





# TRBONCE Enterprise/PLUS Radio Allocation User Guide Version 6.1

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# **1** Introduction

## 1.1 About This Guide

This document is intended for administrators setting up evaluation and proofof-concept deployments of MOTOTRBO Dispatch over IP solutions. The document describes how to use the Radio Allocation feature in the TRBOnet Enterprise software.

## 1.2 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 <u>website</u>.

## 1.3 Contacts

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# 2 Overview

The TRBOnet Radio Allocation feature is used to check out/check in (allocate/reallocate) radios to selected employees. This can be done either by the dispatcher in the Dispatch Console application, or by the radio user directly from the radio.

In addition, the Radio Allocation module can be used to automate checking out/checking in (allocating/reallocating) radios using 'Honeywell Xenon 1900' barcode scanners. The automatic check-in/check-out procedure is quite easy and fast. The user first scans the radio's barcode and then scans their own badge. If the user is authorized, they can check out/check in the radio.



# 3 Taking/Returning Radios by Dispatcher

This section describes how to allocate/reallocate (take/return) radios to users by the dispatcher in TRBOnet Dispatch Console.

## 3.1 Taking/Returning Radio

• Click the Radio Allocation tab (1):

File View Map Tools Help					
Radio Allocation	Radio Allocation				👲 🕪 💆
Gi 🗄 h 👶 🛠 7   # # -	🔉 1: Line free 💷 🕢	Intercom		🖌 All Call	
(*)         (*) <th>Group 10 0) 4: 0 Private Call 0) 4: 0</th> <th>Group 20</th> <th></th> <th>Group 30</th> <th><b>●</b>€⊘</th>	Group 10 0) 4: 0 Private Call 0) 4: 0	Group 20		Group 30	<b>●</b> €⊘
🏂 🔊 235 (Basil) 🚽	📑 Take/Return Radio 📑 Add Missing I				-
Voice Dispatch	Callsign         △         Taken by User           €         111            €         125         Pete	Group Vi Firemen, Police Firemen	ehide Make	Plate Number	Drivers
Location Tracking		Firemen, Police			
🚰 Job Ticketing	Radio 200     Radio 201	Al			
Route Management	Radio 202     Radio 203	Al			
RFID Tracker	Radio 204	All			
Text Messages	2	3			
👻 Voice Recording					
Reports					
Event Viewer					
🔞 Radio Allocation 🔶	1				
Administration	H4 44 4 Record 2 of 9 > >> >> +> +> +> 4				Þ
🔂 127.0.0.1 🚷 🕵 🙎 Administrator 📗	👤 Licensed to: demo Demo License				🕑 Active 🗸

• Select the radio in the list and click the **Take/Return Radio** button (2):

Take Radio	×
Radio:	125
User:	Pete
Password:	*****
	Take Radio Cancel

#### Radio

This box displays the selected radio.

User

From the drop-down list, select the user to allocate (check out) the radio to.

- Password
   Enter the password for the selected user.
- Click the **Take Radio** button to assign the radio to the selected user.
- Note: The radio is returned (checked in) by the dispatcher in a similar way.



# 4 Taking/Returning Radio by Radio User

This section describes how to appropriately configure the radio user in TRBOnet Dispatch Console so that a radio can be allocated/reallocated (taken/returned) by the radio user directly from the radio.

## 4.1 Configuring Radio User

• Go to Administration, Users to add/edit/delete users in the system.



- Click either Add to add a user to the system, or Edit to edit the selected user.
- Switch to the Management tab and specify the following parameters:
  - Disable radio on return

Select this option so that a radio will be disabled after the users returns it.

Allow DTMF management

Select this option to allow taking/returning radios by sending the specified DTMF tones.

• Take radio

Specify DTMF tones to be sent by the user to take a radio.

- **Return radio** Specify DTMF tones to be sent by the user to return a radio.
- Allow Text Messages management
   Select this option to allow taking/returning radios by sending specified text messages.



#### • Take radio

Specify the text of the message to be sent by the user to take a radio.

#### • Return radio

Specify the text of the message to be sent by the user to return a radio.

#### Allow Sign In / Sign Out management

Select this option to allow taking radios when the user signs in to a radio.

#### • Sign-in ID

Specify the password that the user enters to sign in when they take a radio.

#### Allow beacon management

Select this option and enter **Major ID** and **Minor ID** of the beacon that will be used for taking/returning radios. When a radio enters/leaves the range of the specified beacon, this radio will be considered taken/returned by the user.

Note: This functionality is available only if the radio is equipped with an option board.

#### Send notification to radio after it is taken/returned

Select this option so that a notification is sent to a radio every time the user takes/returns it.

#### Enable forced check-in

This option affects the Radio Allocation module. If enabled, the user will be able to return any radio, regardless of whether who has taken the radio.



# 5 Radio Allocation Module

This section describes how to configure the TRBOnet Dispatch Console and TRBOnet One applications so that the Radio Allocation module can be used to automate checking out/checking in (allocating/reallocating) radios using 'Honeywell Xenon 1900' barcode scanners.

## 5.1 Configuring TRBOnet Dispatch Console

This section describes how to appropriately configure the users and radios in TRBOnet Dispatch Console.

#### 5.1.1 Custom Fields

This section describes how to add a custom field of the Barcode type.

- stom Fields 🗄 Se 1: Line free ✓ Int 📑 License Gro Private Cal Al Cal IPSC 1: Slot # IPSC 1: Slot dbus TCP Conr tual Modbus De 🔜 Add 🌛 Edit 📑 Delete Custom Field Voice Dispatch Key Location Tracking 🙀 Job Ticketing 所 Route Management C Text Messages OK Cancel 🔮 Voice Recording Radio Allocation Administration He He A Record 1 of 6 + H+ HH 4 🔂 Connected 🍓 🔂 🔂 🙀 💁 🙎 Administrator 📑 Licensed to: demo Demo License Active
- Go to Administration (1), Custom Fields (2)

- Click the **Add** button (3).
- In the **Custom Field** dialog box, specify the parameters of the field, making sure that the Type value is **Barcode**.

### 5.1.2 Logical Groups

This section describes how to create logical groups. You must create at least one logical group that will be common to both the User and Radio so that the User will be able to check out that Radio.

• Go to Administration (1), Logical groups (2):



File View Map Tools Help						
Administration		Logical Groups				😫 🚳 🕒
Disabled Radios     Dispatcher Groups     Dispatchers     Dispatchers     SMS Groups     SMS Groups	>	Intercom     Intercom	I: Line free ✓ Group 20	• 0 • • 0	Al Cal	•) =: 0 •) =: 0
Users	*	Add S a Child Add as a Child Add as a Root Cleaning 1 Cleaning 2	2	Description	ent 1	
Location Tracking		Security		Groups for Security		
3 Job Ticketing		3				
💓 Route Management						
RFID Tracker						
C Text Messages						
🔮 Voice Recording						
Event Viewer						
Radio Allocation		1				
Administration	~					
🔂 127.0.0.1 🛞 🥵 💆 Administrator 📗	📑 Lio	censed to: demo Demo License				Active •

- Click **Add** (3) to add a logical group.
  - Select **Add as a Root** to add a logical group as a root folder.
  - Select **Add as a Child** to add a logical group as a child folder.

Group properties		×
Name:	Cleaners	
Description:	Cleaning in Department 1	
Extem ID:		
	OK Cancel	

- Specify a **Name** and **Description** for the logical group.
- Click **OK** to add the logical group.

#### 5.1.3 Users

This section describes to appropriately configure the user so that they can check out radios.

• Go to **Administration** (1), **Users** (2) to add/edit/delete users in the system:



File View Map Tools Help		
Administration	Users	🔮 🐠 🛂
Disabled Radios     Disabled Radios     Dispatcher Groups     Dispatchers     Dispatchers		
Voice Dispatch		
Location Tracking	3 4	
🙀 Job Ticketing		
😿 Route Management		
RFID Tracker		
Text Messages		
🔮 Voice Recording		
Event Viewer		
Radio Allocation	1	
Administration	H4 44 4 Record 1 of 2 ▶ ₩ ₩ 4	Þ
访 127.0.0.1 🛞 🍓 🙎 Administrator 📑 Lie	censed to: demo Demo License	🕑 Active -

- Click either **Add** (3) to add a user to the system, or **Edit** (4) to edit the selected user:
- In the dialog box that opens, go to the **Logical Groups** tab.

Add/Edit	Radio Us	ier			×
General	Radios	Management	SIP Account	Logical Groups	Custom Fields
Name			Description	1	
RBC			RBC		
~ 🗌 0	eaners				
	Cleaner		-	Department 1	
	Cleaner	rs 2	Cleaning in	Department 2	
~ 🗌 S	ecurity				
L	Securit			Department 1	
	Securit	y 2	Security in	Department 2	
Select All	Clear A	l			
				OK	Cancel

- Make sure that at least one logical group is selected.
  - Note: This logical group must be common with the radio's logical group so that the user will be able to check out that radio.
- Go to the **Custom Fields** tab.





General     Radios     Management     SIP Account     Logical Groups     Custom Fields       Name     Value     Value     Value     Value     Value       Description     Car make     Plate number     Value     Value       Phone     Email     Value     Value     Value		Radio Us	er			>
Name Description Car make Plate number Phone Email	General	Radios	Management	SIP Account	Logical Groups	Custom Fields
	Name	2		Value		
Carmake Plate number Phone Email	Name	2				
Plate number Phone Email						
Phone Email	-					
Email	-					
	-					
Barcode 7895				_		
	Barco	ode	(	7895		
0K Cancel					0/	Grand

• Make sure that the Barcode field is populated with a unique value identifying the user.

Note: Print this value as a barcode and keep as the user's badge.

#### 5.1.4 Radios

This section describes to appropriately configure the radio so that it can be checked out to users.

• Go to Administration (1), Radios (2).

dministration	Radios						ê 🗐 🕻
Sispatcher Groups	A Registered Unreg	pistered					
S Dispatchers	🜵 Add Group 📑	Add Digital Radio 📃	Add Range 📑 🗸	idd TRBOnet Mobile 📑	🖁 Add TRBO.SOS 📑 Add W	oC Radio 📑 Add	WAVE 5000 📑 Edit
🔄 Email Groups	Radio Name	Type	∆ Radio ID	MDC ID	User Extension/Login	Radio Groups	Logical Groups
- 🚝 SMS Groups - 💦 Users	🚯 Radio 235	Digital Radio	235	0		Cleaners	
E Logical Groups	🚯 Radio 125	Digital Radio	125	0		Cleaners	
- Radio Groups	(£) Radio 100	Digital Radio	100	0		Cleaners	
🚺 Device Lists 🛛 💋 2		TRBO.SOS	2222	0	2222		
👸 Radios 🖌	🚯 Radio 4444	TRBOnet Mobile	4444	0	4444		
>	Y 🚯 3333	TRBOnet Mobile	3333	0	3333		
		TRBOnet Mobile	5555	0	5555		
B Job Ticketing			3				
Text Messages							
Voice Recording							
Reports							
Event Viewer							

- Click **Add Digital Radio** (3) to add a new radio or double-click the selected radio.
- In the dialog box that opens, go to the **Logical Groups** tab.



Digital R	adio: Radio 12	5			×
General	Logical Groups	Additional	SIP Account	ameras	
Name			Description		
1 B C			RBC		
~ 🗌 c	leaners				
	Cleaners 1		Cleaning in D	epartment 1	
	Cleaners 2		Cleaning in D	epartment 2	
🗸 🗌 S	ecurity				
	Security 1		Security in D	epartment 1	
	Security 2		Security in D	epartment 2	
elect All	<u>Clear All</u>				

- Make sure that at least one logical group is selected.
  - Note: This logical group must be common with the user's logical group so that that user will be able to check out the radio.
- Go to the **Custom Fields** tab.

Digital Radio: Radio 125								
General   Logical Groups   Additional   SIP Account   Cameras								
Load Image	Max speed: Route Color:	0 🔶						
Name	Value							
Description	Turde.							
Car make								
Plate number								
S Phone								
🖂 Email	tester@gmail.com							
Barcode	(12345							
		OK Cancel						

 Make sure that the Barcode field is populated with a unique value identifying the radio.

Note: Print this value as a barcode and keep as the radio's barcode.



# 5.2 Connecting Barcode Scanner

This section describes how to connect and configure a barcode scanner.

• Connect the barcode scanner to a PC via the USB cable and see it displayed in the Device Manager as a "POS HID Barcode scanner".



Note: If you don't see the barcode scanner as a HID device, scan the barcode below to appropriately program the scanner (see also the user manual at <u>https://www.honeywellaidc.com/-</u> <u>/media/en/files-public/technical-publications/barcode-</u> <u>scanners/xenon/xenon-ug.pdf</u>):



#### **USB HID Bar Code Scanner**

- Run the TRBOnet One application.
- Go to Console Settings > General > Hardware Devices > Barcode scanner.
- From the drop-down list, select **1900**.



Console Settings		
	GENERAL	
🤹 General	Language:	English $\vee$
🎵 Audio Settings	Dispatch	
바바 Custom PTT Boxes	Enable sticky PTT	✓
🗞 External PTT Devices	Show audio waveforms	✓
🔹 Console Sounds	Cross Mute	
🌜 Phone Lines	Mute other dispatchers	
Maps	Mute radio-to-radio calls	✓
H Quick Commands		
T Filters	Hardware Devices	
O IP Cameras	Barcode scanner	USB Device ^
🛄 SCADA		USB Device
		USB Device
		Wired Keyboard 600
		Wired Keyboard 600
		USB Device
		USB Device

• Add a Workspace tab (1).



• In the right pane, go to Functional Modules > Radio Allocation (2).



• Drag it to the newly created workspace (3).

Workspace 🕂	Save and Apply	🙁 Discaro		
Radio	User			
[###]				
Scan the radio's barcode to check out or in				
		3		



# 6 Reports

The administrator/dispatcher can generate reports on the allocated radios and checked out radios.

- Click the Reports tab, and in the Reports pane, select
   Usage Statistics Reports > Radio Allocation or Checked Out Radios:
- Enter the required report parameters and click **Generate Report**.

File View Map Tools Help		
Reports	Usage Statistics Reports	👲 🐠 🔽
Channel Changes A Usage Statistics Reports Messages Radio Activity Radio Status	응가 1: Line free     변경     Intercom     엔 변경     Depatcher Group 1     엔 변경       Group 11     엔 변경     Group 22     엔 변경     Al Cal     엔 변경       Private Cal     엔 변경     Depatcher Group 2     엔 변경	
Radio Status Summary     Dise Messaces and Notes     Radio Allocation     Checked Out Radios     Disabled Radios     Telemetry     V	Report Settings           Radio Allocation         Saved Profiles:        Not defined           This report contains information on the allocated radios (radio, user, time the radio was taken/returned) within the specified time range.	×
Voice Dispatch	Time Range:           From:         22-May-20 12:00 AM         ⊻           To:	
😸 Job Ticketing	Filter:           Radio:         Selected Radios: 19            Logical Group:         -Hot defined	
Text Messages	Radio ID (e.g. 22,33,40-55,88 ):	
Voice Recording	Group by: By radios •	
Event Viewer	Generate Report  Save Report Profie Delete Report Profie Delete Report Profie	e
🚯 Connected 🔉 🛤 🛸 S Administra	tor 📴 Licensed to: demo (Walt) Demo License	Active •

## 6.1 Radio Allocation

This report contains information on the allocated radios (radio, user, time the radio was taken/returned) within the specified time range.

#### Filter

• Radio

In the list, select the desired radio(s).

• Logical Group

In the list, select the logical group(s).

• Radio ID

Enter a Radio ID or multiple Radio IDs of the radio(s) whose information to include in the report.

• User

From the list, select the user whose information to include in the report.

#### Grouping

#### • Group by

From the list, select how to group records in the report, by radios or by users.



## 6.2 Checked Out Radios

This report contains information on the radios that were checked out (taken) and not checked in (returned) during the specified time period.

#### Filter

• Radio

In the list, select the desired radio(s).

- **Logical Group** In the list, select the logical group(s).
- Radio ID

Enter a Radio ID or multiple Radio IDs of the radio(s) whose information to include in the report.

• User

In the list, select the user(s) whose information to include in the report.