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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):

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Voice Recording   Voice Recording <th>Gi 🗄 1: 🕹 🗶 🍸 🗃 🔤</th> <th><u> </u></th> <th></th> <th></th> <th></th> <th>_</th> <th></th>	Gi 🗄 1: 🕹 🗶 🍸 🗃 🔤	<u> </u>				_		
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Location Tracking <sup>©</sup> 223        Fremen, Polce          Image: Solution Solution <sup>©</sup> 235        Baad          Image: Solution Solution <sup>©</sup> Redo 200 <sup>Al</sup> Image: Solution Solution <sup>B</sup> Redo 202 <sup>Al</sup> Image: Ref 200 <sup>Al</sup> <sup>B</sup> Redo 202          Image: Ref 200 <sup>Al</sup> <sup>B</sup> Redo 204          Image: Reports <sup>C</sup> <sup>Al</sup> Image: Reports <sup>I</sup> <sup>I</sup> Image: Report Solution <sup>I</sup> <sup>I</sup>	Voice Dispatch	111		Firemen, Police	Vehide Make	Plate Number	Drivers	
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2 3	RFID Tracker			Al				
Radio Allocation			\ 2	,	3			
Event Viewer  Radio Allocation  Administration	-							
Radio Allocation     1								
Administration		1						
🐻 127.0.0.1 🍇 🔂 💆 Administrator 📑 Licensed to: demo Demo License 💿 🖉 Active		i hanna h					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.

You can also add required allocation data by clicking the **Add Missing Data** button (3) and selecting either **Manually** or **From File** from the drop-down menu.



Note: If you select **From File**, the CSV file must contain 4 fields: Radio ID, User's display name, Date/Time taken, Date/Time returned. For example, 1,John,2024-04-27 12:00,2024-04-27 16:00 2,Tim,2024-04-27 12:00,2024-04-27 16:00

# 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

File View Map Tools Help							
Administration		Users					🔮 🚸 🔽
	^	📑 Add 📑 Edit	📑 Delet	e 📑 Gro	uping 🍸	' Auto Filter 🐵 Default Settings	
		Login Z	Display N	ame	SIP ID	Description	
		Anton	Anton				
		Bobster	Bobster				
SMS Groups		Prune	Prune	Add/Edit	t Radio Use	er X	
Logical Groups		User 1	User 1	Conoral	Dadag	Management SIP Account Logical Groups Custom Fields	
Radio Groups		User 2	User 2	General	Radios	Kanageniene Str Account Logical Groups Custom rieus	
		Walt	Walt	🔽 Disa	able radio o	in return	
Radios					w DTMF ma	anagement	
<	>			Tal	ke radio:		
	_				turn radio:		
Hispatch				ке	turn radio:		
				Allo	w Text Mes	ssages management	
Location Tracking				Tal	ke radio:	Bsil	
				Re	turn radio:	Bsilext	
🚟 Job Ticketing							
~					w Sign In /	Sign Out management	
🥂 Route Management				Sig	n-in ID:		
						nanagement	
Text Messages				IV Allo	w beacon n		
0				Ma	jor ID:	10 🛨	
👻 Voice Recording				Min	nor ID:	20 ਦ	
0				Sen	d notificatio	on to radio after it is taken/returned	
Reports					ble forced		
<b>6</b>							
Event Viewer							
						OK Cancel	
1 Telemetry							
Administration	1						
Administration	-	144 44 4 Record 6 o	f6 ⊧ ⊧⊧ ⊧	н			Þ
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• 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 🗄 s Int. 1: Line free 📑 License Gro Private Cal Al Cal ssks ustom Fields Iodbus TCP Conni /irtual Modbus De IPSC 1: Slot IPSC 1: Slot # 🔜 Add 🌛 Edit 📑 Delete Custom Field Voice Dispatch Location Tracking Key 🙀 Job Ticketing 所 Route Management C Text Messages OK Cancel 🔮 Voice Recording Radio Allocation Administration 141 44 4 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     Disabled Radios     Dispatcher Groups     Dispatcher Groups     Mosters     September S     Mosters     Mosters     Mosters     Mosters     Mosters     Radios     Vers     Radios     Vers     Radios     Vers	Thercom Therc	③ 1: Line free ✓ Group 20	Escription	Al Cal	0 40 0 40
Lispatch	Cleaning 2				
Location Tracking	Security		Groups for Security		
Route Management					
V Text Messages					
🔮 Voice Recording					
Event Viewer					
Radio Allocation	_1				
Administration					
🚯 127.0.0.1 🙈 🕵 🧕 Administrator 📑 Lie	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	
Extern 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     Dispatcher Groups     Dispatchers     Email Groups     Email Groups     Storups     Storups     Storups     Storups	Intercon         11 400         (b) 1: Line free         400         14 Cal           If Group 10         10         If Group 20         61 400         If Group 30           Private Cal         10	*) *:0
Cigical Groups 2	Image: State of the state	
Voice Dispatch		
🐮 Job Ticketing		
RFID Tracker     Text Messages		
Voice Recording           Event Viewer		
Radio Allocation       Administration		Þ
🔂 127.0.0.1 🛞 🔂 🙎 Administrator 📗	Licensed 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 User X								
General	Radios	Management	SIP Account	Logical Groups	Custom Fields			
Name			Description	1				
all								
~ 🗌 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.



Add/Edit Radio User X									
General	Radios	Management	SIP Account	Logical Groups	Custom Fields				
Name			Value						
Name									
Descr	iption								
Car m									
Plate									
Phone	e								
🖂 Email									
Barco	de	(	7895	)					
				ОК	Cancel				

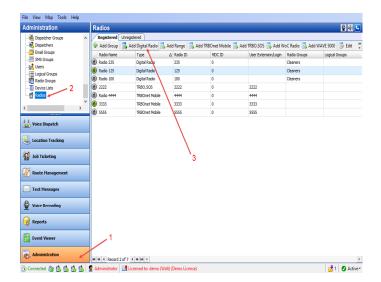
 Make sure that the Barcode field is populated with a unique value identifying the user.

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).



- 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.

## **TRBOnet Radio Allocation – User Guide**



Digital Radio: Radio 125 X						
General Logical Groups Additional	SIP Account Cameras					
Name	Description					
RBC	R B C					
✓ Cleaners						
Cleaners 1	Cleaning in Department 1					
Cleaners 2	Cleaning in Department 2					
✓ Security						
Security 1	Security in Department 1					
Security 2	Security in Department 2					
Select All Clear All						
	OK Cancel					

- 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								
	Max speed: Route Color: W	0 丈						
Load Image								
Name	Value							
Description		<b></b>						
Car make								
Plate number								
S Phone								
🖾 Email	tester@gmail.com							
Barcode	(12345							
	ОК	Cancel						

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

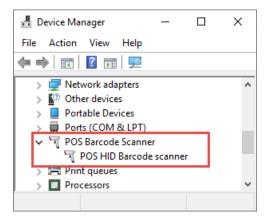
Note: Print this value as a barcode and keep as the radio's barcode.



## 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**

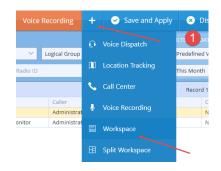
- Run the TRBOnet One application.
- Go to Console Settings > General > Hardware Devices > Barcode scanner.
- From the drop-down list, select **1900**.

# **TRBOnet Radio Allocation – User Guide**



Console Settings		
=	GENERAL	
🤹 General	Language:	English $\vee$
Audio Settings	Dispatch	
네바 Custom PTT Boxes	Enable sticky PTT	
🗞 External PTT Devices	Show audio waveforms	✓
Console Sounds	Cross Mute	
🍾 Phone Lines	Mute other dispatchers	
🚺 Maps		_
H Quick Commands	Mute radio-to-radio calls	✓
T Filters	Hardware Devices	
Q IP Cameras	Barcode scanner	USB Device ^
- SCADA		USB Device
		1900
		USB Device
		Wired Keyboard 600
		Wired Keyboard 600
		USB Device
		USB Device

- Enable the Design Mode.
- 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 🛛 😣 Discard			
Radio	User			
[####]				
Scan the radio's barcode to check out or in				



## 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  Usage Statistics Reports  Radio Activity  Radio Status  Radio Status	③ 1: Line free 低回 [Intercom 创催② Dispatcher Group 1 可信② Group 11 可低② Group 22 可低② Al Cal 可低③ Private Cal 可低② Dispatcher Group 2 可低④	
Radio Status Johns y     Radio Allocation     Clerked Out Radios     Disabled Radio     Telemetry	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 -	
Route Management	Logical Group: -Not defined	
C Text Messages	User: -Not defined	
👻 Voice Recording	Grouping:	
Reports	Group by: By radios -	
Event Viewer	Generate Report	
Administration	or Elicenset to demo Walti Demo License	×

### 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.