

# Hytera

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# Hytera RoIP

- User name - your ID
- Password - your BM's hotspot password

The screenshot shows the 'RoIP Settings' page in a web interface. The breadcrumb trail is 'Broadband > RoIP Settings > RoIP Settings'. The left sidebar contains a menu with 'RoIP Settings' selected. The main content area has a 'Settings' section with a checkbox, 'RoIP Network' radio buttons (On is selected), 'User Name' (2357109), 'Password' (Hotspot-Pass), and 'Protection Time for BB-to-NB Switch(s)' (1). Below this is a 'RoIP Server' section with an 'Add' button and a 'Delete' button.

- MNI - set what do you use in TMO configuration, most probably its 901 9999
- Server - core.tetrapack.online (domain name, not IP! that's strict)
- Port - use standard 3003

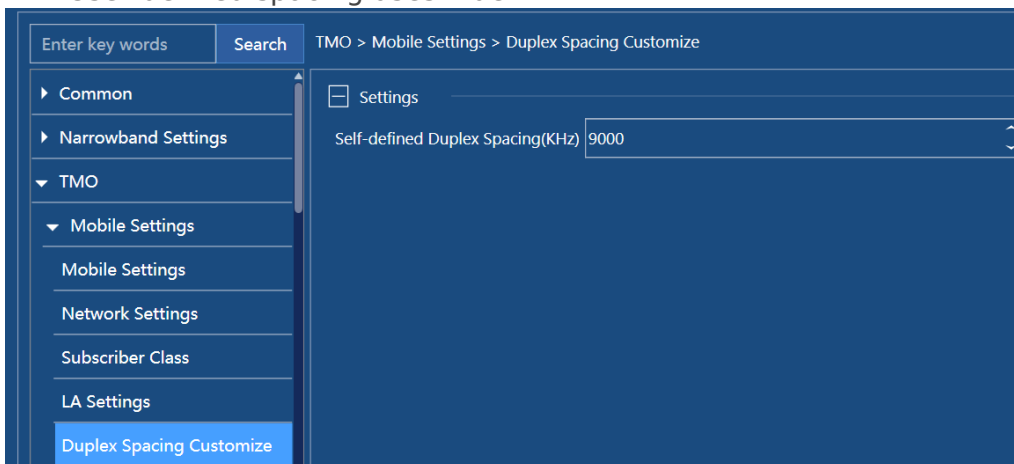
The screenshot shows the 'RoIP Settings' page with the 'RoIP Server' section expanded. It displays a table with one server entry. The table has columns: No., MCC, MNC, Server Address, and Server Port. The entry has No. 1, MCC 901, MNC 9999, Server Address core.tetrapack.online, and Server Port 3003. There are 'Add', 'Delete', and 'Empty' buttons above the table.

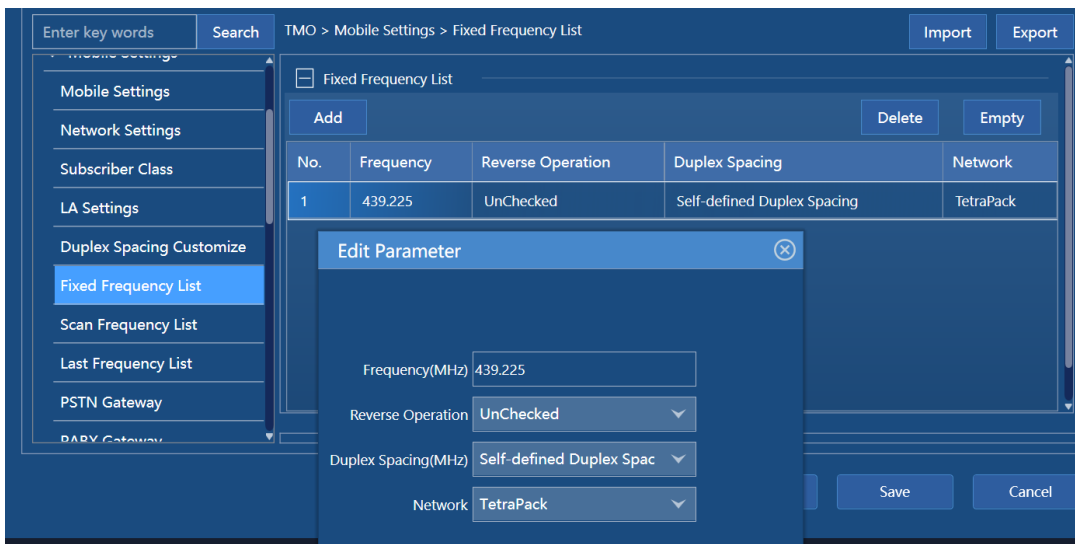
No.	MCC	MNC	Server Address	Server Port
1	901	9999	core.tetrapack.online	3003

# PTC760 and PTC680

## TETRA

1. It works on EBTS as well as on CTS.
2. Group calls, individual calls (duplex and simplex), scan-lists work well. Phone calls require to switch radio to full-duplex mode first (how they are going to make phone calls in half-duplex? ;)).
3. PD and SDS don't work at all. Since I have tested it on EBTS and CTS, it's FW bug (3.5, from the factory). I was checking with adb and it seems there is a kind of mismatch between NB and Android parts of device. At least in case of PD phase of PDP attach finishes well, CHAP works correctly, the problem comes on the latest part of attach on the radio.
4. It has some specific with spacing configuration. Standard spacings 0-4 are hardcoded in FW. User-defined spacing uses index 7.



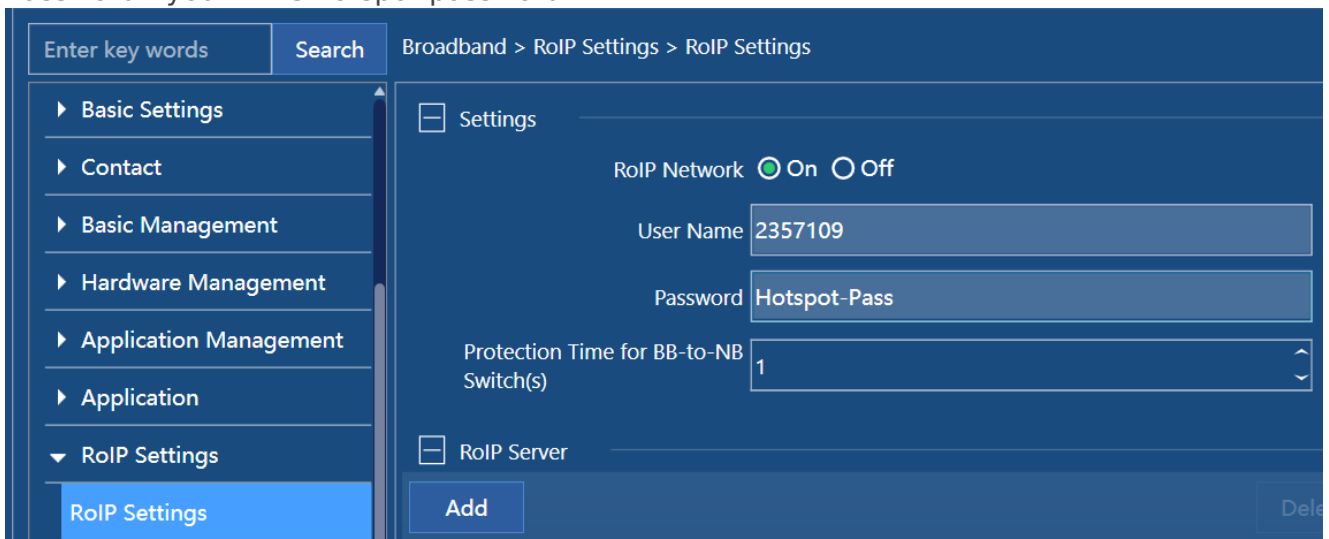


So if your EBTS/MBTS/MTS uses 7.6 spacing at index 7 there is no problem. But in case of CTS there is a difficult. CTS allows only to configure spacing to indexes 0-4 or so. So since i use CTS as a „hotspot“ with dummy load I decided to switch spacing to index 3 and 8 MHz by moving lower frequency down a bit. Most of CTSs use index 1 with 7.6 to fit to allocation with keeping limitations in mind.

## RoIP

Tested on A7 3.5 and A10 4.5 firmwares.

- User name - your ID
- Password - your BM's hotspot password



- MNI - set what do you use in TMO configuration, most probably its 901 9999
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Enter key words

Search

Broadband > RoIP Settings > RoIP Settings

ImportExport

Basic Settings

Contact

Basic Management

Hardware Management

Application Management

Application

RoIP Settings

RoIP Settings

Protection Time for BB-to-NB Switch(s)

1

☐ RoIP Server

Add

Delete

Empty

No.	MCC	MNC	Server Address	Server Port
1	901	9999	core.tetrapack.online	3003

## Location / APRS

APRS location information is accepted from the PTC760 via RoIP and RF, configured in the same way as the Dimetra APRS Settings.

The PTC760 also allows you to specify a LIP Location for both TMO/RoIP and DMO separately, meaning your APRS should work between TetraPack and the HAM-TETRA networks seamlessly.

## General Location Service Settings

Common > Location Service > Location Service

ImportExport

☐ General Settings

Positioning Permission

Allow

Location Service

☒ On ☐ Off

Positioning System

GPS

Location Mode

High Accuracy

Stabilization Time(s)

0

Display Unit

ddd.mm.ss

Speed Unit

Mile/h

Power Save

☐ On ☒ Off

Data Protocol

LIP

Map Type

Google Map

Stop Reporting Invalid Position Info

☐ On ☒ Off

☐ LIP Settings

LIP Report Type

Long Report 1

## Example Triggers

Trigger Condition

Trigger ☒ On ☐ Off

Distance Trigger ☒ On ☐ Off

Maximum Reporting Distance 100 m

Interval Trigger ☒ On ☐ Off

Reporting Interval 5min

TMO Emergency Trigger ☒ On ☐ Off

Power On Trigger ☒ On ☐ Off

Power Off Trigger ☒ On ☐ Off

Minimum Reporting Interval 10s

Location Loss Trigger ☐ On ☒ Off

Location Regain Trigger ☒ On ☐ Off

Minimum Detection Interval 10 sec

DMO Status Msg Trigger ☐ On ☒ Off

TMO Status Msg Trigger ☒ On ☐ Off

DMO to TMO Trigger ☒ On ☐ Off

TMO to DMO Trigger ☒ On ☐ Off

## Control Centers (Destinations)

Common > Location Service > Control Center ISSI

ImportExport

TMO Control Center ISSI

MNI ☒ On ☐ Off

Destination Address 200999

Control Center ISSI 1 200999

Control Center ISSI 2 0

Control Center ISSI 3 0

Control Center ISSI 4 0

Control Center ISSI 5 0

Control Center ISSI 6 0

Control Center ISSI 7 0

Control Center ISSI 8 0

Control Center ISSI 9 0

Control Center ISSI 10 0

DMO Control Center ISSI

Destination Address 9999

Control Center ISSI 1 9999

**Remember that on TetraPack there is only 1x destination for Location Data, 200999**

What you have to know else:

We have call floor management but without late call entry. So when call will be preempted or overlapped the next one will come only when the it begins. Only Scan List are affected with this specific. In general the late call entry is supported by TetraPack inside each GSSI.

Scan lists and SDSs are supported.