





TRBOnet One User Guide

Version 6.2

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1 Introduction

This document is intended for end users of the TRBOnet One software.

1.1 About TRBOnet

TRBOnet is a suite of professional applications for MOTOTRBO digital two-way radio networks. TRBOnet manages voice and data communication paths across network endpoints. It provides a unified graphical dispatcher workbench interface for the entire range of workforce fleet management tasks.

For more information about TRBOnet products, refer to our website.

1.2 Contacts

Region	Phone	Email & Support
EMEA	+44 203 608 0598	<u>info@trbonet.com</u> — general and commercial inquiries
Americas	+1 872 222 8726	<u>support@trbonet.com</u> — technical support
АРАС	+61 28 607 8325	<u>http://trbonet.com/kb/</u> — online knowledge base



2 About TRBOnet One

TRBOnet One is a PC-based voice dispatch and data application for MOTOTRBO professional digital two-way radio systems. This application is a new generation of TRBOnet dispatch consoles that brings new features and capabilities.

2.1 Features

- Flexible Graphical User Interface
- Voice Dispatch
- Voice Recording
- Location Tracking
- Indoor Location, support for 3D Floor Plans
- Chats and File Transfer
- Visual Alerts and Notifications
- Online Video
- SCADA Support
- Telemetry Dashboard, support for MODBUS

2.2 Prerequisites

• TRBOnet Server and Dispatch Console must be installed and configured. See TRBOnet Enterprise/PLUS User Manual, section 4.3 Installing TRBOnet Enterprise/PLUS.

2.3 Hardware and Software Requirements

CPU	Intel Core i5
Memory	4 GB
HDD	2 GB for installation files
Sound Card	Yes
Display	640x480 minimum resolution, 1920x1080 and higher resolution is recommended
Additional Devices	Speakers and microphone, or headset; Imtradex devices are recommended
Supported OS	Windows 10/11
Software	.NET Framework 4.8



3 Connecting to Server

Launch TRBOnet One using the desktop or Start menu shortcut.

6.0.0.5652	ADVANCED VIEW - X				
TRBOnet Connection Manager					
Connect To					
Server:	Server 1 \vee				
Port:	4021				
Authentification					
Type:	TRBOnet Authentication \sim				
User Name:	admin				
Password:	••••				
Connect With					
Console:	🍯 One 🗸 🗸				
Remember Password:					
Connect on Startup:					
	Connect Exit				

Connect To

• Server

Enter the IP address of TRBOnet Server. Or, from the drop-down list, select the previously defined connection profile (see section <u>3.1, Creating</u> <u>Connection Profile</u>).

• Port

Enter the local port of the TRBOnet Server PC.

Authentication

• Type

From the drop-down list, select the Authentication type:

TRBOnet Authentication

Select this method to log on as a user registered in the TRBOnet Dispatch Console users list.

Windows Authentication

Select this method to log on using the PC name. The system automatically shows the PC name as a user name.

Note: The Windows user must be registered in the TRBOnet Dispatch Console users list.

• User Name

Enter the user name registered in the TRBOnet Dispatch Console users list.

• Password

Enter the user password.

For the default Admin credentials (**User Name** and **Password**), consult our support team.



Note: For security reasons, we strongly recommend that you change the password for the administrator immediately after the first login.

Connect With

• Console

From the drop-down list, select **One**. If you select **Enterprise**, then TRBOnet Dispatch Console will be launched.

• Remember Password

Select this option if you want your password to be securely stored on your PC so that you can automatically connect to TRBOnet Server.

• Connect on Startup

Select this option to launch the dispatch console without having to type the user name and password every time. Use this option if you regularly connect to the same TRBOnet Server and your workstation is in a secure location.

3.1 Creating Connection Profiles

• Click the **Advanced View** button at the top right of the TRBOnet Connection Manager dialog box.

		BASIC V	/IEW — ×
TRBOnet Servers		x (=) 0	E î 🗵
Name	Primary Server	Redundant Servers	Console
Server 1	127.0.0.1:4021	\checkmark	1
Server 2	10.10.102.65:4021	\checkmark	1
Server 4	mobile.trbonet.com:50100		1
Server 5	ports.trbonet.com:28200		1

• To add a connection profile, click the plus sign button at the top of the dialog box.

As a result, the **Add Server Connection** dialog box opens.



6.0.0.5652			- ×
Add Server Connection			
Connection Name: Type: User Name: Password: Configuration Folder:	Server 6 TRBOnet Authentication admin ••••• Default folder Path		~ ~
Servers List		Ð	± ~ ∧
IP Address or Host Name		Port	Status
127.0.0.1		4021	
10.10.202.101		4021	
TRBOnet One V		ок	Cancel

- Enter desired profile parameters and populate the list of servers.
- To add a server to the Servers List, click the plus sign button at the right. Enter the **IP Address** and **Port** of the server. You can also uncheck a server in the list, so it won't be used until checked again.
 - Note: The first checked server in the list will be used as the primary server, whereas the others will be used as redundant servers in their respective order.



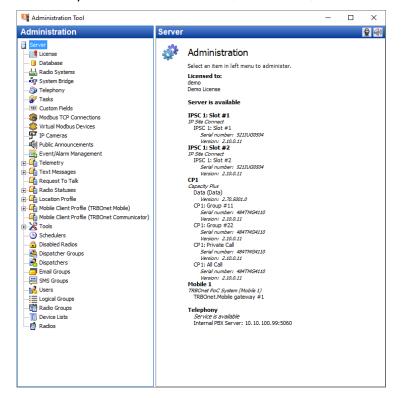
4 Administration Tool

A user that has administrative privileges can run the Administration Tool that will allow them to completely configure the radio system.

- Click the 🗏 button in the upper-left corner of the main window.
- On the slide-out menu, click Administration.



For more information on how to use the Administration Tool, see *TRBOnet Enterprise/PLUS User Manual, section 6.4, Administration*.





5 Console Settings

- Click the button in the upper-left corner of the main window.
- On the slide-out menu, click **Console Settings**.



In the Console Settings window, specify the following parameters:

5.1 General

• Click the **General** tab in the left pane.

Console Settings			-		×
=	GENERAL				
🔅 General	Language:	English			
🎵 Audio Settings	Dispatch				
네바 Custom PTT Boxes	Enable sticky PTT				
🗞 External PTT Devices	Show audio waveforms				
Console Sounds					
📞 Phone Lines	Cross Mute				
Maps	Mute other dispatchers				
H Quick Commands	Mute radio-to-radio calls				
T Filters	Hardware Devices				
Q IP Cameras	Barcode scanner	USB Device \vee			
SCADA					
			Clos	se	

• Language

From the drop-down list, select the interface language for TRBOnet One.

Dispatch

• Enable sticky PTT

Select this option to start and finish voice calls by a short press of the PTT rather than holding the PTT down until the end of a voice call.

• Show audio waveforms

Select this option to display an audio wave indicator in the PTT box when there is voice activity.

Cross Mute

• Mute other dispatchers

Select this option to mute all other dispatchers.



• Mute radio-to-radio calls Select this option to mute calls from radio to radio.

Hardware Devices

• **Barcode scanner** From the drop-down list, select the required device (**1900**).

5.2 Audio Settings

In the **Audio Settings** tab, the administrator can edit audio profiles.

- Click the **Audio Settings** tab (1) in the left pane.
- In the **Audio Settings** pane, select the required audio profile (such as, Default, Selected, etc.), and click the pencil button (2).

Console Settings					
=	AUDIO SETTINGS				H 🖉 🗊
🔅 General	Type Default		Name		1
🎵 Audio Settings	Selected	Edit Audio Settings Pr	rofile	□ ×	
네바 Custom PTT Boxes	Telephony TelephonyTones		Specify special audio settings	V	2
External PTT Devices		Name:	Selected		
Console Sounds		Description:	Selected		
📞 Phone Lines		Playback Device:	Default Audio Device	\sim	
Maps		Microphone:	Default Audio Device	\sim	
H Quick Commands		Channels:	Stereo	\sim	
T Filters		Volume:	•	_	
Q IP Cameras			0		
SCADA					-
			OK Car	ncel	
					Close
					Close

In the **Edit Audio Settings Profile** dialog box, specify the following parameters:

Name

Enter a name for the profile.

Description

Enter a brief description for the profile.

Playback Device

From the drop-down list, select the audio device to play incoming voice messages and playback voice recordings in the dispatch console.

Microphone

From the drop-down list, select the recording device the microphone is connected to.

Note: If TRBOnet One is running on the same PC with TRBOnet Server connected to control stations via programming cable and sound card, the playback and recording devices cannot be the same for TRBOnet One and TRBOnet Server.



Channels

From the drop-down list, select the channels on the playback device (Stereo, Left, or Right).

Volume

Move the slider to the right/left to increase/decrease the volume level.

5.3 Custom PTT Boxes

In the **Custom PTT Boxes** tab, you can add/edit custom PTT boxes that are associated with radio channels. You can then add a custom PTT box to the Radio Interface panel.

- In the left pane, click the **Custom PTT Boxes** tab (1).
- In the **Custom PTT Boxes** pane, click the plus sign button (2).

Console Settings		- 🗆 X
=	CUSTOM IN ELECTION Add Custom PTT Box	
🔅 General	Header	1 T
Audio Settings	PTT Box_12 PTT Box_2 New PTT Box	1444. Radio 241. Radio 230: Int
·····································	Channels:	
uniter Custom PTT Boxes	Channel Contacts	
🗞 External PTT Devices	All Call 🗸 All Call	2
Console Sounds	Intercom V Disp 1, Disp 2, Disp 3	
	Private Call Y Radio 125, Radio 235, 4444, Radio 240, Radio 230	
📞 Phone Lines	Туре	
Maps	1 Radio 125	
₩ Quick Commands	Radio 235	
	4444	
T Filters	Radio 240	
IP Cameras	Radio 230	
SCADA		
	Add Remove	
	3 OK Cancel	
		Close

• In the Add Custom PTT Box dialog box, specify the following settings:

Name

Enter a name for the custom PTT box.

- Click Add (3) to add a channel to the custom PTT box.
- Channel

Select the channel. This could be All Call, Private Call, Intercom, Dispatcher Group, Radio Group, or Slot.

Contacts

Select the radio(s)/radio group(s)/dispatcher(s)/dispatcher group(s) the selected channel will be associated with.

Note: Radios/radio groups/dispatchers/dispatcher groups must be registered in TRBOnet Dispatch Console.



5.4 External PTT Devices

In the **External PTT Devices** tab, you can configure various devices to be used as PTT devices, such as a footswitch, etc. Note that the connected external PTT buttons will be applied to selected PTT boxes.

- In the left pane, click the **External PTT Devices** tab (1).
- In the External PTT Devices pane, click the plus sign button (2).

Console Settings			- 🗆 X
≡	EXTERNAL PTT DEVICES		(II / 1
🤹 General	Type HID	Add Device 🗆 🗙	ſ
🎜 Audio Settings		Device Name: New Device	
네바 Custom PTT Boxes		Device Type: TRBOnet Microphone A ~	/
Schernal PTT Devices		Device: TRBOnet Mic Adapter V	2
Console Sounds	EXTERNAL PTT BUTTONS Button Name		+ / 1
🌜 Phone Lines	New PTT Button		\bigcirc
Maps 1			
H Quick Commands			
Tilters		OK Cancel	
IP Cameras			
SCADA			
			Close

- In the Add Device dialog box, specify the following settings:
 - Device Name

Enter a name for the device.

5.4.1 Adding Remote Microphone

The Motorola Remote Microphone is connected to the PC with the help of TRBOnet Swift Adapter M002.

- Connect the remote microphone to a USB-port of the PC by using the M002 adapter.
- From the **Device Type** drop-down list, select **TRBOnet Microphone Adapter**.
- Click OK.



Console Settings		- 🗆 X
	EXTERNAL PTT DEVICES	+ 🧷 🏛
🔅 General	Type Device Name	
🎜 Audio Settings	TRBOnet Microphone Adapter Remote Mic	
바비 Custom PTT Boxes		
🗞 External PTT Devices	EXTERNAL PTT BUTTONS Button Name	+ / 1
Console Sounds	✓ Hand Microphone PTT Button	J.
📞 Phone Lines	Hand Microphone Keypad Button 0	
Maps	Hand Microphone Keypad Button 1	\bigcirc
	Hand Microphone Keypad Button 2	
H Quick Commands	Hand Microphone Keypad Button 3	
T Filters	Hand Microphone Keypad Button 4	
O IP Cameras	Hand Microphone Keypad Button 5	
🛄 SCADA		Close

- In the External PTT Buttons pane, select the required buttons.
- To test a button, press the corresponding key on the remote microphone device and see if the indicator circle on the right becomes green. Release the key and see if the indicator box returns to blue.

5.4.2 Adding TIPRO Speakerbox

- Connect the speaker box to a USB-port of the PC.
- From the Device Type drop-down list, select Tipro.
- Click OK.
- In the **External PTT Buttons** pane, click the plus sign button.

Console Settings				
≡	EXTERNAL PTT DEVICES			+ 🧷 🛱
🔅 General	Type Tipro		Device Name New Device	
Audio Settings		Add External PTT Button	□ ×	
·비나 Custom PTT Boxes	EXTERNAL PTT BUTTONS	Name: Bu	itton 1	
Science PTT Devices	Button Name	Source: Pho	one v	Ĩ
Console Sounds		Key Num: 35		
📞 Phone Lines				'
Maps		Autodetect	•	
H Quick Commands		· '		
T Filters				
Q IP Cameras		ОК	Cancel	
SCADA				Close

- In the dialog box that opens click the **Autodetect** link.
- Press the key on the box you want to use as the PTT button and see how the dialog fields get populated.
- Click OK.

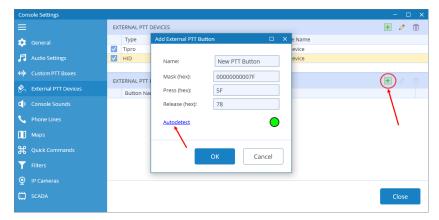
5.4.3 Adding TRBOnet Swift Footswitch

TRBOnet Swift Footswitch P001 is a device that can be used for hands-free PTT operation. The footswitch can be supplied with either the RS-232, RJ-45 or USB connector. To connect the footswitch with the RJ-45 connector to the PC via a USB port, use the additional TRBOnet Swift Adapter M002.



5.4.3.1 Adding TRBOnet Swift Footswitch connected to USB port

- Connect the footswitch to a USB-port of the PC either directly or by using the M002 adapter.
- From the **Device Type** drop-down list, select **HID**.
- From the **Device** drop-down list, select **TRBOnet Footswitch USB**.
- Click **OK**.



- In the **External PTT Buttons** pane, click the plus sign button and then **Add button**.
- In the dialog box that opens click the **Autodetect** link.
- Press the footswitch button and see how the dialog fields get populated.
- Click OK.

5.4.3.2 Adding TRBOnet Swift Footswitch connected to COM port

- Connect the footswitch to the PC via a COM-port.
- From the **Device Type** drop-down list, select **COM Port**.

Add Device		□×
Device Name: Device Type: Device:	DTR (4)	× * * * * * * * * * * * * *
	ОК	Cancel

- From the Select Port drop-down list, select COM3.
- Select **DTS (4)** checkbox.
- Click OK.



• In the **External PTT Buttons** pane, click the plus sign button and then **Add button**.

Add External PTT Button	ו [) X
Name:	Footswitch PTT Butto	on
Select target pin:	CD (1)	\sim
Specify active PTT	High	~
C	DK Cance	

• In the dialog box that opens, click **OK**.

5.5 Console Sounds

• Click the **Console Sounds** tab in the left pane.

Console Settings								- 🗆 🗙
≡	c	DNSOLE SOUNDS						0:04
🔅 General		Event	Audio File	Play Sound	Every, s	Repeat	Number Of Repeats	Audio Profile
	\checkmark	Incoming Request To Talk	Default	Repeat \sim	1 🗘	This Many Times $$	2 🗘	Default Settings \lor
🎵 Audio Settings	\checkmark	Incoming Text Message	Default	Once \checkmark	No	No	No	Default Settings ~
네 Custom PTT Boxes		Incoming Alarm / Emergency Call	Alarm.wav 🗸 🗸 🗸	Repeat \sim	1 🗘	Until Processed 🗸	Unlimited	Default Settings 🗸 🗸
🗞 External PTT Devices	\checkmark	PTT Press	Default	Once \lor	No	No	No	Default Settings \sim
Console Sounds	\checkmark	PTT Release	Default	Once \lor	No	No	No	Default Settings \lor
Phone Lines Maps								
Quick Commands Filters								
Q IP Cameras								
🛄 SCADA								
								Close

- In the **Console Sounds** pane, specify the following parameters:
 - Selected checkbox on the left of the event name means that the selected audio file will be played for the event.
 - Audio File

From the drop-down list, select the desired .wav file.

Type

From the drop-down list, select either **Once** or **Repeat**.

If you have selected **Repetitive**, enter the following parameters:

Every

Enter time interval, in seconds, between playing the wav file.

Repeat

From the list, select either **This Many Times** or **Until Processed**. If you have selected **This Many Times**, enter the following parameter:



• Number Of Repeats Enter the number of times the .wav file will be played.

Audio Profile

From the drop-down list, select the audio profile (playback device, etc.) that will be used for the event. For the list of available audio profiles, see section <u>5.2</u>, <u>Audio Settings</u>.

5.6 Phone Lines

In the **Phone Lines** tab, the administrator can add/edit telephone lines that will be available for telephone calls.

- In the left pane, click the **Phone Lines** tab (1).
- In the **Phone Lines** pane, click the plus sign button (2).

Console Settings					- 🗆 X
≡	PHONE LI	INES			(+) / î
🔅 General	ID		ption	_	Ť
	1	Add Phone Line		×	
	2			_	
바바 Custom PTT Boxes	3	Short Name:	L4		
S External PTT Devices		Caption:	Line 4		2
🔹 Console Sounds		Line Mode:	Any calls 🗸		
📞 Phone Lines		Allow Incoming Calls from:	Any numbers		
Maps		Allow Incoming Calls to:	Any numbers		
H Quick Commands		Allow Outgoing Calls to:	Any numbers		
T Filters			You can use wildcard chars in pattern: * - any number of characters		
Q IP Cameras			? - one character xxx-yyy - range of numbers from xxx to yyy		
🛄 SCADA				-	
			OK Cancel		
	Ļ				Close

In the Add Phone Line dialog box, specify the following parameters:

Short Name

Enter a short name for the phone line.

Caption

Enter a caption for the phone line.

Line Mode

From the drop-down list, select how to use the telephone line (for incoming calls, for outgoing calls, or for any calls).

Allow Incoming Calls from

Enter the phone number or the range of phone numbers from which incoming calls will be allowed.

Allow Incoming Calls to

Enter the phone number or the range of phone numbers to which incoming calls will be allowed.

Allow Outgoing Calls to

Enter the phone number or the range of phone numbers to which outgoing calls will be allowed.



5.7 Maps

In the **Map** tab, you can select the map to display in the Map panel.

- In the left pane, click the **Maps** tab (1).
- In the **Maps** pane, click the plus sign button (2).

Console Settings		- 🗆 X
	Maps	
	Name Map Type Description	
	Default1	×
	General Map Settings Radios and Groups	2
	Name: New View	
	Description:	
	Cache folder: C:\Users\v.kulinichev\AppData\Local\Microsoft\Windows\INetCache	
🕅 Maps	Update mode: Scheduled \lor every 30 days	*
	Map type: MAPNIK ~	1
	Cache status >>	
	ОК Сапсе]
		Close
	OK	Close

In the **Add map** window that opens, enter the following information:

Name

Enter a name for the map.

Description

Enter a description for the map.

Cache folder

Click the ellipsis (...) button and locate the folder on the PC where you want to store map data.

Update mode

Select the mode for updating the map tiles stored in the specified Cache folder ('Don't update', 'Forced update', or 'Scheduled').

• Мар Туре

From the drop-down list, select the map type.

Key

Enter the API key for the selected map type.

Note: To obtain the API key, click the **Apikey info** link below and follow the instructions.



5.7.1 Object Filter

• Click the Map Settings tab.

Canada	Man Cattions	Radios and Groups					
General	Map settings	Radios and Groups					
~	Cluster map	objects		Dista	nce units:		
~	Show object	labels		Kilo	meters ~		
~	Hide overlap	oping labels		Coor	dinates of the mouse position:		
~	Use pin icon	s		Lov	ver right corner 🛛 🗸 🗸		
Icon	size:			\checkmark	Show number of tiles to download		
32			\sim	\checkmark	Show zoom level		
	Show GNSS a	accuracy		Indo	or maps		
~	Show scale			~	High resolution indoor maps		
~	Show naviga	tion controls		\checkmark	Show outdoor map		
\checkmark	Show equate	or and prime meridian					
	Show outer b	borders					
					ок	ancel	

• In this tab, you can select what to show on the map by selecting the appropriate checkboxes.

5.7.2 Radio Filter

• Click the Radios and Groups tab.

		Radios and Groups	ар		
		idio groups on the m	ap		
		idio groups on the m	ap		
_	Name:				
_				Description:	
	11				
	22				
	30				
	Firaman				
Hide th	he selected lo	gical groups on the n	nap		
	Name:			Description:	
	Cleaners				
	Security				
	Cleaners 1			Cleaning in Department 1	
	Classore 2			Classing in Department 2	
Hide ra	adios located	in the selected regio	ns		
	Name:			Description:	
	reg 1				
	reg 2				
	ruler1				
	routo 1				

 In this tab, you can hide radios belonging to certain groups/logical groups/regions by selecting the appropriate checkboxes.



5.8 Quick Commands

In the **Quick Commands** tab, you can create and configure Quick Commands (Text Messages, Send Telemetry, Request Location, Send Voice Message, and some other commands). With these commands, the dispatcher can quickly send Text Message, Telemetry, Location Request, Voice Message, and some other commands to a radio by clicking the appropriate Quick Command button located in the Quick Commands Panel (see section <u>9.6.7, Quick Commands</u> <u>Panel</u>).

- In the left pane, click the **Quick Commands** tab (1).
- In the **Quick Commands** pane, click the plus sign button (2).

Console Settings		- 🗆 ×
	QUICK COMMANDS	
🤹 General	Name	Command
Audio Settings	S s Add Command	Send Text Message
	R Name: Send Text 1	Command: 🗐 Send Text Message
	Message:	Recipient: Radio Radio Group
Console Sounds	Report on what happened	Q Type here to Search
🌜 Phone Lines		🗹 🛞 Radio 125
🚺 Maps		🗹 🛞 Radio 235
H Quick Commands		
T Filters		🗌 🛞 Radio 240
IP Cameras		🗌 🛞 Radio 230
🛱 scada 🕺 1		🗌 🛞 Radio 27
		🗌 🛞 Radio 155
		🗌 🛞 Radio 16500000
		🗌 🛞 Radio 215
	23/1000	D Selected 2 Select All Unselect All
		OK Cancel
		Close
		Close

In the **Add Command** dialog box, specify the following parameters:

• Name

Enter a name for the command.

5.8.1 Send Text Message

• Command

From the drop-down list, select Send Text Message.

• Message

Enter the text of the message.

- Recipient
 - Radio

Choose this option to send a predefined text message to individual radios registered in the system. In the **Recipient** box, select target radios.

Radio Group

Choose this option to send the text message to radio groups registered in the system. In the **Recipient** box, select target groups.



5.8.2 Send Telemetry

• Command

From the drop-down list, select **Send Telemetry**.

• VIO

Specify a VIO to which to send a telemetry command.

• Command

From the drop-down list, select a telemetry command for the selected VIO.

- Recipient
 - Radio

Choose this option to send the telemetry command to individual radios registered in the system. In the **Recipient** box, select target radios.

Radio Group

Choose this option to send the telemetry command to radio groups registered in the system. In the **Recipient** box, select target groups.

5.8.3 Request Location

• Command

From the drop-down list, select **Request Location**.

• Recipient

Select radios to which to send a location request.

5.8.4 Send Voice Message

• Command

From the drop-down list, select **Send Voice Message**.

- Message
 - Load from File

Click this link and locate the audio file on your PC.

Record Message

Click this link to record a new voice message.

Convert Text to Speech

Click this link and on the drop-down panel, specify the following:

• Voice

From the drop-down list, select the voice for the message.

• Message

Enter the text of the message to be converted to speech.

• Play back message

Click this link to play back the voice message.



• Priority

From the drop-down list, select the priority with which the voice message will be sent/queued. If this priority is higher than that of the current transmission, which is, in turn, allowed to be interrupted, the current transmission will be interrupted and the voice message will be sent instead.

- Recipient
 - Click the plus sign button on the right and specify the Call Type, Channel, and Call Target for the voice message.

5.8.5 Send Signaling

• Command

From the drop-down list, select Send Signaling.

• Type

From the drop-down list, select the signaling system type (Quick Call I, Quick Call II, DTMF, or Custom).

If the **Custom** type is selected, specify the **Frequency 1**, **Frequency 2**, **Duration**, and **Pause** for the signal to be sent.

• Radio System

From the drop-down list, select the radio system.

• Target Group

From the drop-down list, select the target group to which the signal will be sent.

5.8.6 Send Command to Control Station

• Command

From the drop-down list, select **Send Command to Control Station**.

• Click the plus sign button to add a control station.

Control Station

From the drop-down list, select the Swift Agent connected to TRBOnet Server.

Command

From the drop-down list, select the PIN number and its value.

5.8.7 Request to Talk

• Command

From the drop-down list, select **Request to Talk**.

- Recipient
 - Radio

Choose this option to send the request to talk to individual radios registered in the system. In the **Recipient** box, select target radios.



Radio Group

Choose this option to send the request to talk to radio groups registered in the system. In the **Recipient** box, select target groups.

5.8.8 Custom Event

• Command

From the drop-down list, select **Custom Event**.

• Event ID Specify the event ID.

5.8.9 Send Swift Command

• Command

From the drop-down list, select **Send Swift Command**.

• Swift Command

From the drop-down list, select the appropriate Swift command.

Enter the required parameters, if any.

- Recipient
 - Radio

Choose this option to send the Swift command to individual radios registered in the system. In the **Recipient** box, select target radios.

Radio Group

Choose this option to send the Swift command to radio groups registered in the system. In the **Recipient** box, select target groups.

5.8.10 Send Push Notification

• Command

From the drop-down list, select **Send Push Notification**.

• Subject

Enter the subject of the notification.

• Message Severity

Choose the message severity (Information, Warning, or Alarm).

• Message

Enter the notification message to be displayed.

• Recipient

Radio

Choose this option to send the push notification to individual radios registered in the system. In the **Recipient** box, select target radios.

Radio Group

Choose this option to send the push notification to radio groups registered in the system. In the **Recipient** box, select target radio groups.



Dispatcher Group

Choose this option to send the push notification to dispatcher groups registered in the system. In the **Recipient** box, select target dispatcher groups.

5.9 Filters

In the **Filters** tab, the administrator can add filters that can be applied in the Activity Monitor panel.

- In the left pane, click the **Filters** tab (1).
- In the Filters pane, click the plus sign button (2).

Console Settings		- 🗆 🗙
=	FILTERS	🕞 🖉 💼
🤹 General	Name Filter 1 Add Filter X	
🎜 Audio Settings	Name: Filter 2	
네나 Custom PTT Boxes	Time Range: Events, Tasks:	
🗞 External PTT Devices	Last Hour V 📩 Group Call	2
🔹 Console Sounds	From:	
📞 Phone Lines	Caller Cal	
Maps	V Push Notification	
H Quick Commands	Cartion	
T Filters		
Q IP Cameras	Disp 1	
🖾 SCADA 🔪 1	Image: Spin 2 OK Cancel Image: Spin 2 Image:	
· · · · · · · · · · · · · · · · · · ·	Radios	,
	€ 2222	
	 3333 	Close
	 4444 	

Name

Enter a name for the filter.

Time Range

From the drop-down list, select the desired time range.

Caller

From the drop-down list, select the caller(s).

Destination

From the drop-down list, select the destination(s).

Events, Tasks

In the list below, select the desired call type(s) (Group Call, Private Call, etc.) and/or event type(s) (Push Notification, Text Message, Location Data).

5.10 IP Cameras

In the **IP Cameras** tab, the administrator can add cameras as well as modify existing ones.

Note: The cameras you are adding must support the RTSP streaming protocol.



To add a camera:

- In the left pane, click the **IP Cameras** tab (1).
- In the **IP Cameras** pane, click the plus sign button (2).

Console Settings					- 🗆 X
≡	IP CAMERAS				🛨 / 💼
🤹 General	Name		URI	Description	1
- Audio Settings	Camera 1 Camera 2	Add Camera		□ ×	
・ 小帅 Custom PTT Boxes		Camera Name:	Camera 3		
🔗 External PTT Devices		Description:	Disposal dump		2
Console Sounds					
📞 Phone Lines					
🚺 Maps		URL:	rtsp://10.10.101.193:554/playlist.m3u		
H Quick Commands		Protocol:	UDP 🗸		
T Filters		User Name:	admin		
IP Cameras		Password:	*****		
🖾 scada 🕺 1			ОК	Cancel	
		L			Close

In the Add Camera dialog box, specify the following parameters:

Camera Name

Enter a name for the camera.

Description

Enter a description for the camera.

URL

Enter the URL of the camera. Note the use of the **RTSP://** prefix and port number **554**.

Protocol

From the drop-down list, select **UDP**.

User Name

Enter the user name for the authentication, if needed.

Password

Enter the password for the authentication, if needed.

5.11 SCADA

In the **SCADA** tab, you can add/edit PLC devices and tags that can be associated with telemetry elements. Programmable Logic Controllers (PLCs) must be connected to TRBOnet Server via a Modbus TCP/IP connection.

For instructions on how to create a Modbus TCP/IP connection to TRBOnet Server, see section 6.4.7, Modbus TCP Connections in TRBOnet Enterprise User Manual.



5.11.1 PLC Device

Cons	sole Settings											- 🗆	×
		PLC		1	Tags:PLC 1					+ 0			<u>11</u>
٠		Name		State	Name	PLC	Regi	Туре	Table	State	Error	Value	Ra
F	Audio Settings	All Tags Custom Tags											
		PLC 1											
ф													
٩		PLC 1 Properties											
•		Caption:	PLC 1										
٩,		Description:											
		·	Main controller										
Ħ													
T		Slave ID:	1										
9		Mode:	Polling by intervals										
		Connections	+										
		Туре	Connection										
		Modbus TCP	V Modbus 2	\sim									
			OK Can	cel									
												Close	

• In the **PLC** pane, click the plus sign button to add a PLC device, or double click the corresponding line in the list to edit the existing device.

In the **PLC properties** pane, specify the following parameters:

Name

Enter a name for the PLC device.

- **Description** Enter a description for the PLC device.
- Slave ID

Enter the Slave ID of the PLC device.

Mode

From the drop-down list, select one of the polling modes.

Connections

Click the plus sign button to add a connection.

- **Type** From the drop-down list, select 'Modbus TCP'.
- Connection

From the drop-down list, select the appropriate Modbus TCP connection previously created in TRBOnet Dispatch Console.

5.11.2 Tags

- In the PLC pane, select All Tags
- In the **Tags** pane, click the plus sign button to add a new tag, or double click the corresponding line in the list to edit the existing tag.



Console Settings												-	
	PLC		+ / 1	Tags							Ð)/ 🗊	8
🤹 General	Name		State	Name	PLC	Register	Туре	Table	State	Error	Value	Raw Value	Enabled
	All Tags		True	FanError	NewPLC	2	Boolean	Discretel	~	/	False	0	-
🎵 Audio Settings	Custom Tags		True	FanState	NewPLC	0	Boolean	Coils	 Image: A second s		True	1	-
・ ・ ・ ・ Custom PTT Boxes	NewPLC		True		NewPLC	2	Boolean	Coils	 Image: A second s	/	False	0	-
				LightState		3	Boolean	Colic	~		False	0	-
🗞 External PTT Devices				FanRpm		0	Int16	InputReg	\checkmark		48	48	-
Console Sounds				FanError		1	Int16	InputReg			0	0	-
Console Sounds				LightValue		2	Int16	InputReg			108	108	-
📞 Phone Lines				TempVal		3	Int16	InputReg			21	21	
				HumValue		4	Int16	InputReg			23	23	
🚺 Maps				FanTime		5	UInt32	InputReg			67168256	67168256	
🖁 Quick Commands				FanPWM LightPWM		0	Int16 Int16	HoldingR			104 6	104 0	
				TempAla			Boolean	Discretel			False	0	
Y Filters				Temproa	NewFLC		Doolean	Discreteim			Table	0	
O IP Cameras	NewPLC Proper	ties											
SCADA	Caption:	NewPLC											
		INCOMPLEC											
	Description:												
	Slave ID:	1											
	Mode	None	~										
												C	lose

- In the **Tag Properties** pane, specify the desired tag parameters and click **OK**.
- Or, click the ^{so} button, and in the dialog box that opens specify parameters for a set of tags.

Importing a set of tags

- In the **Tags** pane, click the ¹/₄ button, and on the drop-down menu, choose **Import**.
- In the **Open** dialog box, navigate to the desired *.csv* file and click **Open**.

Exporting the current set of tags

- In the **Tags** pane, click the th button, and on the drop-down menu, choose **Export**.
- In the **Save As** dialog box, locate the folder on the PC where you wish to store the file with tags and click **Save**.



5.11.3 Custom Tags

- In the **PLC** pane, select **Custom Tags**.
- In the **Tags** pane, click the plus sign button.

Console Settings				=	=							- 🗆 🗙
≡	PLC	+ / 1	Tags Custom T	ags							+ 🧷 🗊	🔒 🖽
🔅 General	Name	State	Name	PLC	Register	Туре	Table	State	Error	Value	Raw Value	Enabled pr
	All Tags	True	FanErrorText			String		 Image: A second s		NO Errors	0	-
🎜 Audio Settings	Custom Tags	True	LightStateTxt			String		~		Dark	0	-
中国 Custom PTT Boxes	NewPLC	True	FanTimerTxt			String		 V 		8669 minu		
Science PTT Devices			FanRpm			Int32		~		1500	0	
Console Sounds												
🌜 Phone Lines			FanTimerTxt	t Properties								
🚺 Maps	Caption: FanTimerTxt Type: String				ring			\sim				
H Quick Commands			Course Contra						Marial			
T Filters		Source Code:					Variables: Tags Custom Tags					
Q IP Cameras		2 iff(FanTimerRaw.RawValue) == 0)										
SCADA	4 return "FAN STOP";				► P	PLC						
			Errors:									
			Test									
												Close

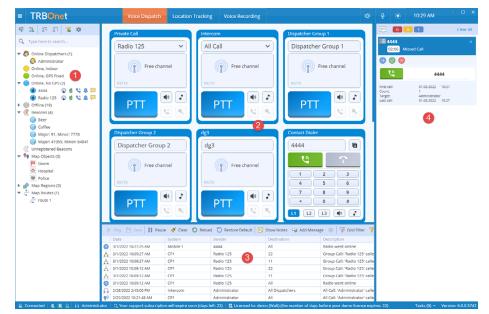
• In the **Tag Properties** pane, specify the desired tag parameters and click **OK**.



6 Voice Dispatch

When the TRBOnet One application is initially launched, the default main window will be displayed with the **Voice Dispatch** tab being active.

When the **Voice Dispatch** tab is selected, the dispatcher can make and receive radio and phone calls, monitor recent calls and events, etc.



The typical elements of the **Voice Dispatch** layout are as follows:

- 1. Radio List panel
- 2. Radio Interface panel
- 3. Activity Monitor panel
- 4. Notification panel

Switching from light to dark theme

To switch from the light theme to dark theme, click the **Change theme** icon on the right side of the title bar ().

6.1 Radio List

6.1.1 View Options

The toolbar in the upper part of the Radio List panel provides buttons to change the appearance of the list:



6.1.1.1 Displaying the List

Click the button, and from the drop-down list, select one of the following items:



Statuses

Select this item to display radios grouped according to their statuses.

List

Select this item to display a plain list of groups, radios, and other objects.

Logical Groups

Select this item to display radios grouped according to the logical groups they belong to.

Radio Groups

Select this item to display radios grouped according to the radio groups they belong to.

Users

Select this item to display only users registered in TRBOnet Dispatch Console.

6.1.1.2 Sorting Order

- Click the ¹ button, and from the drop-down list, select one of the following items:
 - By Name Select this item to display radios sorted by name.
 - By ID Select this item to display radios sorted by Radio ID.
 - By Status

Select this item to display radios sorted by status.



6.1.2 Quick Actions

- On the Radio List toolbar, click ⁽¹⁾, and in the **Quick Actions** dialog box, specify which quick buttons to display in the Radio List panel.
 - Switch between the Dispatcher, Radio, Radio Group, Logical Group, and Indoor tabs, and select the quick buttons to display for each of the Radio List entry types.

Quick Actions		×
=	RADIO	
	Request To Talk	
🖻 RADIO	💬 Send Message	
RADIO GROUP	Request Location	
	Check Presence	
LOGICAL GROUP	Remote Monitor	
	e Private Call	
	📞 Full-Duplex Call	
	Find on Map	
	A Show Route	
	🔂 Google Street View	
	🚳 Show Route on Google Earth	
	Set Device Location	
	Reset Location Trigger	
	Track Radio	
	Disable/Enable Radio	
	ок	Cancel

6.1.3 Radio List Filter

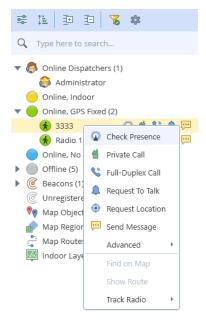
• On the Radio List toolbar, click ¹⁶, and on the drop-down menu select the checkboxes beside the appropriate objects.





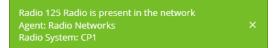
6.1.4 Radio Shortcut Menu

To open the radio's shortcut menu, right-click a radio in the Radio List:



Check Presence

Choose this menu item to send a Check Radio command. If the radio is online and is located in the coverage area, the dispatcher will see a popup message like this:



- **Private Call** Choose this menu item to initiate a private PTT call to the selected radio.
- **Phone Call/ Full-Duplex Call** Choose this menu item to initiate a phone call (full-duplex call) to the selected radio.
- Request to Talk

Choose this menu item to send a talk request to the selected radio.

• Request Location

Choose this menu item to request the location of the selected radio (for radios with GPS module only).

• Send Message

Choose this menu item to open a text chat with the selected radio.

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Text messages	- 🗆 ×
★ 4444	Ç
— Today —	Call missed: Disp 1 10:42 AM 🞸
hi, all done, over	Call missed: Disp 1 10:42 AM 🛷
11:40 AM	>

- Enter the text in the text box and click **Send**.
- To attach a file, click the paperclip icon, then locate the file you want to send, and click **Send**. You can also paste an image from the clipboard by pressing CTRL-V while in the text box.

Advanced > Remote Monitor (Open mic)

Choose this menu item to activate the radio microphone in hidden mode (remote monitor duration – 30 sec.)

• Advanced > Change Location Update Settings

Choose this menu item to customize the location trigger settings. When you reconnect to the Server or reassign a Location Profile to the radio, temporary settings will be updated to Location Profile settings.

Reset Location Trigger –	×
Reset Location Trigger	
 Reset location trigger Stop location trigger Start location trigger Change periodic interval 30 	
OK Cancel	

Restart/Turn off/Start location updates Choose which command to send to the radio.

- **Change periodic update interval** Select this option and specify the new location update interval.
- Advanced > Enable Radio Choose this menu item to enable the selected radio.

• Advanced > Disable Radio

Choose this menu item to disable the selected radio.

• Find on Map

Choose this menu item to display the selected radio in the center of the map.

• Show Route

Choose this menu item to display a route traveled by the selected radio for the specified time period.



For more details, see section 7.1.10, Show Route.

- Note: The **Find on Map** and **Show Route** commands are available only when the **Location Tracking** tab is selected in the application's title bar.
- **Track Radio** > **Set Location** > **Set Location** Choose this menu item to manually set the radio on the map.
- Track Radio > Set Location > Set by Coordinates Choose this menu item, and in the dialog box that appears, enter the desired coordinates.
- Track Radio > Google Street View
 Choose this menu item to open Google Street View with the latest location and direction of the selected radio.

• Clear Emergency Call

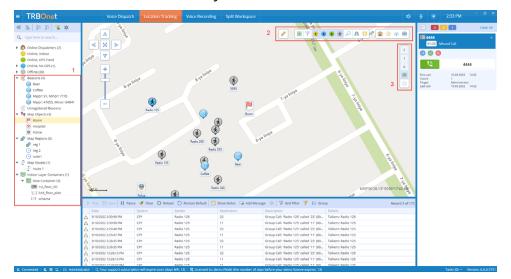
This menu item appears when the radio is in Alarm state.

- Choose this item to clear the Alarm state.
- Enter the note and click OK.



7 Location Tracking

When the **Location Tracking** tab is selected, the dispatcher can monitor selected radio location on supported maps. In addition, the dispatcher can view and edit the following objects (1): beacons, map objects, map regions, map routes, and indoor container layers.



7.1 Map Tools

The map toolbars are located at the upper-right corner (2) of the Map panel. In addition, you may see a separate toolbar (3) on the right side of the Map panel. The right-side toolbar (3) is associated with the indoor layer containers added to the map (see section <u>7.1.7</u>, <u>Add Building Indoor Plans</u>).

7.1.1 Bookmarks and Default View

To save a bookmark:

Click right on the upper-right toolbar, and on the drop-down menu click
 Save as Bookmark.

Bookmark		-		×
Name:	Prince Garden			
From:	N59°56'20.33" E030°17'05.78"			
To:	N59°57'32.83" E030°16'23.34"			
Zoom:	17			
Set as default				
	ОК	Can	cel	

• In the dialog box that opens, enter a name for the bookmark. To set the view as a default view, select the corresponding option. Click **OK**.

To open a bookmark:

• Click ightarrow on the upper-right toolbar, and select the bookmark in the list.



To save a bookmark as the default view:

Click ¹/₂ on the upper-right toolbar, and on the drop-down menu click
 Set default and then click the bookmark you want to set as the default view.

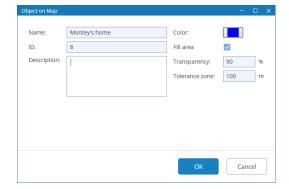
To open the default view:

7.1.2 Ruler

- On the upper toolbar, click
 to enable the tool to measure distances on the map.
- Left-click a point on the map to start measuring. Left-click intermediate points and see the distance displayed at the mouse pointer.

7.1.3 Create Route

- On the upper toolbar, click **H**, and in the drop-down menu under **Regions**, click **Route**.
- While in this mode, click successively on the map to create route waypoints.
- Once you have finished drawing the route, click **Complete** in the prompt popup.
- In the **Object on Map** dialog box, specify the following parameters:



• Enter a **Name**, **ID** and **Description** for the route.

Color

Select the color in which to display the route on the map.

Fill area

Select this checkbox to display a transparent edge around the route line. The edge width is specified by the value of the **Tolerance zone** parameter.

• Transparency

Specify the transparency, in percent, for the line edge.



• Tolerance zone

Specify the corridor width, in meters. If a radio will pass out of this tolerance zone, the dispatcher will receive an alarm signal.

7.1.4 Create Polygonal Region

- On the upper toolbar, click 🖃, and in the drop-down menu under **Regions**, click **Polygon**.
- While in this mode, left-click points on the map to create a new map region.
- Once you have finished drawing the region, click **Complete** in the prompt popup.
- In the **Object on Map** dialog box, specify a **Name**, **ID** and **Description** for the region. In addition, you can specify the following parameters:
 - Color

Select a color to display the region on the map.

Fill area

Select this checkbox to fill in the region area on the map.

Transparency

Specify the transparency level (in percent) for the fill color.

7.1.5 Create Circular Region

- On the upper toolbar, click 🖃, and in the drop-down menu under **Regions**, click **Circle**.
- While in this mode, left-click where you want to place the center of the circular region. Drag the right sizing handle to resize the region. Drag the center handle to change the center position.
- Once you have finished drawing the region, click **Complete** in the prompt popup.
- In the **Object on Map** dialog box, specify a **Name**, **ID** and **Description** for the region. In addition, you can specify the following parameters:
 - Color

Select a color to display the region on the map.

- Fill area Select this checkbox to fill in the region area on the map.
- Transparency

Specify the transparency level (in percent) for the fill color.

• If needed, change the **Radius** (in meters), **Latitude** and **Longitude**.

7.1.6 Create Beacon

The dispatcher can place beacons on the map.



- On the upper toolbar, click , and in the drop-down menu under **Special Objects**, click **Beacon**.
- While in this mode, click on the map where you want to place the beacon.
- Click **Complete** in the prompt popup.

In the **Beacon on Map** dialog box, specify the following parameters:

• Туре

From the drop-down list, select the beacon type (**iBeacon** or **K-Term**).

• Major ID and Minor ID

Enter the beacon's major and minor ID exactly as specified on the iBeacon device.

Name

Specify a name for the beacon.

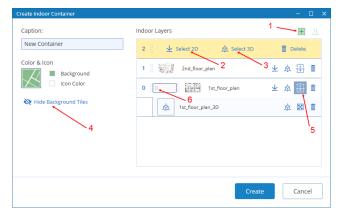
Description

Add a description for the beacon.

7.1.7 Add Building Indoor Plans

The dispatcher can add building indoor plans that will be displayed in the Map panel.

- On the upper toolbar, click **H**, and in the drop-down menu under **Special Objects**, click **Indoor**.
- While in this mode, drag a rectangle on the map where you want to place the building.
- Click **Complete** in the prompt popup.



In the **Create Indoor Container** window that opens, enter the following information:

Caption

Enter a name for the building.

To add a layer, click the plus sign button (1) and specify the 2D and 3D files by clicking Select 2D (2) and Select 3D (3), respectively. In the Open dialog box, locate the desired file(s) and click Open.



- As soon as you add a layer, you will see it displayed in the upper-left corner of the previously defined building area in the Map panel.
- Stretch and rotate the layer image to fit the underlying map. If desired, you can hide the background map by clicking **Hide Background Tiles** (4).
- To add a custom index to the layer, click the **Show/Hide Index** button (5) and in the in the text box that opens (6), enter the desired index number.

7.1.8 Create Map Object

The dispatcher can place POIs or custom objects on the map.

To place a POI on the map:

• On the upper toolbar, click **H**, and in the drop-down menu under **Points of Interest**, click one of the icons.

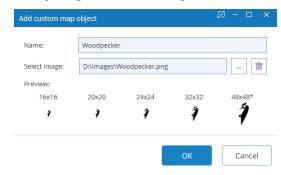


- Click on the map where you want to place the POI.
- Click **Complete** in the prompt popup.

In the **Object on Map** dialog box, specify a name and description for the object and click **OK**.

To add a custom map object:

• On the upper toolbar, click , and at the bottom of the drop-down menu, click **Custom Map Objects > Add Object**.



Name

Specify a name for the object.

Select image

Click the Browse button (...) and locate the image file you want to use as an icon for the object.

After you create a custom object, the corresponding icon will appear along with other predefined icons under **Custom Map Objects**.

• To delete a custom object, click **Delete Custom Object**.



7.1.9 Find on Map

The dispatcher can search for addresses as well as find radios on the map.

Note: For online maps, Internet access is required!

- On the upper toolbar, click \mathbb{P} .
 - On the drop-down menu, click **Address**.
 - In the **Search by Address** dialog box, type in the address and click the lens button on the right.
 - Click the address in the list below to display it on the map.
 - Or, on the drop-down menu, click **Radio**.
 - In the **Find Radio on Map** dialog box, select the radio to be displayed on the map.

7.1.10 Show Route

To show the route traveled by the radio(s) on the map:

- On the upper toolbar, click
 Or, right-click a radio in the Radio List and, on the drop-down menu choose Show Route.
- In the **Show Route** window, enter the following information:

. Choose radios which route to show	2. Define time inter	val	3.	Define display	options	
Q Type here to search	 Show last 		Ro	utes style: 5	how all $ \smallsetminus $	
Radio 125	48 hou	rs 🗸		Optimize R	oute (group all nea	rest points
Radio 235	 Custom interval 				error correction Km/h)	
4444	From:	To:	~	Show Even	ts (telemetry, alarn	ns, etc.)
Radio 240	01.01.2021 ¥	24.08.202	21 🖌	Show CanL	og events	
Radio 230	1 0 0	1 🗘 () (Generate play	/list	
Radio 27	N 🕨 N	۶ Time ا	period: 01-Ja	n-21 11:00 AM	- 24-Aug-21 11:00 /	AM
10010 155	 Radio	Color Date a	nd Time	Coordinates	Speed	Events
Radio 16500000	Radio 125	4/22/2	2021 4:59:	Сору	Radio 125	0
Radio 215	Radio 125	4/22/2	2021 5:00:	Сору	Radio 125	0
	 Radio 125	4/22/2	2021 5:00:	Сору	Radio 125	5
Radio 303	Radio 125	5/13/2	2021 11:48	Сору	Radio 125	0
Radio 555	Radio 125	5/13/2	2021 11:49	Сору	Radio 125	0
100000000	 Radio 125	5/13/2	2021 11:49	Сору	Radio 125	0

1. Choose radios which route to show

- In the list, select the radio(s) which route to show on the map.
- 2. Define time period
 - Show last

Choose this item and enter the time period, in hours or minutes, for which to show the route.

• Custom interval (From...To)

Choose this item and enter the start and end dates of the time period for which to show the route.



3. Define display options

- **Optimize Route (group all nearest points)** Select this option to group all points in a 100-meter radius.
- Max speed error correction Select the maximum possible speed for your vehicles.
- Show Events

Select this option to display TRBOnet server events (telemetry, alarms, and other events).

Show CanLog events

Select this option to display events that occurred in a vehicle (door opening, and other events).

- Click the **Generate playlist** button.
- Once the route is generated, the table below is populated with the route points, and the route is shown on the map. To play back the route on the map, click the **Play** button (>).

7.1.11 Select Map View

To select the view of the map to be displayed in the Map panel:

 On the upper toolbar, click ¹, and in the drop-down menu, select the map view you have previously defined in Console Settings. To edit a map view, click ² to the right of the profile name (see also section <u>5.7, Maps</u>).

7.1.12 Print Map

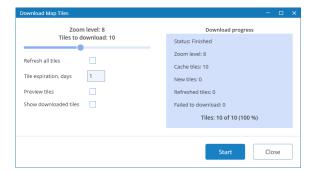
To print the map region currently displayed in the Map panel:

• Click 🖶 on the upper-right toolbar.

7.1.13 Download Map Tiles

To download the tiles of the map currently displayed in the Map panel:

• On the upper-right toolbar, click $\stackrel{ au}{=}$.



In the dialog box, specify the following parameters:



Zoom level

Move the slider from left to right to increase the detail level of the map.

- Refresh all tiles
 Select this option to refresh the map tiles before saving to your PC.
- Tile expiration, days

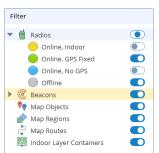
Enter the time the saved offline map will be stored before it is automatically updated.

- Preview tiles
 Select this option to show borders around the tiles to be downloaded.
- Show downloaded tiles
 Select this option to show how the tiles are being downloaded.
- Click Start and wait for the system to save the files. This may take several minutes.

7.1.14 Map Filter

The dispatcher can set the filter to display all or only specific radios and objects on the map.

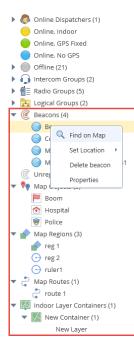
• On the upper toolbar, click ^w, and on the drop-down menu select the checkboxes beside the appropriate objects.



7.2 Objects List

Beacons, map objects, regions, routes, and indoor layer containers are represented at the bottom of the Radio List panel, grouped by their type.





If you right-click on an object in the list, a shortcut menu will appear with commands related to the object.



8 Voice Recording

On the **Voice Recording** tab, the dispatcher can display the list of calls according to certain criteria, listen to the calls and save them to file.

Voic	e Dispat	tch (Classic) Lo	cation Tracking (Class	iic) Voice Record		🛞 11:18 AM 👘 🗆
					FILTER BY DATE	
✓ Call Priority	~	Talkers 🔊	Logical Group 🛛 🗸	System 🗸	Predefined Values $\ ee$	Q FIND RECORDS
✓ Minimum Cal	Time	9900		🔿 Reset	Last 7 Days 🗸 🗸	
Default 🍸 🔚 Group		Q Type here to se	arch			Record 1 c
Call Time	Radio	▼		Caller	Target	Call State
00:00:04	CP1	😝 Administ	rator 💽	Radio 125	11	Success
00:00:04	CP1	Disp 1		Radio 125	22	Success
00:00:11	Mobile	Disp 2		4444	Radio 125	Missed
00:00:04	CP1	Disp 3		Radio 125	11	Success
00:00:04	CP1	▼ 📋 Radios		Radio 125	22	Success
00:00:07	CP1	(k) 2222		Radio 125	11	Success
00:00:06	CP1	(k) 3333		Radio 125	22	Success
00:00:03	CP1	(*) 4444		Radio 125	11	Success
00:00:03	CP1		GroupCall	Radio 125	22	Success
00:00:04	CP1		GroupCall	Radio 125	11	Success
00:00:04	CP1		GroupCall	Radio 125	22	Success
Action		Offset	Time		System	Unit
Call		00:00	00:00		CP1	11
Transmit		00:00	00:01		CP1	Radio 125
calli						
	✓ Call Priority ✓ Minimum Call Minimum Call Monocod 0000004 0000001 0000004 0000004 0000004 0000004 0000003 0000004 0000004 Coll Call Transmit	✓ Call Priority ✓	✓ Call Priority ✓ Talkers Ø ✓ Minimum Call Time Image: Im	✓ Call Priority ✓ Talkers © Logical Group ✓ ✓ Minimum Call Time □ <td□< td=""><td>✓ Call Priority ✓ Talkers © Logical Group System ✓ Minimum Call Time Image: System Image: System<</td><td>V Call Priority Talkers Copical Group System Predefined Values V Minimum Call Time Image: State St</td></td□<>	✓ Call Priority ✓ Talkers © Logical Group System ✓ Minimum Call Time Image: System Image: System<	V Call Priority Talkers Copical Group System Predefined Values V Minimum Call Time Image: State St

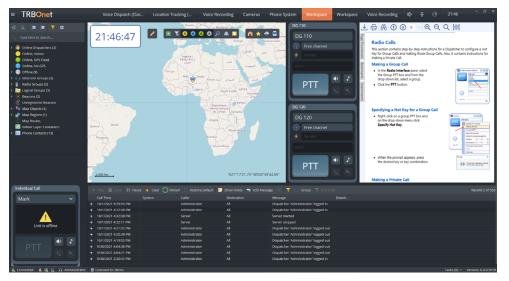
- In the **Filter by Objects** panel, click the desired field, and on the dropdown list select the desired value(s).
- Click Find Records.
- To play back a record, select it in the list and click the **Play** button on the toolbar.

• •	
00:04 / 00:02	
Administrator	
13.12.2017 11:41:14	



9 Custom Workspaces

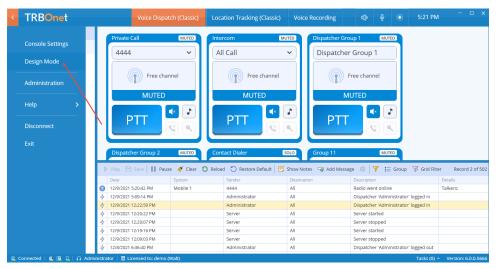
In TRBOnet One, you can create your own workspaces and modify the existing <u>Voice Dispatch</u> and <u>Location Tracking</u> layouts.



9.1 Creating a Custom Workspace

In the Design Mode you can populate your workspace with a variety of components related to your radio system.

- Click the button in the upper-left corner of the main window.
- On the slide-out menu, click **Design Mode**.



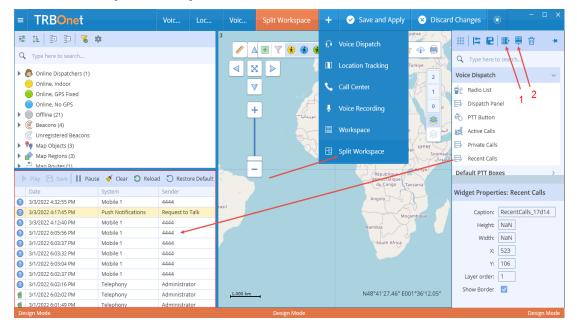
• Click the plus button to the right of the tabs, and on the drop-down menu, click **Workspace** or **Split Workspace**.



9.1.1 Split Workspace

To create a split layout, do the following:

• Click the plus button to the right of the tabs, and on the drop-down menu, click **Split Workspace**.



- Click the **Add column** (1) and **Add row** (2) buttons on the right pane toolbar to divide the workspace into panels.
- Drag an element from the right pane to the desired panel.

Note: The element will fit the size of the panel it is placed in.

9.1.2 Exiting Design Mode

To exit the design mode and save changes, click the **Save and Apply** button. To exit without saving changes, click the **Discard Changes** button.



9.2 Adding Voice Dispatch Elements

- In the right pane, pull down the **Voice Dispatch** menu.
- Select the required item and drag it to the left grid pane.

Note: The grid is shown over the workspace if the # button is pressed on the right pane toolbar.

	TRBOnet		Voice Dispa Lo	cation Tr Voice	Recor Workspace +	Save and Apply	😣 Discard Changes 🛞 👘 🗆 🔅
° ¢	1 De to search	*	PTT			РТТ	## #5 #5 #5 #6 # Q_ Type here to search * * *
	Online Dispatchers (1) Online, Indoor Online, Ro GPS Ked Online, Ro GPS (1) Online (2) Indecomparison (2) Indecomparison (2) Constant (2) Indecomparison (2) Map Regions (3) Map Regions (3) Map Regions (3) Map Regions (3) Map Coljects (1) Map Recons (1) Map Regions (2) Map Regions (2) Map Regions (2) Map Regions (3) Map Regions (3)	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	PTT C	Contact Diak		Ablie 1 rom: 444 se: Administrator	Voice Dispatch
	Play 📄 Save 🚺 Pau	se 🛷 Clear 🕤 Re	eload 💍 Restore Default	📑 Show Notes 🛛 🕞 Add	Message 🎕 🏏 🗄 Group 🖗	Grid Filter Record	d 7 of 537 Caption: XTreeControlWidget
	Date	System	Sender	Destination	Description	Details	Height: 500
1	12/28/2021 4:26:00 PM	Mobile 1	Administrator	4444	Private Call: 'Administrator' calle	ed '4	Width: 250
	12/28/2021 4:24:07 PM	Mobile 1	Administrator	4444 🖌	Private Call: 'Administrator' calle	ed '4	X: 10
2	12/28/2021 4:23:59 PM	Mobile 1	4444	All	Radio went online	Talkers:	Y: 10
5	12/28/2021 4:23:32 PM		Administrator	All	Dispatcher 'Administrator' logg		
3	12/28/2021 4:23:18 PM	Intercom	Administrator	Administrator	Private Call: 'Administrator' calle	ed 'A	Layer order: 1
	12/28/2020/4:23:04 PM		Administrator	All	Dispatcher 'Administrator' logge		Show Border 🗸

• In the **Widget Properties** panel, specify the required properties.

9.3 Adding PTT Boxes

- In the right pane, pull down one of the **PTT Boxes** menus (**Default**, **Custom**, or **Private**).
- Select the required PTT box and drag it to the left grid pane.

Radio 125	Widget Properties: Voice Dispatch
Radio 125	Caption: Radio 125
	Height: 310
Free channel	Width: 270
riee channel	X: 810
RX/TX	Y: 380
	Layer order: 1
	View Type: Standard Box $ \smallsetminus $
	Selection Border: 💽
	Box Click Action: Select Box \sim
	PTT Action: Transmit \checkmark
	Button 1: Mute \sim
	Button 2: Solo \checkmark
	Button 3: Interrupt Call $ \smallsetminus $
	Button 4: Encrypt Voice $ \smallsetminus $
	Mute: None 🗸

In the **Widget Properties** panel, specify the following PTT box properties:



Height/Width

These are the dimensions, in pixels, of the element.

X/Y

These are the screen coordinates of the upper-left corner of the element.

Layer order

Specify the order in which the element will be drawn.

View Type

Select the box type (small, medium, large, or custom).

Selection Border

Select this option to display a border around the box when it is selected.

Box Click Action

Select the action to happen when you click on the PTT box.

PTT Action

Select the action to happen when you click the PTT button.

Button #

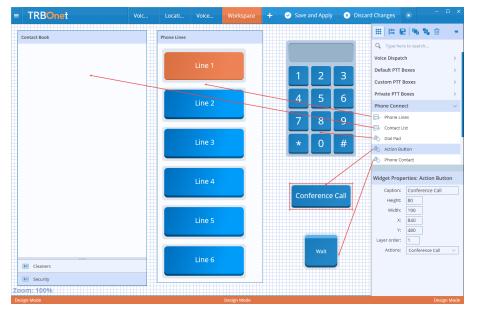
Select the action to happen when you click the appropriate button. These buttons are located around the PTT button.

Mute

Select the channels to be muted when there is voice activity in the box.

9.4 Adding Phone Connect Elements

- In the right pane, pull down the **Phone Connect** menu.
- Select the required item and drag it to the left grid pane.

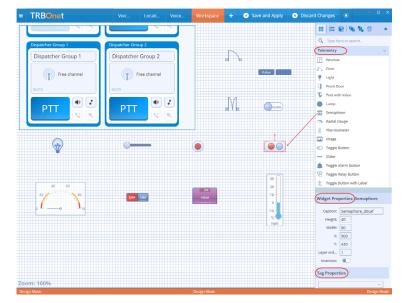


• In the **Widget Properties** panel, specify the required properties.



9.5 Adding Telemetry Elements

- In the right pane, pull down the **Telemetry** menu.
- Select the required item and drag it to the left grid pane.



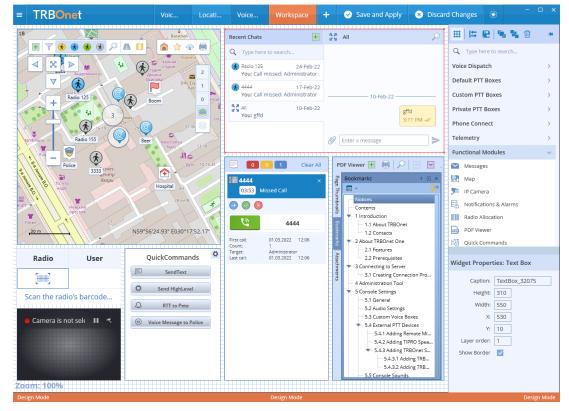
- In the **Widget Properties** panel, specify the desired widget parameters (name, height, width, minimum, maximum, etc.).
- In the **Tag Properties** panel, click the arrow on the right, and from the drop-down list select the appropriate tag.

Note: Telemetry tags must be previously created (see section <u>5.11.2, Tags</u>).



9.6 Adding Functional Modules

- In the right pane, pull down the **Functional Modules** menu.
- Select the required item and drag it to the left grid pane.

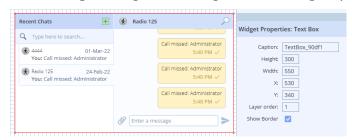


• In the Widget Properties panel, specify the required properties.

9.6.1 Chat panel

This panel will display text conversations with other TRBOnet users. From within this panel, you can send/receive text messages as well as attachments.

- In the right pane, pull down the **Functional Modules** menu.
- Select the **Messages** widget and drag it to the left grid pane.



In the **Widget Properties** panel, specify the following panel properties:

Caption

Enter the name of the panel.

Height/Width

These are the dimensions, in pixels, of the element.



• X/Y

These are the screen coordinates of the upper-left corner of the element.

Layer order

Specify the order in which the element will be drawn.

Once you have configured a **Text Chat** panel on your workspace, you will see a panel like this:

+ Y 🗄	孩 4444	\$ <i>P</i>
Q Type here to search		
R 125	Today	
102		Hello 4:25 PM 🛷
4444 4:28 PM You: Call missed: Administrator		U there gh 4:26 PM 🛷
	tbs 4:26 PM	
	Call misse	ed: Administrator 4:28 PM 🛷
	Enter a message	0>

In this panel, you can send/receive text messages as well as attachments. When a new text message arrives, you will hear a sound notification. To view an attached image, just click on it in the right pane.

9.6.2 Map panel

This panel will display the map on which the dispatcher can track location of radios. In addition, from within this panel, the dispatcher can view and edit the following objects: beacons, map objects, map regions, map routes, and indoor container layers. See also section <u>7.1, Map Tools</u>.

- In the right pane, pull down the Functional Modules menu.
- Select the **Map** widget and drag it to the left grid pane.



• In the **Widget Properties** panel, specify the desired properties.



9.6.3 IP Camera panel

This panel will display the live video from the connected IP camera. For how to add cameras, refer to section <u>5.10, IP Cameras</u>.

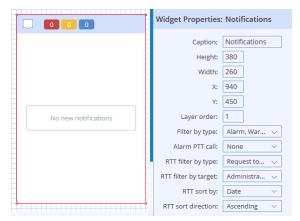
In the right pane, pull down the **Functional Modules** menu.

- Select the **IP Camera** widget and drag it to the left grid pane.
- In the Widget Properties panel, specify the desired properties.

9.6.4 Notifications and Alarms panel

This panel will display alarms, requests to talk and missed calls received from radios and dispatchers. From within this panel, you can answer, queue or redirect requests to talk or missed calls.

- In the right pane, pull down the Functional Modules menu.
- Select the **Notification and Alarms** widget and drag it to the left grid pane.



In the **Widget Properties** panel, specify the following panel properties:

Caption

Enter the name of the panel.

Height/Width

These are the dimensions, in pixels, of the element.

X/Y

These are the screen coordinates of the upper-left corner of the element.

Layer order

Specify the order in which the element will be drawn.

Filter by type

In the list, select one or all of the following items: Alarm, Warning, and/or RTT.

Alarm PTT call

From the drop-down list, select the call destination when the PTT button is pressed in the alarm panel.



• RTT filter by type

In the list, select how to filter RTT calls by the type (Request to talk, and or Missed call).

• RTT filter by target

In the list, select how to filter RTT calls by the target (All, Dispatchers, and/or Dispatcher Groups).

RTT sort by

From the list, select how to sort records in the panel.

RTT sort direction

From the list, select the sort direction, Ascending or Descending.

Once you have configured a **Notifications and Alarms** panel on your workspace, you will see incoming alarms, requests to talk, and/or missed calls in this panel.

When, for example, a request to talk arrives, this panel may look like this:

📃 🚺 🚺 🚺	Clear All
3333 00:00 Request To Talk	×
🕀 🕐 🔕 🕄	1

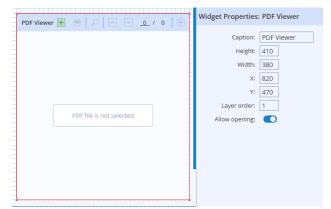
9.6.5 Radio Allocation panel

This panel is used to automate checking out/checking in (allocating/reallocating) radios using 'Honeywell Xenon 1900' barcode scanners. For how to appropriately configure the Radio Allocation module, see *TRBOnet Enterprise/PLUS Radio Allocation User Guide*.

9.6.6 **PDF** Viewer panel

The PDF Viewer panel allows you to open (if allowed) and view PDF files.

- In the right pane, pull down the **Functional Modules** menu.
- Select the **PDF Viewer** widget and drag it to the left grid pane.



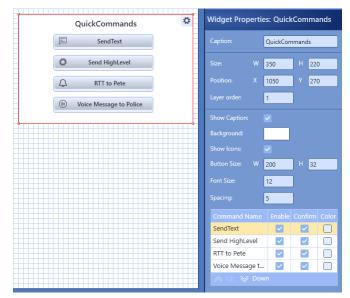
• In the Widget Properties panel, specify the desired properties.



9.6.7 Quick Commands Panel

This panel will display Quick Commands (Text Messages, Send Telemetry, Request Location, Send Voice Message, and some other commands) previously configured in Console Settings (see section <u>5.8</u>, <u>Quick Commands</u>). With these commands, the dispatcher can quickly send Text Message, Telemetry, Location Request, Voice Message, and some other commands to a radio by clicking the appropriate Quick Command button located in the Quick Commands Panel.

- In the right pane, pull down the **Functional Modules** menu.
- Select the **Quick Commands** widget and drag it to the left grid pane.



In the Widget Properties panel, specify the following panel properties:

Caption

Enter the name of the panel.

Size

These are the dimensions, in pixels, of the element.

Position

These are the screen coordinates of the upper-left corner of the element.

Layer order

Specify the order in which the element will be drawn.

Show Caption

Select this option so that the panel's cation will be shown.

Background

Click the box and select the background color for the panel.

Show Icons

Select this option so that the appropriate icons will be shown in the buttons.

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Button Size

These are the button dimensions, in pixels.

Font Size

Enter the font size for the button text.

Spacing

Enter the letter spacing for the button text.

- In the table below, specify the button parameters:
 - Enable

If selected, the button will be shown on the panel.

• Confirm

If selected, a confirmation dialog will appear when you click the button.

• Color

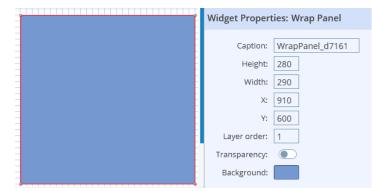
Click the box and select the background color of the button.



9.7 Adding Layout Design Elements

This section describes how to add Layout Design to your workspace. The Layout Design elements include Wrap Panel, Canvas, Rectangular Panel, Text Box, and Clock.

- In the right pane, pull down the **Layout Design** menu.
- Select the required item and drag it to the left grid pane.



In the **Widget Properties** panel, specify the following properties:

Name

Enter the name of the UI element.

Height/Width

These are the dimensions, in pixels, of the element.

• X/Y

These are the screen coordinates of the upper-left corner of the element.

Layer order

Specify the order in which the element will be drawn.

Transparency

Select 'Yes' to make the element transparent.

Background

Click and select the background color of the element. In addition, you can select a background image for the element.



9.8 Exporting/Importing Layout

This section describes how to export and import TRBOnet One layouts.

9.8.1 Exporting Layout

You can export the current layout to an *.xml file. To do this:

• While in the Design mode, click the ¹¹ button on the right pane toolbar, and on the drop-down menu click **Export layout**.



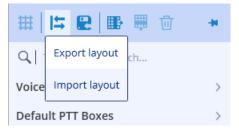
• In the **Save As** dialog box, locate the folder where you want to save the layout file (*.xml), type a filename, and click **Save**.

This file can later be used, for example, to import the required layout to TRBOnet One running on a different PC.

9.8.2 Importing Layout

You can import a previously exported layout to TRBOnet One. To do this:

• While in the Design mode, click the ¹¹ button on the right pane toolbar, and on the drop-down menu click **Import layout**.



• In the **Open** dialog box, locate the desired file (*.xml) and click **Open**. As a result, the imported layout will be used in TRBOnet One.