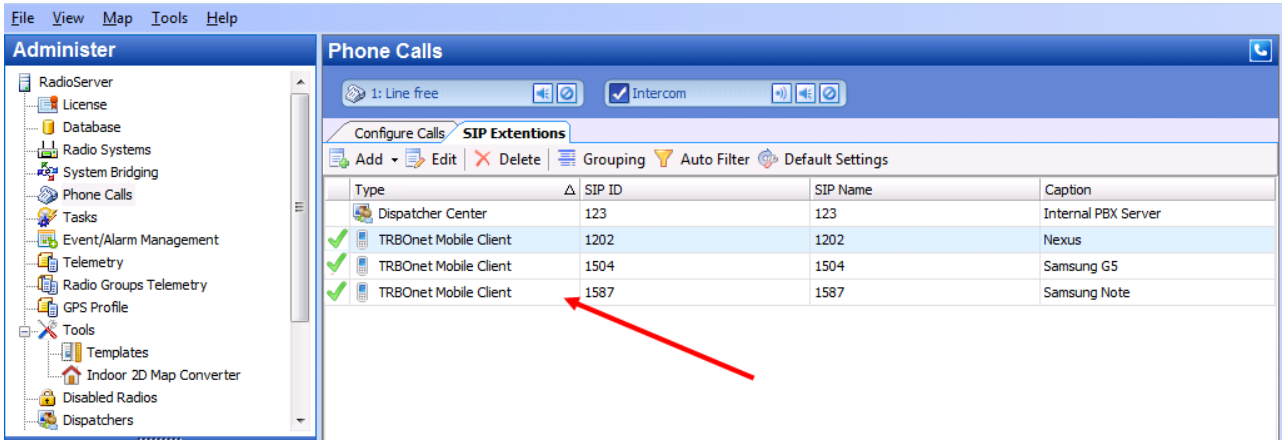
On the **Group** tab specify available logical groups for the new mobile device. On the **Additional** tab specify additional information on mobile device user (optionally).

Click **OK** to add the new mobile device.

5. Insert your credentials on the mobile device:



6. As soon as the mobile device user launches TRBOnet Mobile Client, it becomes active on the **SIP Extensions** tab:



User Interface (TBD)

