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Contents

1	Introduction		
	1.1	About This Guide	2
	1.2	About TRBOnet	2
	1.3	Contacts	2
2	Over	view	3
3	Configuring Rules		
	3.1	Sources	5
	3.2	Time Range	16
	3.3	Location	16
	3.4	Actions	
	3.5	Date and Time Formats	



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 configure and use the Alarm Management feature.

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

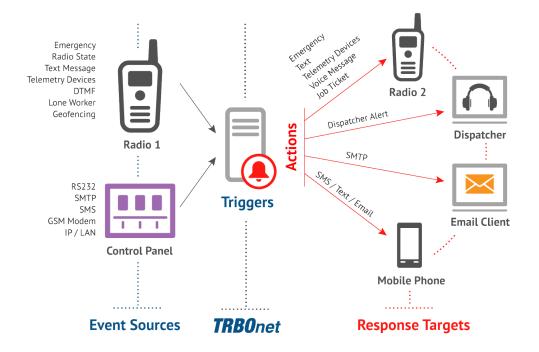
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2 **Overview**

The Alarm Management feature allows you to create rules for Alarms, Emails, Notifications, Text Messages to radios, and other events. When a configured rule is executed, the appropriate action(s) will start.

For example, an external application sends some text data, which contains the text "alarm", to TRBOnet software. The text "Alarm" is configured as the rule to start sending a predefined voice message (for example, "Alarm in Sector N") to selected radios (for example, the group "firemen"). As a result, the group "firemen" are notified about an emergency condition.





3 Configuring Rules

This section describes how to configure rules for a variety of events.

• Go to **Administration** (1), **Alarm Management** (2) to configure Alarm Management rules:

File View Map Tools Help		
Administration	Alarm Management	👲 🚯 🛂
Learse Database Database Database System Bridge System Bridge System Calls Whoth Modus Devices You Modus Devices You Modus Devices Z Sum Public Amouncement	a Add D Edit Create a Copy C Delete	Δ
Location Tracking		
😸 Job Ticketing		
Route Management		
V Text Messages		
🔮 Voice Recording	1	
Event Viewer		
Administration		Þ
🔂 Connected 🎯 🕵 🕵 🕵	🔓 🧕 Administrator 🛛 💷 Licensed to: demo (Walt) (Demo License)	🕑 Active -

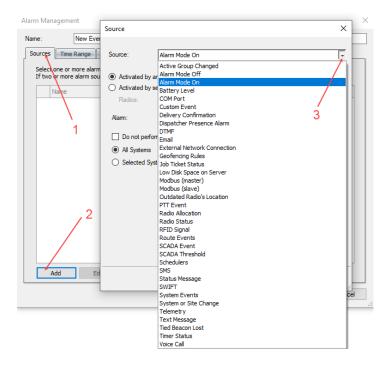
- Click Add (3) to create a new Alarm Management rule.
 - Note: The administrator can also create a copy of the existing Alarm Management rule. Select a rule in the list and click the **Create a Copy** button. The system will create a copy of the rule with the same configuration parameters.
 - Name

Enter a name for the alarm rule.



3.1 Sources

• On the **Sources** tab (1), click **Add** (2) to add an alarm source to the alarm rule.



Source

From the drop-down list (3), select the alarm source to add to the rule. The following alarm sources can be added to the alarm rule:

3.1.1 Active Group Changed

This event is triggered when the active group is changed on a Capacity Max system.

Activated by any radio

The active group is changed for any radio in the system.

• Activate by selected radios only

The active group is changed for selected radios in the system.

3.1.2 Alarm Mode Off

This event is triggered when the alarm mode is cleared on the radio(s).

Activated by any radio

The alarm mode is cleared for any radio in the system.

Activate by selected radios only

The alarm mode is cleared for selected radios in the system.

3.1.3 Alarm Mode On

This event is triggered when an alarm is received from the radio.



- Activated by any radio An alarm is triggered on/for any radio in the system.
- Activate by selected radios only An alarm is triggered on/for selected radios in the system.
- Alarm
 - Emergency Alarm

An Emergency alarm is received from the radio.

Man Down

A Man-Down alarm is received from the radio.

- **No Movement** A No-Movement alarm is received from the radio.
- Lone Worker A Lone-Worker alarm is triggered for the radio.
- Crash Detect

A Crash-Detect alarm is received from the radio.

Geofencing

A Geofencing alarm is triggered for the radio.

RFID Tracker

An RFID alarm is triggered for the radio.

All

Any of the above-listed alarms is triggered on/for the radio.

- **Do not perform actions if radio is already in alarm mode** Select this option to not perform the associated action upon receiving a repeated alarm from the radio.
- All Systems

An alarm is triggered on all radio systems.

• Selected Systems

An alarm is triggered on selected radio systems.

3.1.4 Battery Level

This event is triggered when the specified battery level is reached on the radio or smartphone.

TRBOnet Software for option boards as well as mobile apps like TRBO.SOS or Mobile Client are capable of sending the battery charge level of a radio or a mobile device respectively to the dispatch software. Radios equipped with non-Impres batteries can only report a Low Battery status. Impres batteries determine the remaining capacity as a percentage except when a radio is being charged. Depending on the version, TRBO.SOS and Mobile Client apps are also able to send information about the battery percentage to TRBOnet.



Update intervals

Radios with option boards update their battery status depending on the Reports configuration that can be changed via Swift CPS.

Mobile apps send the battery information as soon as they are connected to TRBOnet. After successful connection, mobile apps pass the battery level to the server with every location update, voice transmission and text message. Regardless of its activity, a mobile app will update the battery charge level when it goes down to 90%, 80%, 70%, 60%, 50%, 40%, 30%, 20%, 15%, 10%, 5%.

• Activated by any radio

A pre-defined low battery threshold level is reached on any radio in the system.

• Activate by selected radios only A pre-defined low battery threshold level is reached on selected radios in the system.

• **Battery level is less than or equal to** Select this option and enter the level, in percent.

• Low Battery warning (non-Impres batteries) Select this option if the radio is equipped with a non-Impres battery.

3.1.5 COM Port

COM Port

Select the COM Port connection configured in TRBOnet Server.

• Regular Expression

Enter the text or characters that the external application data must contain.

3.1.6 Custom Event

• Event ID

Enter the ID of the event.

3.1.7 Delivery Confirmation

- Activated by any radio A delivery is confirmed/not confirmed on any radio in the system.
- Activate by selected radios only A delivery is confirmed/not confirmed on selected radios in the system.
- Text message delivered Text message delivery is confirmed.
- **Text message not delivered** Text message delivery is not confirmed.
- **Telemetry delivered** Telemetry delivery is confirmed.



• Telemetry not delivered

Telemetry delivery is not confirmed.

3.1.8 Dispatcher Presence Alarm

• All Dispatchers

A presence alarm is triggered for any of the dispatchers.

• Selected Dispatchers A presence alarm is triggered for selected dispatchers only.

3.1.9 DTMF

- Activated by any radio A specific DTMF command is received from any radio.
- Activate by selected radios only A specific DTMF command is received from selected radios in the system.
- Command

Enter a DTMF command.

3.1.10 Email

- Sender Enter the sender of an email.
- **Recipient** Enter the recipient of an email.
- **Regular Expression** Enter the text or characters that the email must contain.

3.1.11 External Network Connection

- **Connection** Select the TCP/IP connection configured in TRBOnet Server.
- **Regular Expression** Enter the text or characters that the external application data must contain.

3.1.12 Geofencing Rules

This event is triggered when one or all of the Geofencing rules is triggered for the selected radio(s).

- Activated by any radio A Geofencing rule is triggered for any radio.
- Activate by selected radios only A Geofencing rule is triggered for selected radios in the system.
- All Rules

Any of the Geofencing rules is triggered.



• Selected Rules

Only selected Geofencing rules are triggered.

3.1.13 Incoming SMS

This event is triggered when there is an incoming SMS.

- **Received from any phone number** The event is triggered when an SMS is received from any phone number.
- **Received from selected phone numbers** The event is triggered for an SMS is received from the selected phone number(s).
 - Phones
 Populate the list of phone numbers by using the Add button.
- Text Contains

Enter the text that must be present in the SMS message to trigger the event. Leaving this box blank means that the message may contain any text.

3.1.14 Job Ticket Status

This event is triggered when the job ticket status changes to the selected status.

• Statuses Select the job ticket status(es).

3.1.15 Low Disk Space on Server

This event is triggered when the free disk space on the server's PC decreases to a specified threshold.

- Server disk
 - Select the disk on the server's PC to be monitored.
- Low disk space threshold

Enter the lower threshold, in percent. Passing this threshold will trigger the event.

3.1.16 Modbus (master)

This event is triggered when the specified memory cell on the connected Modbus device being polled by TRBOnet Server holds the specific value.

• Connection

Select the Modbus master connection configured in TRBOnet Dispatch Console.

• Table

Select the Modbus table.



• Address

Enter the memory address on the Modbus device.

• Value

Enter the value that is held in the specified memory address.

3.1.17 Modbus (slave)

This event is triggered when the connected Modbus device sends a command to write the specified value to the specific memory cell.

• Connection

Select the Modbus slave connection configured in TRBOnet Dispatch Console.

• Table Select the Modbus table.

Address

Enter the memory address on the Modbus device.

• Value

Enter the value to be written to the specified memory address.

3.1.18 Outdated Radio's Location

This event is triggered when location data from the radio(s) is outdated.

- Activated by any radio The event is triggered from any radio.
- Activate by selected radios only The event is triggered from selected radio(s) only.
- Monitoring

Select which location data (GPS, Beacon, or both) to consider.

• Interval

Enter the time interval, in seconds, during which location data are not received from the radio(s).

• Online radios only

Select this option so that only online radios will be considered.

3.1.19 PTT Event

This event is triggered when the PTT button is pressed (the specified number of times during the specific time interval) on the radio.

- Activated by any radio The PTT button is pressed on any radio.
- Activate by selected radios only The PTT button is pressed on selected radios.
- PTT Press

Enter how many times the PTT button must be pressed.



• Interval

Enter the time interval during which the specified number of PTT presses must occur.

3.1.20 Radio Allocation

This event is triggered when the radio is taken/returned by the user(s) by signing in/out.

- Activated by any radio The selected user takes/returns any radio.
- Activate by selected radios only The selected user takes/returns selected radios.
- Users

Select the user(s).

- User took radio Select this option to trigger the event when the user takes the radio.
- User returned radio Select this option to trigger the event when the user returns the radio.
- User failed to take radio

Select this option to trigger the event when the user fails to take the radio.

3.1.21 Radio Status

This event is triggered when the radio changes its status (online/offline, fixed/lost GPS, detected/lost beacon).

Activated by any radio

The event is triggered from any radio.

• Activate by selected radios only The event is triggered from selected radio(s) only.

Select one or more of the following options:

- Radio is offline
- Radio is online
- Radio has a GPS fix
- Radio lost a GPS fix
- Radio detects a beacon

In addition, select the beacon(s) to be detected by the radio.

Group

Select this option to group selected beacons, so that this event is triggered only once when the radio detects any beacon in this group.

• Radio lost a beacon

In addition, select the beacon(s) to be lost by the radio.



Group

Select this option to group selected beacons, so that this event is triggered only when the radio loses all beacons in this group.

3.1.22 Route Events

This event is triggered when various route events occur (route started/finished, waypoint attended/not attended, etc.).

• Activated by any radio

The event is triggered for any radio.

- Activate by selected radios only The event is triggered for selected radio(s) only.
- **Events** In the list, select the route event(s) to be triggered.
- All Routes

The event is triggered for all routes.

• Selected Routes

The event is triggered for selected routes only.

3.1.23 SCADA Event

This event is triggered when a certain SCADA tag equals (is less, greater, less or equal, greater or equal) a certain value.

- Click the **Add** button.
- Select the tag, the relation symbol and the value.

3.1.24 SCADA Threshold

This event is triggered when a certain SCADA tag's value exceeds the defined threshold.

• Tag

Select the tag from the drop-down list.

• Error Status

Choose this option to trigger the event when the tag's value falls into the error status.

• Default Status

Choose this option to trigger the event when the tag's value falls into the default status.

• Custom Threshold

Choose this option to trigger the event when the tag's value exceeds the specified threshold.

3.1.25 Schedulers

This event is triggered when the selected schedulers are started.



• Scheduler

Select the scheduler(s) in the list.

3.1.26 Status Message

This event is triggered when the radio gets the specified Status.

3.1.27 SWIFT

This event is triggered when a Low Battery event or one of the Swift commands is received from the radio(s).

- Activated by any radio The event is triggered for any radio.
- Activate by selected radios only The event is triggered for selected radio(s) only.
- **Event** Select the Swift command from the drop-down list.
- **Description** Enter a description of the SWIFT event.

3.1.28 System Events

This event is triggered when one or more of the following system events are triggered.

- Lost connection to master device
- Restored connection to master device
- Failover (primary server disconnected)
- Failback (primary server reconnected)
- Swift Agent alarm
- Other system events

3.1.29 System or Site Change

This event is triggered when the radio enters or leaves the coverage area of the specified radio system or site.

- Activated by any radio The event is triggered for any radio.
- Activate by selected radios only The event is triggered for selected radio(s) only.
- Events

In the list, select which event to be triggered: when the specified radio system is **Detected** by the radio or **Left** by the radio.

• System

Click the **Add** link below and select the available radio system.



3.1.30 Telemetry

This event is triggered when a telemetry command is received from the radio.

• Activated by any radio

The event is triggered when receiving telemetry from any radio.

• Activate by selected radios only

The event is triggered when receiving telemetry from selected radio(s) only.

• VIO

Enter the VIO-pin on the radio.

• Command

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

3.1.31 Text Message

This event is triggered when a text message is received from the radio.

• Activated by any radio

The event is triggered when receiving a text message from any radio.

• Activate by selected radios only

The event is triggered when receiving a text message from selected radio(s) only.

• Text Contains

Enter the text that must be present in the text message to trigger the event. Leaving this box blank means that the message may contain any text.

Only if contains attachments

Select this check box to trigger the event only if the message has attachments.

3.1.32 Tied Beacon Lost

This event is triggered when a beacon tied to the radio is lost by that radio.

• Activated by any radio

The event is triggered when any radio loses the tied beacon.

• Activate by selected radios only The event is triggered when only selected radio(s) lose the tied beacon.

3.1.33 Timer Status

This event is triggered when the timer status changes.

• Activated by any radio

The event is triggered when any radio changes the timer status.



• Activate by selected radios only

The event is triggered when only selected radio(s) change the timer status.

• Timers

In the list, select the timer(s).

• Timer Statuses

In the list, select the desired timer status(es).

3.1.34 Voice Call

This event is triggered when a voice call is initialized/started/ended.

• Event

From the list, select one of the following:

- Call started
- Call established
- Call ended
- Call Type

In the list, select the call type (Private Call, Group Call, All Call, Remote Monitor, Conference, or all of them)

• Call Priority

In the list, select the call priority (Emergency, High, Normal, Low, or all of them)

• System

In the list, select the system(s) where the voice call occurs.

• Caller

In the list, select the caller(s) of the call.

• Destination

In the list, select the call destination(s).

If the **Call ended** event is selected, the following additional parameters become available for this source:

• Call Status

From the list, you can select **Success**, **Missed**, or both statuses.

- **Call Duration** Select the call duration (from-to)
- **Ring Time** Select the ring time (from-to)
- Talk Time Select the talk time (from-to)



3.2 Time Range

• Click the **Time Range** tab to set the time at which the alarm rule will be applied.

Alarm Management					×			
Name: New Event								
Sources Time Range Location Actions								
Select during which time periods of the day alarm sources should be monitored.								
Selected Time								
Day of Week	A	Start	L	End	∇			
Monday		12:00 AM		12:00 PM				
Tuesday		12:00 AM		12:00 PM	1			
Add Delete								
		OK		Ca	ncel			

All Time

Choose this option so that the rule will be valid all the time.

Selected Time

Choose this option so that the alarm rule will be applied on the selected days of the week at the selected time.

• Select the days of the week and specify the time ranges.

3.3 Location

- Under the **Location** tab, select the regions inside or outside of which the alarm rule will be applied. You can also select the beacons in the coverage zone of which the alarm rule will be applied.
 - Note: If **COM Port** and/or **External Network Connection** are selected as the alarm source, the **Location** rule won't be applied.

TRBOnet Alarm Management – User Guide



Alarm Management	×
Name: New Rule	
Sources Time Range Location Actions	_
Location-based rules trigger actions based on the location of selected devices. Alarm sources will be monitored if any location-based condition is met.	
Regions	
Enable	
Radio Location: Inside Regions 👻	
O All Regions	
Selected Regions	
Regions: Selected items: 1	
Beacons	
Enable	
All Beacons Selected beacons	
Selected items: 2	
OK Cance	

Regions

Select **Enable** to add regions to the alarm rule.

• Radio Location

From the drop-down list, select whether the alarm rule will be applied **Inside Regions** or **Outside Regions**.

• All Regions

Choose this option to apply the alarm rule inside/outside all map regions.

• Selected Regions

Choose this option to apply the alarm rule only inside/outside selected regions.

✓ Regions

In the list, select the region(s).

Beacons

Select **Enable** to add beacons to the alarm rule.

• All Beacons

Choose this option to add all beacons to the alarm rule.

• Selected Beacons

Choose this option to add only selected beacons to the alarm rule.

✓ Beacons

In the list, select the beacon(s).

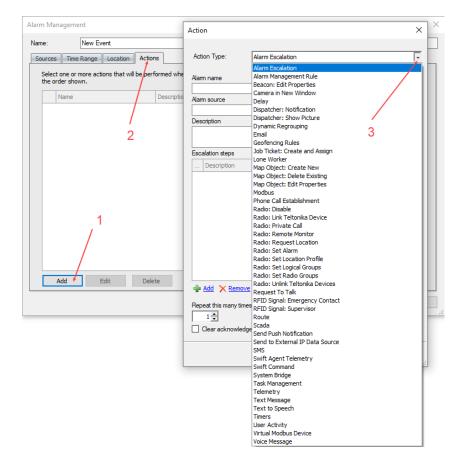


3.4 Actions

• Click the **Actions** tab (1) to set actions for the rule.

In the Actions list, the administrator can add and configure actions to be performed when the events configured and selected in the **Sources** page are triggered.

• Click Add (2) to add an action:



Action Type

From the drop-down list (3), select the action type.

The following actions can be added to the rule:

3.4.1 Alarm Escalation

Alarm name

Enter the name of the alarm to be escalated.

- Alarm source Enter the radio or other device that is the source of the alarm.
- **Description** Enter a description for the alarm escalation.



Note: You can also add variables like %RADIO_ID% and %RADIO_NAME%, which will be automatically substituted with the corresponding 'Radio ID' or 'Radio Name' when the radio is the alarm source.

• Escalation steps

- Click the Add link and from the drop-down menu select the type of the escalation step.
 - Text Message
 - ✓ Duration

Enter the time period allocated for the step.

✓ Radios

In the list, select the radio(s) that will receive the text message.

✓ Text message

Enter the text of the text message.

Acknowledgement code

Click this link to add an acknowledgement code to the text.

✓ Stop escalation if alarm is acknowledged

Select this option so that the alarm escalation will be stopped as soon as at least one user has acknowledged the alarm. In the box below enter the code that will be used as an acknowledgement code for the alarm.

Or, select the **Auto-generate codes** option, and in the **Number of digits** box enter the desired number of digits to be used in the auto-generated acknowledgement code.

- Voice Call
 - ✓ Duration

Enter the time period allocated for the step.

✓ Call Type

From the drop-down list, select the call type (Group Call, Private Call, or Phone Cal)

✓ Channel

If the Group Call is selected above, select the radio channel through which to make the voice call.

✓ Target

Select the call target which depends on the type (radio group, radio, or phone number).

Prerecorded announcement

Choose this option and then click either **Load from file** or **Record message**.



✓ Text to Speech

Choose this option and enter the text to be converted to speech. **Acknowledgement code**

Click this link to add an acknowledgement code to the text.

Stop escalation if alarm is acknowledged

Select this option so that the alarm escalation will be stopped as soon as at least one user has acknowledged the alarm.

In the **DTMF code** box below enter the code that will be used as an acknowledgement code for the alarm.

Or, select the **Auto-generate codes** option, and in the **Number of digits** box enter the desired number of digits to be used in the auto-generated acknowledgement code.

- Email
 - ✓ Duration

Enter the time period allocated for the step.

✓ Recipients

From the drop-down list, select the recipients of the email message.

✓ Subject

Enter the subject of the email message.

Acknowledgement code

Click this link to add an acknowledgement code to the subject.

✓ Message

Enter the text of the email message.

Acknowledgement code

Click this link to add an acknowledgement code to the text.

✓ Stop escalation if alarm is acknowledged

Select this option so that the alarm escalation will be stopped as soon as at least one user has acknowledged the alarm. In the box below enter the code that will be used as an acknowledgement code for the alarm.

Or, select the **Auto-generate codes** option, and in the **Number of digits** box enter the desired number of digits to be used in the auto-generated acknowledgement code.

- Telemetry
 - ✓ Duration

Enter the time period allocated for the step.

✓ VIO

Enter the VIO-pin on the radio.

✓ Command

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



✓ Recipients

In the list, select the radio(s)/radio group(s) to which to send the Telemetry command.

✓ Stop escalation if alarm is acknowledged

Select this option so that the alarm escalation will be stopped as soon as at least one user has acknowledged the alarm. In the boxes below, select **VIO** and **Command** that will be used for acknowledgement.

- Pause
 - ✓ Duration

Enter the time period for the pause.

Repeat this many times

Enter the number of times to repeat the specified escalation steps until someone acknowledges the alarm.

Clear acknowledged alarms

Select this option so that the acknowledged alarms be cleared from the display.

3.4.2 Alarm Management Rules

In the table of available Alarm Management rules, select actions for the rules:

- Enable to enable the rule.
- **Disable** to disable the rule.
- Toggle to toggle the rule status.
- **Execute** to execute the rule's action.

3.4.3 Beacon: Edit Properties

• Beacon

Select the beacon whose properties will be modified.

• Name

Enter the new name of the beacon.
Click the links below to add specific fields to the beacon name.
For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.

• Description

Enter the new description of the beacon. Click the links below to add specific fields to the beacon description. For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.



3.4.4 Camera in New Window

• Dispatchers

In the list, select the dispatcher(s) for whom to display the window.

• Cameras

From the drop-down list, select the camera to be displayed in the window.

3.4.5 Delay

• Interval

Set the time interval, in seconds, for a delay between actions.

3.4.6 Dispatcher: Notification

• Dispatchers

In the list, select the dispatcher(s) for whom to display the notification.

Always show

Select this option so that the dispatcher won't be able to hide the visibility of the notification dialog box.

• Severity

From the drop-down list, select the notification severity ('Information', 'Warning', or 'Alarm').

• Text

Enter the text of the notification. Click the links below to add specific fields to the notification text. For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.

3.4.7 Dispatcher: Show Picture

• Dispatchers

In the list, select the dispatcher(s) for whom to display the specified image file.

• Load

Click this link and locate the desired image file (PNG, JPG, TIFF, GIS) on your computer. The specified image file will be displayed in the box above the link.

• Description

If necessary, enter a description for the image. Click the links below to add specific fields to the image description. For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.



3.4.8 Dynamic Regrouping

• Action

From the list, select the action (Assign to, or Exclude from dynamic group).

• Group

From the list, select the radio group to which to assign (or, from which to exclude) radios.

• Group Alias

Enter an alias for the radio group.

• Radios

In the list, select the radio(s)/radio group(s) that will be dynamically regrouped.

Send only to the following radios from the list of recipients

Online radios

Select this option so that only online radios will be regrouped.

• This many radios closest to source radio Select this option and specify the number of closest devices to the source radio.

Radios within this radius from source radio Select this option and specify the radius (in units selected in Tools > Options > Advanced > Measurement system).

• Notify if action is not accepted

Select this option to send notifications to dispatchers, Email and/or SMS groups if a radio is not regrouped within the time specified in the box below.

Notification List

Click this link and choose the recipients of selected notifications.

3.4.9 Email

• Recipients

In the list, select the email group(s) to which the email message will be sent.

• Attachments

From the drop-down list, select how to process attachments if this action is assigned to the Text Message event which is triggered only if the test message has attachments (see section <u>3.1.31, Text Message</u>).

Don't send

Select this option not to resend attachments in the email.

Send all attachments in one email

Select this option to send the attachments in one email once they are all uploaded to the server.



Send separate emails

Select this option to send the attachments in separate emails as soon as each attachment is uploaded to the server.

• Subject

Enter the subject of the email message. Click the links below to add specific fields to the email subject. For more information on date and time formats, see section <u>3.5, Date and</u> <u>Time Formats</u>.

• Text

Enter the text of the email message. Click the links below to add specific fields to the email text. For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.

3.4.10 Geofencing Rules

In the table of available Geofencing rules, select actions for the rules:

- Enable to enable the rule.
- **Disable** to disable the rule.
- **Toggle** to toggle the rule status.

3.4.11 Job Ticket: Create and Assign

• Enable Deadline

Select this option and enter the ticket's **Deadline** (in minutes, hours, or days).

• Recipients

In the list, select the radio(s)/radio group(s) to which to assign the ticket.

Send only to the following radios from the list of recipients

Online radios

Select this option so that the ticket will be assigned to online devices only.

• This many radios closest to source radio

Select this option and specify the number of closest devices to the source radio.

Radios within this radius from source radio Select this option and specify the radius (in units selected in Tools > Options > Advanced > Measurement system).

• Send copy to source radio

Select this option to assign the ticket to the radio that triggered the source event.



• Notify on status changes

Select this option to send notifications to Dispatchers, Email and/or SMS groups when a Job Ticket status changes.

Notify if ticket is not accepted

Select this option to send notifications to dispatchers, Email and/or SMS groups if a radio does not accept the Job Ticket within the time specified in the box below.

Notification List

Click this link and choose the recipients of selected notifications.

• Assign tickets to groups via selected systems

Select this option and in the list below, select the radio system(s).

• Description

Enter the description of the ticket. Click the links below to add specific fields to the ticket description. For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.

3.4.12 Lone Worker

• Recipients

In the list, select the radio(s)/ radio group(s).

Send only to the following radios from the list of recipients

- **Online radios** Select this option so that only online radios will be disabled.
- This many radios closest to source radio Select this option and specify the number of closest devices to the source radio.

Radios within this radius from source radio Select this option and specify the radius (in units selected in Tools > Options > Advanced > Measurement system).

• Send to source radio

Select this option to also set the Lone Worker task for the radio that triggered the source event.

Lone Worker

In the list, select the Lone Worker task(s). Or, click the plus button on the right to create a new Lone Worker task.

Action

Select whether to **Start** or **Stop** the selected Lone Worker task(s).

3.4.13 Map Object: Create New

• Type

From the list, select the object type.



• Name

Enter the name of the created object. Click the links below to add specific fields to the object name. For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.

3.4.14 Map Object: Delete Existing

• Delete only automatically created map objects

Select this option to delete only those map objects that were created automatically.

• Radius

Specify the radius, in meters. There will be deleted only those map objects that are located within this radius around the radio that triggered the source event.

3.4.15 Map Object: Edit Properties

• Map Object

Select the map object to be edited.

• Name

Enter the new name for the map object. Click the links below to add specific fields to the object name. For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.

• Description

Enter the new description for the map object.

• Additional parameters

Select the new object type, if a point object is to be edited. Select the new color, fill and transparency, if the object is a region or a route.

3.4.16 Modbus

• Connection

Select the Modbus master connection.

• Slave ID

Enter the Slave ID of the Modbus device.

• Туре

Select the Modbus data type.

Address

Enter the memory address whose value to set.

• Value

Enter the value to set to the specified address.



3.4.17 Phone Call Establishment

Called Party

• Call Type

Select the called party (Group Call, Private Call, Phone Call, or Intercom).

• Channel

If the Group Call is selected above, select the radio channel through which to make the phone call.

• Target

Select the call target which depends on the type (radio group, radio, phone number, dispatcher or dispatcher group).

• Priority

Select the priority of the radio call.

Caller

• SIP ID

Enter the SIP ID of the caller.

• Play audio

Select this option to play the audio message, and then select one of the following:

- Recorded Audio Message Choose to either:
 - Load form file

or:

- Record message
- Text to Speech

Choose this option and enter the text to be converted to speech. Click the links below to add specific fields to the text. For more information on date and time formats, see section <u>3.5, Date</u> and <u>Time Formats</u>.

3.4.18 Radio: Disable

• Radios

In the list, select the radio(s) to be disabled.

- Send only to the following radios from the list of recipients
 - **Online radios** Select this option so that only online radios will be disabled.
 - This many radios closest to source radio Select this option and specify the number of closest devices to the source radio.



Radios within this radius from source radio
 Select this option and specify the radius (in units selected in Tools > Options > Advanced > Measurement system).

Send copy to source radio

Select this option so that the radio that triggered the source event will be disabled.

• Enable

Select this option and enter the time period, in minutes, after which the radio(s) will be enabled again.

• Reason

Enter the reason for disabling the radio(s). Click the links below to add specific fields to the reason text. For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.

3.4.19 Radio: Link Teltonika Device

• Radio

From the drop-down list, select the radio to link a Teltonika device to.

Source Radio

Select this option so that a Teltonika device will be linked to the radio that triggered the source event.

• Teltonika device

From the drop-down list, select the Teltonika device that will be linked to the selected radio.

• Location Source

From the list, select the desired source of location data.

Teltonika

Select this item to use only location data received from the Teltonika device. In this case, location data received from the radio will be ignored, that is, they won't be recorded to the database and so won't be used in the reports.

Built-in GPS receiver (Radio)

Select this item to use only location data received from the radio. In this case, location data received from the Teltonika device will be ignored, that is, they won't be recorded to the database and so won't be used in the reports.

Mixed mode

If this item is selected, location data received from both devices will be used.



• Positioning mode

If **Mixed mode** is selected from the **Location Source** list, select from where the Positioning mode will be taken (radio's Location Profile or Teltonika Profile).

Unlink already linked device

Select this option so that if the radio is already linked to a Teltonika device, it will be unlinked and linked to the selected Teltonika device. If this option is not selected, the selected new Teltonika device won't be linked to the radio that is already linked to another Teltonika device.

3.4.20 Radio: Private Call

• Radio

From the drop-down list, select the radio to which to make a private call.

Source Radio

Select this option so that a private call will be made to the radio that triggered the source event.

• Dispatchers

In the list, select the dispatcher(s) who will be prompted to make a private call to the specified radio.

Online Dispatchers

Select this option so that only online dispatchers will be prompted to initiate a private call to the specified radio.

• Description

Enter the text that will be displayed in the dialog box prompting the dispatcher to make a private call to the radio.

Click one or more fields below to add them to the notification text. For more information on date and time formats, see section <u>3.5, Date and</u> <u>Time Formats</u>.

3.4.21 Radio: Remote Monitor

• Radio

From the drop-down list, select the radio on which to activate the microphone in hidden mode (remote monitor duration – 30 sec.)

Source Radio

Select this option so that the microphone will be activated on the radio that triggered the source event.

3.4.22 Radio: Request Location

This action will send a location request to the radio that triggered the source event.



3.4.23 Radio: Set Alarm

This action will set an alarm for the radio that triggered the source event.

3.4.24 Radio: Set Location Profile

• Device Type

From the list, select the device type (Digital Radio, TRBOnet Mobile, TRBO.SOS, or Teltonika)

• Recipients

In the list, select the device(s)/radio group(s) for which to set the location profile.

Send only to the following radios from the list of recipients

• Online radios

Select this option so that the location profile will be set only for online devices.

• This many radios closest to source radio Select this option and specify the number of closest devices to the source radio.

Radios within this radius from source radio Select this option and specify the radius (in units selected in Tools > Options > Advanced > Measurement system).

Send copy to source radio

Select this option so that the location profile will also be set for the radio that triggered the source event.

Radios in Alarm

Select this option so that the location profile will also be set for the devices that are in Alarm mode.

• Location Profile

Select the location profile to be set for the selected device(s).

• Action

Select whether to Start or Stop Location Updates.

3.4.25 Radio: Set Logical Groups

Select the logical groups to assign to the radio(s) that triggered the source event.

3.4.26 Radio: Set Radio Groups

This action will change the Home group and radio groups on the radio that triggered the source event.



• Change home group

Select this option and from the list below select the group that will be set as a Home group on the source radio.

If you select **Source Radio**, the Home group will be set to the group that is active on the radio. If there is no active group on the radio, the Home group won't be changed.

If you select **None**, the Home group will be cleared on the radio.

• Change radio groups

Select this option and in the list below select the radio group(s) that will be set on the source radio.

3.4.27 Radio: Unlink Teltonika Devices

This action will unlink Teltonika devices from the selected radio(s).

• Radios

In the list, select the radio(s) you want to unlink from Teltonika devices.

• Unlink from source radio

Select this option so that a Teltonika device will also be unlinked from the radio that triggered the source event.

3.4.28 Request To Talk

This action will send a request to talk to all dispatchers or selected dispatcher group.

3.4.29 Route

• Route

From the drop-down list, select the route to assign to the radio and start.

Radio Owner

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

• Radio

Select the radio to which to assign the route.

Send copy to source radio

Select this option so that the route will be assigned to the radio that triggered the source event.

• Dispatcher

Select the dispatcher who will track the route.

3.4.30 SCADA

• Tag

Select the tag to which to set the value.

• Value

Enter the value to set to the selected tag.



3.4.31 Send Push Notification

• Recipients

In the list, select the select the mobile device(s)/radio group(s) to which to send the push notification.

- Send only to the following radios from the list of recipients
 - Online radios

Select this option so that the push notification will be sent only to online devices.

- This many radios closest to source radio Select this option and specify the number of closest devices to the source radio.
- Radios within this radius from source radio
 Select this option and specify the radius (in units selected in Tools > Options > Advanced > Measurement system).

• Send copy to source radio

Select this option so that the push notification will also be sent to the mobile device that triggered the source event.

• Sender

From the drop-down list, select the dispatcher who will send the push notification.

• Subject

Enter the subject of the push notification. In addition, you may click the button on the right and select the notification severity ('Information', 'Warning', or 'Alarm').

• Text Message

Enter the text of the push notification. Click one or more fields below to add them to the text. For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.

3.4.32 Send to External IP Data Source

• Connection

Select the TCP/IP connection configured in TRBOnet Server.

• Message

Enter the message that will be sent to an external IP data source. Click the links below to add specific fields to the message text. For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.

3.4.33 SMS

• Recipients

In the list, select the recipients of the SMS message.



• Text

Enter the text of the message. Click one or more fields below to add them to the text. For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.

3.4.34 Swift Agent Telemetry

• Swift Agent

In the list, select the Swift Agent connected to TRBOnet.

• Pin ID

Specify the ID of the Swift Agent's pin which value to modify.

• Command

From the drop-down list, select the value (ON or OFF) that will be sent to the specified pin.

3.4.35 Swift Command

• Recipients

In the list, select the radio(s)/radio group(s) to which to send the Swift command.

- Send only to the following radios from the list of recipients
 - Online radios

Select this option so that the Swift command will be sent only to online radios.

This many radios closest to source radio

Select this option and specify the number of closest radios to the source radio.

Radios within this radius from source radio Select this option and specify the radius (in units selected in Tools > Options > Advanced > Measurement system).

Send copy to source radio

Select this option so that the Swift command will also be sent to the radio that triggered the source event.

• Swift Event

Select the Swift command from the drop-down list.

3.4.36 System Bridge

• Profiles

In the list, select the radio bridge(s) available across the radio systems.

• Choose to either **Activate** or **Deactivate** the selected radio bridge(s).



3.4.37 Task Management

In the table of available tasks, select actions for the tasks:

- Enable to enable the task.
- **Disable** to disable the task.
- **Toggle** to toggle the task status.

3.4.38 Telemetry

• VIO

Enter the VIO-pin on the radio.

• Command

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

• Recipients

In the list, select the radio(s)/radio group(s) to which to send the Telemetry command.

- Send only to the following radios from the list of recipients
 - Online radios

Select this option so that the Telemetry command will be sent only to online radios.

- This many radios closest to source radio Select this option and specify the number of closest radios to the source radio.
- Radios within this radius from source radio
 Select this option and specify the radius (in units selected in Tools > Options > Advanced > Measurement system).
- Send copy to source radio

Select this option so that the Telemetry command will also be sent to the radio that triggered the source event.

3.4.39 Text Message

• Dispatchers

In the list, select the dispatcher(s) to which to send the text message.

• Recipients

In the list, select the select the radio(s)/radio group(s) to which to send the text message.

- Send only to the following radios from the list of recipients
 - Online radios

Select this option so that the text message will be sent only to online radios.



- This many radios closest to source radio Select this option and specify the number of closest radios to the source radio.
- Radios within this radius from source radio
 Select this option and specify the radius (in units selected in Tools >
 Options > Advanced > Measurement system).

Send copy to source radio

Select this option so that the text message will also be sent to the radio that triggered the source event.

• Sender

From the drop-down list, select the dispatcher who will send the text message.

• Text Message

Enter the text of the text message. Click one or more fields below to add them to the text. For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.

3.4.40 Text to Speech

• Click the Add link.

Select the **Call Type**, **Channel**, and **Call Destination** to which the voice message will be sent.

• Priority

Select the priority of the voice message.

• Text

Enter the text to be converted to speech. Click one or more fields below to add them to the text. For more information on date and time formats, see section <u>3.5</u>, <u>Date and</u> <u>Time Formats</u>.

3.4.41 Timers

• Timer

From the drop-down list, select the desired timer.

• Action

From the drop-down list, select what to do with the selected timer: **Start**, **Stop**, **Pause**, or **Reset**.

3.4.42 User Activity

• Radios

In the list, select the radio(s)/radio group(s) to which to assign the user activity.



Source Radio

Select this option so that the user activity will also be assigned to the radio that triggered the source event.

• Activity

From the drop-down list, select the user activity. Or click the ellipsis button on the right to create a new user activity.

• Note

Enter the note for the user activity. Click the links below to add specific fields to the note. For more information on date and time formats, see section <u>3.5, Date and</u> <u>Time Formats</u>.

3.4.43 Virtual Modbus Device

• Modbus Device

Select the Modbus device configured in TRBOnet Dispatch Console.

• Table

Select the Modbus table.

Address Source

Select the memory address source (Manual or Radio ID).

- Address Enter the memory address, if Manual is selected above.
- Value Source Select the value source (Manual, Beacon ID, or Map Region ID).
- Enter the value, if **Manual** is selected above.

3.4.44 Voice Message

• Voice Messages

In the list, select the predefined voice message(s). Or click the plus button on the right to create a new voice message.

Send to source radio

Select this option so that the predefined voice message(s) will also be sent to the radio that triggered the source event.



3.5 Date and Time Formats

If TRBOnet Server service is running under Local System account, the date and time formats for the %DATE% and %TIME% variables are stored in the Windows registry. If you need to change the date and/or time formats:

- 1. Start *regedit.exe* on the computer running TRBOnet Server service.
- 2. Navigate to the HKEY_USERS\Default User\Control Panel\International registry subkey.
- 3. Double-click the sShortDate (sShortTime) registry entry and set the value to the date (time) format required, then click OK.