

SmartPTT PLUS

Dispatcher User Guide

November, 2015



Table of Contents

1 SmartPTT Dispatcher	6
1.1 SmartPTT Dispatcher Interface	6
1.1.1 Change Layout	8
1.2 Map	9
1.2.1 Raster Map	15
1.2.2 Raster Maps From Database	16
1.2.3 Indoor Tracking	18
1.2.4 Geofences	24
1.2.5 Points of Interest	25
1.2.6 Routes	27
1.2.7 Show Track	29
1.2.8 Animate Track	30
1.2.9 Coverage Map	32
1.3 Event Log	35
1.4 Tools	43
1.4.1 Calls	43
1.4.2 Sound Spectrum	45
1.4.3 Cross Patches	45
1.4.4 Radio Fleet	48
1.4.5 Channels	67
1.4.6 Subscribers	68
1.4.7 Job Tickets	69
1.4.8 Sound Panel	73
1.4.9 Monitoring	75
Monitoring	75
Topology	78
Diagnostics	89
Event Log	90
1.4.10 Lone Workers	90

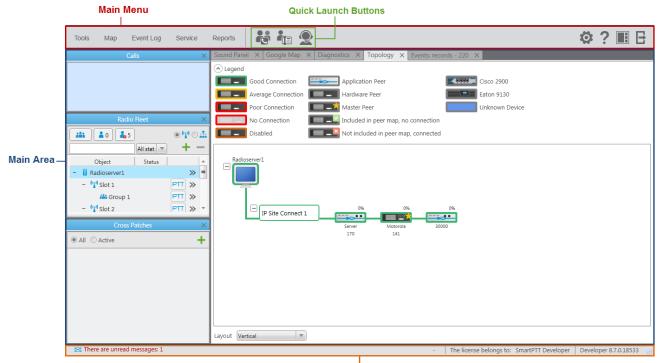
1.4.11 Latest Incoming Calls	91
1.4.12 Notifications	92
1.4.13 System Messages	93
1.4.14 Server Tasks	96
1.4.15 Map Tools	96
Points of Interest	96
Geofences	97
Routes	98
Subscriber Location Panel	100
1.5 Settings	100
1.5.1 Database	102
1.5.2 Licenses	103
1.5.3 General Settings	105
1.5.4 Control Devices	107
1.5.5 Radioservers	109
1.5.6 Operators	114
1.5.7 Statuses	116
1.5.8 Events and Notifications	120
1.5.9 Call Windows	124
1.5.10 Sound	125
1.5.11 Records	133
1.5.12 Positioning Systems	134
1.5.13 Telemetry	137
1.5.14 Categories	143
1.5.15 Dispatchers	147
1.5.16 Telephone Subscribers	152
1.5.17 Telephone Interconnect	155
1.5.18 Job Ticket Statuses	172
1.5.19 Third-Party Equipment	174
1.5.20 Hot Keys	176

1.5.21 Database Auto Backup	181
1.5.22 Rules and Alerts	183
1.5.23 Positioning Rules	191
1.5.24 Lone Worker Rules	198
1.5.25 Subscriber Custom Properties	205
1.5.26 Custom Consoles	209
1.6 Service	218
1.6.1 Radio Check	219
1.6.2 Voice Notifications	220
1.6.3 Deferred Actions	222
1.6.4 Received Files	225
1.6.5 System Information	226
1.6.6 Export Radio Subscribers	227
1.6.7 Import Radio Subscribers	229
1.6.8 Upload to KML	230
1.6.9 Import Connect Plus Logs	232
1.6.10 Save Dispatcher Settings	234
1.6.11 Restore Dispatcher Settings	235
1.7 Reports	235
1.7.1 Report Wizard	236
1.7.2 Radio Activity	238
1.7.3 Subscriber Locations	241
1.7.4 Online Subscribers	243
1.7.5 Monitoring Report	244
1.7.6 Monitoring Log	244
1.7.7 Monitoring Analytics	246
1.7.8 System Usage	248
1.7.9 Lone Workers	250
1.8 User Interface Layout	252
1.8.1 Lock UI Layout	252

1.9 Bridging	253
1.10 Conference Calls	264
1.11 Help	268
1.12 Remote Assistance	269

1 SmartPTT Dispatcher

1.1 SmartPTT Dispatcher Interface



Information Bar

SmartPTT Dispatcher interface can be divided into the following sections:

- 1. Main Menu which also contains Quick Launch Buttons.
- 2. Main Area
- 3. Information Bar

Main Menu

The **Main Menu** bar contains options and commands which allow you to carry out the majority of the functions available in the application.

Quick Launch Buttons provide you a quick access to some functionality of the application. Currently, there are 3 such buttons.

The **Conference Call** button opens the **Conference Call** window where you can hold conference calls. For more information about this function see Conference Calls.

The **Telephone Subscribers** button opens the **Telephone Subscribers** window which allows you to make calls to telephone subscribers from SmartPTT Dispatcher.



The **Dispatchers** button opens the **Dispatchers** window which allows you to make calls to <u>external</u> dispatchers from SmartPTT Dispatcher.

There are also other menu items represented by an icon:

The **Settings** button opens the <u>Settings</u> menu which allows you to configure system parameters, create special rules, which will help you manage workers, connect external third-party devices and so on.



The **Help** button opens the <u>Help</u> menu where you can read the help file, learn about the application or check for updates.



The **UI Layout Settings** button is very useful as it allows the dispatcher to remember the layout of the **Main Area** (the position of opened windows and panels). Thus, next time the dispatcher opens the application, he or she won't need to open the windows all over again. The dispatcher can simply click the this button and select the layout he or she used earlier. For more information see User Interface Layout.



The **Change Operator** button allows you to change the operator. At clicking on this button the dispatch console is restarted, and you can select another operator in the **Authorization** window.

Main Area

The **Main Area** is a central area of the application window and is used for opening functional windows and panels when operating in the application.

Information Bar

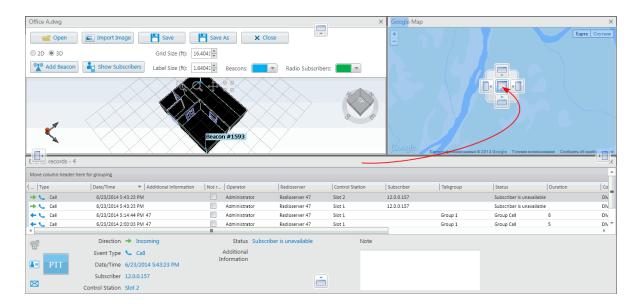
🖂 There are unread messages: 46

The license belongs to:

The **Information Bar** was designed to give the user information about the number of unread messages, the selected subscriber, the owner of the license and the application version. Here you can also see a special icon which notifies about the approaching license expiration date.

1.1.1 Change Layout

There is an ability to adjust the layout of the opened panels in the **Main Area**. In order to do that, click on the tab of the opened panel, drag it to the location where you would like to place it and release. As soon as you start dragging a panel, new icons appear on the screen. The icons represent a new location of the panel on the screen.



The table displays description of the icons.

lcon	Description
	Appears inside a panel, which means that you can either place the panel in any of the four positions beside the panel or insert it as a tab inside the panel.

lcon	Description
	The four standalone icons can be used to place the panel in any position of
	the Main area outside any other panel.

1.2 Map

SmartPTT supports different maps, like Google Map, Open Street Map, vector maps of various formats, raster maps, polish format maps. Together with many useful tools like showing and animating a track, defining points of interest, maps provide the dispatcher with a better control over radio subscribers. You can open the **Call Window** by double-clicking on the radio subscriber displayed on the map, or open the **Action List** by clicking with the right mouse button.

Polish Format Maps

To open a polish format map, expand the **Map** menu in the **Main Menu** bar of SmartPTT Dispatcher and click **Map (Polish format)**. In the opened window select the map file in a MP format.

Google Map

To open the Google Map, expand the **Map** menu in the **Main Menu** bar of SmartPTT Dispatcher and click **Google Map**.

Raster Map

To open a raster map, expand the **Map** menu in the **Main Menu** bar of SmartPTT Dispatcher and click **Raster map > Open map**. In the opened window select the file in a MAP format. To create a map based on a map image, see the <u>Raster Map</u> section.

INGIT Map

To work with INGIT vector maps in SmartPTT Dispatcher, the GWX ActiveX Control application (version 6.1), the registration key (HASP) and INGIT vector maps are required.

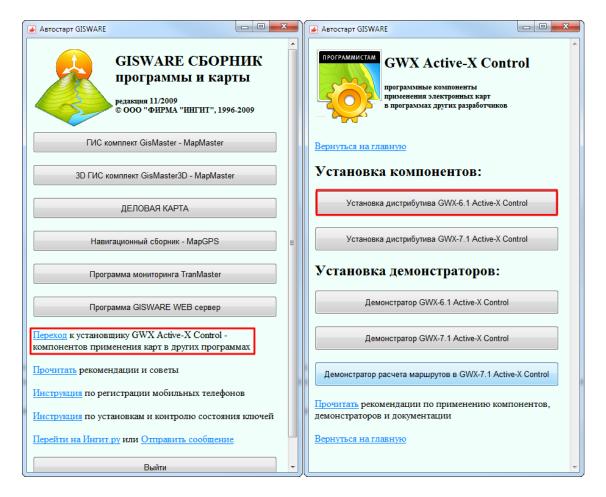
Note: The GWX ActiveX Control software is designed to build INGIT vector maps into independent applications as a unit, which provides mapping service as a part of these applications. GWX ActiveX Control is purchased once

and then allows you to use various INGIT vector maps. Each map must be purchased separately. See the purchase conditions on the INGIT company website (http://www.ingit.ru).

GWX ActiveX Control Installation

Follow these steps to install GWX ActiveX Control:

- 1. Run purchased disk with maps. Insert your HASP into the USB of PC.
- 2. Click Proceed with the installation of GWX Active-X Control.
- 3. Select GWX-6.1 ActiveX Control Installation.



4. In the license agreement window, click **I Agree**.

5. GWX ActiveX Control offers a wizard that will perform the HASP driver upgrade if necessary.

Note: To upgrade the HASP driver manually, download the latest HASP driver installer from the <u>supplier</u> site and follow the instructions provided.

6. Continue to follow any remaining on-screen instructions to install the software. Select the installation

folder. It is recommended to use the default installation directory, or create a folder at the root of the other local drive and name it *GWX61*.

Select the check box that is next to the component that you want to add. Make sure the GWX-6.1
 ActiveX Control check box is selected.

🛃 Выбор устанавливаемых компонентов					
	Выбор устанавливаемых компонентов				
	 Программа "GWX 6.1 Active-X Control" [15 Mb] Карты и сопутствующие справочники Азия и Океания Алматы и окрестности 1:10000 [18 Mb] Астана, версия 2 1:10000 [5 639 Kb] Китай, Монголия, КНДР, Южная Корея 1: Индия, Непал, Шри-Ланка, Бангладеш 1:2 Япония 1:2500000 [2 087 Kb] Кыргызстан 1:100000 [925 Kb] 				
	Выберите карты, которые хотите скопировать на жестки Нажмите кнопку HASP для выделения лицензированны				
	Все Очистить	(Kup)			
	—————————————————————————————————————	56 Mb 40 601 Mb			
	1 1				
<	Назад Далее 🔪 🗙 Отмена 🧔	Помощь			

8. Once the installation is over, run Register GWX ActiveX Control.

When GWX ActiveX Control is installed and the software components are registered, it is possible to work with the maps, allowed by licenses embedded in HASP. HASP must be plugged into the USB of your PC. To open an INGIT map, expand the **Map** menu in the **Main Menu** bar of SmartPTT Dispatcher and click **INGIT Map**. In the opened window select the map file in a CHART format.

Note: If the map failed to load, restart Register GWX ActiveX Control.

MapInfo Map

To set a MapInfo map for SmartPTT Dispatcher, expand the Map menu in the Main Menu bar and click MapInfo

Map > Map Settings. In the **Map Settings** window click **Add** and in the opened window select a map layer – a file in a TAB format. You can add multiple TAB-files and determine the drawing order of the layers using the arrows on the right. To delete a layer, select the TAB-file and click **Delete**.

Map Settings	×
Map Description File:	
C:\Tomsk.spmap	
+ Add - Delete	
C:\Users\surkovasv\Desktop\Kapты\MapInfo maps\Tomsk.TAB	-
Min. Object Size to Show on Map (pixels): 1	
Scale to Draw Layer: 1 : 0	
	-
	Ŧ
Save and Open Save Cancel	

Min. Object Size to Show on Map (pixels) – minimum size of the object displayed on the map in pixels.

Affects the detail level of the displayed map.

Scale to Draw Layer : 1 : – scale factor for a layer. The layer objects will not appear on the map when you are zoomed in or out beyond the specified scale.

In the **Map Description File** field specify the path to the map file. Click **Save** when you are finished. The file will be saved in a SPMAP format. To open the map right after you saved it, click **Save and Open**.

To open a MapInfo map, expand the **Map** menu in the **Main Menu** bar and click **MapInfo Map > Open Map**. In the opened window select the file in a SPMAP format.

Open Street Map

To open the online Open Street Map, expand the Map menu in the Main Menu bar and click Open Street map

> Open Online Map.

To open the offline Open Street Map, expand the **Map** menu in the **Main Menu** bar and click **Open Street Map > Open Map from File**. In the opened window select a map file in an OSM format.

To open the Open Street Map from local server, expand the **Map** menu in the **Main Menu** bar and click **Open Street Map > Settings**. In the **Data Source for OpenStreetMap Online** field specify the path to the local server. If you want to get back to the default address, clear **Data Source for OpenStreetMap Online** and click **OK**.

OpenStreetMap Settings	×
Data Source for OpenStreetMap Online:	http://elcom.openstreetmap.org/
ОК	Cancel

MapPoint Map

To work with MapPoint maps in SmartPTT Dispatcher, you must first install Microsoft MapPoint on this PC. Europe or North America version depends on required target coverage area.

Note: All versions of Microsoft MapPoint show a simple outline map of the world when zoomed and scrolled outside of their target coverage area. National borders and a large number of cities are shown outside the target coverage area. For the target coverage area, road detail and internal subdivisions such as provinces, parishes, counties, states are shown.

To open a MapPoint map of Europe or North America, expand the **Map** menu in the **Main Menu** bar of SmartPTT Dispatcher and click **MapPoint Maps > MapPoint "Europe"** or **MapPoint "North America"**.

To open a MapPoint map file created in Microsoft MapPoint earlier, expand the **Map** menu in the **Main Menu** bar of SmartPTT Dispatcher and click **MapPoint Maps > Open MapPoint Map File**. In the opened window select the map file in a PTM or PTT format.

How to Use Maps

To move the map press and hold the left mouse button, and move where necessary. Or use arrow keys to move, this is applicable to the offline map.

To zoom in scroll the mouse wheel forward. To zoom out scroll the mouse wheel back. You can also use the keys "+" and "-" to zoom in and zoom out.

Online maps allow you to display the object address. To do this, right-click at any place on the map—the object address will be shown. This feature is supported by online maps only (Google Map and Open Street Map). Offline maps provide more opportunities for improvement. Right-click on the offline map. At that, a context menu appears.



Using this menu you can:

- 1. Search on the map
- 2. Select elements to be labeled on the map.
- 3. Change the map's appearance.
- 4. Select the map's rendering type.

1.2.1 Raster Map

To set raster map settings, expand the **Map** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Raster Map**. At that, the configuration window is displayed for creating geographic raster maps based on an image.

Configuration				×
Raster Maps Create Raster Maps from 3	Image File	5	omartF	
Select Image of Map:				
Map Parameters: Width	1: -	Hei	ight: -	
Points				
Point:	Longitude:	Latitude:	X:	Y:
1				
2				
3				
4				
				Open
Help			Cai	ncel Finish

To create a map, select the map image using the browse button .

On the selected map image mark reference points (crossroads, places of interest, etc.) with the help of Google Earth and calculate their coordinates. Coordinates are calculated in the following way:

Longitude and Latitude = Degree + ((Minute * 60) + Second) / 3600 (this s a conversion from degrees, minutes and seconds into normal values), where X and Y are corresponding coordinates (in pixels) on the image.

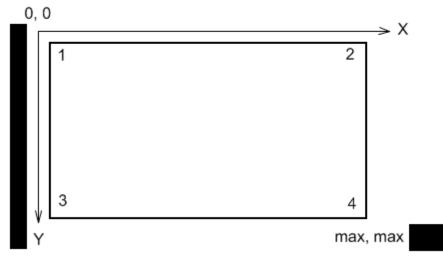
The longitude corresponds to the horizontal coordinate (X) and the latitude corresponds to the vertical coordinate

(Y). The longitude value can range from -180 degrees (the most distant longitude to the west from the Greenwich Meridian set to 0) to +180 degrees (the most distant longitude to the east from the Greenwich Meridian). In fact - 180 degrees and +180 degrees are the same longitude. The latitude value can range from -90 degrees (the South Pole) to +90 degrees (the North Pole).

Longitude and Latitude coordinates, already converted into normal values and corresponding to the subscriber's current locations, are also shown in the subscriber's **Call Window**.

You need four points. Point selection criteria are:

- Point 1 is located as close as possible to the top left image corner.
- Point 2 is located as close as possible to the top right image corner.
- Point 3 is located as close as possible to the bottom left image corner.
- Point 4 is located as close as possible to the bottom right image corner.



After all coordinates are entered, click **Finish**. In the opened window set the raster map name and click **Save**. To edit or check object locations in the created raster map, click **Open**. Locate the raster map in the window which is displayed.

Note: The created raster map files and the image map file must be in the same folder.

1.2.2 Raster Maps From Database

SmartPTT Dispatcher allows you to work with large raster offline maps with a size of more than 5000x5000 pixels. The functionality is used for displaying SmartPTT system objects located at a long distance from each other. This is achieved by dividing the original raster image into pieces and storing them in the database. To create the database for the raster map, send your query to our <u>technical support service</u> and attach the raster map image in a JPEG format with the list of geographical positions on the map (e.g., in a TXT or MAP format). Geographical positions are necessary to anchor image points to the geographical coordinates. The list of geographical positions must contain four points at the corners of the map. In response to your request our technical support specialist will provide you the database backup of the map in a BAK format.

Note: If the attachment(s) size exceeds the limit of 50 MB, split the file to several small files using the archiver or file manager, or upload it to the file hosting service. In the latter case include a link to the file in your query message.

Then restore the database from the received backup. For more information see <u>How to restore from SmartPTT</u> <u>Dispatcher database backup</u>.

After the database is restored, expand the **Map** menu in the **Main Menu** bar and click **Raster Map From Database**. Click **Scan Database** in the opened window, and you will see a list of all available maps stored in the databases of the selected server (see Database Settings, the **Database Server Name** field).

Raster Maps From Database			×
- Delete			
Name	Database	Show	-
Office 1	Office 1	~	
Office 2	Office 2		
Office 3	Office 3	~	
			*
Scan Databases	Save	Cancel	

18

Name – name of the map stored in the database. To change the name of the map, double-click on the name in the **Name** field and enter a new name.

Database – name of the database.

Show – if the check box is selected, the map is available in the **Map** menu. To open the map, expand the **Map** menu and select the required map under **Raster Maps From Database**.

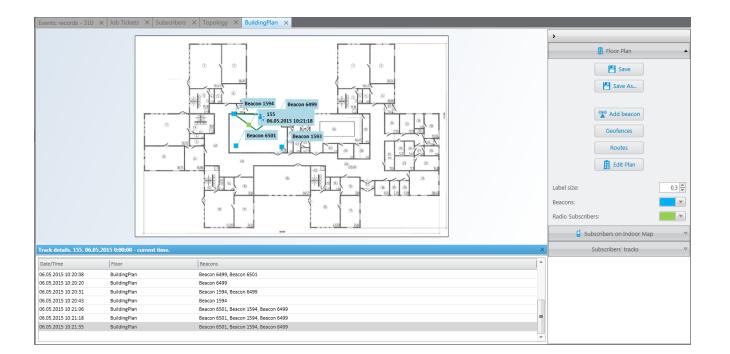
MapPoint Maps	•	
Raster Maps From Database	•	Office 1
Geofences		Office 2
Points of Interest		Office 3
Routes		Settings

To remove the map from the list, select the map and click **Delete**. To save your changes, click **Save**. If you want to undo the last changes, click **Cancel**.

1.2.3 Indoor Tracking

Big organizations with huge premises require constant control over their employees' displacement inside buildings. For this purpose Indoor Tracking system was implemented. Indoor Tracking system allows getting data from special beacons and transmitting it to SmartPTT Dispatcher or any other client application using API. Contact our technical support (<u>http://support.smartptt.com/hc/en-us</u>) for SmartPTT Client API documentation. Currently, SmartPTT system supports two products:

- Kilchherr option boards (K-TERM 44) with special beacons (K-TERM 70IC Beacon Transmitter).
- Blufi option boards (RF800) with special beacons (Connect-RTLS RF800).



Note: The Indoor Tracking feature is available only for radios with special option boards (see above). Also, it is necessary to configure special settings in SmartPTT Radioserver Configurator and SmartPTT Dispatcher. The required settings for SmartPTT Radioserver are described in the **Indoor Tracking** section of the SmartPTT Radioserver Configurator help file.

To enable Indoor support for a radio subscriber in SmartPTT Dispatcher, open the **Properties** window of the radio subscriber and in the **Location** tab select **Indoor Tracking**.

Properties:	155		
General	Location	Custom	
- GPS-			
Update lo	cation:		
with tir	me interval, s	600	
🗌 with di	stance interva	al, ft 328	
on GPI	O pin status o	hange	
on em	ergency		
	r Tracking		
	-		
Update	e Interval, s	600	
		Save	Cancel

To create a building plan, expand the **Map** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Indoor Tracking > New**. In the **Floor Plan** window you can create a plan of the building floor or of a multi-storey building.

Floor Plan		×
Building Name OEZ	▲ Up ▼ Down	
Floor	File Path	
1	D:\Office A.dwg	
2	D:\Office1.dwg	
3	D:\Office2.dwg	
4	C:\Downloads\1391143375506.dwg	
	Cancel	Save

Building Name – a name of the building plan.

To add a floor of a building, click the **Add** button. To remove a floor of a building, select it from the list and click **Delete**. To change the floor order inside the building, use the **Up** and **Down** buttons.

Floor – a name or an ordinal number of a floor in a building. To change the name of the floor, double-click the old name in the **Floor** field and type a new value.

File Path – a path to the floor plan file. You can use a floor plan in a DWG format or a raster image. To attach a plan to the floor, click the button and select the required file.

Note: DWG (DraWinG) is a binary file format used for storing two and three dimensional design data and metadata. It is the native format for several CAD packages including nanoCAD, AutoCAD, IntelliCAD.

Save – you can save the floor or the building plan changes to a SPLAN or SPLANX (archive) format.

To open a building plan, expand the **Map** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Indoor Tracking > Open**. To control more than one building at the same time in SmartPTT Dispatcher, you can open several **Indoor Tracking** panels.

Building Floor Plan

Save – you can save the building plan changes to a SPLAN or SPLANX file.

Save As – you can save a copy of the building plan with another name.

View Mode (**2D** or **3D**) – a mapping of the building plan in a two- or three-dimensional form. This feature is available only for floor plans in a DWG format.

Add Beacon – you can add a beacon to the building plan. In the Beacon Settings window specify Beacon Number, which must correspond to the Beacon ID, specified in the beacon settings. Place the new beacon on the map by clicking the left mouse button. To remove the beacon from the plan, double-click on the beacon and in the opened window click Delete.

Geofences – allows you to unite the existing beacons to control the radio subscriber's moving about the building. These geofences are used in Indoor positioning rules.

Routes – allows you to create routes for radio subscribers. These routes are used in Indoor positioning rules.

Edit Plan – opens the **Floor Plan** window that allows you to change the floor name, the floor order inside the building, or the floor plan file.

Grid Size – the grid size of the building plan. For building plans based on raster images, the **Grid Size** option is not available.

Label Size – the size of the radio subscriber and beacon labels displayed on the building plan.

Beacons – select a color for a beacon label.

Radio Subscribers – select a color for a radio subscriber label.

Subscribers on Indoor Map – a list of radio subscribers who support the <u>Indoor Tracking</u> feature. Select the check box, to display the radio subscriber's label on the building plan.

Subscribers' tracks – here you can record tracks of radio subscribers and watch them in real time, or check old records. To watch the radio subscriber move about the building, click **Add Track**. In the opened window specify the following parameters:

- Subscriber the name or radio ID of the radio subscriber.
- **Source** the radioserver whose data will be used for building a track. If the drop-down list is empty, check that Event log is created and activated in SmartPTT Radioserver Configurator.
- Color the color of the future subscriber's track.
- Start Date start time and date of the track record.
- End Date end time and date of the track record. To watch the radio subscriber moving in real time,

22

select Update in real time.

Show All - shows tracks of all the radio subscribers from the Subscribers on Indoor Map list. You can see

details of each track. To open **Track details**, click

~	155	<u> </u>	-
	05.05.20	15 0:00:00 - 06.05.2015 23:59:59	
		« ».	

Clear All – removes all the track records displayed at the moment.

The following buttons allow user to control the way the building plan is displayed:

Button	Description
Q	Zooming up the marked area of the building plan. Click the button, then left-click on the building plan and mark the necessary area.
Q	Zooming up or zooming out the entire building plan. To zoom in, click the button and withholding the button pressed move the mouse pointer up. To zoom out – move the mouse pointer down. Also, use the wheel button to change the scale of the building plan.
¢])	Moving the building plan. Click the button and withholding the button pressed relocate the plan.
8 9 8	Fits the scale of the building plan to the size of the Indoor Tracking Overview Map panel.



Available only for three-dimensional building plans. Allows changing the angle of the displayed

building plan.

1.2.4 Geofences

Geofences help dispatchers to keep an eye on the radio subscribers. A dispatcher can define the area of the geofence on his or her own and attach GPS rules to it.

You can add a geofence in two ways:

1. By drawing a geofence on the map. For more information see Geofences.

2. By specifying coordinates of the geofence. You will learn about it in this article.

To add a geofence by specifying its coordinates, expand the **Map** menu in the **Main Menu** bar of SmartPTT Dispatcher and click **Geofences**. In the opened window you can add a new geofence or modify settings of the existing one – name, color, and whether it should be displayed on the map:

Geofences	×
🕂 Add 💉 Edit 🛛 — Delete	
Name	Color Show
Zone A	
Zone B	v
Zone C	v
	T
	Save Cancel

Name – the geofence name.

Color – the geofence color on the map.

Show – enables the option to display the geofence on the map.

Note: Whether the geofence is displayed on the map or not, the rules set for the geofence are enabled. To assign a rule to the geofence, go to <u>Positioning Rules</u>.

Add the zone-forming points of the new zone. To do that, click **Add** in the **Geofences** window. To edit the zone-forming points, select the zone and click **Edit**.

24

Specify a pair of longitude and latitude values for a zone-forming point. To edit point coordinates, place the cursor into the required field and type new value. You can't create a zone with less than 3 longitude and latitude pairs. To delete the points, click **Delete**.

Latitude	Longitude	-
85.49013581085	84.429184018048	
85.89082194814	83.993197409175	
85.12402182413	84.532904704723	
0	0	

To delete a geofence from the list, select the geofence and click **Delete**.

1.2.5 Points of Interest

Points of interest (POI) identify location of special interest which are shown on the map and can be quickly found in SmartPTT Dispatcher. A point of interest consists of the point name, location coordinates and the picture. To add a point of interest, expand the **Map** menu in the **Main Menu** bar of SmartPTT Dispatcher and click **Points of Interest**.

The **Points of Interest** window allows you to change the name of the existing point of interest and whether it should be displayed on the map. To modify the existing point of interest, select it and click **Edit**. To delete the point of interest, select it and click **Delete**.

pints of Interest	2
🕇 Add 🖌 Edit 🛛 🗕 Delete	
Name	Show
Varehouse A	\checkmark
Varehouse B	~
Office A	*
	Ŧ
	Save

To add a new point of interest, click Add.

Point of interest	×
Name	Warehouse_05
Latitude	56.5072285661967
Longitude	84.9744415283203
Picture	D:\Icons\Warehouse_05.png
Show on Map	V
	OK Cancel

Name – name of the point of interest.

Latitude – latitude coordinate of the point of interest.

Longitude – longitude coordinate of the point of interest.

Picture - the image which represents the point of interest on the map. Maximum image size of the point of

interest is 64×64 pixels. Images of the bigger size are be automatically cropped to 64×64.

Show on Map – enables the option to display the point of interest on the map.

You can also create a point of interest from the **Tools** menu. For more information see **Points of Interest** panel.

1.2.6 Routes

The route is a polyline connecting key points of the network coverage area. Subscriber location near the key points is identified by the specified radius of the route and can be summarized in the <u>Subscriber Location Report</u>. To specify the route parameters (Color, Radius, Coordinates), expand the **Map** menu in the **Main Menu** of SmartPTT Dispatcher and click **Routes**. In the opened window you can add a new route or modify settings of the existing one.

outes				>
🕇 Add 🖌 Edit 🗕 Delete				
Name	Color	Radius	Show	1
Route A		100	~	
Route B		100	~	
Route C		20	\$	
				Ŧ
			OK	

Name – the route name.

Color – the route color on the map.

Radius – the allowed deviation from the route.

Show – enables the option to display the route on the map.

To add a new route, click Add. To modify route settings, select a route from the list and click Edit.

In the **Route Coordinates** window specify the route name, the route line color, the acceptable deviation from the route for the radio subscriber, coordinates of the route points and its properties. **Key Point** is used for singling out particular places of the track on the map. You can give a name to each key point to be displayed on the map. The key points are represented by small white squares on the map. Select **Show on Map** to display the route on the map.

one Coordinates				3
Name: Ro	ute A			
Color:				
Route Radius: 10	0 (m)			
Show on Map: 🔽				
🕇 Add 🛛 🗕 Delet	e			
Latitude	Longitude	Key Point	Name	4
56,4952310426744	84,884523976125		Key point1	
56.4918645999976	84.8913874504658		Key Point 2	
56.4917560050725	84.8913874504658			
56.4879008852329	84.8953094358034			
56.4876836953828	84.8957996839706			
56.4886610497083	84.8980548255397		Key Point 3	
56.4937107137236	84.8936425920349			
56.4918645999976	84.8910933015655			
56.4919188974601	84.890995251932			
56.4918645999976	84.8910933015655			
	ОК	Cancel		
	UK	Cancel		

To delete the route, select it from the list and click **Delete**.

The route example:



You can also create a route from the **Tools** menu. For more information see <u>Routes</u> panel.

1.2.7 Show Track

GPS tracking is very helpful for seeing real-time positions of the radio subscribers you are tracking. In addition,

the Show Track feature allows the dispatcher to see where a radio subscriber was during a particular time period.

Note: By default, GPS coordinates are not saved in the database. If you want to save GPS coordinates, open the **GPS Settings** window in the **Settings** menu and select **Save GPS Locations in Database**.

Track Draw Param	eters X
Source	Dispatcher 🔹
Subscriber	•
Color	
Line Thickness:	Middle
Start Date:	12.02.2013 00:00 15
End Date:	12.02.2013 23:59
	OK Cancel

Source – defines the source, which database will be used for drawing the track. If *Dispatcher* is selected, the data is taken from the local database. Apart from *Dispatcher*, any available radioserver can be chosen as a data source. In that case all data is taken from the database of the chosen radioserver.

Subscriber – defines subscriber whose track is to be displayed.

Color – the track color on the map.

Line Thickness – thickness of the track line on the map.

Start Date, End Date - the time frame of the track.

1.2.8 Animate Track

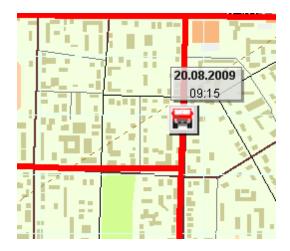
To animate displayed tracks, expand the **Map** menu in the **Main Menu** bar of SmartPTT Dispatcher and click **Animate Track**.

The Track Animation window opens.

Track Animation					×
Track Color Dista	nce (m)				
					=
► # H	44 66			window automa k is drawn	ticallly
Track Details	5]
Date/Time	Distance (m)	Stop Duration	Speed (km/h):	Accuracy (m)	-
					*

	Run track animation
	Stop track animation
	Pause
44	Run track animation slower
	Run track animation faster

During track animation you can slow it down or make it faster. The system remembers the last track animation speed and uses it during next track animation.



To clear the tracks shown on the current map, expand the **Map** menu in the **Main Menu** of SmartPTT Dispatcher and click **Clear Shown Tracks**.

To clear the shown tracks on all maps, expand the **Map** menu in the **Main Menu** of SmartPTT Dispatcher and click **Clear Shown Tracks on All Maps**.

1.2.9 Coverage Map

Coverage maps give you information about signal strength (RSSI) of a particular radio in a particular place. To build a coverage map for a radio subscriber, make sure that he has GPS enabled, and there is GPS data in the database.

To compose a coverage map	, click Map >	Coverage map >	Show.
---------------------------	---------------	----------------	-------

Coverage Map Settings	×
 All subscribers Select subscribers Select categories 	 ✓ David ✓ John ✓ Mary ✓ Michael ✓ Peter
Source:	Dispatcher
Grid (m):	500 💌
Start date:	02.10.2015 0:00:00
End date:	02.11.2015 23:59:59 15
ОК	Cancel

All subscribers: Select this option to build a coverage map for all the subscribers on the list.

Select subscribers: Select this option to build a coverage map for the selected subscribers only.

Select categories: Select this option to build a coverage map for all the subscribers of the selected category.

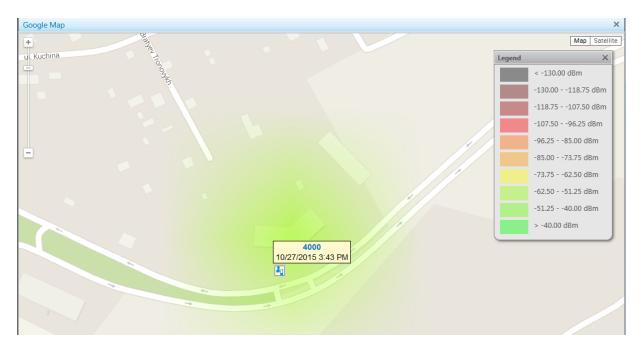
Source: Defines the source, whose database will be used for drawing the track. If *Dispatcher* is selected, the data is taken from the local database. If a radioserver is selected, the data is taken from the database of the chosen radioserver.

Grid: Defines radius for checking signal strength.

Start date / End date: Defines over which period the data will be used for the map.

The example of the coverage map:

Мар



The **Legend** window identifies the colors used for different RSSI ranges in the coverage map. You can adjust the legend on your own, change colors for different RSSI ranges, add and delete RSSI ranges. To do it, click **Map** > **Coverage map** > **RSSI ranges**.

Coverage Map	Settings	×
+ Add •	- Delete	🔇 Reset
From, dBm	To, dBm	Color
-00	-130	T
-130	-118.75	T
-118.75	-107.5	•
-107.5	-96.25	V
-96.25	-85	
-85	-73.75	•
-73.75	-62.5	
-62.5	-51.25	
-51.25	-40	•
-40	+∞	•
	OK	Cancel

To clean the map, select **Map** > **Coverage map** > **Hide**.

1.3 Event Log

The **Event Log** allows you to see what is going on in the system. The event log displays status and event messages from SmartPTT system, and other useful information.

To open the event log, click Event Log in the Main Menu bar and then All Events. To tune Event Log settings,

see Event Log.

You can limit the number of displayed data by setting a period of time. To do this, click **Events for Period** in the **Events** menu. The **Period** dialog is displayed. Specify start and end date for entries displayed in the log.

Period	×
Start Date: 💌	05.09.2012
End Date: 🔽	21.12.2012 15
ОК	Cancel

To display only not read messages in the log, select Unread Messages.

The system event log appears as follows.

Events:	records cou	unt - 570 🗙					
Move col	umn header hei	re for grouping					
D. Type		Date/Time	•	Additional I	Not re	Operator	Radioserver
+ 1	Registration	12/21/2012 1	2:31:26			Administrator	valera
→ 🛔	Registration	12/21/2012 1	2:31:26			Administrator	valera
+ 1	Registration	12/21/2012 1	2:30:29			Administrator	valera
→ 🛔	Registration	12/21/2012 1	2:30:29			Administrator	valera
→ 1 .	Registration	12/21/2012 1	2:30:06			Administrator	valera
→ 📞	Call	12/21/2012 1	2:29:56	11		Administrator	valera
→ C	Call	12/21/2012 1	2:29:31	11		Administrator	valera
→ 🛔	Registration	12/21/2012 1	2:27:29			Administrator	valera
→ 📞	Call	12/21/2012 1	2:26:45	11		Administrator	valera
→ 📞	Call	12/21/2012 1	2:26:24	11		Administrator	valera
→ C	Call	12/21/2012 1	2:26:11	11		Administrator	valera
→ 📞	Call	12/21/2012 1	2:24:02	11		Administrator	valera
→ C	Call	12/21/2012 1	2:23:42	11		Administrator	valera
← C	Call	12/21/2012 1	1:55:01			Administrator	Radioserver1
+ 1	Registration	12/21/2012 1	1:47:57			Administrator	Radioserver1
→ 🛔	Registration	12/21/2012 1	1:14:01			Administrator	Radioserver1

The event log of SmartPTT Dispatcher contains the following columns:

\checkmark	Туре
\checkmark	Date/Time
\checkmark	Additional Information
\checkmark	Not read
\checkmark	Operator
\checkmark	Radioserver
\checkmark	Control Station
\checkmark	Subscriber
\checkmark	Talkgroup
\checkmark	Status
\checkmark	Duration
\checkmark	Connection Type
\checkmark	Repeater IP
\checkmark	Receiver
\checkmark	Record
\checkmark	Lone Worker
1	Note

By default, all the columns are displayed in the log. To hide or show columns in the log, right-click on the menu with column names and select the necessary columns.

Column Name	Description				
	Shows whether the event is incoming or outgoing. You can tell the direction by the				
Direction	arrows: the green one stands for the incoming event, and the blue one-for the outgoing				
	event.				
	Shows the type of the event. It can be a call, registration, a block command, a				
Туре	message, change of a status, an alarm, a telemetry command, a job ticket, enabling or				
	disabling the lone worker mode and other.				
Date/Time	Shows the date and time of the event.				
Additional	Additional information includes: text messages, titles and description of tasks, initiators				
Information	and contributors of group calls, and other.				
Not Read	Shows if the message was read or not.				
Operator					
This column exists in	Shows the operator of the dispatch console who participated in the event.				
the event log of the	chews the operator of the disputer console who participated in the event.				
dispatch console only.					
Dispatcher	Shows the operator of the dispatch console who participated in the event.				

Column Name	Description					
This column exists in						
the event log of the						
radioserver only.						
Radioserver	Shows the name of the radioserver used in the event.					
Channel	Shows the channel on which the event was registered.					
Subscriber	Shows the subscriber who can be a source or target in the event. Here you can also					
Gubsenber	see all the subscribers who talked in a group call.					
Talkgroup	Shows the talkgroup which participated in the event.					
Status	Shows the status of the event ("Message delivered", "Power down", etc.)					
Duration	Shows how long the event lasted in seconds.					
Record	Shows if you can play the record or not.					
Connection Type						
This column exists in	Shows the connection type of the event. It can be IP, PBX and DMR.					
the event log of the						
dispatch console only.						
Repeater IP						
This column exists in	Shows the IP address and port of the repeater which was used.					
the event log of the						
dispatch console only.						
Destination	Shows the radio ID or name of the target radio subscriber or talkgroup.					
Lone Worker	Shows if the lone worker profile is assigned to a radio subscriber.					
Note	Contains the text which the dispatcher added to a record.					

You can filter the event log by any of these columns. You can also filter the event log by the **Not Read** column by clicking on "There are unread messages: n" in the **Information bar**.

38

Dispatcher - Adminis	strator												×
	Мар	Event Log	View	Settings	Se	rvice	:	Reports	Help			2 2 2 5 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
	H				44	Eve	ents:	records - 452	×	Monitoring	× .	Job Tickets	×
						Mo	ve co	lumn header her	re for gi	rouping			
		Calls			▼		Тур	P	Di	ate/Time	_	Not read	A 7
										5/29/2014 3:22	2:08 PM		1.5
						-		Message		5/29/2014 3:21		_	
						+		Message		5/29/2014 3:21	L:26 PM	4	
						+		Message		5/29/2014 3:20):57 PM	1	
						+	×	Message		5/29/2014 3:20):36 PM	4	
						+	\bowtie	Message		5/29/2014 3:20):16 PM		
						+	\bowtie	Message		5/29/2014 3:19	9:50 PM		=
						+	\bowtie	Message		5/29/2014 3:19			
						-	\bowtie	Message		5/29/2014 3:19			_
						+	\bowtie	Message		5/28/2014 4:55	1000		
		Sound Spectru	m		T		\bowtie	Message		5/28/2014 4:55			
								Message		5/28/2014 4:55 5/28/2014 4:54			
					I			Message	1.00	5/28/2014 4:54 5/28/2014 4:54			
								Message		5/28/2014 4:51		_	
					Ŷ		_	Message		5/28/2014 4:51		_	_
	Or	line Subscriber	'S		•		/	III		.,,			•
Objec	t	Мар	Status		-		2			Direction	Inc	coming	
둸 Томский оф	фис			X	>				E	Event Type	🛛 м	essage	
	Of	fline Subscriber			V			PTT		Date/Time	5/29/2	014 3:22:08	РМ
Object		Map Sta	tus						S	Subscriber 1	164482	250	
Alex		🖂 (pty)	PTT >	> -	\boxtimes]		Contr	ol Station	Slot 2		
All statuses				- + 🖊	` —								•
🖂 There are unr	ead mes	sages: 31											

Click on any column name, so the log sorts its contents according to this column content. You can filter the content displayed in the log using filters.

To group the log entries, click on the column title and drag it to the area labeled as "*Move column header here for grouping*".

Events: re	cords count -	10 ×							
Туре						k		Subscriber	-
: Type	2	Date/Time	Additional Information	Not r	Operator	Radioserver	Control Station	Subscriber	
Type:	Call (8 items)								
→ €	Call	6/24/2013 4:39:18 PM			Administrator	Radioserver_224	Slot1	95	
- + 📞	Call	6/24/2013 4:39:21 PM	123		Administrator	Radioserver_224	Slot1	123	
- + 📞	Call	6/24/2013 4:39:31 PM			Administrator	Radioserver_224	Slot1	123	
- + 📞	Call	6/24/2013 4:39:33 PM			Administrator	Radioserver_224	Slot1	5	
- + 📞	Call	6/24/2013 4:39:36 PM			Administrator	Radioserver_224	Slot1	95	
- + 📞	Call	6/24/2013 4:39:37 PM	123		Administrator	Radioserver_224	Slot1	123	
- + 📞	Call	6/24/2013 4:39:56 PM			Administrator	Radioserver_224	Slot2	123	
	Call	6/24/2013 4:40:23 PM			Administrator	Radioserver_224	Slot2	95	
Type:	Registration (2 in	tems)							
+ 1	Registration	6/24/2013 4:39:27 PM			Administrator	Radioserver_224	Slot1	95	
-									

If you want to have particular columns to be always seen in the log regardless of the scroll position, use the special element in the column titles. Just drag it after the column you want to be always there.

Eve	Events: records count - 690 \times									
Mo	Move celumn header here for grouping									
(1).	Туре	2	Date/Time	Not read	Operator	Radiose				
-		Registration	11/01/2012 15:33:2	7	Administrator	Julia				
-		Registration	11/01/2012 15:32:5	4	Administrator	Julia				
-	e.	Call	11/01/2012 15:12:4	7	Administrator	Julia				
+		Registration	11/01/2012 15:11:3	6	Administrator	Julia				
•		Registration	11/01/2012 15:11:3	0	Administrator	Julia				
-	e.	Call	11/01/2012 15:10:5	3	Administrator	Julia				
-	e.	Call	11/01/2012 15:04:1	4	Administrator	Julia				
-	e.	Call	11/01/2012 15:04:0	0	Administrator	Julia				

To listen to audio records of the calls, select the call in the event log and click the **Play Selected Records** button



Note: To enable recording of calls, go to Settings and select Records. There select Record Calls.

Operators	Мар	Event Lo	og View	Settings	Se	ervice	Reports	Help					
						Even	ts: records - 481	X Mor	itoring 3	× Job Tickets ×			
		Call	c		~	Move	column header he	re for groupir	g				
		Call	5		- 11	1	Vpe	Date/Ti	ne	 Not read 	Operator	Control Statio	n
	Iministrator		Alex	12:42: PM	25	+	ARS		014 12:42:0		Administrator	Slot 2	
Ad	iministrator	_	Alex	00:26	-		ARS		014 12:42:0		Administrator	Slot 2	
ot 1				00:20)	l i i	Call		014 12:41:0		Administrator	Slot 1	
••				12:42:	19	-	Call		014 12:40:1		Administrator	Slot 1	
ĥ	89	\rightarrow	Group 1	PM	_	 + 7	ARS	6/2/2	014 12:40:1	5 PM	Administrator	Slot 1	
ot 2				00:07	7 =	l e li	ARS	6/2/2	014 12:40:1	5 PM	Administrator	Slot 2	
				12:42:	04	-	Call	6/2/2	014 12:40:0	6 PM	Administrator	Slot 1	
ĥ	89	\rightarrow	Group 1	PM		l → [/	ARS	6/2/2	014 12:40:0	5 PM	Administrator	Slot 1	
ot 2				00:07	7	•	ARS	6/2/2	014 12:37:1	2 PM	Administrator	Slot 2	
12		_		12:41:	78 🔻	→	ARS	6/2/2	014 12:37:1	1 PM	Administrator	Slot 2	
•				12.41.		→	ARS	6/2/2	014 12:37:1	1 PM	Administrator	Slot 1	
		Sound Sp	ectrum			+ 1	🚤 Call	6/2/2	014 12:36:0	3 PM 📃	Administrator	Slot 1	
					ats	→ i	ARS	6/2/2	014 12:35:4	B PM	Administrator	Slot 1	
					1	+	ARS	6/2/2	014 12:35:4	7 PM	Administrator	Slot 1	
					٥	+	ARS	5/29/	2014 5:35:3	9 PM	Administrator	Slot 2	
						+ 1	AR	5/29/	2014 5:32:2	9 PM	Administrator	Slot 2	
		nline Subs			•	→ 1	ARS	5/29/	2014 5:22:2	D PM	Administrator	Slot 1	
	Object	M	lap Status		_	I → I	🖕 Call	5/29/	2014 5:19:1	2 PM	Administrator	Slot 2	
🐻 Томск	ий офис				» 🛓	→ i	ARS	5/29/	2014 5:17:1	D PM	Administrator	Slot 2	
						→ v	Call	5/29/	2014 5:16:5		Administrator	Slot 2	
		ffline Subs			•								•
Obje	ct	Мар	Status		_			Dire	ction 🗲	Outgoing		Status Private	Call
1			(empty)	PTT 3	>>	1						Additional	cun
89			(empty)	PTT 3		3	0	Event	Type 📞	Call		Information	
0.9			(empty)	P11 4	~		PTT	Date,	Time <mark>6/</mark> 2	/2014 12:36:03 PM			
Alex			(empty)	PTT 3	>>			Subso	riber Ale	x			
Брига	100		(empty)	DTT	· ·			Control St	ation Cla	+ 1			
statuses				-+/	r			contror st					

The Play Records window for selected records opens.

Play Record	ls					×
Direction	Date	Control Station	n Subscriber	Talkgroup	Status	Duration
+	6/2/2014 12:36:03	PM Slot 1	Alex		Private Call	32
					_	
			00:02.500 / 00:14	$\stackrel{\wedge}{\rightarrow}$	i 🕩 🗕	

After the record playback window opens, selected records are reproduced automatically, starting from the earliest date.

Player buttons: Start Playback plays the selected record and all the records of the list without stopping. di. Pause Playback pauses playback of the current record. Clicking the Start Playback button resumes playback of the record from the place of suspension. Stop Playback stops playback of the current record. Clicking the Start Playback button enables playback of the record from the beginning. Return to Previous Record plays the previous record after the current one. Go to Next Record plays the following record after the current one. Settings: Play All Records enables the mode of all records reproduction in turn. Playback is controlled by the previously described buttons. Replay enables the mode of replaying the current record or all the records in turn if the Play All Records mode is activated. Button E opens a subscriber call window. Button opens a window for message sending.

Opening Radioserver Event Log

Depending on SmartPTT system configuration the event log can be saved either on the dispatcher side or the server side, or both.

To open the event log saved at the radioserver:

1. Open the radioserver Action List and select Show Radioserver Event Log.

15

15

ОК	Cancel
End Date: 💌	21.12.2012
Start Date: 🗸	05.09.2012

Period

2. Select the **Start** and **End Dates** to show events of the period. The **Radioserver Event Log** is displayed in the same way as the **Dispatcher Event Log** in a separate tab.

To make subscriber radio activity report based on the radioserver data, select **Create Radio Activity Report**. In the opened window specify the period of time, grouping, a file to save the report and click **OK**.

1.4 Tools

From the **Tools** menu you can open all the panels used in SmartPTT Dispatcher.

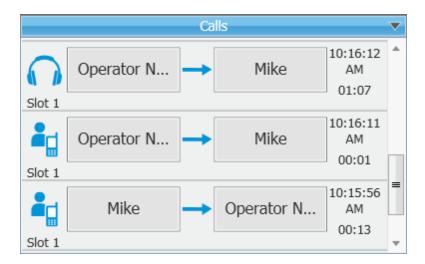
These are the following panels:

- Calls panel displays the ongoing call activity and call history in the radio network.
- Sound Spectrum panel allows you to monitor and adjust the signal volume.
- <u>Cross Patches</u> panel allows you to connect talkgroups from different frequency bands or from different network types dynamically.
- Radio Fleet panel displays a list of radio subscribers registered in the system.
- Subscribers panel for quick access to the subscribers.
- Job Tickets panel from where you can create and supervise job tickets.
- Sound Panel from where you can manage the sound volume of the selected subscribers and slots.
- Lone Workers panel to show lone workers' status, for example, that a lone worker did not call for a longer period than expected, etc.
- Latest Incoming Calls panel, which gives you information of the recent voice calls made.
- Notifications panel to get information about the alarms configured by the dispatcher.
- System Messages panel, which displays errors, disconnection of the radioserver, etc.
- Server Tasks panel to display server tasks in the background
- Map Tools contains all the available map tools of the dispatch console: <u>Points of Interest</u>, <u>Routes</u>, <u>Geofences</u>, <u>Subscriber Location</u> panels.
- <u>Custom Console</u> panel created by the SmartPTT dispatcher to manage subscribers, talkgroups or control stations.

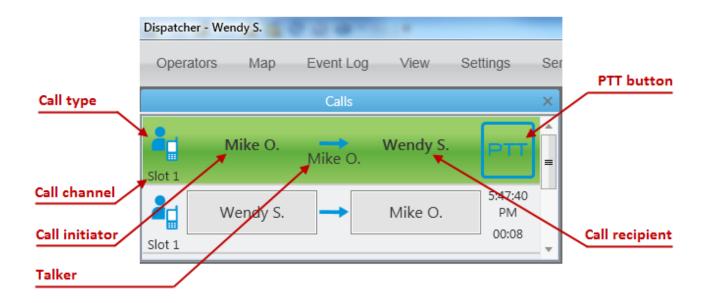
1.4.1 Calls

The **Calls** panel displays the ongoing call activity and call history in the radio network.

The first time you install SmartPTT, the **Calls** panel opens automatically. The panel can also be opened or closed manually. To do this, expand the **Tools** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and



A call record in the Calls section contains several elements.



From this panel the dispatcher can do the following:

- answer the ongoing call by clicking anywhere on the call record;
- see the ongoing call activity. The call status can be determined by the color of the call record.
- see history of all registered calls, time of call and its duration;
- make all types of call by clicking on the button with the subscriber name.

Call status is determined by the color of the call record:

1. Light yellow - outgoing call attempt or, a call in the queue (in conventional systems);

- 2. Yellow outgoing call from SmartPTT Dispatcher to the to radio subscriber;
- 3. Green incoming call to SmartPTT Dispatcher or radio monitoring;
- 4. Blue none of the parties transmit or receive voice (hang time). The subscriber or the dispatcher can continue the call by pressing the PTT button within hang time. After the hang time expires, pressing the PTT button will initiate a new call.

If the **Calls** section is empty, to make a call to a radio subscriber, select the subscriber under **Radio Fleet** and click the **PTT** button. The correspondent call record will appear in the **Calls** section and the call will be initiated.

1.4.2 Sound Spectrum

The Sound Spectrum panel allows you to monitor and adjust the signal volume.

To open **Sound Spectrum** panel, expand the **Tools** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Sound Spectrum**.

Sound Spectrum	×
	e P

The button allows you to adjust the speaker volume. The button allows you to adjust the microphone volume.

1.4.3 Cross Patches

Cross Patches allow you to connect talkgroups from different frequency bands or from different network types very quickly. A call made to a cross patch will be heard by all participants of this cross patch. Also, a call made to a talkgroup included in the cross patch will be heard by all participants of this cross patch (this is true even for a call made by the dispatcher).

A cross patch is created in the dispatch console and controlled by the dispatcher. When the dispatch console gets closed, all the cross patches created in this dispatch console will be saved.

To create a cross patch, do the following:

- 1. Open the Cross Patches panel from the Tools menu (if it's not open).
- 2. Add a cross patch. To do this, in the Cross Patch panel click on the Add Cross Patch button:

Radio FI	eet	×
1		a 🗤 🔘 🛋
	All statuses 🔍	+ -
Object	Status	A
– 🚦 Radioserver1		>>
– 📲 IPSC_Slot 1		PTT »
🚢 Group 1		PTT >> =
🚢 Group 2		PTT »
– 📲 IPSC_Slot 2		PTT »
🚢 Group 1		PTT »
🚢 Group 2		PTT »
2525		PTT >>
Cross Pat	ches	×
● All ○ Active		+
		-

 In the new Cross Patch window select objects of the future cross patch. To add the selected object to the cross patch or to remove it from the cross patch, click the corresponding arrows or double-click on the mouse button. Then click Enable.

Cross Patch		×
Name Cross Patch 1		
Radio Fleet		Cross Patch Objects
Radioserver1		Group 1 IPSC_Slot 1 Radioserver1
▲ 🏰 IPSC_Slot 1		Group 2 IPSC_Slot 2 Radioserver1
All Call شد		
🚔 Group 1		
📇 Group 2		
▲ 🏰 IPSC_Slot 2		
🚈 All Call		
🚔 Group 1		
📇 Group 2		
	Enable	Cancel

The new cross patch will appear in the **Cross Patches** panel.

Cross Patches ×	
● All ○ Active +	
+ Cross Patch 1	Disable
	📫 Mute
	🔋 Properties
	🗕 Delete

In the Cross Patches panel you can do the following:

- Filter the list of cross patches to see active cross patches or all cross patches (the Active and All options).
- Make a call to all the parties of the cross patch by clicking on the **PTT** button.
- Perform actions from the Action List of the cross patch: enable or disable the cross patch, edit its properties,

mute or unmute it, and delete it from the list. To open the Action List, click 😕:

Enable / Disable - turns on/off the cross patch.

Mute / Unmute – turns on/off the sound for all parties of the cross patch. If the cross patch is muted, the dispatcher won't hear any party, but all the cross patch participants will hear the dispatcher. If the cross patch is unmuted, but one of the participant talkgroups is muted, the dispatcher will hear all the others, but not this talkgroup.

1.4.4 Radio Fleet

The Radio Fleet panel displays a list of radio subscribers registered in the system.

The first time you install SmartPTT the **Radio Fleet** panel opens automatically. To open or close the **Radio Fleet** panel manually, expand the **Tools** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Radio Fleet**.

Radio Fle	eet	×
)	ــــ 🖓 🔘
	All statuses	- + -
Object	Status	
- 🖥 71		≫ ^
– 👫 Slot 1		PTT »
📇 Group 1		PTT >>
🚢 Group 2		PTT »
– 👫 Slot 2		PTT »
📇 Group 1		PTT »
iii Group 2		PTT »
2525		PTT »
😢 🗄 4000		PTT »

The radio subscriber list consists of the following columns – object, status and the **PTT** button. The **Object** field shows the name of the subscriber or radioserver. The **Status** field displays the current status of the radio subscriber. The **PTT** button initiates a call.



talkgroups, show or hide online or offline radio subscribers. Also, you can

filter radio subscribers by the categories. To do that, click **Filter by category**

by the channels, click Filter by channel

The entry field under the **1 b**uttons allows you to search a radio subscriber by name or ID.

Radio Fle	et	×
		ــــ 🔍 🌒
2525 ×	All statuses	- + -
Object	Status	
- 🖬 71		≫ ^
– 💕 Slot 1		PTT »
📇 Group 1		PTT »
i Group 2		PTT »
– 📲 Slot 2		PTT »
👪 Group 1		PTT »
i Group 2		PTT »
2525		PTT »
🔮 🗐 4000		PTT »

To filter the radio subscribers by a status, click the All statuses button and select the required status form the list.

The 📩 and 🧮 allows the dispatcher to add a new radio subscriber or delete the existing subscriber.

Radio subscribers not added in SmartPTT Dispatcher are considered unregistered and displayed in italic in the **Radio Fleet** panel. Unregistered subscribers are displayed in the list of subscribers after a radio is turned on and registration on the radioserver is successfully completed.

GPS coordinates of a radio subscriber are outdated or missing.

GPS coordinates of a radio subscriber are valid. Validity period of GPS coordinates is defined by the Validity of GPS coordinates parameter in Settings > <u>Positioning Systems</u>.

Note: The icons **e** and **e** are displayed if GPS support is enabled in the **Properties** window of a radio subscriber and at least one location update criterion is selected.

Properties:	89 🛛 🕹	\$
General	Location	
with di	cation: me interval, s 600 stance interval, m 100 O pin status change ergency	

Action List

The button opens the **Action List** including a list of actions which can be applied to a radio subscriber, the radioserver, a control station or a talkgroup.

The Action List of the radioserver

Radio Fleet ×			\times	
*** * 0 * 2]	۰ 💕 ۲	њ	
	All statuses 🔍	+ -	-	
Object	Status			
- 🖥 71		>>	归	Show Radioserver Event Log
+ 1 Slot 1		PTT »	ō	Configure Call Bridging Table
+ 💕 Slot 2		PTT »	۱	Main Device
€ 월 4000		PTT »		View Properties

Show Radioserver Event Log – displays the radioserver event log for the specified period of time. For more information on the event log see <u>Radioserver Event Log</u>.

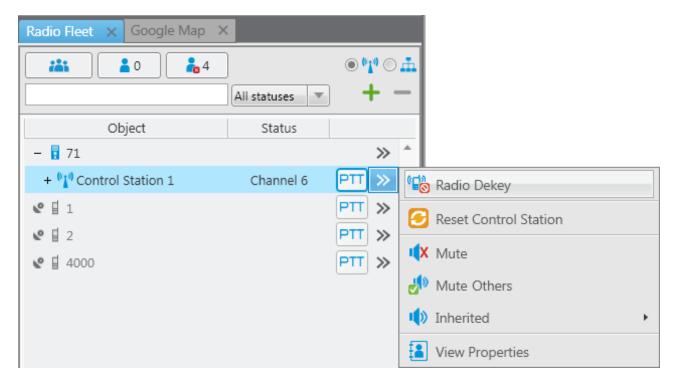
Configure Call Bridging Table – redirects to the routing configuration window.

Main Device – shows what audio output device is currently used for the radioserver. You can also change to

another device.

View Properties - opens the radioservers's Properties window.

The Action List of a hardware control station



Exit Emergency Mode – disables emergency mode.

Note: The Exit Emergency Mode action becomes available after a radio subscriber sends the emergency signal.

Radio Dekey – forced interruption of calls on the channel. This option is available only for hardware control stations and in IP Site Connect network.

Reset Control Station – resets the control station. Only hardware control stations can be reset.

Mute or Unmute – turns off/on the control station mute mode.

Mute Others – leaves sound on only for this control station; other control stations are muted.

Main Device – shows what audio output device is currently used for the control station. To change to another

device, select a specific output device or **Inherited device**, i.e., the device selected for the higher level, in this case, for the radioserver.

View Properties - opens the control stations's Properties window.

The Action List of a virtual control station

Radio Fleet × Google Map ×				
]	• • ••	ш	
	All statuses) + ·	-	
Object	Status			
- 🖥 71		\gg	^	
– 📲 Slot 1		PTT >>	°₽ <mark>0</mark>	Radio Dekey
🚢 Group 1		► TT	9	Reset Control Station
Group 2		PTT »	11X	Mute
– 💜 Slot 2		PTT »		
📇 Group 1		PTT >>		Mute Others
🚢 Group 2		PTT »		Inherited •
🔮 📔 2		PTT »		View Properties
2 월 1		PTT »		
📽 🗐 4000		PTT »		

Radio Dekey – forced interruption of calls on the channel. This option is available only for hardware control stations and in IP Site Connect network.

Reset Control Station – resets the control station. Only hardware control stations can be reset.

Mute or Unmute – turns off/on the control station mute mode.

Mute Others – leaves sound on only for this control station; other control stations are muted.

Main Device – shows what audio output device is currently used for the control station. To change to another, select a specific output device or **Inherited device**, i.e. the device selected for the higher level, in this case, for the radioserver.

View Properties – opens a window there you can specify some information.

The Action List of a talkgroup

Object	Status		A
- 🖥 Radioserver1		\gg	
– 👫 Slot 1		PTT ≫	
iii Group 1		PTT »	🖂 Send Message
– 👫 Slot 2		PTT ≫	😽 Make Conference Call
🚢 Group 1		PTT »	-
iii Group 2		PTT »	all Telephone Subscriber
155		PTT »	📢 Mute
2		PTT »	🔹 Inherited
Cross Patch	es		View Properties

Exit Emergency Mode – disables emergency mode. The **Exit Emergency Mode** action becomes available only after a radio subscriber has sent the emergency signal.

Send Message – opens a window for creating and sending messages.

Make Conference Call – opens the Conference Call window and starts the conference call.

Call Telephone Subscriber – opens the window with the list of registered telephone subscribers.

Mute / Unmute - turns on/off mute mode for this group.

Main Device - shows what audio output device is currently used for the talkgroup. To change to another device,

select a specific output device or **Inherited device**, i.e., the device selected for the higher level, in this case, for the slot.

The Call Window of a talkgroup contains some of the actions available to the talkgroup. The main function of the

Call Window is to give the ability to apply actions to the talkgroup and to view the action log. To open the

window, double-click on the talkgroup.

View Properties – opens the <u>Properties window</u> of the talkgroup.

The Action List of an All Call limited to a site

Radio Fl	eet		×	
📫 🔒 0 🔓 2]	۰ ۲۰	т	
	All statuses	+	-	
Object	Status			
– 🚦 Radioserver 1		>>		
– 👫 Slot 1		PTT »		
🚢 All Calls - Site 1		PTT »		Mute
🚢 All Calls - Site 2		PTT »	115	Inherited
🚢 Group 3		PTT >>		
🚢 Group 4		PTT »		View Properties
📇 Group 5 - Site 1		PTT »		

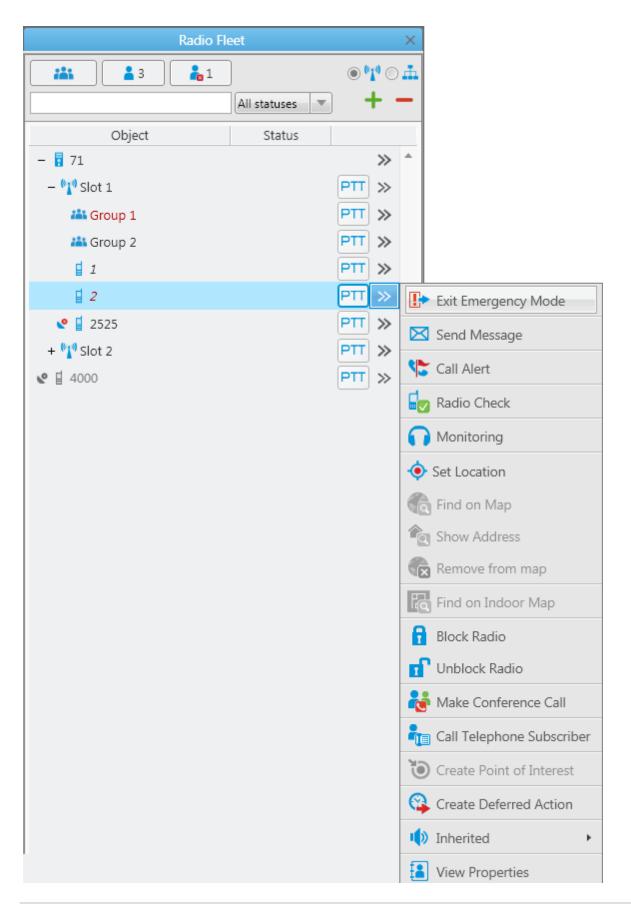
Mute / Unmute – turns on/off mute mode for the All Call. This can be useful if you don't want to hear the All Call initiated by another dispatcher.

Main Device - shows what audio output device is currently used for the All Call. To change to another device,

select a specific output device or Inherited device, i.e., the device selected for the higher level.

View Properties – opens a window where you can add a comment about the All Call.

The Action List of a radio subscriber



Exit Emergency Mode – disables emergency mode. The **Exit Emergency Mode** action becomes available after a radio subscriber sends the emergency signal.

Send Message – opens a window for creating and sending messages.

Send Call Alert – sends a call alert to the subscriber.

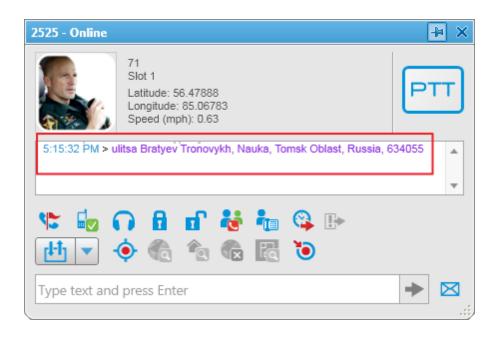
Radio Check – sends the radio check command to the subscriber radio.

Monitoring – allows you to listen to the radio subscribers without their awareness.

Set Location – allows you to define location of a radio unit on the map manually, without GPS data. If GPS support is enabled in the radio subscriber's <u>Properties</u> window (in the Location tab), the location set manually has a validity period which is defined in the **Positioning Systems** settings in the **Validity of GPS coordinates** field. If GPS support is not enabled in the radio subscriber's <u>Properties</u> window, the location set manually is always valid.

Find on Map – shows the subscriber on the map. If there are more than one subscriber on the same position on the map, the subscriber's label will placed above all other labels.

Show Address – displays the subscriber address based on the current GPS coordinates. When you reopen **Call Window** (after it was closed), previously received information on the address is not displayed.



Remove from Map – removes the subscriber from the map.

Find on Indoor Map – shows the subscriber on the building map. The **Find on Indoor Map** action is available for a radio subscriber if the **Indoor Tracking** check box is selected in the <u>Properties</u> window of the radio

subscriber.

Block Radio – sends the Block Radio command to the subscriber radio.

Unblock Radio - send s the Unblock Radio command to the subscriber radio.

Make Conference Call – opens the Conference Call window and starts the conference call.

Call Telephone Subscriber – opens the window with the list of registered telephone subscribers.

Create Point of Interest - creates POI at the current place of the subscriber. If there are no coordinates, the

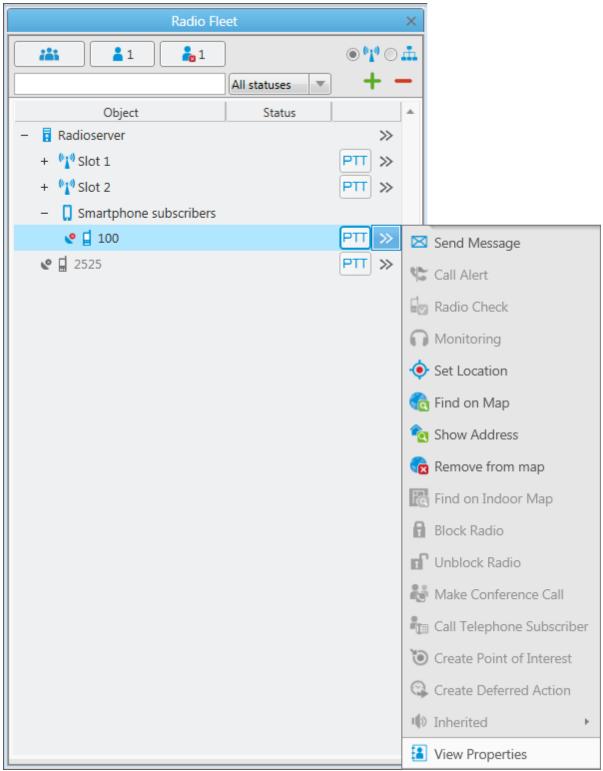
system uses the latest coordinates received from the radio. If coordinates are absent altogether, nothing happens.

Create Deferred Action – opens a window for creation of a deferred action.

Main Device – shows what audio output device is currently used for this radio subscriber. To change to another device, select a specific output device or **Inherited device**, i.e., the device selected for the higher level, in this case, for the talkgroup.

View Properties – opens the subscriber's Properties window.

The Action List of a mobile device subscriber



Send Message – opens a window for creating and sending messages.

Set Location - allows you to define location of the mobile device on the map manually, without GPS data. If GPS support is enabled in the mobile device's Properties window (in the Location tab), the location set

58

manually has a validity period which is defined in the **Positioning Systems** settings in the **Validity of GPS coordinates** field. If GPS support is not enabled in the mobile device's <u>Properties</u> window, the location set manually is always valid.

Find on Map – shows the device on the map. If there are more than one device or subscriber on the same position on the map, the device's label will placed above all other labels.

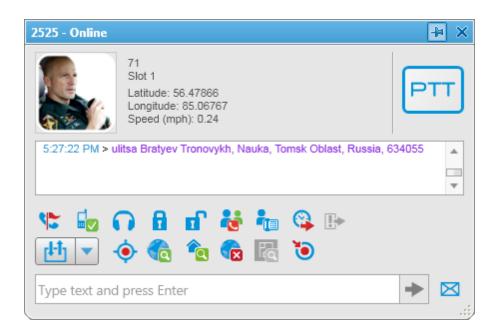
Show Address – displays the device address based on the current GPS coordinates. When you reopen CallWindow (after it was closed), previously received information on the address is not displayed.

Remove from map – removes the device from the map.

View Properties - opens the device's Properties window.

Call Window

The **Call Window** of a radio subscriber contains some of actions available for the radio subscriber. The main function of the **Call Window** is to give the ability to apply actions to the subscriber and to view the action log. To open the window, double-click on the radio subscriber. To customize the appearance and behavior of the **Call Window**, to the <u>Call Window settings</u>.



59

Making a call

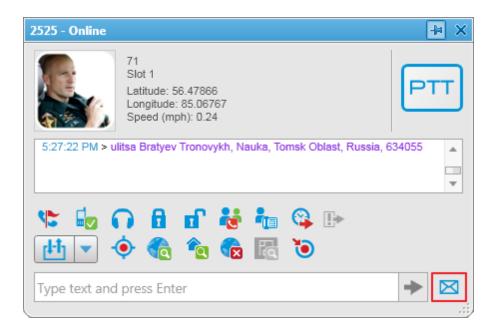
The **PTT** button is located in several places: in the **Radio Fleet** panel and in the **Call Window**. Depending on the call status, the **PTT** button can be displayed in the following colors:

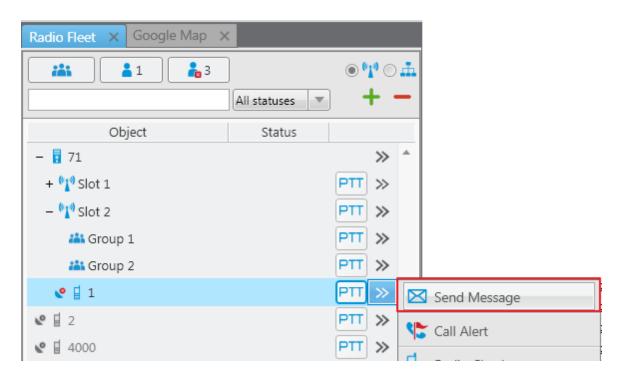
- 1. Light yellow outgoing call attempt; or, a call in the queue (in conventional systems);
- 2. Yellow outgoing call from SmartPTT Dispatcher to the to radio subscriber;
- 3. Green _____ incoming call to SmartPTT Dispatcher or radio monitoring;
- 4. Blue none of the parties transmit or receive voice (hang time). The subscriber or the dispatcher can continue the call by pressing the PTT button within hang time. After the hang time expires, pressing the PTT button will initiate a new call.

To call a radio subscriber, select the subscriber from the **Online Subscribers** list and click **PTT** next to the subscriber name or press the specified keyboard <u>hot key</u>. The **PTT** button changes its color to light yellow, and then to yellow. The caller subscriber will hear your voice. To give the subscriber an opportunity to respond, press the **PTT** button once more. At that, the color of the **PTT** button changes to blue. When the subscriber starts to respond, the color of the **PTT** button changes to green.

Sending messages

To send a message to a subscriber, click in the **Call window** of the radio subscriber or click **Send Message** in the **Action List**.





Send Message		×
Template:		
		Save Template Delete Template
Send	Cancel	

Save Template – saves the typed message as a template.

Delete Template – deletes a template selected in the list of templates.

Send – sends the typed message to the subscriber

Cancel - the Text Message window closes and the message is not sent.

You can also send a message using the Type text and press Enter field.

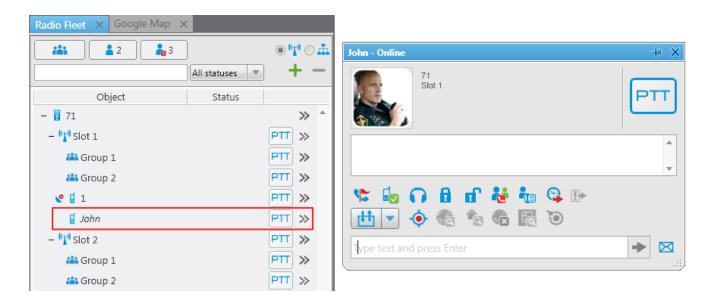
How to change subscriber name using radio

A subscriber can easily change his or her name by using the radio. At that, the new name will appear in the

Subscriber panel.

To do it, you need to send the text message profile%name:<new name> to the Slot ID set in your system.

Before sending:



After sending the message:

Radio Fleet × Google Map >	<			
11 2 1 3		•⊙. <u>∓</u>	Luis - Online	49 ×
	All statuses 💌 🕇		71 Slot 1	PTT
Object	Status			
- 71		≫ ^		
– 📲 Slot 1	PTT	>>	5:01:50 PM > profile%name:Luis, 16448250	<u>^</u>
Kroup 1	PTT	»		*
Kroup 2	PTT	>>	🐦 🔓 🞧 🔒 🖬 🝓 🖿	
🖬 Luis	PTT	\gg		
– 📲 Slot 2	PTT	>>		
iii Group 1	PTT	>>	Type text and press Enter	► 🛛
iii Group 2	PTT	»		.::)
e 🚦 1	PTT	>>		

The Properties Window

To open the Properties window of the radioserver, control station, talkgroup, radio subscriber, dispatcher or

telephone subscriber, right-click on the corresponding item.

The Properties window of the radioserver

Radioserver1	×
Server Version:	7.4.0.6000 Enterprise
Comment:	
Save	Cancel

Server Version – the version of the radioserver. If the version of SmartPTT Radioserver does not match the

version of SmartPTT Dispatcher, the version number is displayed in red.

Comments – text field for additional information.

The Properties window of the hardware control station

Control Station 1	×
Common Oth	ner
Channel 1	v
Volume 💻 —	+
System:	MOTOTRBO (Direct mode)
Model Number:	H55QDH9JA1AN
Serial Number:	037THJ0737
Type:	Portable
Range:	UHF1 (403 - 470 MHz)
Firmware:	R01.09.10
Radio ID (IP):	123 (12.0.0.123)

The window displays information on the control station, for example, model number, serial number, control station type, frequency range, firmware version, control station identifier. Also, it allows you to switch the control station channels (select from the list or using the arrow keys) and to adjust volume level of the selected channel. The Properties window of the virtual control station

Slot 1	×
Common Ot	her
Volume =	
System:	MOTOTRBO (IP Site Connect)
Serial Number:	R9C4CE379
Type:	Repeater
Firmware:	R02.00.00
Radio ID (IP):	1 (12.0.0.1)
Mode:	IP-site

The window displays information on the virtual control station, for example, serial number, firmware version, control station identifier, type of network configuration. Also, it allows you to adjust volume level of the selected channel.

The Properties window of the talkgroup

×
Cancel

Comments – text field for additional information.

Click the **Telemetry** button

•

to select telemetry command for the talkgroup.

The Properties window of the subscriber

Properties: 1 X	Properties: 1 X
General Location Custom	General Location Custom
CAI 12 Radio ID 1 MDC ID 5 Tone ID Name Select x Status (empty)	Image: GPS Update location: Image: Writh time interval, s Image: GPG with distance interval, m Image: Writh distance interval, m Image: One of GPIO pin status change Image: One o
Lone Worker Security Cancel	Indoor Tracking Update Interval, s 600 Save Cancel

The General tab:

IP – IP address of the radio subscriber to identify the subscriber radio. If the **IP** field is absent, specify **CAI** and

Radio ID.

MDC ID – the identifier used to identify Motorola Data Communication (MDC) messages. You cannot type more than 4 hexadecimal numbers into this field. It is used in the analog and the mixed modes.

5 Tone ID – the radio subscriber identifier. If the radio works on the analog channel and supports the 5 Tone signaling (SelectV). It must match the **5** Tone Radio ID in the General Settings tab of the radio MOTOTRBO

65

CPS settings. To be set in the range from 0 to 9 or from A to G.

Note: Several IDs can be used as the radio identifier. If the radio is used on the analog channel only, just **5 Tone ID** or **MDC ID** must be filled, and the **CAI** and **Radio ID** or **IP** fields must be empty.

Name – the subscriber's name.

Status – the subscriber's status.

Select – click to upload the radio subscriber's image if there is any. To delete the selected image of the user, click the cross symbol on the left to **Select**.



– click the button to select the icon of the subscriber.

– click the **Telemetry** button to specify telemetry actions to the radio subscriber.

Lone Worker – select the check box to assign the Lone Worker Profile to a radio subscriber. Select from the list the profile of the lone worker.

Note: You can add lone worker profiles in SmartPTT Dispatcher in the Settings menu under Lone Worker Rules.

The Location tab:

GPS – select the check box to see the subscriber on the map. The subscriber radio must support GPS.

Note: To set up GPS for SmartPTT Radioserver, specify the required settings described in the **GPS** section of the SmartPTT Radioserver Configurator help file.

The Update location area allows you to specify the location update criteria:

with time interval, s – the time interval in seconds after which the GPS coordinate request will be sent to the radio subscriber.

Note: You can set the main time interval for receiving GPS coordinates in the subscriber **Properties** window. The minimum interval for receiving GPS coordinates is set in SmartPTT Radioserver Configurator (**Radio Network Services > GPS > Minimum location update interval**). Therefore, if the interval set in the **Properties** window is less than that set in SmartPTT Radioserver Configurator, GPS coordinates will be received at the interval set in SmartPTT Radioserver Configurator.

with distance interval, m – the distance interval in meters or feet after which the GPS coordinate request will be sent to the radio subscriber.

on GPIO pin status change - the GPS coordinate request will be sent to the radio subscriber when the status of

telemetry contacts changed.

on emergency – the GPS coordinate request will be sent to the radio subscriber when the radio subscriber sends an emergency alarm.

Indoor Tracking – select the check box to see the subscriber on the building plan by the dispatcher request (the Find on Indoor Map action) or after the predefined time period (the Update Interval, s field in the Location tab of the radio subscriber Properties window). The subscriber radio must support Indoor Tracking.

Note: To set up Indoor Tracking for SmartPTT Radioserver, specify the required settings described in the **Indoor Tracking** section of the SmartPTT Radioserver Configurator help file.

Update Interval, s – the time interval in seconds for location data update from special beacons, which are installed in buildings.

The **Custom** tab contains subscriber's custom properties, which were added by the system administrator. If there are no any added custom properties, the **Custom** tab is absent.

1.4.5 Channels

The Channels panel allows you to see all the active control stations available in the system.

annels	
Radioserver - Slot 2	Radioserver - Slot 1
All Call	All Call

You can do the following in this panel:

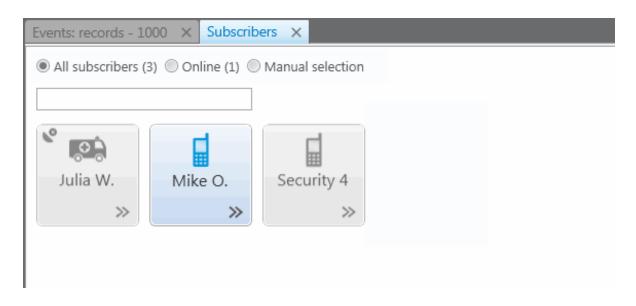
- Make an All Call or a group call depending on the selected type of call.
- Mute or unmute the channel. If the channel is muted, the dispatcher won't hear the talkers on the channel.

- View information about the current call on the channel: the call state, the called party and the call originator.
- Perform other actions from Action List. The actions in Action List may be different. This depends on whether the channel is physical or virtual. For more information on Action List of control stations see Radio Fleet in the Help file of SmartPTT Dispatcher.

1.4.6 Subscribers

The **Subscribers** panel provides convenient interface to perform voice calls and subscriber property modification by generating a list of large control buttons for radio subscribers.

To open the **Subscribers** panel, expand the **Tools** menu in the **Main Menu** bar and click **Subscribers**. At that, the **Subscribers** panel opens.



All subscribers – all registered radio subscribers (online and offline).

Online – online radio subscribers only.

Manual Selection – radio subscribers selected manually by the dispatcher. To do it, drag the radio subscriber into the panel window.

In brackets you can see the number of subscribers in each category.

To find a particular subscriber, use the search field. You can search by name or radio ID.

To make a call, click on the subscriber button, or select the subscriber and press the PTT button. The PTT

settings defined in Control Devices are applied to this panel.

To open the subscriber's Call Window, right-click the subscriber button.

To perform actions with the subscriber, click the button \gg .

You can distinguish between radio subscribers' states on the panel. Different states differ by color of the control button and the frame around it. The colors are the same as in <u>Custom Consoles</u>.

Solution — the icon on the subscriber button shows that the dispatcher did not answer to the subscriber call. The figure next to it shows the number of missed calls.

1.4.7 Job Tickets

The **Job Tickets** panel allows creating special assignments for radio subscribers or talkgroups and tracking their performance.

Note: This functionality is supported only by MOTOTRBO SL Series portable radios. When a job ticket is sent to the radio, which does not support this functionality, it comes as a message, for example, *<JTS> Job Ticket*? **1**

Create weekly report.

To create a job ticket, expand the **Tools** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Job Tickets**.

The Job Tickets panel can be divided into three parts:

- Filters
- Job Ticket List
- Status Change Log

	Job Tickets X							
	⊢							
	Job Ticket	•						
Filters	Assigned	•						
	Status	•						
	Created 29.03.20	29.03.2013 23:59 15						
	Updated 29.03.20	013 00:00 15 29.03.2013 23:59 15						
	Apply	Clear						
	Show complete job ti	rkets						
lob Ticket	+ Add - Delet	te 👩 Resend 📜 Get Status Upda	te					
ist	Job Ticket	Description	Assigned	Status	Created	Updated	Delivery Status	
- I	#9 Check Warehouse	Check Warehouse	12.0.0.95	Cancelled	3/29/2013 2:37:33 PM	3/29/2013 3:26:05 PM	1 Delivered	
	#10 Check Object ******	Check Object ******	12.0.0.95	In progress	3/29/2013 3:24:52 PM	3/29/2013 3:25:01 PM	1 Delivered	
	#8 Send e-mail	Send e-mail	12.0.0.95	Done	3/29/2013 2:37:14 PM	3/29/2013 3:24:00 PM	1 Delivered	
· · · · ·	#2 Spring certification - Documets	Prepare documents for the spring certification.	Radioserver_1 / Slot 1 / Gro	Assigned	3/29/2013 2:01:14 PM	3/29/2013 2:38:26 PN	1 Sent	
	#3 Conference call	Arrange confernce	Radioserver_1 / Slot 1 / Gro	Assigned	3/29/2013 2:05:23 PM	3/29/2013 2:05:23 PN	1 Sent	
	#3 Conference call	Arrange confernce	Radioserver_1 / Slot 1 / Gro	Assigned	3/29/2013 2:05:23 PM	3/29/2013 2:05:23 PN	1 Sent	
	#2 Spring certification - Documets	Prepare documents for the spring certification.	Radioserver_1 / Slot 1 / Gro	Assigned	3/29/2013 2:01:14 PM	3/29/2013 2:01:14 PN	1 Sent	
	#2 Spring certification - Documets	Prepare documents for the spring certification.	Radioserver_1 / Slot 1 / Gro	Assigned	3/29/2013 2:01:14 PM	3/29/2013 2:01:14 PM	1 Sent	
	#1 Weekly Report Group 1	Prepare a weekly report on the results.	Radioserver_1 / Слот 1 / Gr	Assigned	3/29/2013 12:58:14	3/29/2013 12:58:14	Sent	
	Status Change Log							
tatus	Date/Time	Status						
hange Log	3/29/2013 3:26:05 PM	Cancelled						
	3/29/2013 3:25:51 PM	In progress						
	3/29/2013 3:25:44 PM	Assigned						
	3/29/2013 3:25:41 PM	In progress						
	3/29/2013 3:25:32 PM	Assigned						
	3/29/2013 3:25:29 PM	Cancelled						
	3/29/2013 3:25:21 PM	Assigned						
	3/29/2013 3:23:02 PM	Cancelled						
	3/29/2013 3:22:16 PM	Assigned						
	3/29/2013 2:40:09 PM	Assigned						
	3/29/2013 2:37:33 PM	Assigned						

The filters arrange the list of job tickets to the operator's taste.

You can hide job tickets from the job list after the particular status is achieved. To do that, deselect the Show

complete job tickets check box.

To create a job ticket, click Add.

Job Ticket	×		
Name	New task		
Description	New task description		
Validity period (h) 2			
Assigned	89		
	OK Cancel		

Name – job ticket name. It is a required field.

Description – description of the job ticket. Also required field.

Validity period – defines the time period during which a job ticket can be assigned to offline radio subscribers. After this validity period expires, the job ticket is never sent. If a job ticket is not completed before the validity period has expired, the job ticket gets the status "Outdated".

Assigned – job tickets can be assigned to an individual radio subscriber or to a talkgroup. To do this, simply drag a subscriber or a talkgroup in this field. To remove the assigned subscribers, select the subscribers from the list and press DELETE.

After creation, the job ticket will be displayed in the job list with the default status value. When the radio subscriber changes the job ticket status, the status in the job list will be changed accordingly. If the job ticket is assigned to a talkgroup, the job ticket table will contain the name of the radio subscriber, who changed the job ticket status. Job tickets can be assigned to offline subscribers too. As soon as offline subscribers become online, they get the job tickets (if the validity period has not expired).

To see the history of changes for job ticket statuses, click on the job ticket status. At that, the **Status Change Log** table will display the information about status updates.

To cancel the job ticket and delete it from the job list, click **Delete**. At that, the radio subscriber, to whom the job ticket was assigned, will receive a text message that the job ticket was canceled (only if **Send notification to**

subscriber when uncompleted job ticket was deleted by dispatcher is checked in <u>Job Ticket Statuses</u>). If the job ticket has not been delivered (see **Status Delivery**) for some reason, or if you want to resend the existing job ticket to a radio subscriber or a talkgroup, click **Resend**. In this case, the edit window will open, and after clicking **OK**, a job ticket with a unique number will be sent. Use of unique numbers is important for job ticket resending, because radios ignore job tickets with same titles. Therefore, before resending a job ticket, make sure automatic numbering is enabled (**Settings > Job Ticket Statuses**).

Configuration		×
Job Ticket Statuses Job Ticket Status Configuration	Smart	
 Enable Automatic Numbering Send notification to subscriber when uncompleted job tio Default Status Assigned 	cket was deleted by dispatcher	
🕇 Add 🦯 Edit 🗕 Delete		
Name	Completion Status	Sound On
In pogress		
Canceled	×	
		Ţ
Help		Finish

To get information about job ticket statuses for a period, when the dispatch console was turned off, click Get

Update Status.

1.4.8 Sound Panel

The Sound Panel allows setting individual sound level for each control station, turn on/off sound for the subscriber

or talkgroup, select only one control station with the sound turned on.

To open the Sound Panel, expand the Tools menu in the Main Menu bar of the SmartPTT Dispatcher window

and click Sound Panel.

The Sound Panel window.

Sound Panel ×			
🕪 Unmute All 🔹 K Mute All 🖉 🦛 Cancel			
Increase Sound Level for Selected Subscriber/Talkgroup			
+			
Radioserver_1 / Slot 111_1			
Radioserver_1 / Slot 111_2			

Unmute All - turns on the sound for all the connected control stations.

Mute All – turns off the sound for all connected control stations. Mute control stations are marked with a special symbol.



Cancel – calls off the last action.

To manipulate the sound level, click the -/+ buttons or move the thumb.

To turn on/off the sound on a particular control station, click 🚺.

To turn on the sound for one control station and at the same time to turn off the sound for other control stations,



To turn on/off the sound for talkgroups, click . At that, a window will open with the list of available talkgroups on the slot. Mute talkgroups are marked with the special symbol.

					Sound Panel ×
					Increase Sound Level for Selected Subscriber/Talkgroup
Sound Spectrum			_	A	Radioserver_1 / Slot 111_1
Online Subscribers Object Map Status			•	Î	
- 🖥 Radioserver_1			>>		Group Sound Settings X Radioserver_1 / Slot 111_2
- 🚄 Slot 111_1			PTT »		- + 1 2 2 4 Group 1
Roup 1			PTT »		👗 Group 2
👫 Goup 2			PTT »		

Sound settings for a control station can also be done in the control station **Properties** window.

Slot 1	×
Common Ot	her
Volume = -	
System:	MOTOTRBO (IP Site Connect)
Serial Number:	R9C4CE379
Type:	Repeater
Firmware:	R02.00.00
Radio ID (IP):	1 (12.0.0.1)
Mode:	IP-site

1.4.9 Monitoring

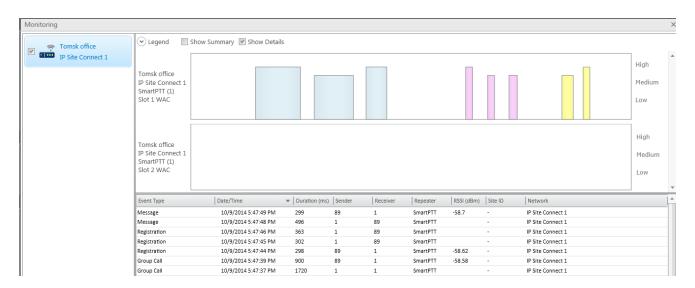
Monitoring

The **Monitoring** panel is a complex tool which gives a comprehensive outlook on the whole radio system.

It includes four panels:

- 1. Monitoring
- 2. Topology
- 3. Diagnostics
- 4. Event Log

Monitoring – graphical representation of data and voice received from MOTOTRBO repeaters, which allows observing the ongoing system operation. Each logical channel has a section for displaying transmitted packets in the form of colored vertical bars. The height of the bar corresponds to the level of the received signal; and the color corresponds to the event type according to the legend. In order to see the radioserver and its network in the **Monitoring** tab, make sure that the Monitoring service is enabled for this radioserver in SmartPTT Radioserver Configurator.



To use monitoring in SmartPTT Dispatcher, you need to enable it in SmartPTT Radioserver Configurator, create a new monitoring database or connect to the existing one.

Radio Server		
Hadio Server Hadio Network Services	Monitoring	
	Active	
	Creating Monitoring Da	atabase
	C	
Telephone Interconnect Incoming Calls	Server Name:	localhost\SQLExpress
	Database Name:	Manitaria
Outgoing Calls	Database Name:	Monitoring
		Create New Database
A Bridging		
	Authorization Mode:	
SNMP Service	Authorization Wode:	Windows NT Authorization
Control Stations	Lacia	
IP Site Connect Networks	Login:	
Capacity Plus Systems	Password:	
Connect Plus	Fassword.	
Radio Activity Networks		Check Connection
NAI Networks		Check Connection
SIP/RTP Interfaces	Restoring Database B	zolaun
SmartPTT Radioservers		аскар
Subscriber Groups		
MultiGroups		Restore Database
Metadata	·	
	1	

Graphical representation of data packets is displayed only for the selected network.

Note: The list on the left shows only active networks (IP Site Connect, Capacity Plus, Linked Capacity Plus) of

SmartPTT Radioserver. If a network becomes inactive, it disappears from the list.

Show Details – when selected, events from different slots appear in separate blocks.

Show Summary – when selected, events from different slots appear in one block.

When checking both parameters, all the three blocks are displayed.

Data displayed in blocks:

Name	Description
Call	Represents All Call, Group Calls, Private Calls, Remote Monitoring, Emergency call.
Telephone call	Represents telephone calls.
ARS	Registration information, that is information about radio availability in the network (ARS service).
GPS	GPS coordinates of the radios (GPS service)

10015	
Name	Description
TMS	Text messages (TMS service)
Telemetry	Telemetry commands and signals

Indoor	Radios' locations inside a building (i.e., Indoor Positioning).
System	System events from and to MOTOTRBO equipment (data confirmation, Private Call
	confirmation, Alarms, Remote Monitoring (only a command), Radio Check and some other).

Levels displayed on the right to the blocks (*High*, *Medium*, *Low*) correspond to the RSSI level ranges: -80 or more (*High*), -80 to -100 (*Medium*) and -100 or lower (*Low*).

The event log at the bottom of the screen gives more detailed information, namely the type of transmitted data (ARS, GPS, Message, Emergency Call, etc.), date and time of the event, its duration, initiator's and addressee's IDs, repeater ID and RSSI level, site ID (applied to LCP systems only), network name.

Topology

Topology – schematic representation of active networks. A network topology is set in SmartPTT Radioserver Configurator and displayed in SmartPTT Dispatcher.

Monitoring X Topology X		
 Legend 		
Good Connection	Application Peer	Router
Average Connection	Hardware Peer	UPS
Poor Connection	Master Peer	Unknown Device
No Connection	Included in peer map, no connection	
Disabled	Not included in peer map, connected	
Tomsk office	0% 0% SmartPTT Tomsk1 1 1002	

Note: In order to see the radioserver and its network in the **Topology** tab, make sure that the **Monitoring** service is enabled for this radioserver in SmartPTT Radioserver Configurator.

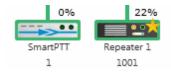
Graphical objects used in topology:

Graphical Object	Description
	Major alarm on device or no connection
	Device is connected or no alarms registered on device.
	Minor alarm is registered on device or there are more than 5 packets lost or corrupted.
	Repeater is turned off.
0.0 (m)	Repeater is not connected.

Graphical Object	Description
	SmartPTT Radioserver
IPSC 1	Network in folded state
	Virtual repeater (i.e., SmartPTT Radioserver), or MNIS
	Slave hardware repeater
	Master hardware repeater
	Master virtual repeater
	Repeater is not connected, but it is included in the peer map.
	Repeater is connected, but it is not in the peer map.
	Location in a folded state.
Tomsk	
new new Маршрутизат	Location in an unfolded state.
	Uninterruptible power supply
	Router
	Unknown device (any other device)

Note: Network configuration is set in SmartPTT Radioserver Configurator. Repeaters, which are added but not active, are marked red. If network configuration is not set in SmartPTT Radioserver Configurator, the network topology will be generated automatically based on the information received from the available network repeaters. If IP-connection with the repeater is lost, it disappears from the topology screen.

Repeater loading on both logical channels is displayed in percents above each repeater.

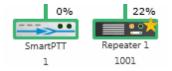


Loading grows steadily, not sharply, until the maximum value. When both logical channels are used, the maximum value is 100%, when only one logical channel is used— 50%.

A busy channel is represented by a yellow LED on the repeater.



Repeater ID is displayed under repeater.



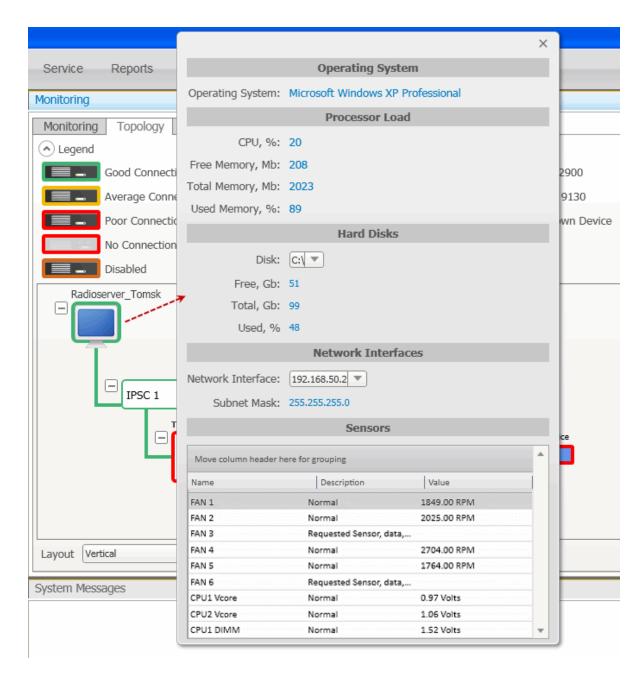
Application peer ID is specified in SmartPTT Radioserver Configurator (Peer ID).

Note: All the repeaters used in one network should have unique ID's.

1. Radioserver

To fold and unfold the network, right-click on the radioserver and select Fold or Unfold respectively.

To view radioserver parameters and the ongoing performance information, right-click on the radioserver image and select **Information**.



Operating System - provides information on the OS used on the server.

Processor Load – displays current CPU load and other information about PC memory.

Hard Disks - provides information on the the available hard disks of the PC and their characteristics.

Network Interfaces - displays the network interface and the sub network mask of the PC.

Sensors - displays platform status (for example, system temperatures, voltages, fans, power supplies and

chassis intrusion).

To operate remotely, right-click on the radioserver image and select **Control**. To be able to control the radioserver remotely, make sure that <u>IPMI parameters</u> are set in the settings of the radioserver. If the IPMI settings are correct, the following window will open:

Server Control	×
Power status: Switched On (S0 / G0)	
Power management (OS) Turn off	
Power management (Hardware)	
Turn on Turn off Reset	<u> </u>

Power Status – shows the current status of the radioserver. There can be three statuses:

- Switched On
- Switched Off
- N/A Unknown (in this case check that <u>IPMI settings</u> are correct)

Power Management (OS) - allows users to turn off the radioserver at the OS level.

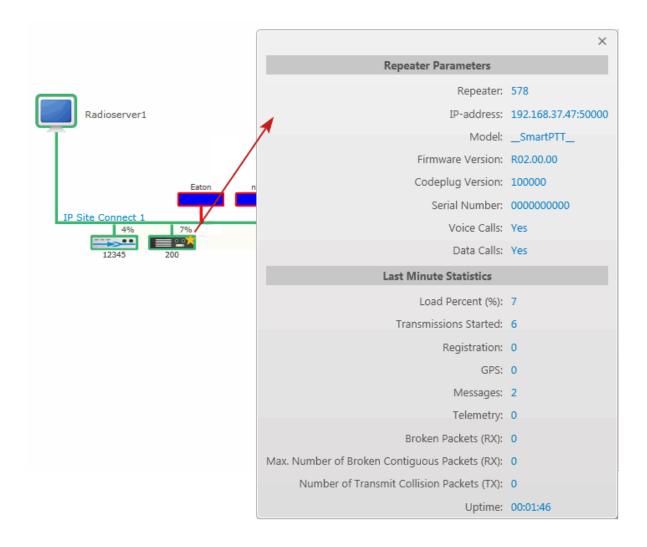
Power Management (hardware) – allows users to turn on/off or to hard reset the radioserver computer at the hardware level.

Note: If the radioserver computer is blocked, you can turn off the radioserver computer only at the hardware level.

If you have more than one radioserver, you can arrange them in the **Topology** tab either vertically or horizontally. The layout can be selected in the **Layout** dropdown at the bottom of the **Topology** tab. The selected layout is applied not only to radioserver elements, but to all elements, which can be folded and unfolded.

2. Repeater

To view repeater parameters and statistics, right-click on the repeater element and select Information.



Repeater parameters:

Name	Description
Repeater	Repeater ID
IP-address	Repeater IP-address
Model	Repeater model number
Firmware Version	Version of firmware used in repeater
Codeplug Version	Repeater parameter block version

Name	Description			
Serial Number	Repeater serial number			
Voice Calls	Ability to transmit voice (Yes, No)			
Data Calls	Ability to transmit data (Yes, No)			

Statistics:

Name	Description						
Name	Description						
Channel Loading (%)	Channel loading on repeater for the last 10 seconds						
Transmissions Started	Number of times the PTT button was pressed						
Registration (ARS)	Number of registration packets transmitted for the last minute						
GPS	Number of GPS coordinates transmitted for the last minute						
Messages	Number of text messages transmitted for the last minute						
Telemetry	Number of telemetry packets transmitted for the last minute						
Broken Packets (RX)	Number of packets (Rx) with errors, received for the last minute						
Maximum Number of Broken	Maximum number of broken packets (Rx) in a row						
Contiguous Packtes (RX)							
Number of Transmit Collision	Number of not transmitted packets due to collisions on the						
Packets (TX)	channel						
Uptime	The time during which the repeater is available in the network						
h							

To operate remotely, right-click on the repeater element and select **Control**. At that, the following window opens.

Repeater Control		\times
Current Channel:	SmartPTT (RX:445, TX:440)	•
Power, Tx:	Low	•
State:	On	•
Restart	Send Close	

Note: You cannot operate virtual repeaters remotely, therefore, the **Repeater Control** window is available only for hardware repeaters connected to the radioserver.

Current Channel – channel used by the repeater. Channels are set in repeater settings with the help of MOTOTRBO Customer Programming Software (MOTOTRBO CPS).

Power, TX – transmitter power of repeater. There are high and low modes. Bands for both modes are specified in MOTOTRBO CPS.

State - allows switching the repeater to "active" or "not active" mode. When in the "not active" mode, repeater

does not transmit any signals. To switch the repeater to the "active" mode, select On in the State field.

Restart - allows restarting repeater remotely.

Send – applies settings specified in the Repeater Control window.

Close - closes the Repeater Control window without making changes in the repeater settings.

3. Uninterruptible Power Supply (UPS)

To view parameters and status information of a UPS, right-click on its symbol and select **Information**. Identification:

Name	Description
Model	UPS model
Serial Number	Device serial number
Firmware	Firmware version
IP-address	IP-address

Tools

Name	Description
Network Mask	Network mask

State:

Name	Description
Alarm Details	Informs about issues in UPS operation
Input Power Source	Input Power Source
Output Power Source	Output Power Source
Last Battery Replacement	Date and time when battery was replaced last time

Parameters:

Name	Description
Input Voltage (V)	Input voltage level (V)
Input Frequency (Hz)	Input frequency level (Hz)
Output Voltage (V)	Output voltage level (V)
Output Frequency (Hz)	Output frequency level (Hz)
Output Current (A)	Output current level (A)
Output Power (W)	Output power level (W)
Load (%)	Eaton UPS loading in percent
Battery Charge (%)	Battery charge left in percent
Charge Left (hh:mm)	Battery charge left in hours and minutes

4. Router

To view parameters and other information of a router, right-click on the element and select Information.

Alarms – gives information about issues in the router operation.

5. Unknown Device

Unknown device is any kind of device.

To view information on the device, right-click on the element and select Information.

Parameters:

Name	Description
System Name	Name of the device
System Description	Description of the device
Alarm Details	Informs about issues in the device operation

6. Location

To change the way **Location** is displayed, right-click on the **Location** element, or click on the **Plus/Minus** icon. There are two display modes:

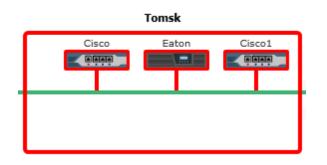
• Folded

• Unfolded

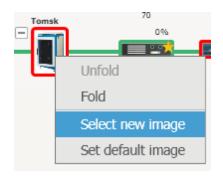
Folded – location is displayed as an image inside a box.



Unfolded – displays which devices, repeaters and routers are used in this location.



To change the default image of **Location**, right-click on the object. At that, a drop-down will appear where you can either upload your own image or set the default image.

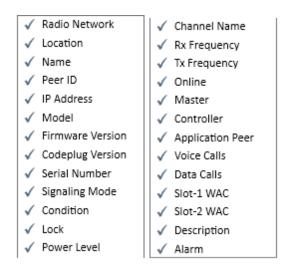


Diagnostics

Diagnostics – provides information about the current state of the connected MOTOTRBO repeaters and alarms.

Move column he	ader here for grou	uping								^	Repeater Tomsk 1	
Radio Network	Location N	lame	Codeplug Version	Serial Number	Signaling	Condition	Lock	Power Level	Channe		Alarms	^
P Site Connect 1	- Se	erver	00.00.00	000000000	DigitalOnly				Softwar			
Site Connect 1	- Re	epeater Tomsk 1	14.00.07	484TPE2494	DigitalOnly				IPSC		Diagnostics	^
											🗘 Refresh	
												-105.8950 -105.8950
											Repeater statistics	^
											Repeater load (%) Slot-1 load (%) Slot-2 load (%) Transmissions started Registration Location Messages Telemetty Broken packets (RX) Max. number of broken contiguous pac Number of transmit collision packets (T. Uptime 0	
											Repeater properties Supported alarms	~
										-	Transmitter Failure Receiver Failure Over heating	

To select columns to be displayed, right-click on the menu bar with the column names. At that, the following list opens.



Note: By default, all columns are enabled.

On the right side of the panel you can find all the technical information about the repeater selected in the table, including the repeater's statistics, its properties, and alarms (if there are any). You can also get the latest information on RSSI levels per slot and other parameters by clicking the **Refresh** button under **Diagnostics**.

Event Log

The event log of monitoring is one of the best ways to learn about hardware alarms, for example, it informs about repeater connection or about Cisco and Eaton state.

Event Log									
Show Current Ev	vents								
Show Logged E ¹	vents 18.05.2015 15 08.06	i.2015 15 Radioserv	er All Radioservers 🔻	Apply					
Move column header	here for grouping								
Radioserver	Network	Site	Event Time 💌	Device Type	Repeater	Device Name	Device ID	Alarm Severity	Description
Radioserver	IP Site Connect 1		05.06.2015 18:10:20	Repeater	30000		192.168.37.128:61867		Repeater disconnected
Radioserver	IP Site Connect 1		05.06.2015 18:10:20	Repeater	14		192.168.37.170:50000		Repeater disconnected
Radioserver	IP Site Connect 1		05.06.2015 18:02:53	Repeater	141	Motorola	192.168.37.141:50101		Repeater disconnected
Radioserver	IP Site Connect 1		05.06.2015 18:00:33	Repeater	1888	SmartPTT	192.168.37.73:50000		Repeater disconnected
Radioserver	IP Site Connect 1		05.06.2015 15:54:25	Repeater	1	SmartPTT	192.168.37.72:50000		Repeater disconnected
Radioserver	IP Site Connect 1		05.06.2015 15:36:36	Repeater	1		192.168.37.72:50000		Repeater connected
Radioserver	IP Site Connect 1		05.06.2015 15:21:24	Repeater	111		192.168.37.73:50011		Repeater disconnected
Radioserver	IP Site Connect 1		05.06.2015 15:20:21	Repeater	111		192.168.37.73:50011		Repeater connected
Radioserver	IP Site Connect 1		05.06.2015 15:20:07	Repeater	111		192.168.37.73:50011		Repeater disconnected
Radioserver	IP Site Connect 1		05.06.2015 15:19:10	Repeater	111		192.168.37.73:50011		Repeater connected
Radioserver	IP Site Connect 1		05.06.2015 15:12:13	Repeater	30000		192.168.37.128:61867		Repeater connected
Radioserver	IP Site Connect 1	-	05.06.2015 15:12:11	Repeater	18569		192.168.37.137:50000		Repeater connected
Radioserver	IP Site Connect 1		05.06.2015 15:12:08	Repeater	1888		192.168.37.73:50000		Repeater connected
Radioserver	IP Site Connect 1		05.06.2015 15:11:47	Repeater	14		192.168.37.170:50000		Repeater connected
tadioserver	IP Site Connect 1		05.06.2015 15:11:46	Repeater	141		192.168.37.141:50101		Repeater connected
Radioserver	IP Site Connect 1		05.06.2015 8:58:36	Repeater	12	Server	192.168.37.33:50000		Repeater connected
tadioserver	IP Site Connect 1		04.06.2015 18:02:00	Repeater	12	Server	192.168.37.33:50000	Critical	Repeater disconnected
Radioserver	IP Site Connect 1		04.06.2015 18:02:00	Repeater	30000		192.168.37.128:61867		Repeater disconnected

Note: Events with severity "Critical", "Major" and "Minor" are highlighted red, pink and yellow respectively.

Besides reviewing current events, **Event Log** provides the ability to view saved events for the particular time period.

To review events for a time period, select **Show Logged Events**, define the period limits by using the calendars for start and end dates, select the radioserver from the drop-down and click **Apply**.

1.4.10 Lone Workers

The **Lone Workers** panel displays the list of subscribers who are in the **Lone Worker** mode and their current status. This was designed for a better supervision over lone workers.

To open the **Lone Workers** panel, expand the **Tools** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Lone Workers**. At that, the following window opens.

Lone Workers \times			
~	John	Lone Worker_A	×
	Antony	Lone Worker_A	×
e#	Kevin	Lone Worker_A	×

The **Lone Workers** panel shows radio subscribers working in the **Lone Worker** mode marked with specific color. The color shows if the subscriber meets the requirements set for the lone worker profile the subscriber belongs to:

- Light gray the lone worker did not violate the rule.
- Yellow rule violation: the event, described by the rule, has occurred. Alert Timer starts.
- Red the lone worker did not react in a specified way after Alert Timer expired.

Note: For more information how to set rules for lone workers, please see Lone Worker Rules.

To turn off the Lone Worker mode, click the cross button.

1.4.11 Latest Incoming Calls

The **Latest Incoming Calls** panel displays the list of subscribers who initiated calls. The panel is used for quick access to the call windows of the subscribers.

To open the panel, expand the Tools menu in the Main Menu, and click Latest Incoming Calls.

Latest Incoming Calls		×
	89	×

Click on the subscriber record to open the Call Window.

To configure the Latest Incoming Calls panel settings, expand the Settings menu in the Main Menu, and click

Events and Notifications.

Configuration Events and Notifications Event log and system notification settings	>martPTT 🔘
Event Log Notification Panels Emergencies Image: Construction Panels Image: Notify dispatcher about emergency Category for emergency Category for emergency Image: Security Image: Play Sound File Image: Security	
System Messages Frror Messages Warnings Information Messages Play Sound File	
Latest Incoming Calls Remember the latest incoming calls. Number of the latest calls	\$
Help	Cancel

Remember the latest incoming calls - allows you to save records of calls to which you did not answer.

To apply the changes, click **Finish**.

1.4.12 Notifications

The **Notification** window informs the dispatcher that the set of rules were not fulfilled and the alarms were activated.

activated.

The following rules are displayed in the $\ensuremath{\textit{Notifications}}$ window:

- Rules and Alerts
- GPS Rules

• Lone Worker Rules

When the specified event happens and one of the rules triggers, the notification window opens up automatically to display the alarm notification.

The usual notification is composed of the following parts:

- Caption
- Subscriber name and time
- Text of the alarm

No calls from Andrew Kevin: 33,3 min. No Calls from Subscriber

×

1.4.13 System Messages

The System Messages window displays notifications which inform about interaction between SmartPTT

Dispatcher and SmartPTT Radioserver.

There are three notification types shown in the System Messages window:

- Error messages
- Warnings
- Information messages

To set up System Messages, expand the Settings menu in the Main Menu bar and click Events and

Notifications. In the opened window select the Notification Panels tab.

Configuration	×
Events and Notifications Event log and system notification settings	
Event Log Notification Panels Emergencies Image: Construction of the security Image: Category for emergency Image: Security Image: Play Sound File Image: Security	
System Messages Error Messages Warnings Information Messages Play Sound File	
Latest Incoming Calls Remember the latest incoming calls. Number of the latest calls	
Help Cancel Finish	

In the **System Messages** section select the check boxes next to the notification types of which the operator is to be informed.

Note: If none of the check boxes is selected, notifications will be registered in the background, i.e., the **System Messages** window won't open automatically. In this case, if an error is registered, an error message will appear.

To open the **System Messages** panel manually, expand the **Tools** menu in the **Main Menu** bar and click **System Messages**.

System Messages	5	×
12:45:52 PM	Client-Server connection Radioserver radioserver connection is lost.	
3 12:42:36 PM	Server Failed to get server data.	
12:40:36 PM	Server Slot 2 control station connection is lost.	

All the three message types (Error Messages, Warnings, Information Messages) have the following format:

- 1. Source of the problem:
 - a) "Client" (SmartPTT Dispatcher)
 - b) "Server" (SmartPTT Radioserver)
 - c) "Client-Server Connection" (connection between SmartPTT Dispatcher and SmartPTT Radioserver)
 - d) "Database"
- 2. Problem description.

Each message can be differentiated by the following characteristic traits:

- Icons:
 - : used for error messages;
 - i used for warnings;
 - I used for information messages.
- Colors of the messages:

Red is used for error messages.

Gray is used for warnings and information messages.

1.4.14 Server Tasks

The **Server Tasks** window shows the list of commands from the dispatch application the radioserver is processing at a given moment of time.

For now, only a few commands are displayed in the **Server Tasks** window, for example, the command to create the radioserver event log.



1.4.15 Map Tools

Points of Interest

The **Points of Interest** panel displays all the existing points of interest. You can also create, modify or delete a point of interest from the panel.

To view points of interest (POI) to be displayed on the map, expand the Tools menu in the Main Menu bar of the

SmartPTT Dispatcher window, click **Map Tools** and then **Points of Interest**.

At that, the **Points of Interest** panel opens.



In the panel window you can do the following:

- Create a new POI
- View the list of created POIs
- Hide or show POIs on the map

To create a new POI:

- 1. Open a map.
- 2. Click Create.

3. In the opened window type the name of the POI and upload its picture. Click OK.

4. Place the new POI on the map by clicking the left mouse button.

5. To save the position of the POI click **Save** in the panel window. To call off the changes, click **Cancel**. You can also create the POI from the **Map** menu. For more information see <u>Maps</u>.

To hide or show the POI on the map, select the check box next to the POI title.

Geofences

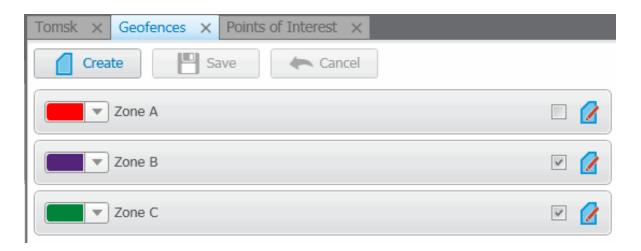
The **Geofences** panel is used to create, modify and display geofence on the map. Geofences help dispatchers keep an eye on subscribers. A dispatcher can define the area of the geofence on his or her own and attach special rules to it.

You can add a geofence in two ways:

1. By drawing a geofence on the map. You will learn about it in this article.

2. By specifying coordinates of the geofence. For more information see Geofences.

To open the **Geofences** panel, expand the **Tools** menu in the **Main Menu** bar of the SmartPTT Dispatcher window, click **Map Tools** and then **Geofences**. At that, the following window opens up.



To create a new geofence:

1. Open a map.

- 2. Click Create in the Geofences panel window.
- 3. In the opened dialog box type the name of the geofence and select the color. Click **Create**.

New Zone		— ×
Name:		
Color:		
	Create Cancel	

- 4. Draw the geofence on the map with the help of mouse and the keyboard. The geofence must have at least 3 points. To undo the last added point press the **ESC** key. You can also stop drawing the geofence by double-clicking on the last point of the zone.
- 5. Click **Save** in the **Geofences** panel window.
- 6. The record about the new geofence will appear in the Geofences panel.
- 7. You can activate the geofence in this panel by selecting the check box next to the name of the geofence and edit it by clicking **Edit**. You can also change the color of the geofence.

To call off creation of the new geofence, click Cancel. To modify the existing geofence, click Edit.

To assign a rule to the geofence, go to GPS Rules.

Routes

Route is a tool of SmartPTT that significantly extends functionality of the dispatch system, especially for

monitoring and controlling networks of highly mobile subscribers moving along the predefined route (for example,

employees of transportation companies). Its meaning radically differs from the pre-existing concept of a "Route"

as the trajectory of subscriber's movement that, from now on, is called "Track".

The route, starting with version 7.1.0 is a polyline connecting key points of the network coverage area. Subscriber location near the key points is identified by the specified radius of the route and can be summarized in the

Subscriber Locations report.

To open the Routes panel, expand the Tools menu in the $Main\ Menu$ bar of the SmartPTT Dispatcher window,

click Map Tools and then Routes. At that, the Routes panel opens.

Route List ×	
Create Save Cancel	
Route A	☑ 📝
Route B	☑ 🚺

To create a new route:

1. Open the map window and click Create. At that, the New Route window opens.

New Rout	ie	×
Name:	Route C	
Color:		
Radius:	10 (m)	
	Create Cancel	

- 2. In the field **Name** type the name of the new route.
- 3. Set the color of the new route.
- 4. In the **Radius** field enter allowed deviation from the route.
- 5. Click Create.
- 6. Go to the map window and draw the route.

Route points are created by clicking with the left mouse button on the map area. To create the first route point, point to the place where the route starts and left-click on it. To create next route points, point to the appropriate place on the map and left-click on it. Route points connect sequentially drawing a new route on the map. To undo the last added point, press Esc.

7. To save the route, click Save in the Routes panel window. To call off the route, click Cancel. To modify the existing route, click the Edit button

Subscriber Location Panel

Subscriber Location panel shows the subscribers inside the selected area on the map.

To select area on the map, press **CTRL** and click with the left mouse button and draw the area covering subscribers.

Note: The **Subscriber Location** panel will be opened automatically if it is hidden at the moment of subscriber selection.

Opened Subscriber Locations panel.

Subscriber Locations	\times	Tomsk	\times	
*		John		

Click to find the subscriber on the map.

To open the Subscriber Location panel manually, click the Tools menu in the Main Menu bar and then open

Map Tools.

1.5 Settings

The **Settings** menu allows you to configure system parameters, create special rules, which will help you manage workers, connect external third-party devices and so on:

- <u>Database</u> allows you to manage the system database, i.e., create new database or connect to the existing database.
- Licenses allows you to install licenses.
- <u>General Settings</u> allows you to tune the dispatch console, e.g., define the PTT button behavior, enable automatic system updates, select language, etc.
- Control Devices allows you to select and configure control devices to be used in SmartPTT Dispatcher, like

the mouse, touchscreen and other devices.

- <u>Radioservers</u> allows you to manage available radioservers, e.g., add new radioservers to be seen in the dispatcher console, assign profiles to the available radioservers.
- Operators allows you to add operators and manage their rights.
- <u>Statuses</u> allows you to add statuses for radio subscribers displayed in the Subscribers Management panel.
- Event Log allows you to manage the event log and the system messages.
- <u>Call Windows</u> allows you to configure Call Window parameters, e.g., specify the type of event that triggers the window opening.
- Sound Settings allows you to configure sound settings and set up multichannel sound.
- <u>Records</u> allows you to enable call recording and set up recording parameters.
- Positioning Systems allows you to configure GPS and Indoor settings.
- <u>Telemetry</u> allows you to configure telemetry commands to be available.
- Categories allows you to create categories.
- Dispatchers allows you to add other dispatchers and configure parameters of your own dispatcher console.
- <u>Telephone Interconnect</u> allows you to configure telephone settings and <u>Telephone Subscribers</u> allows you to create a list of telephone subscribers.
- Job Ticket Statuses allows you to add statuses for job tickets.
- Third-Party Equipment allows you to configure Tipro settings.
- Hot Keys allows you to customize keyboard shortcuts for making calls to subscribers.
- Database Auto Backup allows you to set the SmartPTT Dispatcher database auto backup.
- Rules and Alerts allows you to set up rules based on general events.
- Positioning Rules allows you to set up rules based on GPS and Indoor data.
- Lone Worker Rules allows you to create and set up rules for lone workers.
- <u>Subscriber Custom Properties</u> allows you to add additional properties to be displayed in subscriber Properties window.
- Custom Consoles allows you to create custom consoles with necessary elements.

1.5.1 Database

To connect to the database, expand the Settings menu in the Main Menu bar of the SmartPTT Dispatcher

window and click **Database**. At that, a configuration window for database creation opens.

Configuration		×
Database Settings for connection	to MS SQL Server database	Ö
Database server		
Database server name	localhost\SQLExpress	
	For database server installed locally at SmartPTT Dispatcher PC enter name in the following way: Name of Computer\SQLExpress (e.g., MYCOMP\SQLExpress).	
Authorization mode	Windows NT Authorization	•
Account name		
Password		
	Connect	
Database		
Connection is establis	hed successfully!	
	Create Database Restore Database	
Current database	SmartPTT	•
Help	Cancel Back Next Finis	h

Before creating a new database, connect to the database server. For this, fill in the **Database server name** field, and click **Connect**. In case of a successful connection, you will see the following message in the **Database** section: *"Connection is established successfully!"*. If connection was not established, you will see a message with the error description at the bottom of the window.

Note: For the database server installed together with the SmartPTT dispatcher application enter the name using the format: Name of PC\SQLExpress (for example, *MYCOMP\SQLExpress*).

Authorization Mode – allows you to select authorization mode with the database.

SQL Server Authorization – you must have the login and password of the account which has access to the SQL server.

Windows NT Authorization – the user who has logged into the Windows system, must be listed in the SQL server's list of users to make connection.

To create a new database, click **Create Database**. In the window that opened enter the name of the new database and click **Save**.

Current database – allows you to connect to one of the created databases.

Restore Database – allows you to restore the current database using automatic backups. You can set up auto backups of the database in **Settings** > <u>Database Auto Backup</u>.

To save the changes, click Finish. To apply the changes with the database, restart the dispatch console.

1.5.2 Licenses

To use the SmartPTT application you need to install licenses. There are licenses for basic features which allow you to run the application and licenses for additional features, like telephone connection support, bridging, SNMP service, etc.

Configuration	×
Licenses Installing a license file	SmartPTT
Owner: SmartPTT Demo (expires on 10-05-2014) Contact: Address:	Install License
License Key ID: FFB125FF Update subscription expiration date 3/15/2015	
Functionality: SmartPTT Plus License Type: Demo	Number of Licenses: 1 Expiration Date: 5/10/2014
Functionality: Additional Radioservers License Type: Demo	Number of Licenses: 2 Expiration Date: 5/10/2014
Functionality: Subscribers License Type: Demo	Number of Licenses: 20 Expiration Date: 5/10/2014
Help	Finish

Click Install License – the browse window will open. Specify the license file's location and click Open.

The license is installed, and the system licensing window displays information on the license type and scope of functions.

After the license is installed, the Install License button will change to the Restore License button. Clicking the

Restore License button, you return to the previous license. After the Licensing window is closed, the latest

displayed in the window license will be applied.

Note: If the radioserver and the dispatch console are installed on one and the same machine, you can install the licenses either in SmartPTT Radioserver Configurator or in SmartPTT Dispatcher. If the radioserver and the dispatcher console are installed on different PCs, you need to install the licenses in both applications.

1.5.3 General Settings

In the **General Settings** window you can configure the global settings of the SmartPTT Dispatcher application (e.g., user interface language, automatic update, etc).

To set the settings, expand the **Settings** menu in the **Main Menu** bar and select **General Settings**. At that, the following window will appear.

Configuration	×
General Settings	<u></u>
Language	English
Windows authentication	
Launch the dispatch console on Windows start	
Ask for confirmation before closing or changing	g the operator
Subscriber ID input format	CAI + Subscriber Radio ID
Call alert tone duration (sec)	15
Outgoing call tone	C:\Program Files (x86)\SmartPTT\Client\Sound\PTT.wav
Automatic Update	
Enabled	
File path	C:\Users\PlotnikovaNE\Desktop
Help	Cancel

Language: Allows you to change the language used in the dispatch console. After selecting a new language, restart SmartPTT Dispatcher to apply the change.

Windows authentication: It enables Windows authentication within the dispatch console. For that, <u>create the</u> operator with the name of the Windows user, or the Windows group to which the Windows user is assigned.

Note: In Windows 7, for the domain Windows user only domain Windows groups will be checked. Starting from Windows 8, for the domain Windows user all Windows groups will be checked (whether domain or local).

If **Windows authentication** is selected, the dispatch console is opened under the operator's account, whose name matches the name of the logged in Windows user, or Windows group to which this logged in Windows user is assigned. At that, the **Authorization** window will be skipped and the operator's password ignored. In the

dispatch console, the button **Change Operator** is will be unavailable and the user will not be able to change operator.

If **Windows authentication** is not selected or the operator's name does not match the name of the logged in Windows user, or the Windows group, the **Authorization** window will open, and the user will need to select the operator and type the password.

Launch the dispatch console on Windows start: Enables automatic launch of SmartPTT Dispatcher on Windows start with the selected operator. This feature does not work if <u>Windows authentication</u> is selected. Subscriber ID input method sets the input and display methods used for showing subscriber ID in the radio subscriber Properties window: IP address or CAI + subscriber ID.

IP Address – IP address is entered and displayed in the subscriber's **Properties** window: **IP** 12.0.0.15 **CAI + Subscriber ID** (CAI network ID and a unique radio ID) are entered and displayed in the subscriber's

Properties window: CAI 12 Radio ID 15

Call alert tone duration (s): Sets the duration of the call alert sound in SmartPTT Dispatcher.

Outgoing call tone: This alert tone plays after the PTT button is pressed and the operator is able to transmit on the channel. This is to prompt the operator to begin speaking.

Ask for confirmation before closing or changing the operator: If selected, you will need to confirm before closing SmartPTT Dispatcher, or before changing the operator.

To enable automatic update, select the **Automatic Update** check box. If the check box is selected, the system will be checking for updates on a regular basis.

In the **File path** field specify the path to the **ClientSetup.exe** file, which you download together with SmartPTT Software Installation Package. If a new SmartPTT version is available, when you launch SmartPTT Dispatcher (or when you choose **Check for Updates** from the **Help** menu), the notification window will appear.

Note: After downloading the new version of the system, it is not necessary to uninstall the previous version.

1.5.4 Control Devices

In the **Control Devices** window you can select and configure the control device to be used in SmartPTT Dispatcher. This can be a mouse, touchscreen, keyboard or other external input device.

Configuration	\times
Control Devices	2
Mouse	
Actions upon clicking:	
Select	
◯ Call Mode: ◯ Hold	
Touchscreen	
Actions upon tapping:	
◎ Select	
O Call Mode: ○ Hold ● Single tap	
External Devices	
Keyboard PTT Space Mode: O Hold Single press	
Other Input Device	
Device PTT Button Mode: O Hold Single press	
External Device COM Port Mode: O Hold Single press	
Help Cancel Finish	

The window is divided into three group boxes, devoted to a mouse, a touchscreen, and to external devices.

Under Mouse and Touchsreen you can select the action that will be performed at clicking or tapping, and PTT

mode. These settings will be applied to several panels: Radio Fleet, Subscribers, Call Windows, Custom

Consoles, Emergencies. The Calls panel does not support these settings—single click is applied there.

The External Devices group box allows you to set up the following devices:

- keyboard;
- external input USB device;

· external input device connected via COM port.

To assign PTT to a keyboard button, click on the button

next to Keyboard PTT, and press a

keyboard button. At that, the pressed button will appear. To define the PTT mode (i.e., pressing and release),

select Hold, or Single press.

To set up the PTT button on any external input device connected via USB, select Other Input Device and choose the required device from the list. Then, click on the blue button next to Device PTT Button and press any button on the device.

Space

External Device COM Port – COM port used to connect to the external PTT device.

There are two modes available for the PTT button on external devices: Hold and Single press.

To save changes, click Finish.

1.5.5 Radioservers

To connect the existing radioserver to the dispatcher console, expand the Settings menu in the Main Menu bar and click Radioservers. The configuration window for setting up and configuring radioservers opens up.

Configuration				×
Radioservers Radioservers controlled by Dispatc	her Console	S	martP'	
🕂 Add 🖌 Edit 🗕 Delete		🔍 Search		
Server Name	Address	Proxy	Login	Active
Radioserver_224	192.168.0.224	:8888		V

Server Settings		\times
General IP	MI	
Active	V	
Name	Radioserver_224	
Address : Port	192.168.0.224 Port 8888	
Proxy : Port	Proxy Port	
Login		
Password		
Operator	Profile Name	•
Administrator	•	
		Ŧ
	OK Cancel	

By default, the list of radioservers is empty. Click Add to open the window for adding radioservers.

Name - radioserver name displayed in the list of radioservers.

Address, Port – radioserver IP address and port number to connect with the dispatcher (the default radioserver port number is 8888). Make sure that the Address and Port you enter match the Address and Port specified in SmartPTT Radioserver Configurator.

In this example we use port 8888.

Radio Server Name Radioserver Interface Port 192.168.0.224 8888	Name Radioserver
Radioserver Interface Port	Radioserver Interface Port 192.168.0.224 ▼ 88888
Interface Port	Interface Port 192.168.0.224 8888
	192.168.0.224 ▼ 88888 ▼
192.168.0.224 💌 8888 🚖	
	Authentication

Proxy:port – is a proxy server IP address and port number of the connection.

Fields **Login** and **Password** must be filled if authentication is enabled on the radioserver side. To enable authentication on the radioserver side, run SmartPTT Radioserver Configurator, click **Radioserver**, select *Windows* in the **Authentication** field. Currently, you can select only Windows authentication. If Windows authentication is selected, you can't connect the dispatcher console and the radioserver without indicating valid credentials in the **Login** and **Password** fields. If the radioserver computer makes part of a domain, indicate the domain login and password, if not – indicate local login and password.

Note: If *No* is selected in the **Authentication** field, make sure that the fields **Login** and **Password** in the dispatcher console are empty. Otherwise, the dispatcher console and the radioserver can't connect.

Active – if selected, the radioserver is available for connections. You should also remember that you do not have to remove the radioserver from the list to disable it. It is enough to clear the check box.

Operator – list of all active operators created in SmartPTT Dispatcher.

Profile Name – enter profile name defined for the dispatcher in SmartPTT Radioserver Configurator. If **Profile Name** is not specified, the dispatcher has access to all radios, talkgroups and services provided by the radioserver. If the profile name is incorrect, the radioserver will be marked red.

	Online Subscribers	•
Object	Map Status	
🐻 Radioserver	Radioserver	×
Object 2525	Server Version: Profile name is incorrect Comment:	8.3.0.10350 Plus
d Mike	Save	Cancel

Note: Profile management is described in the SmartPTT Radioserver Configurator help file.

After all the fields are completed, click **OK**. At that, the new radioserver appears in the list of radioservers.

To edit the radioserver settings, select it in the list of radioservers and click **Edit**. To delete the radioserver, select it in the list of radioservers and click **Delete**. To find all the running radioservers in the network, click **Search**.

IPMI Settings

Intelligent Platform Management Interface (IPMI) is a standardized computer system interface used for out-of-band management of computer systems and monitoring of their operation.

SmartPTT system uses IPMI for managing and monitoring remote radioservers. With the help of IMPI you can not only learn about the hardware characteristics of the radioserver machine, but also turn it on/off remotely.

Server Settings	×
General IPN	Π
Address	Port 623
Login	192.168.0.169;5588
Password	
Authentication	MD5
Privilege	Administrator
Ciphers	RAKP-HMAC-SHA1, HMAC-SHA1-96, AES-CBC-128
Active	
	OK Cancel

To set up IPMI open the Server Settings window of the selected radioserver and then open the IPMI tab.

Address, Port – IP address and port number of the radioserver PC that are used to establish IPMI connection. Login and Password are obligatory fields. They must match the login and password set in IPMI configuration settings on the radioserver PC.

Authentication – authentication types. Use MD5 as default authentication type.

Privilege – depending on the privilege used, the user has different permissions. Use Administrative as default. For more information about the privileges, check the official IPMI documentation.

Ciphers – the list of ciphers to be used. Select the default cipher, that is **RAKP-HMAC-SHA1, HMAC-SHA1-96**, **AES-CBC-128**.

Active – select the check box to activate IPMI functionality for the radioserver.

Note: For more information about managing the radioserver with the help of IPMI, see Monitoring.

1.5.6 Operators

By default, an operator with the name **Administrator** and no password is created in SmartPTT Dispatcher. The Administrator has full access to SmartPTT management functions.

The Administrator can add new system operators and customize their access to specific functionality. To add a

new operator, expand the **Settings** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click

Operators.

At that, the **Operators** window will be displayed.

Operators	×
🕂 Add 🧪 Edit 🗕 Delete	
Operator	▲ Status
Administrator	Administrator
Alexander	Active
Operator 1	Active
	Ψ
	Close

To add a new operator, click Add. A new window for adding operators opens up.

Operato	r	×
Name	Alexander	
Status	Active Set Password	ł
Right	s	
✓ Ac	ld/Delete subscriber units	
M	anage unregistered subscriber units	=
M	ake voice calls	-
Co	nnect with external dispatchers	
M	ake telephone calls	
🗸 Ch	ange channel on control station	
🗸 Blo	ock/Unblock radio	
		*
	OK Cancel	

Name: The operator's name. If <u>Windows authentication</u> is selected (Settings > General Settings), make sure that the new operator's name matches the name of a Windows user or Windows group.

Status: The operator's status ("Active" or "Archived"). Status *in the archive* is used for registered operators which are not used any longer, but cannot be removed from the system as the event log contains entries referring to them.

Rights: A list of permissions which can be selected or cleared for each operator individually.

Here are some of them:

Add/Delete subscriber units: This permission allows the operator to add, delete subscribers and modify their properties.

Manage unregistered subscriber units: Select this property to allow an operator to modify unregistered subscribers in the subscriber tree.

Attach radios to selected channel: Allows selecting control stations which will be used to display all registered subscribers. This option is recommended to be set for Capacity Plus systems.

Set/Change Password: Sets new operator's password or changes the old one.

To edit an operator, select it in the list of operators and click Edit. The edit window is displayed where you can

change Name, Status and Password parameters.

To delete an operator from the operators list, select it and click **Delete**.

Note: You cannot delete the Administrator from the system.

To switch operators, click in the **Main Menu** and after the dispatch console has restarted, select a new operator.

1.5.7 Statuses

You can create statuses to assign to radio subscribers (for example, Available, On Call, In Place or Busy). Each radio subscriber can have a status showing their current state. The status is set either by the dispatcher or by the radio subscribers themselves.

To set up statuses, expand the **Settings** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Statuses**. At that, the configuration window opens.

onfiguration		×
Subscriber statuses settings	Sma	
🕂 Add 🥖 Edit 🗕 Delete		
Name	Sound On	System Message
		Ŧ
Help		Finish

To add a new status, click Add in the Active tab. A window for adding a new status opens.

Status	×
Name	
Color	
System Message	
Sound	
(OK Cancel

Name – status name to be displayed in SmartPTT Dispatcher.

Color – status color to be displayed in SmartPTT Dispatcher.

System Message – message which triggers status change, that is if a radio subscriber sends this message to the dispatcher, the subscriber receives the status.

Sound – audio file played back if the status is activated.

Click **OK**, and the new status is added to the list of statuses.

nfiguration	
Statuses Subscriber statuses settings	
Active Archive	
🕇 Add 🖌 Edit 🗕 Delete	
Name	Sound On System Message
In Office	In Office
Busy	Busy
Free	Free

To edit the existing status, select it in the list of active statuses (the Active tab) and click Edit.

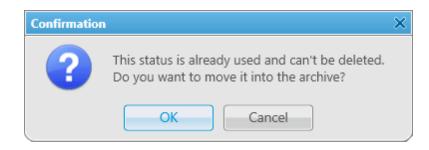
To delete the status, select it in the list of active statuses and click **Delete**. You can delete a status only if it was never assigned to a subscriber. If the status is currently assigned to a subscriber or used to be assigned, it can't be deleted. But, it can be moved to an archive. Characteristics of the archive statuses are:

- They can't be assigned to radio subscribers.
- They can't be used in the alert rule definitions. However, the archive status remains valid as an alert rule criteria for a particular rule, if it was selected as such before being moved to the archive.
- They are displayed in the event log entries.
- They can be restored from the archive.

To see the list of archive statuses, open the Archive tab of the Statuses window.

nfiguration	
Statuses Subscriber statuses settings	
Active Archive	
Name	Sound On System Message
Busy	Busy

To move the status to the archive, select the status from the active status list, click **Delete** and click **OK** in the opened dialog box to confirm the action.



In order to restore the status from the archive, select the status from the archive list, click Restore and then click

OK in the opened dialog box to confirm the action.

Confirmation		×
?	Do you want to restore this status from the archive?	
	OK Cancel	

1.5.8 Events and Notifications

The Events and Notifications window provides the following settings:

- Event log settings
- Settings for the Emergencies panel
- System message settings

To manage the event log, expand the Settings menu in the Main Menu bar of the SmartPTT Dispatcher window

and click Events and Notifications:

nfiguration	>
Events and Notifications Event log and system notification settings	
Event Log Notification Panels Image: Save Events to Log Maximum number of records to be shown Maximum number of records to be shown 1000 Event Log Parameters O not truncate Event Log Image: Records retention period (days) 30	
Show time with milliseconds	
Help	Cancel

Save Events to Log – when the check box is selected, events data is saved in the SmartPTT Dispatcher database.

Maximum number of records to be shown – sets the number of records to be displayed in the log.

Event Log Parameters – an area to configure cleaning settings for the event log.

Show time with milliseconds – sets time format to display milliseconds.

To save changes, click on Finish.

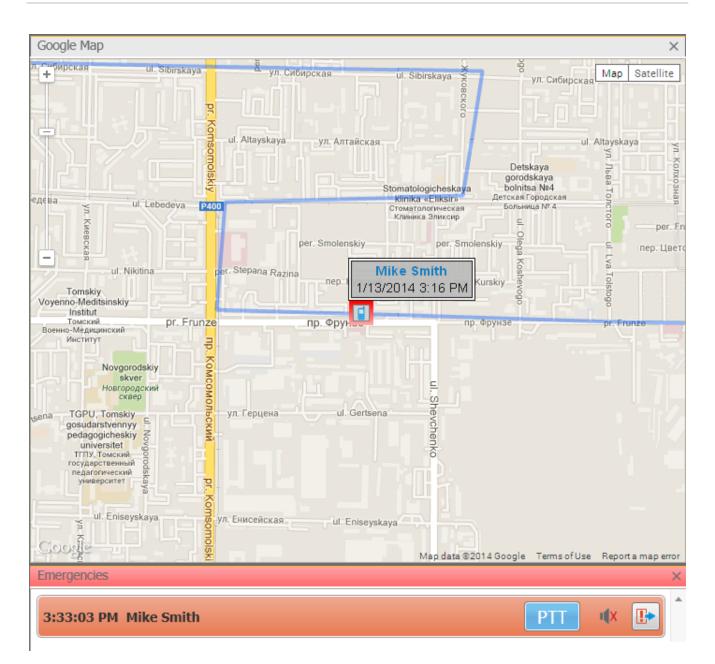
To set parameters for the **Emergencies** panel, click on the **Notification Panels** tab.

Configuration X
Events and Notifications Event log and system notification settings
Event Log Notification Panels
- Emergencies
Notify dispatcher about emergency
Category for emergency Security
Play Sound File
System Messages
Error Messages
Varnings
Information Messages
Play Sound File
Latest Incoming Calls
Remember the latest incoming calls. Number of the latest calls 5
Help Cancel Finish

Notify dispatcher about emergency – if enabled, when receiving an emergency signal from a radio subscriber, the system will open the **Emergencies** panel, play the sound file, if specified, and will open the map to display the radio sending the emergency signal. The radio location on the map is based on the latest GPS data.

Category for emergency – select a category, which will be responsible for resolving the emergency issue. If the category is selected, it will also appear on the map.

If enabled, the **Emergencies** panel opens automatically, when the system receives the emergency signal:



From the **Emergencies** panel the dispatcher can do the following:

• Make a group call. The talkgroup is set in the radio parameters in MOTOTRBO CPS.

Ŀ

- Turn off the sound alert by clicking
- Mark the issue as resolved by clicking
- At that, the **Emergencies** panel gets closed.

To set parameters for the system messages, see <u>System Messages</u>.

1.5.9 Call Windows

To configure the parameters of the **Call Window**, expand the **Settings** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Call Windows**. At that, the configuration window opens where you can configure the appearance and functions of the **Call Window**.

Configuration	×
Call Window Settings Customize Call Window Appearance and Behav	
Call Window Closing Timeout (s):	60 (0 - Manual Closing)
Open Call Window for Event Types	Registration
	Call
	V Message
	Telemetry
	Alarm
	V Status
	Block radio Hob Ticket
Maximum Number of Opened Call Windows	
Show Photo in Call Window	
Show Pinned Call Windows On Console Launch	
Set Focus to Call Window upon Popup	V
Reset	Saved Call Window Positioning
incoct.	Saved can window rositioning
Help	Cancel

Call Window Closing Timeout (s) — sets the time period in seconds at the end of which the **Call Window** closes automatically.

Note: If you enter 0 in the field, the Call Window won't close automatically.

Open Call Window for Event Types — specifies types of events triggering the Call Window opening (Registration, Call, Message, Telemetry, Alarm, Status, Block Radio, Job ticket, Lone Worker, Radio

Check).

Maximum Number of Opened Call Windows — allows you to set up the maximum number of call windows opened automatically.

Show Photo in Call Window — select to display the subscriber's photo in the Call Window.

Show Pinned Call Windows on Console Launch — if selected, the position of the **Call Windows**, pinned before the SmartPTT Dispatcher application closing, will be restored during next launch.

Set Focus to Call Window upon Popup — select the check box to focus on the **Call Window** when it is opened or have a new activity.

Reset Saved Call Window Positioning — click the button to reset the current position of the call windows.

1.5.10 Sound

Warning! For proper operation, make sure that you have a working microphone. If not, you won't be able to make or answer calls.

To set audio device settings and VoIP parameters, expand the **Settings** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Sound Settings**. At that, the configuration window opens up. The **Sound Settings** window includes:

- 1. General Settings tab
- 2. Audio Output Devices tab
- 3. Other Settings tab

The General Settings tab:

Configuration	×
Sound Settings Audio devices and	VoIP settings SmartPTT O
General Settings	Audio Output Devices Other Settings
-Audio Input	
Device	Microphone (2- USB audio CODEC)
Input Line	Audio
Noise Reduction	Disabled
Audio Input Test	Record Check Save
Audio Output	
Device	Default Check
- VoIP Parameters -	
Codec	CCITT u-Law
Codec Format	8000 Hz. 20 ms. 64 (86) kbps 🔹
VoIP Port	18501
Help	Cancel

Audio Input – audio device to which the microphone is connected. It is recommended to select the audio input device explicitly.

Input Line – audio mixer line used to connect a microphone.

Noise Reduction – allows making dispatcher sound clearer by reducing noises. You can choose several levels starting from 6 to 18 dB. If voice and noise levels are the same or close, do not enable noise reduction.

Audio Input Test – allows checking quality of microphone performance. To test your microphone performance,

click Record and then talk into the microphone. Stop recording by clicking Stop, which appears instead of

Record. To listen to what you have just recorded, click Check. You can also save the recording in MP3 format by

clicking Save.

Audio Output – audio device to which headsets or speakers are connected. To check quality of the audio output device performance, click **Check**. At that, you will hear a sound. To stop the sound, click **Stop**.

- **Codec** audio stream compression method.
- Bitrate audio stream sampling frequency.
- **VoIP Port** audio stream receive port.
- Specifications of the codec format 8000 Hz, 20 ms, 64 (86) kbps:
- **8000 Hz** the sampling rate
- 20 ms the frame size
- 64 kbps the voice data bit rate
- **86 kbps** a full bit rate (required network bandwidth)

Starting from version 8.3, dispatch console allows you to set up different audio output devices, including multiple channels, for different subscribers, talkgroups, slots, etc. E. g., you can listen to radio subscribers on the headset, and the external dispatcher on the speakers. To do that, open the **Audio Output Devices** tab.

nfiguration Sound Settings Audio devices and VoIP settings				SmartPTT	
General Settings Audio Output Devices	Other Se		gs oject	c	Clear All
Main Device	heck			Radioserver 47 ⁶ 1 ⁹ Slot 1 ¹ 2.0.0.89 Mike 37-13 37-46	
Help		_	lect herit	Audio Output Device ed Cancel	₹

 Add audio output devices in the first box on the left. These are not real output devices and are used only in dispatch console. To do that click on Add. A new record will appear on the list. Change its name, if necessary, by clicking Edit, and then select it.

onfiguration				×
Sound Settings Audio devices and VoIP settings			SmartPTT	
General Settings Audio Output Devices	Other Se		<u> </u>	Clear All
Main Device	Check	4	Radioserver 47	
Sound Max HD Left	Check		▷ [©] 1 ⁰ Slot 1 ▷ [©] 1 ⁰ Slot 2	
			² 1 12.0.0.89	
			ag Mike	

2. In the list below, select the real devices or device channels which will correspond to the added output device.

Configuration	×
Sound Settings Audio devices and VoIP settings	
General Settings Audio Output Devices Other Set	Objects Clear All
Main Device Check Sound Max HD Left Check	
	▲1 12.0.0.89 ▲1 Mike ● 37-13 ● 37-46

3. In the **Objects** list select the network object, for which you want to set up the new audio device or channel. And in the **Select Audio Output Device** dropdown list select the created output device. Thus, you assign the audio output device or channel to a network object.

nfiguration Sound Settings Audio devices and VoIP settings		SmartPTT	
General Settings Audio Output Devices	Other Se	ttings Objects	Clear All
Main Device Sound Max HD Left I:L SoundMAX HD Audio 2:R SoundMAX HD Audio	Check Check	 Radioserver 47 Image: Slot 1 Image: Slot 2 Image: 12.0.0.89 Image: Mike Image: 37-13 Image: 37-46 	
		Select Audio Output Device Sound Max HD Left Inherited	T
Help		Main Device Sound Max HD Left Cancel	Finish

Note: Select **Inherited** if you don't want to set the audio output device explicitly. In this case the object will use the audio output device which is assigned to the parent object.

	Online S	ubscribers		•	*		
Object	Map	Status					
- 🔋 Radioserver 47				>>			
- 💕 Slot 1			PTT	>>			
📇 Group 1			PTT	>>		Send Message	
👪 Group 2			PTT	»	2	Make Conference Call	
12.0.0.89	\checkmark	(empty)	PTT	»	-	Call Telephone Subscriber	
🗧 Mike	\checkmark	(empty)	PTT	>>	•	K Mute Group	
+ 👫 Slot 2			PTT	>>		Inherited	Inherited
	Offline S	ubscribers		•			Maia Davias
Object	Мар	Status					Main Device
	Cate	gories		•			Sound Max HD Left

The Other Settings tab:

Configuration	×
Sound Settings Audio device and VoIP settings	- DmartPTT
General Settings Audio Output Devices Other Settings	
Mute Mode	
Mute Mode Basic	
Increase Dispatcher Sound	
Level	-
Help	Cancel Finish

Mute Mode – provides options for muting.

Basic – in this mode when you click **to** mute the control station, the system will work in a standard way, that is you will hear nothing from the control station.

Advanced – in this mode when you click it to mute the control station, the system will work differently. You will still be able to hear private incoming calls, calls initiated on the dispatcher side or calls answered by the dispatcher.

Increase Dispatcher Sound – allows user to adjust the volume level of the dispatcher outgoing call on the receiving radio (to increase or decrease by the value of selected **Level** coefficient).

Unlike the microphone volume settings in the equalizer window, the microphone volume change applies to all

devices. Increase Dispatcher Sound regards only the radio receiving a dispatcher call.

1.5.11 Records

To set audio record settings, expand the **Settings** menu in the **Main Menu** of the SmartPTT Dispatcher window

and click Record Settings. The Audio Record Settings window opens.

Configuration	×
Audio Record Settings Recording and audio files options	
Records	
Record Calls	✓
Set sample rate to 8 kHz	Recording Level of Outgoing Calls
Folder for Audio Files Recording	C:\ProgramData\SmartPTT\RecordedCalls\Client\
Audio Files Search Paths + Add 🖍 Edit — Delete	
Audio Records Truncate Parameters	
Do not Delete Audio Records	
O Automatically Delete Audio Records Older T	han <u>30</u> days
Help	Cancel

Record Calls – select this option to record all the incoming and outgoing calls.

Set sample rate to 8 kHz - select this option to set the record quality of the audio file with a sampling rate of 8

kHz. This setting allows you to reduce the size of the saved audio file due to no major loss in sound quality.

Recording Level of Outgoing Calls – increase or decrease the sound volume for recording outgoing calls.

Recording Quality (kbps) – sets sound quality for audio files.

Folder for Audio Files Recording – sets the path to the folder with recorded audio files.

Audio Files Search Paths – sets paths to additional folders for recorded audio files.

Note: After changing the folder path where audio files are stored, the former path is automatically added to the audio files search path field.

Audio Records Truncate Parameters – sets audio record cleaning parameters.

1.5.12 Positioning Systems

To define GPS or Indoor settings, expand the **Settings** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Positioning Systems**. The **Positioning Systems** window will open.

onfiguration	>
Positioning Systems GPS and Indoor settin	gs 🧔
Coordinates Map Validity of GPS coordi	
Validity of beacon sig Time interval for GPS Accuracy Radius (ft)	coordinates update (sec) 1000 1000
Color of Subscribe	r with Valid GPS Location
Data Format	
Coordinates System of Units	Decimal Degrees
Speed	Feet per second
Save GPS Locati Database cleanup se Do not delete GP Coordinates reter	ttings 5 locations
Help	Cancel

The **Coordinates** tab contains the following parameters.

Validity of GPS coordinates: The parameter sets GPS data validity period in minutes. If new GPS coordinates were not received during this period, the subscriber's label is removed from the map.

Validity of beacon signals: The parameter defines the time period during which the received beacon signal is relevant. If new beacon signals were not received during this period, the subscriber's label is removed from the building plan.

Time interval for GPS coordinates update: It sets the default time interval for updating radio's location data. The value set in this parameter will be applied to all unregistered radio subscribers, and will be displayed in the **Properties** window of a radio subscriber in the **Location** tab.

Accuracy Radius: It sets the maximum coordinate error margin. If the received error value exceeds the value specified in this field, the coordinate is invalid.

Color of Subscriber with Valid GPS Location: It sets the color which will be used for a radio subscriber's label with valid GPS locations.

Address Data Provider: It defines the map service (Google or OpenStreetMap), which will determine the object address on the map corresponding to the subscriber's current GPS-coordinates.

Data Format: It defines the format of location data to display in the subscriber Call window:

Coordinates: It allows you to select the format of GPS coordinates:

- Decimal degrees. GPS coordinates are displayed as: lat: 56,47568, long:84,98779.
- Degrees, Minutes, Seconds. GPS coordinates are displayed as: lat: 56°28'32", long:84°59'16".
- Universal Transverse Mercator Coordinate System. GPS coordinates are displayed as: 45V 376108 B 6260913 C.

Speed Format: It allows you to select the format of a radio subscriber's speed.

System of Units: It allows you to select the measurement system (Metric or Imperial).

Note: When changing measurement system, the data previously logged won't be recalculated according to the new measurement system.

Save GPS Locations in Database: It defines if GPS coordinates received from subscribers will be stored in the database.

Database cleanup settings: It defines the scheme of deleting coordinates from the database.

The **Map** tab contains the following parameters.

Show Subscriber's Information for Map Label: It defines what information will be shown on a map label of a radio subscriber.

Size of Subscriber's Map Label: It sets the size of a subscriber's map label.

Hide subscribers with outdated locations: Select the check box to hide map labels for subscribers with outdated GPS locations. GPS location becomes outdated if it was not updated during the period set in the Validity of GPS coordinates field.

Hide offline subscribers: Select the check box to hide a map label when a subscriber goes offline.

1.5.13 Telemetry

To set up actions based on incoming/outgoing telemetry commands, expand the Settings menu in the Main

Menu bar of the SmartPTT Dispatcher window and click **Telemetry**. At that, a configuration window is displayed.

×
Contact Direction Action

To add a new telemetry command, click Add. The Telemetry Settings window is displayed.

Telemetry Settings		
Description	Lights On/Off	
Contact	1 💌	
Direction	Outgoing	
Action	Toggle Level	
	OK Cancel	

Description – description of the action to be triggered.

Contact – select a contact or VIO from the list.

Note: Make sure the selected contact or VIO is mapped to a physical GPIO line in MOTOTRBO CPS.

Direction - select direction (incoming or outgoing).

Action – action type: *impulse*, *high level*, *low level*, *toggle level*.

To save the changes click **OK** – the created settings appear in the list of settings.

To edit the existing settings, select the entry in the list of settings and click Edit.

To delete the settings, select the entry in the list of settings and click **Delete**.

How to Assign Telemetry to the Radio Subscriber

You can select telemetry settings in the subscriber's **Properties** window.

Note: Only registered subscribers can be assigned to a telemetry command. For not registered subscribers the **Telemetry** button will be unavailable.

Properties:	89	×		
General	Location			
h	CAI 12 Radio ID 155			
	MDC ID 5 Tone ID			
1	Name 89			
Select	x Status (empty)	▼		
Lone Worker				
Save Cancel				

Click the **Telemetry** button to open the window for selecting available telemetry commands for the subscriber.

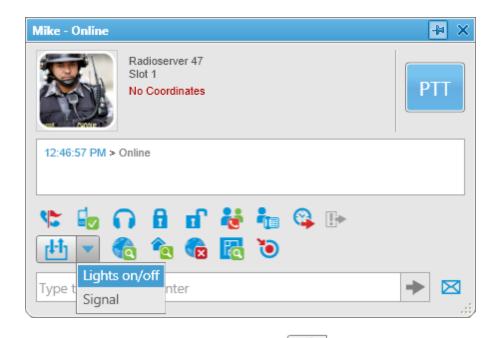
Telemetry for - 89		×
Description	Select	-
Door is closed (Incoming, 3, High Level)	~	
Door is opened (Incoming, 3, Low Level)	~	
Lights on/off (Outgoing, 4, Toggle Level)	\checkmark	
Signal (Outgoing, 5, Impulse)	~	
		Ŧ
Update GPIO pins' status		
Interval, s 600		
GPIO Pin 1 2 3 4 5		
OK Cancel		

Select the required command to make it available in the **Call Window** of the radio subscriber and in the custom consoles. Also, it allows you to set automatic status updates of the GPIO pins. To receive status updates of the

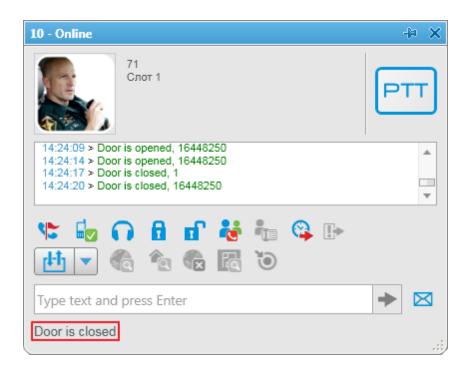
GPIO pins automatically, select the required GPIO pins in the **Update GPIO pins' status** area and set the update interval in seconds.

Note: Automatic GPIO pins' status update is applied only for incoming telemetry commands.

Then you can run the telemetry command from the subscriber's **Call Window**.



To receive the current telemetry status, click . The updated status will be displayed in **Call Window** of the radio subscriber.



How to Assign Telemetry to the Talkgroup of Radio Subscribers

You can select telemetry settings in the **Properties** window of the talkgroup.

Click the **Telemetry** button and select available telemetry commands for the talkgroup.

Group 1 X	Telemetry for - Group 1		×
Comment:	Description	Select	-
	Door is closed (Incoming, 3, High Level)		
	Door is opend (Incoming, 3, Low Level)		
	Light on/off (Outgoing, 4, Toggle Level)		
	Signal (Outgoing, 5, Impulse)		
Save Cancel			

Then you can run the telemetry command from the talkgroup's **Call Window**.

Radioserver 47 / Slot 1 / Group 1	-l≉ ×
	PTT
1:30:32 PM <> Group Call, 47 (1 s) 1:30:34 PM <> Group Call, 47 (2 s) 1:30:35 PM <> Group Call, 47 (1 s) 1:30:37 PM <> Group Call, 47 (1 s) 1:30:40 PM < Lights on/off 1:30:45 PM < Signal	* = *
Image: Signal Image: Signal	▶ ⊠

1.5.14 Categories

To create a category structure, expand the **Settings** menu in the **Main Menu** bar of the SmartPTT Dispatcher

window and click **Categories**. The configuration window for setting up the category structure opens.

Configuration	×
Categories Category Structure	
🕂 Add 🖌 Edit 🗕 Delete	
 CATEGORIES Drivers Managers Senior manager Junior manager Engineers 	
Show "No Category" Folder	
Help	Finish

Show "No Category" Folder – displays a list of all online subscribers (radio subscribers, talkgroups) in the No Category folder of the Radio Fleet panel (filter by category), without reference to categories.

Radio Fle	eet	×
** * 1 * 1]	⊙ *1 * ⊙ ∄
	All statuses 🔍	+ -
Object	Status	
🛚 🧮 Drivers		≫ ^
🛚 🧮 Managers		\gg
Engineers		\gg
🔺 🖿 No Category		\gg
🚢 Group 2		PTT »
1		PTT »
4000		PTT »

To create a new category, click Add in the Categories window.

Enter Category Name	×
Category	
ОК	Cancel

To edit the existing category name, select it in the list and click **Edit**. To remove a category, select it in the list and click **Delete**.

To move categories inside a parent category, use arrow button on the right. To move the categories between

levels, click on a category, hold the left mouse button and drag it to a new position.

The categories are displayed in the **Radio Fleet** panel (filter by category is selected).

Radio Fle	eet >	×
) •••••	ħ
	All statuses 💌 🕂 —	-
Object	Status	
🔺 🚍 Drivers	» *	•
🚢 Group 1	PTT »	
4000	PTT »	
🔺 🚍 Managers	>>	
🔺 💳 Senior manager	>>	
🚢 Group 2	PTT »	
🔺 🔁 Junior manager	>>	
📇 Group 1	PTT »	
🚢 Group 2	PTT »	
🔺 🚍 Engineers	>>	
4000	PTT »	
🛚 🧮 No Category	>>	

Click the button 🔊 next to the category name to apply actions to all the subscribers from the category.

Radio Fle	eet		\times	
]	© *1 *	Ŧ	
	All statuses	- +	-	
Object	Status			
🔺 🚞 Drivers		>>	\boxtimes	Send Message
🚢 Group 1		PTT »		Show on Map
4000		PTT »		
🔺 🔤 Managers		>>		Remove from Map
🖌 🔚 Senior manager		>>		View Properties

Send Message – opens the window for sending messages.

Show on Map – displays all subscribers from this category on the map, if it is opened.

Remove from Map – removes all subscribers of this category from the map, if it is opened.

View Properties – opens the window of properties of the category. Also you can right-click on the category name in order to open this window.

Category: Managers X	Category: Managers	×	Category: Managers	×
Common Subscribers Talkgroups	Common Subs	cribers Talkgroups	Common	Subscribers Talkgroups
Name Managers Status (empty) Update location: W with distance interval, s on GPIO pin status change on emergency	100 2525		 Radioserver Slot1 Group 1 Group 2 Slot2 Group 1 Group 2 	
OK Cancel	ОК	Cancel		K Cancel

The Category window consists of three tabs: Common, Subscribers, Talkgroups.

The **Common** tab:

Name – the category name.

Status – the general status of all subscribers in the category. If the status of at least one subscriber in the category is changed, the category's general status becomes undefined.

Update location – the group of the general GPS-monitoring settings of all subscribers in the category. The parameters of the general GPS-monitoring settings can have three possible states:

– Checked **W**. Shows that the parameter is set for all subscribers in the category.

– Unchecked . Shows that the parameter is not set for all subscribers in the category.

– Mixed choice . Shows that the parameter is set for some subscribers in the category.

The **Subscribers** tab contains the list of all subscribers in the system. In order to assign a subscriber to the category, select the appropriate check box in the list of subscribers. Only registered subscribers can be assigned to a category. Not registered subscribers will be in italics on this list, and you won't be able to select them. The **Talkgroups** tab contains the list of all talkgroups in the system. In order to assign a group to the category, select the appropriate check box in the list of talkgroups.

Note: Radio subscribers and talkgroups can be assigned to a category. However, the actions applied to the category members will be addressed only to radio subscribers.

1.5.15 Dispatchers

SmartPTT Dispatcher allows you to connect to other dispatchers who use the SmartPTT system. But before connecting to other dispatchers you must check or do the following:

1. Make sure that the operator has the permission Connect with external dispatchers (Settings > Operators).

If not, the **Dispatchers** button will be unavailable in the **Main Menu**, and calls to other dispatchers will be impossible.

2. Make sure that at least one dispatcher is added to the dispatchers list in **Settings > Dispatchers**. If the list is

empty, the **Dispatchers** button will be unavailable in the **Main Menu** even if the permission **Connect** with external dispatchers is selected.

To set up connection to other dispatchers, expand the **Settings** menu in the **Main Menu** bar and click

Dispatchers.

Configuration				×
Dispatchers Dispatcher List participating in Intercommunication	Sma	ntP1		
Dispatcher Settings VoIP Port 18501 Session Port 18501 VoIP Sound Alert for Incoming Call Play Sound Alert for Outgoing Call Add Colored Edit Delete				
Name	▲ IP-address	VoIP Port	Session Port	-
Dispatcher_137	192.168.37.137	18501	18501	
Dispatcher_170	192.168.36.170	18501	18501	
Dispatcher_71	192.168.37.71	18501	18501	
				Ŧ
Help			Finish	

VoIP Port — UDP port of this dispatcher's PC for voice transmission. The default value is *18501*.

Session Port – TCP port of this dispatcher's PC for transmission of commands and text messages. The default value is *18501*.

Play Sound Alert for Incoming Call – select this check box to play a tone for an incoming call.

Play Sound Alert for Outgoing Call – select this check box to play a tone for an outgoing call.

To add a new dispatcher, click Add.

Dispatcher		×
	Name	Dispatcher_46
	Address	192.168.37.46
	VoIP Port	18501
Select x	Session Port	18501
Sound for Incomi	ng Call Alert	
x C:\Pro	gram Files (x86)	\SmartPTT\Client\Sound\Inco
	ОК	Cancel

Name – the dispatcher's name displayed in the list of dispatchers.

Address - IP address of the dispatcher's workstation (DNS name can be used).

VoIP Port – UDP port for voice transmission.

Session Port – TCP port for transmission of commands and text messages.

Select – the path to the file of the dispatcher's photo.

Sound for Incoming Call Alert – the path to the sound file which will play in the dispatch console when this

dispatcher calls.

To save the changes, click **OK**. At that, a new dispatcher is added to the list of dispatchers.

To edit dispatcher settings, select it in the list of dispatchers and click Edit.

To remove a dispatcher, select it in the list of dispatchers and click **Delete**.

To call the dispatcher, open the **Dispatchers** window by clicking the button . At that, the following window opens.

Dispatchers		×
Dispatcher_137 Dispatcher_46	Online Offline	Dispatcher_71
Dispatcher_71	Offline	Dispatcher_/1
Dispatcher_170	Offline	8/13/14 12:52:44 PM > Message text 8/19/14 4:20:08 PM < 67567567
		Type text and press Enter
		🕪 Connect 💦

On the left you can see available dispatchers with different statuses. These can be:

Offline – the dispatcher is not available for communication. This means that the dispatcher has not launched

SmartPTT Dispatcher, or does not have the permission (Connect with external dispatchers).

Online – the dispatcher is available for communication.

Ringing – calling to the dispatcher to establish voice communication.

Call – voice communication is established.

To call a dispatcher, select it from the list, and click **Connect**. To end the call, click **Disconnect** (this button appears as soon as you have started communication).



To add online dispatchers to a conference call, click

To mute your voice transmission, click equal . You will still hear the other dispatcher. This button becomes available when the call is started.

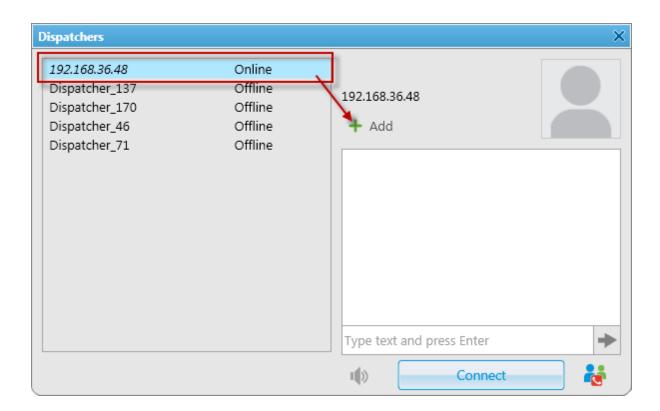
To send a message to the selected dispatcher, enter the text of the message and click

Dispatchers		×
Dispatcher_137 Dispatcher_46 Dispatcher_71	Online Offline Offline	Dispatcher_137
		2:44:27 PM < Last Christmas, I gave you my heart 2:44:36 PM < But the very next day 2:47:51 PM > You gave it away 2:48:35 PM > Thanks for the chat ;) 2:48:39 PM < yeah, exactly
		Please, call me asap
		🕪 Connect 📸

To answer or decline the incoming call from a dispatcher, click **Accept** or **Decline** in the opened window:

Incoming call		×
Dispatcher		
Dispatcher_46		
Accept	Decline	

If the incoming call is made by the dispatcher not on the list you will see its IP address in the **Incoming call** window. You can add the unregistered dispatcher in the **Dispatcher** window by clicking on the **Add** button.



1.5.16 Telephone Subscribers

To view the list of registered telephone subscriber, expand the Settings menu in the Main Menu and click

Telephone Subscribers. The list includes all telephone subscribers that support SIP connection. You can modify and delete existing subscribers, or add new subscribers.

onfiguration	
Telephone Subscribers Edit the list of telephone subscribers	
🕂 Add 🖌 Edit 🗕 Delete	
Telephone Subscriber	Address
Logistics	1863
Moscow office	1865
Security	1862

Note: SIP connection can be established also with telephone subscribers not added to the list. To make an outgoing call, you can use a dial pad.

To add a telephone subscriber to the list of subscribers, click Add. At that, the following window opens.

Telephone Subscri	ber X
Select x	Subscriber Telephone subscriber SIP-Address Automatic (default gateway and prefix) Number 441112 Full Address (sip : prefix number @ gateway : port)
	Outgoing sip:12441112@82.200.114.46:5060 Incoming sip:441112@82.200.114.46:5060
Enable SIP Accou	int 🗌 🔍 💌
Sound for Incom	ing Call Alert 🗙 📖 C:\Program Files (x86)\SmartPTT\Client\Soun
	OK Cancel

Subscriber – type the name of telephone subscriber.

The SIP Address area allows you to specify the telephone subscriber address.

There are several options to enter the address of the subscriber. First, the outgoing and incoming address fields can be generated automatically using the default gateway settings. To do that, click **Automatic**.

Second, you can enter the addresses manually by clicking **Full Address** (use the following format – *sip:prefix*

number@gateway:port).

Select the **Enable SIP Account** check box and specify the required SIP account from the list of available to carry out SIP connection under the set account. For SIP account setup details in SmartPTT Dispatcher see <u>SIP</u>

Accounts.

Sound for Incoming Call Alert – the path to the sound file which will play in the dispatch console when this telephone subscriber calls.

Click **OK** to save the changes.

As soon as you have added a new telephone subscriber, it appears in the **Telephone Subscribers** window.

Please remember that the Allow Calls to Telephone Subscribers check box in the <u>Telephone Interconnect</u> window must be selected.

To edit or delete the telephone subscriber from the list, click the corresponding button.

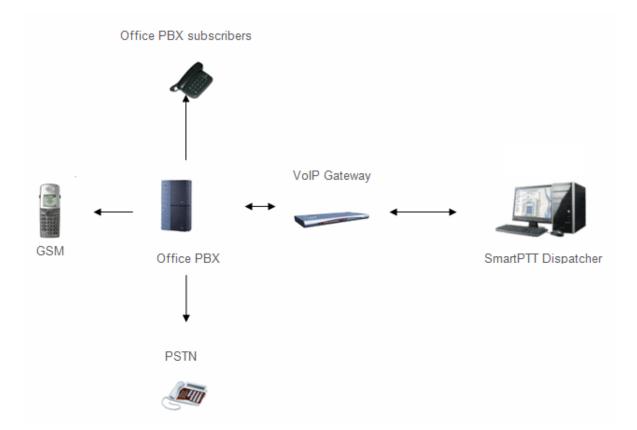
1.5.17 Telephone Interconnect

SmartPTT Dispatcher has a built-in function to make telephone connections with telephone subscribers. A call can be initiated both by the dispatcher and the telephone subscriber. Standard VoIP gateways are used to connect to telephone subscribers. The following connection options are possible:

- 1. The dispatcher calls the office PBX subscriber and voice is transmitted in full-duplex mode.
- 2. The office PBX subscriber calls the dispatcher and voice is transmitted in full-duplex mode.
- 3. SmartPTT Dispatcher connects telephone and radio subscribers.

Connection and subscriber addressing are implemented via SIP protocol. Voice data is transmitted via RTP protocol.

The connection scheme:



A VoIP gateway is a device which bridge conventional telephone networks and equipment to VoIP telephone networks.

A Private Branch eXchange (PBX) is a telephone exchange that serves a particular business or office.

The Public Switched Telephone Network (PSTN) is the network of the world's public circuit-switched telephone

networks.

SIP Architecture

Call service management is distributed between different elements of SIP network. The basic functional unit that implements connection management are User Agents, which are endpoints of a call (that is each of the participants in a call). The remaining network elements (SIP-servers) are responsible for call routing and can provide additional services.

1. User Agents

User agents are both the computer that is being used to make a call, and the target computer that is being called. These make the two endpoints of the communication session. There are two components to a user agent: a client and a server. When a user agent makes a request (such as initiating a session), it is the User Agent Client (UAC), and the user agent responding to the request is the User Agent Server (UAS). Even though other devices that we'll discuss are optional to various degrees, User Agents must exist for a SIP session to be established.

2. Proxy Server

Proxy servers are computers that are used to forward requests on behalf of other computers. If a SIP server receives a request from a client, it can forward the request onto another SIP server on the network. While functioning as a proxy server, the SIP server can provide such functions as network access control, security, authentication, and authorization.

3. Registrar Server

Registrar servers are used to register the location of a user agent who has logged onto the network. It obtains the IP address of the user and associates it with their user name on the system. This creates a directory of all those who are currently logged onto the network, and where they are located. When someone wishes to establish a session with one of these users, the Registrar server's information is referred to, thereby identifying the IP addresses of those involved in the session.

4. Redirect Server

The Redirect servers are used by SIP to redirect clients to the user agent they are attempting to contact. If a user agent makes a request, the Redirect server can respond with the IP address of the user agent being contacted. This is different from a Proxy server, which forwards the request on your behalf, as the Redirect server essentially tells you to contact them yourself.

SIP determines the following addressing system: *[sip:] id [@ fragment]*. ID indicates user name or phone number of the subscriber. Fragment specifies the host, which can be set to the domain name, the IP-address of the

computer or the address of the VoIP gateway. Caller ID can be presented in different ways, such as user_name@[domain name], name@[IPaddress], phone_number@[VoIPgateway].

SIP Connection Methods

There are two SIP connection types – SIP trunking and using a SIP account.

SIP trunking is used when a user agent (SmartPTT Dispatcher in our case) has a static IP address. This IP address must be prescribed on SIP server only once, and the client does not require to re-register on the SIP server. SIP trunking provides security by means of password authentication for incoming and outgoing calls. If the client IP address changes periodically, use a SIP server account to establish the connection. When the client turns on, it sends a special package for SIP registration to the server. The package contains authentication data (SIP account user name, login, password) and the current IP address. Since then server knows where to route calls addressed to the client. After a period of time the client automatically updates the registration. If its IP address has changed, SIP server accordingly updates the information on this user.

Telephone Interconnect Configuration

To configure connection parameters with telephone subscribers, expand the Settings menu in the Main Menu

bar of the SmartPTT Dispatcher window and click **Telephone Interconnect**.

figuration						
elephone Interconn Telephone interco						¢
General Settings Dispatcher Setting	Codec Settings ngs lephone Subscriber	SIP Trunk Authentication	SIP Accounts			
Transport SIP Port Phone Number VoIP Gateway D Dial Prefix for O Dial Prefix for In Default VoIP Gat	UDP 5061 100 efault Settings utgoing Calls coming Calls			Interface RTP Ports ed Subscriber Name	192.168 18700 Dispate	- 18748
-	lert for Incoming Ca lert for Outgoing Ca					
Help				Car	icel	Finish

The Telephone Interconnect window includes:

- 1. General settings
- 2. Codec settings
- 3. SIP Trunk Authentication
- 4. SIP accounts

General Settings

The General Settings tab includes Dispatcher Settings and VoIP Gateway Default Settings sections.

1. Dispatcher Settings

Allow Calls to Telephone Subscribers – select the check box to be able to make and receive calls between

SmartPTT Dispatcher and telephone subscribers.

Note: If the check box is not selected, the Telephone Subscribers window is unavailable.

RTP Ports – each connection with the telephone subscriber requires two UDP ports (even port numbers are used by RTP protocol, uneven – by RTCP). Thus, the specified ports must be available both for incoming and outgoing traffic. The default port range is *18700–18748*.

Warning! If both SmartPTT Dispatcher and SmartPTT Radioserver are installed on one computer, the port range set in the "RTP Ports" field in SmartPTT Dispatcher must differ from the port range set in the "RTP ports" field in SmartPTT Radioserver Configurator.

Interface – IP address of the local computer, used to receive and transmit commands and voice data. If the dispatcher's computer has only one IP address, the system can select it automatically; if it has more than one IP address, the IP address (interface) should be specified expressly. The specified IP must be available from the VoIP gateway end.

Warning! If several network interfaces are installed on the computer you may have to configure the routing table using the command "route add ...".

SIP Port – UDP or TCP port number to receive and send SIP data packets. The default value is *5060*. Accordingly, the specified port must be available for incoming and outgoing traffic.

Warning! If both SmartPTT Dispatcher and SmartPTT Radioserver are installed on one computer, their SIP ports must differ. In this example it must be *5061* because *5060* is already taken by the radioserver.

Displayed Telephone Number – type the telephone number which allows you to connect to SmartPTT Dispatcher. This number is also displayed on the screen of the receiving SIP call device (phone or softphone). **Subscriber Name** – type the name to be displayed on the screen of the receiving SIP call device (phone or softphone).

2. VolP Gateway Default Settings

If VoIP Gateway Default Settings are specified, it is enough to set only subscriber phone numbers in the List of Subscribers tab. Also, these parameters are used to dial the called subscriber number manually (click the Dial Pad button and the Dial Pad window opens).

Default VoIP Gateway Address – the VoIP gateway IP address.

SIP Port – a VoIP gateway to receive and send SIP data packets. By default VoIP gateways use the UDP port *5060*.

Dial Prefix for Outgoing Calls – numeric prefix added to the called subscriber number by SmartPTT Dispatcher. VoIP gateway uses the prefix to determine where the call came from and what rules it must apply to the call (block or allow, where the call must be routed).

Dial Prefix for Incoming Calls – numeric prefix value in this field must match the same VoIP gateway prefix. If default VoIP gateway is used, the telephone subscriber's complete SIP address will be as follows:

SIP address = Dial Prefix for Outgoing Calls + Phone Number + @ + Default VoIP Gateway Address + : + Gateway SIP Port.

Example:

If the following settings are used: Default VoIP Gateway Address = **192.168.0.243** SIP Port = **5060** Dial Prefix for Outgoing Calls = **12** The telephone subscriber with the phone number 1140 is automatically assigned the following outgoing SIP address = **121140@192.168.0.243:5060**.

Note: If your network uses a firewall, consult a network administrator about the possibility of using SIP protocol and the required settings. The most common problem is that the media streams (for example, voice) are transferred over dynamically assigned UDP ports that are generally closed. The firewall must be able to dynamically open and close ports based on the transferred SIP signaling. Another problem is that the SIP clients inside the firewall cannot be reached by IP addresses since these most often are private and local to the LAN. Communication simply does not take place, unless there is specific SIP support in the firewall.

Play Sound Alert for Incoming Call – select the check box to enable ringing at the SmartPTT Dispatcher application when a telephone subscriber calls.

Play Sound Alert for Outgoing Call – select the check box to enable ringing at the SmartPTT Dispatcher application when making a call to a telephone subscriber.

Sound Level – allows you to configure the sound level in the dispatch console coming from the telephone subscriber.

3. VoIP Gateway Configuration

The VoIP gateway administrator must ensure that SIP addresses for incoming calls are appropriately interpreted and switched to phone numbers.

In the example above the telephone subscriber address is *sip:121140@192.168.0.243:5060* and the dial prefix for outgoing calls is *12*. Therefore VoIP gateway rules must discard the incoming prefix *12* from the full address and connect the dispatcher to the telephone subscriber number, that is *1140*.

You should also configure appropriate generation rules for outgoing SIP addresses to call other dispatchers. For example, if the telephone subscriber with the number **1140** assigned wants to connect to the dispatcher with the address **192.168.0.105:5060**, then generation rules for outgoing SIP addresses on the VoIP gateway must generate the correct destination address **sip:1@192.168.0.105:5060** (the **Displayed Telephone Number** value must be set as the SmartPTT Dispatcher identifier) and the sender's correct address

sip:1140@192.168.0.243:5060 (a dial prefix for incoming addresses is not set so the name in the sender's address is the same as the phone number).

Codec Settings

In the **Codec Settings** tab you can enable or disable supported audio codecs, as well as change their priorities. Currently, there are 4 audio codecs: G711A, G711Q, SPEEX I G729.

SIP Trunking Authentication

The **Telephone Interconnect** window contains authentication settings in a separate tab.

– Incoming Calls Enabled	Authentication —		
Enabled [
Realm	SmartPTT		
User Name	Пользователь 1		
Password	*****		
– Outgoing Calls Enabled [Authentication		
Realm	SmartPTT		
User Name	Пользователь 1		
Password	***********		

Incoming Call Authentication – the setting includes parameters required for incoming call authentication. When an incoming call from a phone/softphone is received, dispatcher asks user name and password corresponding to **Realm** in the described setting. Calling subscriber must send back user name and password specified in this setting. The authentication type is not required if the incoming call is addressed to subscriber using SIP account for connection. To activate this ability, select the **Enabled** check box.

Realm – parameter used for the incoming telephone calls authentication.

User Name – name of the user used for authentication.

Password – password used for authentication.

Outgoing Call Authentication – the setting includes parameters required for outgoing call authentication.

Realm – if not set, SmartPTT Dispatcher responds to any any authentication request with specified user name and password. If set, SmartPTT Dispatcher responds only to authentication requests that matches the **Realm**

value.

User Name – user name used for authentication.

Password – password used for authentication.

SIP Accounts

If SmartPTT Dispatcher IP address varies, there must be a mechanism for determining its current value. In order to do this, SIP registration can be used, allowing the dispatcher to inform SIP server of its actual IP address. For example, *Client 1* has current IP address *192.168.0.224*, *Client 2 – 192.168.0.98*. It is necessary to establish connection between them, while both subscribers are not aware of each other's IP addresses. To do this, create accounts on SIP server (*sip_server.com*) for both subscribers *– user1* (*sip: user1@sip_server.com*) and *user2* (*sip: user2@sip_server.com*) respectively. SIP server stores current IP address of *Client 2* to make a call. *Client 1* and *Client 2*. Therefore, *Client 1* is not required to know current IP address of *Client 2* to make a call. *Client 1* refers to the SIP server under its account and requests connection with *Client 2* pointing out its SIP account. The SIP server searches its database for the current IP address of *Client 2*, returns it to *Client 1* or redirects the call from *Client 1* to *Client 2*.

The **SIP Accounts** tab in the **Telephone Settings** window contains dispatcher SIP account parameters. These accounts are created by the dispatcher on various SIP servers in advance. The parameters are used to establish connection with other server subscribers.

The **Status** field displays the account registration status on SIP server. Possible values – *Registered*, *Not registered*, *Processing*, and SIP error messages.

To add a record about a new SIP account, click Add. At that, the following window opens.

SIP Account		×
Active	¥	
Display Name	Alex	
Username *	Username1	
SIP Server *	192.167.34.145 Po	rt 5060
Proxy	Po	rt 5060
Domain	Tomsk	
Login	Alex123	
Password	*******	
Registration Renewal Timer	3600	
	OK Cancel	

Active – select this check box to enable account registration on SIP server.

Display Name – the name that appears on the subscriber device screen.

Username – the account identifier on the SIP server.

SIP server – remote SIP server IP address.

Proxy – proxy server which can be used for special cases (for example, some providers insist on using proxy to request SIP server).

Domain – parameter for SIP server account authentication.

Login – login for SIP server account authentication.

Password – password for SIP server account authentication.

Registration Renewal Timer – time period (in seconds) between requests for the dispatcher IP address update on the SIP server.

The following example is focused on setting up connection between SmartPTT Dispatcher (*Dispatcher 1*) and two other SIP clients (Linphone, MicroSIP, 3CX, or SmartPTT Dispatcher) (*Dispatcher 2*, *Dispatcher 3*). These settings

allow *Dispatcher 1*, *Dispatcher 2*, and *Dispatcher 3* to interact with one another as 3CX server subscribers.

In order to do this:

1. Create SIP accounts for three SIP clients using the selected VoIP service provider, for example, accounts with ID = 105, 106, and 107 on the 3CX SIP server.

2. In the **SIP Accounts** tab, as *Dispatcher 1* add records corresponding to the created SIP server accounts with **ID** = 105; *Dispatcher 2* – with **ID** = 106; *Dispatcher 3* – with **ID** = 107.

Dispatcher 1		Dispatcher 2		Dispatcher 3	
SIP Account	×	SIP Account	×	SIP Account	×
Active	V	Active	V	Active	V
Display Name	105	Display Name	106	Display Name	107
Username *	105	Username *	106	Username *	107
SIP Server *	192.168.0.140 Port 5070	SIP Server *	192.168.0.140 Port 5070	SIP Server *	192.168.0.140 Port 5070
Proxy	Port 5060	Proxy	Port 5060	Ргоху	Port 5060
Domain	3CXPhoneSystem	Domain	3CXPhoneSystem	Domain	3CXPhoneSystem
Login	105	Login	106	Login	107
Password		Password	*****	Password	
Registration Renewal Timer	3600	Registration Renewal Timer	3600	Registration Renewal Timer	3600
	OK Cancel		OK Cancel		OK Cancel

3. As *Dispatcher 1* add records of the two subscribers (*Dispatcher 2*, *Dispatcher 3*). Connection with these subscribers will be established via SIP server accounts.

Add the new subscribers in the **Telephone Subscriber** window. Fill in the **Subscriber** field. Click **Full Address** (**Automatic** can also be selected if **VoIP Gateway Default Settings** allow you to connect to the selected SIP server) and specify the outgoing and incoming SIP addresses corresponding to the called subscriber. Select the *Dispatcher 1* SIP account in the **Enable SIP Account** field (see step 2).

Dispatcher	1
------------	---

Telephone Subscril	Telephone Subscriber X		Telephone Subscri	iber X
Telephone Subscrift	Subscriber 106 SIP-Address Automatic (default gateway and prefix) Number Full Address (sip : prefix number @ gateway : port) Outgoing sip:106@192.168.0.140:5070 Incoming sip:106@192.168.0.140:5070 Imable SIP Account 105@192.168.0.140:5070		Telephone Subscri	iber × Subscriber 107 SIP-Address Automatic (default gateway and prefix) Number • • Full Address (sip : prefix number @ gateway : port) • Outgoing sip:107@192.168.0.140:5070 Incoming sip:107@192.168.0.140:5070 ✓ Enable SIP Account 105@192.168.0.140:5070
	OK Cancel	J		OK Cancel

Created subscriber entries appear in the **Telephone Subscribers** window.

4. Complete the same settings for Dispatcher 2 (create account with ID = 106 in the SIP accounts tab; add subscribers 105 and 107 in the List of Subscribers tab) and Dispatcher 3 (create account with ID = 107 in the

SIP accounts tab; add subscribers 105 and 106 in the List of Subscribers tab).

	riber X	Telephone Subscr	iber
Select x	Subscriber 105 SIP-Address Automatic (default gateway and prefix) Number	Select x	Subscriber 107 SIP-Address Automatic (default gateway and prefix) Number Full Address (sip : prefix number @ gateway : port) Outgoing sip:107@192.168.0.140:5070
spatche		Telephone Subscr	Incoming sip:107@192.168.0.140:5070 ✓ Enable SIP Account 106@192.168.0.140:5070 OK Cancel iber
Select x	Subscriber 105 SIP-Address Automatic (default gateway and prefix) Number © Full Address (sip : prefix number @ gateway : port) Outgoing sip:105@192.168.0.140:5070	Select x	Subscriber 107 SIP-Address Automatic (default gateway and prefix) Number Full Address (sip : prefix number @ gateway : port) Outgoing sip:106@192.168.0.140:5070

5. To apply settings, click **Finish** in the **Telephone Settings** and in the **Telephone Interconnect** windows.

How to Call a Telephone Subscriber

To call the telephone subscriber from the dispatch console, click the button

Dispatcher - Диспетчер									Internation of
Operators Map	Event Log	View	Settings	Sei	vice	Reports	Help		i 2
	Calls			×	Event	s: records - 10	000	/	
					Move	column header h	iere for grou	uping	
					Ty	/pe	Date	e/Time	 Operator

At that you will see the following window:

Telephone Subscribers		×
Telephone Subscribers	Dial Pad	
Internal_Logistics		C
Internal_Security		Internal_Logistics
Moscow office		
		8/11/14 12:11:08 PM < Call (1 min. 28 s) 8/11/14 2:54:17 PM > Call (2 s) 8/11/14 2:59:35 PM > Call (15 s) 8/11/14 3:00:43 PM > Call (17 s) 8/11/14 3:23:59 PM > Call (17 s) 8/11/14 4:53:58 PM > Call (1 s) 8/26/14 2:41:07 PM > Call (22 s) 8/26/14 4:30:58 PM > Call (8 s) 3:30:08 PM > Call (1 s)
		Connect 😽

To call the telephone subscriber, select it from the list and click **Connect**. In the **Telephone subscribers** tab you can see not only added telephone subscribers, but also unregistered telephone subscribers (their numbers are in *italics*), and three latest calls (at the top of the list).

👪 is used for running a conference call with the selected telephone subscriber. For more information about this

function see <u>Conference Calls</u>.

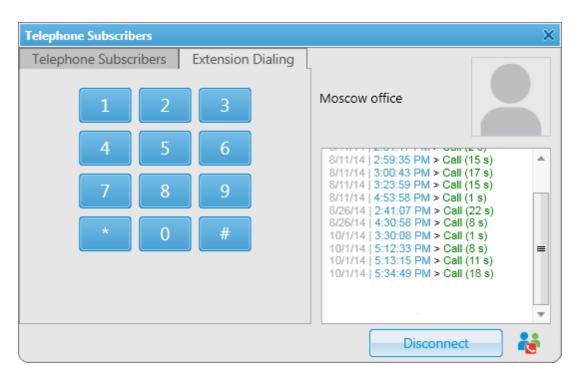
To make a call to a telephone subscriber not on the list, go to the **Dial Pad** tab. You can dial the telephone number or enter it in the input field above the dial pad.

Telephone Subscribers			×
Telephone Subscribers	Dial Pad	7	
4051251		4051251	
1 2	3	4051251	
4 5	6		
7 8	9		
< 0	Del		
		Con	nect 💦 😽

If you need to dial an extension to reach a telephone subscriber, do the following:

1. Dial the phone number after which you will need to add the extension. Then, you will see a new tab

Extension Dialing.



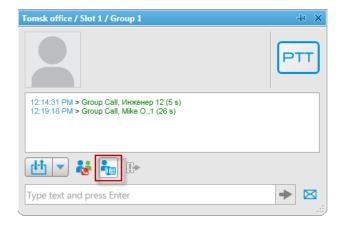
2. In this tab, dial * to turn on DTMF mode (not obligatory, depends on the telephone parameters).

3. Dial the extension number and then #.

If the incoming call is made by a telephone subscriber, who is not on the list, you can add the subscriber by clicking on the **Add** button, which will appear.

To connect a radio subscriber or a talkgroup to a telephone subscriber, open the **Call Window** of the radio subscriber or the talkgroup and click the **Call Telephone Subscriber** button.

Mike O Online		-l¤ ×
Tomsk office Slot 1 Status: Busy	P	ТТ
9/26/14 6:17:50 PM > Off 9/29/14 9:46:02 AM > Online		
9/29/14 10:02:42 AM < Private Call, Инженер 12 (14 s) 9/29/14 10:02:42 AM < Private Call, Инженер 12 (15 s) 9/29/14 10:03:33 AM < Private Call, Инженер 12 (9 s) 9/29/14 10:05:18 AM < Private Call, Инженер 12 (8 s) 9/29/14 10:05:08 AM < Private Call, Инженер 12 (6 s) 9/29/14 10:09:06 AM < Private Call, Инженер 12 (6 s) 9/29/14 10:09:06 AM < Private Call, Инженер 12 (5 s) 12:14:31 PM > Online 12:17:59 PM < Status: Busy		-
	•	
Type text and press Enter	•	\boxtimes



You can also use **Action List**, where you can select **Call Telephone Subscriber**. At that the following window will open.

C	all Te	elephone Subscriber	for Group 1 X
			Dial Pad
		Name	Address
	¢.	Moscow office	4503934
	¢.	Internal_Logistics	1865
	L.	Internal_Security	1864
		Connect	Cancel

Select the telephone subscriber from the list and click **Connect** or double-click on the list item. This list is taken from the list of telephone subscribers created in the <u>Telephone Subscribers</u> window. If the subscriber is not on the list, click **Dial Pad** to enter the telephone number manually.

At clicking **Connect**, a new window with the call status opens.



There are three statuses:

- Ringing
- Call
- Call Complete

If the connection attempt is failed, status window shows the corresponding error message.

To manage the call process, the dispatcher can use the buttons next to the call status:

• stops the call. Should the radio subscriber make a call right after the telephone call, it is necessary for him or her to wait for a special tone notifying about the end of the call. If the radio subscriber presses the PTT button before this tone, an incorrect phone call will be initiated.

Image: connection to the telephone subscriber.

1.5.18 Job Ticket Statuses

Here you can create job ticket statuses and specify their settings. For example, assign a color to a status or add alert on status change.

To create job ticket statuses, expand the Settings menu in the Main Menu bar of the SmartPTT Dispatcher

window and click Job Ticket Statuses. At that, the following window opens.

Configuration		×
Job Tickets Job Ticket Status Configuration	Smart	
 Enable Automatic Numbering Send notification to subscriber when uncompleted job ticket was deleted by dispatcher Default Status Assigned Color Color + Add Edit - Delete 		
Name	Completion Status	Sound On
In progress Done	×	
Cancelled		
Help		Finish

Enable Automatic Numbering – when this option is enabled, a unique number is assigned to each new job

ticket. It is necessary to distinguish job tickets with same names.

Send notification to subscriber when uncompleted job ticket was deleted by dispatcher - if this option is

enabled, a radio subscriber receives a message, if an incomplete job ticket was canceled.

Default Status – the job ticket status which is displayed when the operator creates a new job ticket. The status does not change, until the radio subscriber modifies it. You do not need to set this status in the MOTOTRBO CPS settings. It is used only in SmartPTT Dispatcher, so you can add any value you like.

In the Color field select the color for the default status.

To add a job ticket status, click Add.

Job Ticket Status		×
Name	Done	
Color		
Completion Status	 Image: A start of the start of	
Sound		
	OK Cancel	

Name – name of the status.

Color – color of the status, which will be used in the job ticket table.

Completion status – it is the final status of a job ticket. If a job ticket has such a status and if **Remove job**

ticket from the list within *n* seconds after completion is enabled, the job ticket will be hidden from the list.

Note: You can also select the Completion status later in the Job Tickets configuration window.

Sound – this setting enables the sound signal which will notify the operator that a job ticket changed its status.

Warning! Added statuses must match the statuses set in MOTOTRBO CPS.



If the statuses of SmartPTT Dispatcher does not correspond to statuses in MOTOTRBO CPS, all settings (color, sound signal and status completion) won't be applied.

1.5.19 Third-Party Equipment

SmartPTT system supports third-party equipment e.g., Tipro modular console with BeFREE touchcomputer or without it.

To make the console work with SmartPTT system, take the following steps:

- For Tipro modular console with BeFREE touchcomputer, install the SmartPTT application and other additional software, such as ChangeMe Utility, Tipro OPOS (these are delivered together with Tipro console), Microsoft Point of Service for .NET (POS for .NET) v1.14 (<u>http://www.microsoft.com/en-us/download/details.aspx?</u> id=42081).
- For Tipro modular console without touchcomputer, connect Tipro console to the PC with SmartPTT Dispatcher installed. Install other additional software, such as ChangeMe Utility, Tipro OPOS (these are delivered together with Tipro console), Microsoft Point of Service for .NET (POS for .NET) v1.14 (<u>http://www.microsoft.com/en-us/</u> download/details.aspx?id=42081).
- 3. Contact SmartPTT support team (http://support.smartptt.com/hc/en-us/requests/new) for Tipro configuration file.
- 4. Apply the received Tipro configuration file using ChangeMe Utility.
- 5. Configure SmartPTT Dispatcher settings connected to Tipro support.

The SmartPTT Dispatcher configuration includes the following steps:

- 1. Open SmartPTT Dispatcher.
- Enable Tipro console. On the Settings menu select Third-Party Equipment and then select Tipro Console. In the opened window, select Enable.

Configuration			×
Tipro Console Tipro console setti	ngs	SmartPTT	
✓ Enable 05.0E.31			
Sound Settings	Hot Keys		
Open General Current Settings			
Audio Input:	Default		
Input Line:	Audio		
Audio Output:	Default		
Current Settings	dule Sound Settings		
Audio Input:	Microphone (2- USB audio CODEC)	•	
Input Line:	Audio	V	
Audio Output:	Speakers (2- USB audio CODEC)		
Help		Cancel	nish

At that, the version of the main Tipro module appears, and the settings become enabled. If device can't be found, the settings are disabled.

- 3. Set up sound settings. You can go to the Sound Settings by clicking on Open General Settings to change the current sound settings. You can also configure sound settings for the telephone module. This is necessary only for Tipro modular console with BeFREE touchcomputer.
- 4. Add hot keys. To do that, open the Hot Keys tab.

Configuration	×
Tipro Console Tipro console settings	
Enable 05.0E.31 Sound Settings Hot Keys Subscribers and Actions	
 Talkgroups 110 Subscribers Telephone Subscribers Dispatchers Respond to Last Incoming Call Repeat Last Outgoing Call PTT Key 	E3 Set Reset
Help	Cancel

In the **Subscribers and Action** box select the subscriber, subscriber group, dispatcher or action, to which you want to assign a Tipro key. Then click on **Set** and press the required Tipro key. To save changes, click on **Finish**. To get back to previous settings, click **Cancel**.

Reset All – removes all assigned hot keys.

1.5.20 Hot Keys

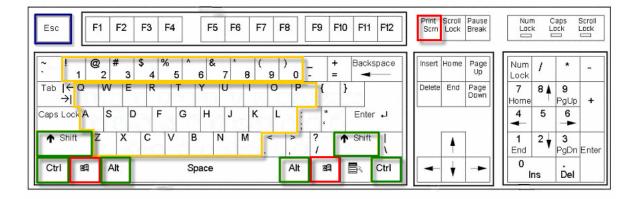
SmartPTT Dispatcher implements the ability to make a call to subscribers (radio subscriber, talkgroups, all call, telephone subscriber, external dispatcher) by clicking on a predetermined keyboard key, its combination or a button of the external input device. Also, dispatcher can repeat the last outgoing call or respond to the last incoming call by pressing the hot keys.

In order to set up hot keys for system subscribers, expand the **Settings** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Hot Keys**.

lot Keys Configuration Assign hot keys to console objects	
 Talkgroups 224 Slot 1 Talkgroup 1 Talkgroup 2 Slot 2 Subscribers Dispatchers 158 223 Telephone subscribers Respond to Last Incoming Call Repeat Last Outgoing Call 	Set Hot Key Keyboard PageUp Select External Device Select External Device COM Port COM1

The window contains a list of subscribers available for the hot key assignment – radio subscribers, talkgroups, telephone subscribers, external dispatchers, last called and last active subscribers. To assign a hot key to the subscriber, select the subscriber from the list, then select the hot key type.

Keyboard – select the field to assign to the subscriber a keyboard key or a key combination as the PTT button. Click **Select**, then press the keyboard key or the key combination. Not all keyboard keys can be used as hot keys. Here is the keyboard scheme. It shows which keyboard keys can be used and which cannot.



- 1. The keyboard keys marked red cannot be used as hot keys separately or in combination.
- The keyboard keys marked yellow cannot be used as hot keys separately, only in combination with the Ctrl,
 Alt or Shift keys. The Shift key can be used only in combination of three keys, for example, Shift+Alt+F.
- 3. The Esc key can be used only in combination with Shift (Shift+Esc).
- 4. All other keyboard keys can be used as hot keys either separately or in combination with the Ctrl, Alt or Shift keys. The Shift key can be used in combination of two or three keys, for example, Shift+Delete, Shift+Alt +Enter.

Note: Hot keys support two work modes: holding and single press. The active mode is defined in Contol Devices.

Configuration	×
Control Devices	SmartPTT O
Mouse Actions upon clicking: Select Call Mode O Hold Touchscreen Actions upon tapping: Select Call Mode O Hold	
External Devices PTT Key Other Input Device Device PTT Button External Device COM Port	Space Call Mode: O Hold O Press 1 time Call Mode: Hold Press 1 time Call Mode: Hold Press 1 time Call Mode: Hold Press 1 time
Help	Cancel

External Device – select the field to assign to the subscriber a key of the external input device connected via USB as the PTT button. Select the external device from the list of available, click the **Select** button, then press the key of the external device.

External Device COM Port – select the field to assign to the subscriber a key of the external PTT pedal connected via COM port as the PTT button. Select the COM port of the PTT pedal from the list of available. There is only one mode available for the PTT button on external devices – hold to enable.

To remove the previously defined hot key for the subscriber, disable the appropriate check box. To reset the assigned hot keys for all subscribers, click **Reset All**.

If a designated keyboard key or button of an external input device is already in use, the message appears in the window:

Hot Keys Configuration Assign hot keys to console objects	
 Talkgroups 224 Slot 1 Talkgroup 1 Talkgroup 2 Slot 2 Subscribers Dispatchers 158 223 Telephone subscribers Respond to Last Incoming Call Repeat Last Outgoing Call 	Set Hot Key ✓ Keyboard PageUp is used for dispatcher: 158 Cancel External Device ✓ Select ✓ External Device COM Port COM1 ✓ Already used for dispatcher: 158

A keyboard key or a key of the external input device which is already in use as the **PTT** button for a current subscriber cannot be used as a PTT button for the selected subscriber.

Note: The **PTT** button used for a call to a current subscriber means that you use this button to call any subscriber of SmartPTT Dispatcher.

onfiguration	
Hot Keys Configuration Assign hot keys to console objects	
 Talkgroups Subscribers Dispatchers 158 223 	Set Hot Key Keyboard Space is used for current subscriber Cancel External Device
 Telephone subscribers Respond to Last Incoming Call Repeat Last Outgoing Call 	Select

Note: If the hot key that you set matches the **PTT** button for the current subscriber, the hot key settings will be discarded.

Click **Finish** to apply the settings. To get back to the previous settings, click **Cancel**.

1.5.21 Database Auto Backup

Backing up data on a regular basis helps to protect it from being erased in case of the server hardware or software failure. SmartPTT Dispatcher allows the Administrator to back up the database manually or to set up parameters for automatic backup.

In order to set up automatic backup parameters, expand the **Settings** menu in the **Main Menu** bar of SmartPTT Dispatcher and click **Database Auto Backup**.

Configuration Database Auto Backup Settings Auto Backup Parameter Settings	
 Allow Database Auto Backup Backup Folder C:\Auto Backup Backup Settings Daily 	
 Weekly Monthly Day of month 1 \$ Interval (month) 1 \$ Time: 9:00 \$ 	
Backup Period Start Date: 13.04.2015 15 End Date: 14.04.2015 15 No End Date	
Help	Cancel

Allow Database Auto Backup – select the check box to enable the ability to create SmartPTT Dispatcher current database backups in the automatic mode.

Backup Folder — full path to the file for saving the database backup.

Backup Settings — schedule for creating the current database backup:

- Daily every fixed day at the specified time (for example, every day, every third day at 9:00 a.m.).
- Weekly every fixed day of the week at the specified time (for example, every Monday, Wednesday and Friday at 11:00 p.m., or every Monday at 11:00 p.m. and Friday at 11:00 a.m.).
- Monthly once a month on the fixed day of the selected month and at the specified time.

Backup Period — allows you to set time period when automatic database backup is to be made according to the

selected backup settings.

Note: The number of stored backup files in the same folder is limited to 3. Otherwise, when creating a new copy, the old files are deleted.

Note: To restore the database from the automatically created backup, see **Database**.

1.5.22 Rules and Alerts

You can set response rules for the events registered in SmartPTT system. Response rules may include automatic sending of messages, playing alerts in SmartPTT Dispatcher and on the radio, changing radio subscriber status, etc.

To set rules, expand the **Settings** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click

Rules and Alerts. The configuration window opens up.

onfiguration	2
Rule Settings Setting Up Rules for Events	
🕇 Add 🥒 Edit 🗕 Delete	
Rule	Active Active
Rule 1	✓
Rule 2	
Rule 3	V
	· · · · · · · · · · · · · · · · · · ·
Help	Finish

To add a new rule, click Add. The window with rule settings opens up.

Rule Settings							×
Active 🔽							
Name Rule 1							
Conditions							
Attribute		Operation		Value 1	Value 2	Value 3	
Direction		No	•				
Event Type		Equals		Call			
Date/Time		No					
Additional Information	n	No					=
Not read		No					
Operator		No					
Radioserver		No					
Control Station		No					
Subscriber		Equals		Mike	Kevin W.		
Talkgroup		No					
Status		No					-
Duration		No					*
Actions							
Initiator Alert	Dispatcher Alert	Subscriber Alert	Othe	r Message F	ormat		
Block Radio							
✓ Lone Worker	On Default						-
	◯ Off						
Message	Message text						
		ОК		Cancel			

Name – the name of the rule.

Active – select this check box to make the rule enabled.

The following table presents conditions that can be used in rules.

Attribute	Operation	Value
Direction	No, Equals	Incoming, Outgoing
Event Type	No, Equals, Not Equals	Registration, Call, Message, Telemetry,
		Alarm, Status, Block Radio, Job Ticket,
		Lone Worker

Date/Time	No, In Interval	Time interval
Additional Information	No, Equals, Contains	Type event additional information, e. g. text messages, titles and description of tasks, talkers from a group call.
Not Read	No, Equals	Read, Not Read
Operator	No, Equals, Not Equals	Operator from list of operators
Radioserver	No, Equals, Contains	Radioserver name
Control Station	No, Equals, Contains	Control station name
Subscriber	No, Equals, Not Equals	Subscriber from the list of subscribers
Talkgroup	No, Equals, Contains	Talkgroup name
Status	No, Equals, Not Equals	Status from the list of statuses
Duration	No, Equals, Not Equals, Greater, Greater than or Equal, Less, Less than or Equal, In Interval	Duration in seconds
Connection Type	No, Equals, Not Equals	 Connection types used in SmartPTT: DMR – over-the-air connection made via repeaters and control stations; PBX – telephone connection IP – Dispatcher-Dispatcher connection.
Repeater IP	No, Equals, Not Equals	Available repeaters' IP addresses
Receiver	No, Equals, Not Equals	Subscriber from the list of subscribers
Record	No, Equals	Available audio records

Attribute – contains the list of existing events which the system can register.

Operation – list of possible system operations for this attribute.

Value – values that can be selected for the attribute.

The rule is a combination of an attribute, operation and value. One rule can contain more than one such combinations.

When the system has registered an event matching the specified rule, the system performs predefined actions:

- 1. Alerts addressed to the initiator
- 2. Alerts addressed to the dispatcher
- 3. Alerts addressed to the radio subscriber
- 4. Other

Note: If the conditions of the rule include Incoming (Direction), Telemetry (Type) and a selected talkgroup

(Talkgroup), the rule will be triggered regardless of the talkgroup ID where the telemetry command was sent.

The **Message Format** tab allows you to set the format of the alert massages.

To save the rule, click **OK**. At that, the created rule appears in the list of rules.

To edit the rule, select it in the list of rules and click **Edit**. To remove the rule, select it in the list of rules and click **Delete**.

Initiator Alert

Open the **Initiator Alert** tab. In this tab you can set up actions that will be performed if the rule conditions are fulfilled.

Actions	
Initiator Alert	Dispatcher Alert Subscriber Alert Other Message Format
Block Radio	
☑ Lone Worker	On Default
	○ Off
Message	Message text.

Block Radio – if selected, the radio that triggered the rule, will be blocked.

Lone Worker – if selected and On clicked, the lone worker profile will be set to the radio that triggered the rule. If Off is clicked, the lone worker mode of the radio will be deactivated.

Note: To set up the lone worker profile, see <u>Lone Worker Rules</u> in SmartPTT Dispatcher.

Message – a text message is sent to the subscriber who initiated triggering of the rule. You can specify message format settings in the <u>Message Format</u> tab.

Dispatcher Alert

Open the **Dispatcher Alert** tab.

Actions							
Initiator Alert Dispatcher Alert Subscriber Alert Other Message Format							
Play Sound	Play Sound C:\Program Files\SmartPTT\Client\Sound\Alert.wav						
Show on Map							
Alert	Alert Caption						
✓ Set Subscriber Status	Alert Text On site	v					

Play Sound – select .wav audio file to play.

Show on Map – if selected, the radio that triggered the rule will be shown on the map.

Alert - notification with the event description is displayed in the System Notification window. You can define the

title in the Alert Caption field and the description in the Alert Text field.

Set Subscriber Status – the subscriber is assigned the predefined status. It is selected from the Statuses list (see <u>Statuses</u>).

Subscriber Alert

Open the **Subscriber Alert** tab.

Actions						
Initiator Alert Dispatche	er Alert Subscriber Alert Other Message Format					
Send Message						
radio subscribers	Group 1 [Slot 2 71] Group 2 [Slot 1 71]					
talkgroups						
Categories						
Message	Alert!					

Send Message – a text message is sent to the selected subscribers, talkgroups or categories. You can specify format settings of text messages in the <u>Message Format</u> tab of the **Actions** area.

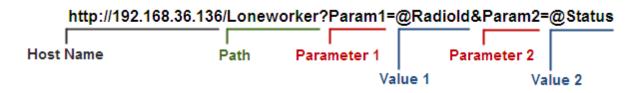
Other

Open the **Other** tab.

Actions					
Initiator Alert	Dispatcher Alert	Subscriber Alert	Other	Message Form	at
HTTP Request	http://192.168.36.	136/loneworker?Param:	1=@RadioI	d&Param2=@Statu:	
💌 E-mail	Radioserver	Tomsk office		•	Message
	E-mail	info@smartptt.com			Attention! Rule 1 activated
SMS	Radioserver	Tomsk office			Message
	Phone Numbers	+792312345678			Attention! Rule 1 activated
		OK		Cancel	

HTTP Request – is used for notification of the third party server of the changes occurred in SmartPTT system. It can render the event initiator radio ID and its status.

The HTTP request includes the following parts:



Note: Make sure that you have specified correct names for parameters 1 and 2. They must correspond to the parameters' names expected by the third party server.

Note: Under "@Status" SmartPTT system will send the system message corresponding to the newly assigned status selected in the **Dispatcher Alert** tab. Status system messages are set in the <u>Statuses</u> settings.

E-mail – is used for specifying e-mail address where a message should be sent in case the rules specified earlier are fulfilled. To do this, the following fields are to be filled:

Radioserver – server name which is configured for e-mail sending. The name of the server is selected from the drop-down list.

E-mail – electronic addresses to send messages.

Message – text of the message.

SMS – if selected, the SMS message is sent to the specified phone number in case the rules specified earlier are fulfilled. To do this, the following fields are to be filled:

Radioserver – server name for SMS messages sending. The name of the server is selected from the drop-down list.

Phone Numbers – telephone numbers to send SMS to. The preferred number format is International Number Format, i.e. <+><country code><mobile code><phone number>.

Message - text of the message.

Note: See information about SmartPTT Radioserver configuration for sending and receiving e-mails, and SMS messages in SmartPTT Radioserver Configurator Help under **Telephone Interconnect** and **SMS Gateway**.

You can specify format settings of SMS or E-mail messages in the Message Format tab of the Actions area.

Message Format

You can specify message format (text messages, SMS, or E-mail) in the **Message Format** tab of the **Actions** area. These messages are sent to radio subscribers, defined in the message recipient list in the **Subscriber Alert** or **Other** tab.

Note: The format settings for text messages are valid for specific messages, only if **Send Message** is selected in the **Subscriber Alert** tab; for SMS – if **SMS** is selected in the **Other** tab; for E-mail – if **E-mail** is selected in the **Other** tab.

Actions		
Initiator Alert Dispatcher Alert	Subscriber Alert Other Message Forma	it
Event Information	Subscriber Information	1
Event Type	Subscriber ID	
Date/Time	Subscriber Name	
Date/Time	Time Zone	
Coordinates		
Decimal Degrees	•	

Event Information:

Event Type – if selected, the message includes the type of the event, which triggered the rule.

Date/Time – if selected, the date and time of the event will be added to the text message. You can set the date format displayed in the message (date and time, or time only).

Time Zone - if selected, the message includes subscriber time zone in Coordinated Universal Time (UTC).

Coordinates – if selected, the subscriber's coordinates are displayed in the message. These are the latest coordinates stored in the database.

Subscriber Information:

Subscriber ID – if selected, the ID of the subscriber, who has triggered the rule, will be added to the text message.

Subscriber Name – if selected, the name of the subscriber, who has triggered the rule, will be added to the text message.

1.5.23 Positioning Rules

You can set response rules for GPS and Indoor events registered in SmartPTT system. GPS events include receiving or not receiving subscriber's GPS coordinates, and Indoor events include receiving or not receiving positioning data from special beacons. Response rules may include automatic sending of messages, playing alerts in SmartPTT Dispatcher and on the radio, changing radio subscriber statuses, etc.

To set up a positioning rule, expand the **Settings** menu in the main menu and click **Positioning Rules**.

Configuration			×
Positioning Rules Configuration of special rules based on GPS and Indoor events		SmartPT	
🕂 Add 🥜 Edit 🗕 Delete			
Rule	GPS/Indoor	Туре	Active
Indoor rule	Indoor	Zone/Route Leaving	~
GPS rule	GPS	No Movement	~
			-
Help			Finish

To add a new rule, click Add. In the window that opened specify parameters of the future rule.

Positioning Rule	×
Active	
Name New GPS Rule	
● GPS ○ Indoor	
Type Stop control	▼
Conditions	
 All subscribers Select Subscribers Select Categories Time period with no motion 	2525 Abonent
 Notify constantly Notify about new location 	n
Actions	
Initiator Alert Dispatch	er Alert Subscriber Alert Other
Block Radio	
Lone Worker 💿 On	
Ooff	
Message Call ope	ator immediately!
	OK Cancel

Active - if the check box is selected, processing of events starts in accordance with the selected criteria. If the

check box is not selected, the rule is unavailable.

Name – name of the rule.

There can be two kinds of positioning rules: Indoor and GPS.

Type – rule types:

- **Stop control** this rule type checks if a radio subscriber is moving, i.e. the subscriber's coordinates or Indoor positioning data constantly change with time.
- Location data received this rule type checks the appearance of the radio subscriber's coordinates after a predefined period of time when there were no coordinates.
- No location data this rule type checks if there are no radio subscriber coordinates for a period longer than the specified period of time. Coordinates like "...Lat: 0 Long: 0" are not regarded as valid coordinates,

and they won't be taken into account when applying positioning rules.

- **Zone/route entry** this rule type checks if the radio subscriber has entered the zone or the route, i.e. the subscriber's previous coordinates were outside the defined zone or route, and the current coordinates are within this zone or the route.
- Zone/route exit this rule type checks if the radio subscriber has left the zone or the route.
- Speeding this rule type checks if there was any speeding based on the received GPS data.
- Number of subscribers in geofences / on routes this rule type checks the number of radio subscribers in the selected geofences or on selected routes.

The table lists the criteria used in positioning rules.

Attribute	Value
All subscribers	Select all subscribers, or some subscribers, or categories, to whom
Select Subscribers / Select	the rule will be applied.
Categories	
Time period with no motion detected	Time interval during which the radio subscriber can stay at one place
	(min)
Time period before receiving	Period of time after which the subscriber's coordinates are received
location data	again (min)
Time period with no location data	Period of time during which there are no subscriber's coordinates
received	(min)
Geofences and Routes	Select geofences or routes to follow in the rule.
	If speeding is registered, the rule is executed.
Speeding	<u>Note.</u> The rule triggers only when over-speed occurs in the area of the selected geofence or on the selected route. Otherwise, the rule is not triggered.
Number of subscribers in geofences /	The number of radio subscribers in selected geofences or on selected
on routes	routes.
Select Area (Geofences/ Routes)	Select geofences or routes to follow in the rule.
Notify constantly	Select this check box to notify the dispatcher about violation of one of the criteria every time it happens. If the check box is not selected, the actions which follow the violation of the specified criteria will occur

Attribute	Value	
	only once.	
	If the subscriber starts moving, and before that the subscriber stopped	
Notify about new location	for a time period longer than the specified one, the notification window	
	will be displayed	

If the rule meets selected criteria, the system can perform a series of actions:

- 1. Actions addressed to the initiator
- 2. Alerts addressed to the dispatcher
- 3. Alerts addressed to the radio subscriber
- 4. Other

If finished, click **OK** to save the rule, and the created rule appears in the list of rules.

To edit rule settings, select it in the list of rules and click **Edit**. To remove the rule, select it in the list of rules and click **Delete**.

Initiator Alert

Open the Initiator Alert tab.

cher Alert Subscriber Alert Other Message Format
Default
e text.

Block Radio – if selected, the radio that triggered the rule, will be blocked.

Lone Worker – if selected and On is clicked, the lone worker profile will be set to the radio that triggered the rule.

If Off is clicked, the lone worker mode of the radio will be deactivated.

Note: To set up the lone worker profile, see Lone Worker Rules in SmartPTT Dispatcher.

Man Down - if selected and On is clicked, the Man Down mode will be set to the radio that triggered the rule. If

Off is clicked, the Man Down mode of the radio will be deactivated.

Note: Make sure that the radio subscriber unit has the built-in option board and the Tallysman feature is enabled

in SmartPTT Radioserver Configurator.

Message – a text message is sent to the subscriber who initiated triggering of the rule.

Dispatcher Alert

Open the **Dispatcher Alert** tab.

Actio	IS
Init	ator Alert Dispatcher Alert Subscriber Alert Other
~	Play Sound C:\alarm.wav
~	Show on Map
~	Alert Alert Caption: Attention!
	Alert Text: Attention!
~	Set Subscriber Status In Office

Play Sound – select .wav audio file to play back.

Show on Map – location of the subscriber specified in the rule is shown on the map (with an icon).

Alert – notification with the event description is displayed in the **System Notification** window. You can define the title in the **Alert Caption** field and the description in the **Alert Text** field.

Note: For rules **Stop control** and **No location data** the alert text cannot be set – it is generated by the system automatically.

Set Subscriber Status – the subscriber is assigned the specified status. It is selected from the list of statuses.

Subscriber Alert

Open the **Subscriber Alert** tab.

Actions	
Initiator Alert Dispatche	er Alert Subscriber Alert Other
Send Message	
radio subscribers	Group 1 [Slot 2 71] Group 2 [Slot 1 71]
talkgroups	
Categories	
Message	Alert!

Send Message – a text message is sent to the selected subscribers, talkgroups or categories.

Other

Open the Other tab.

Actions				
Initiator Alert D	Dispatcher Alert	Subscriber Alert Other		
HTTP Request	http://192.168.36.3	136/loneworker?Param1=@RadioId&Pa	ram2=@Statu:	
🔽 E-mail	Radioserver	Tomsk office	•	Message
	E-mail	info@smartptt.com		Attention! Rule 1 activated
SMS	Radioserver	Tomsk office	•	Message
	Phone Numbers	+792312345678		Attention! Rule 1 activated
		ОК	Cancel]

HTTP Request – is used for notification of the third party server of the changes occurred in SmartPTT system. It

can render the event initiator radio ID and its status.

The HTTP request includes the following parts:

http://192.168	.36.136/Lonev	vorker?Param1=	@Radiold	&Param2=	@Status
Host Name	Deth	Personation (Der		
HOST NAME	Path	Parameter 1	lue 1	ameter 2	ue 2
		Yet	iue i	Val	

Note: Make sure that you have specified correct names for parameters 1 and 2. They must correspond to the parameters' names expected by the third party server.

Note: Under "@Status" SmartPTT system will send the system message corresponding to the newly assigned status selected in the **Dispatcher Alert** tab. Status system messages are set in the <u>Statuses</u> settings.

E-mail – is used for specifying e-mail address where a message should be sent in case the rules specified earlier are not fulfilled. To do this, the following fields are to be filled:

Radioserver – server name for e-mail sending. The name of the server is selected from the drop-down list.

E-mail – electronic addresses to send the message.

Message - text of the message.

SMS – if selected, the SMS message is sent to the specified phone number in case the rules specified earlier are not fulfilled. To do this, the following fields are to be filled:

Radioserver – server name which is configured for SMS messages sending. The name of the server is selected from the drop-down list.

Phone Numbers – telephone numbers to send SMS. The preferred number format is International Number Format, i.e. <+><country code><mobile code><phone number>.

Message – text of the message.

Note: See information about SmartPTT Radioserver configuration for sending and receiving e-mails and SMS messages in SmartPTT Radioserver Configurator Help under **Telephone Interconnect** and **SMS Gateway**.

1.5.24 Lone Worker Rules

SmartPTT Dispatcher supports the Lone Worker mode for radio subscribers.

When a subscriber is set to the Lone Worker mode, SmartPTT automatically tracks the following conditions:

- Absence of calls from the subscriber during specified period of time.
- Absence of GPS coordinates from the subscriber during specified period of time.
- Immobility of the subscriber during specified period of time.

When one of the specified conditions triggers, SmartPTT Dispatcher executes the actions defined by the settings. To define special rules or profiles for lone workers, expand the **Settings** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Lone Worker Rules**. At that, the window for creation and/or editing the rules for lone workers opens.

Configuration	×
Lone Worker Lone Worker Settings	SmartPTT O
+ Add 🧪 Edit - Delete	
Profile	A
Default	
Engineers Zone C	
Help	Finish

Here you can see the list of rules which get executed if the specified conditions are fulfilled. SmartPTT supports multiple rules, so it is possible to create a lone worker rule for each radio subscriber.

To add a new rule, click Add. To make changes in the existing rule, select it and click Edit. To delete a rule,

select it from the list and click **Delete**.

Note: The default profile cannot be deleted.

At clicking Add or Edit, the Profile Settings window opens.

Profile Settings X
Name: Rule 1
Conditions
General
Vo calls (min) 5
No location data received (min) 0
✓ No change in location data (min) 3
Subscriber Alert
Text Message Call the operator!
Audio Message Record
Call Alert
Actions
Actions delay (min) 0
Initiator Alert Dispatcher Alert Subscriber Alert Other
Block Radio
Lone Worker On Default
Off
Message
OK Cancel

In the **Profile Settings** window you can set up rules for a new profile or edit rules for the existing profile. The window contains the following fields and sections:

Name – name of the profile. It is an obligatory field.

The General tab contains rule conditions to trigger an alert:

No calls – specifies the period of time for a subscriber to make a voice call. If the subscriber does not make a call during the specified time period, the corresponding actions are executed.

No location data received – specifies the period of time for a subscriber to send GPS data. If the subscriber radio does not send its GPS data during the specified time period, the corresponding actions are executed.

No change in location data – specifies the period of time to check if a subscriber is moving (deviations in range of 5 meters are ignored). If the subscriber does not move during the specified time period, the corresponding actions are executed.

The Subscriber Alert area:

Text Message – when the event specified in one of the filters occurs, the text message is sent to the lone worker.

Audio Message – when the event specified in one of the filters occurs, an audio message is sent to the lone worker. To record the message, click the **Start** button. To stop recording, click the **Stop** button. To listen to the recorded message, click **Play**. To delete the recorded message, click **Delete**.

Call Alert – when the event described by one of the filters occurs, a Call Alert is sent to the lone worker.

Alert Timer – specifies the time period for a subscriber to make a call, to send GPS coordinates or to move after **Subscriber Alert** took place.

The **Actions delay** timer defines the time interval after which **Actions** will be executed after **Subscriber Alert**. If the rule meets selected criteria, the system can execute the following actions:

- 1. Actions addressed to the initiator
- 2. Alerts addressed to the dispatcher
- 3. Alerts addressed to the radio subscriber
- 4. Other

To save the rule, click **OK**. At that, the created rule appears in the list of rules.

To edit rule settings, select it in the list of rules and click **Edit**. To remove the rule, select it in the list of rules and click **Delete**.

Initiator Alert

Actions	
Initiator Alert	Dispatcher Alert Subscriber Alert Other
Block Radio	
✓ Lone Worker	On Default
	© off
Message	Message text.

Block Radio – if selected, the radio that triggered the rule, will be blocked.

Lone Worker – if selected and On is clicked, the lone worker profile will be set to the radio that triggered the rule.

If **Off** is clicked, the lone worker mode of the radio will be deactivated.

Note: To set up the lone worker profile, see Lone Worker Rules in SmartPTT Dispatcher.

Message – a text message is sent to the subscriber who triggered the rule.

Dispatcher Alert

Open the **Dispatcher Alert** tab.

Actio	S
Init	ator Alert Dispatcher Alert Subscriber Alert Other
~	Play Sound C:\alarm.wav
~	Show on Map
~	Alert Alert Caption: Attention!
	Alert Text: Attention!
~	Set Subscriber Status In Office

Play Sound – select .wav audio file to play in SmartPTT Dispatcher.

Show on Map – subscriber specified in the rule is shown on the map (with an icon).

Alert – notification with the event description is displayed in the **System Notification** window. You can define the title in the **Alert Caption** field. and the description in the **Alert Text** field. Description of the event can't be set, it is generated automatically.

Set Subscriber Status – the subscriber is assigned the specified status. It is selected from the list of statuses.

Subscriber Alert

Open the **Subscriber Alert** tab.

Actions	
Initiator Alert Dispatche	er Alert Subscriber Alert Other
Send Message	
radio subscribers	Group 1 [Slot 2 71] Group 2 [Slot 1 71]
talkgroups	
Categories	
Message	Alert!

Send Message – a text message is sent to the selected subscribers, talkgroups or categories.

Other

Open the Other tab.

Actions		
Initiator Alert	Dispatcher Alert	Subscriber Alert Other
HTTP Reques	st http://192.168.36.1	36/loneworker?Param1=@RadioId&Param2=@Statu:
🔽 E-mail	Radioserver	Tomsk office Message
	E-mail	info@smartptt.com Attention! Rule 1 activated
SMS	Radioserver	Tomsk office Message
	Phone Numbers	+792312345678 Attention! Rule 1 activated
		OK Cancel

HTTP Request – is used for notification of the third party server of the changes occurred in SmartPTT system. It

can render the event initiator radio $\ensuremath{\mathsf{ID}}$ and its status.

The HTTP request includes the following parts:

http://192.16	8.36.136/Lonev	vorker?Param1=	@Radiold8	Param2=	@Status
Host Name	Path	Parameter 1	Para	meter 2	
		Va	lue 1	Val	ue 2

Note: Make sure that you have specified correct names for parameters 1 and 2. They must correspond to the parameters' names expected by the third party server.

Note: Under "@Status" SmartPTT system will send the system message corresponding to the newly assigned status selected in the **Dispatcher Alert** tab. Status system messages are set in the <u>Statuses</u> settings.

E-mail – is used for specifying e-mail address where a message should be sent in case the rules specified earlier are not fulfilled. To do this, the following fields are to be filled:

Radioserver – server name for e-mail sending. The name of the server is selected from the drop-down list.

E-mail – electronic addresses to send the message.

Message – text of the message.

SMS – if checked, the SMS message is sent to the specified phone number in case the rules specified earlier are not fulfilled. To do this, the following fields are to be filled:

Radioserver – server name for SMS messages sending. The name of the server is selected from the drop-down list.

Phone Numbers – telephone numbers to send SMS. The preferred number format is International Number Format, i.e. <+><country code><mobile code><phone number>.

Message – text of the message.

Note: See information about SmartPTT Radioserver configuration for sending and receiving e-mails and SMS messages in SmartPTT Radioserver Configurator Help under **Telephone Interconnect** and **SMS Gateway**.

To assign the created lone worker profile to a radio subscriber, open the **Properties** window of the subscriber.

In the opened window select the Lone Worker check box, and in the drop-down list select the created profile.

Properties:	Mike		×
General	Location	Custom	
		IP 12.0.0.1	
	MDC I	D	5 Tone ID
	Nam	ie Mike	
Select	x Statu	us (empty)	
		t T	1 4 -
🗹 Lone V	Worker		Default
			Default Driver
		Save	Univer

To remove the profile from the subscriber, clear the Lone Worker check box.

1.5.25 Subscriber Custom Properties

SmartPTT Dispatcher provides the ability to add custom properties of a subscriber, which can be used for giving

additional information about the radio subscriber. Subscriber Custom Properties have the following four types:

- 1. Text
- 2. Numeric
- 3. Date
- 4. List

To create custom properties expand the **Settings** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Subscriber Custom Properties**. At that, the **Subscriber Custom Properties** window opens.

figuration	
ubscriber Custom Properties	
🕇 Add 🛛 🗕 Delete	
Personal Info	▲
Last Employer	▼
+ Add - Delete Property name	Type Description Acti 🔺
Age	Numeric
Birth Date	Date
Saex	List
Help	Finish

The top list contains subscriber custom property groups.

To add the subscriber custom property group, click **Add** at the top. To delete the group, click **Delete**. Arrows on the right allow moving groups inside the list.

The bottom list contains the properties of the created groups.

Property Name – custom name of the property which will be displayed in the **Properties** window.

Type – property type (Text, Numeric, Data or List).

Description – text description added by the user when creating a property.

Active – select the check box, to have the property displayed in the Properties window.

To add a property into the property group, select the created property group in the top list and then click Add

above the bottom list.

At that, the Subscriber property window opens.

Subscriber property	×
Name:	
Туре:	Text 💌
Enumeration:	
Property Description:	
Active:	V
ОК	Cancel

Fill all the fields required. Select the Type and click OK.

Note: If you want to select List in the Type field, before that you need to create the list. Otherwise, the list will be empty.

To create the list, click the **Create/Edit Lists** button **S**. At that, the window opens:

.ists		×
🕂 Add	- Delete	
Sex		*
		Ŧ
🕂 Add	- Delete	
List Elemer	its	▲ ▲
F		
М		
		_
		· ·
	OK Cancel	1

In the top box add list names by clicking Add.

Select the created list and add elements of the list. To do it, go to the bottom box and click Add just above it.

To view the active custom properties go to the subscriber **Properties** window, **Custom** tab.

Pr	operties:	Mike		×
0	General	Location	Custom	
	Personal	Info		
	Age			
	Birth Dat	e		6/11/1983 15
	Saex			
0	Last Emp	loyer		
	Last Emp	loyer		n/a
			Save	Cancel

1.5.26 Custom Consoles

Custom Console is a tool that provides the dispatcher with custom workplace. Custom consoles are visual panels containing various elements, e.g. radio subscribers, external dispatchers, talkgroups, in short, everything the dispatcher need for daily work. Every dispatcher can have his own console with all the radio objects necessary for his work.

To create and set up a custom console, expand the **Settings** menu in the **Main Menu** bar of the SmartPTT

Dispatcher window and click **Custom Consoles**. At that, the **Custom Consoles** window opens.

Custom Consoles	×
🕂 Add 💉 Edit 🗕 Delete	
Name	Active
Console Group 1	✓
Console 2	×
	*
	Close

To add a new console, click Add. At that, the console editor will open.

Name: Console 3 Dundo C Redo - Delete Walkpaper: - × *** Takagroups * - × **** Takagroups * - × ************************************	💭 Console "Console 3"	The one will be by party	
Image: Channels Image: Channels Image: Channels Image: Channel Image: Channel Image: Channel Image: Channel	Name: Console 3	🕽 Undo 🧲 Redo — Delete	
iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Wallpaper	×	
	Image: State of the state o	All Call Slot 1 Slot 2 Slot	erver 47 - Slot 1
Panel Panel Channel 2 Channel 3	Broadcast Call Panel Panel	PT PT	

Name: A name of a custom console which will be displayed in the **Tools** menu.

Wallpaper: Allows you to select an image for the background of the console. The supported formats are BMP,

JPG, PNG.

There are more than dozen types of visual elements available in **Custom Consoles**. Description of each element is given further in this article.

To add an element to the custom console, drag and drop the desired element onto the work space of the console designer. To remove the element from the work space, select it and press **Delete**. To erase the last change or perform the redo function click the **Undo** or **Redo** buttons.

You can adjust size, color or location of each element on the custom console. You can also add or remove different properties. To do this, select the element and use the **Misc** or the **Properties** sections on the right of the console designer work space. To move the element up, down, left, or right, press the arrow keys. To move the element diagonally, press the Up or Down Arrow key and the Left or Right Arrow key. For example, to move the element diagonally toward the upper-right corner, press Right Arrow-Up Arrow.

Channel



The **Channel** element stands for a physical or logical channel. It gives the following information about the channel:

- information about the current call on the channel the call state, the called party and the call originator;
- default target for outgoing calls (it can be either All Call or any particular talkgroup);
- muted or unmuted;

• the number of missed incoming calls.

To mute the channel, click **I**. Check the <u>Mute Mode</u> settings before applying this function.

To open the <u>Actions list</u> which can be applied to an element, click . To display the channel name as *Radioserver name – Channel name*, select the **Radioserver Name** check box in the **Misc** section. Otherwise, only the channel name will be displayed.

To view the number of missed incoming calls, select the **Missed Calls** check box in the **Properties** section.

shows the number of calls not answered by the dispatcher. The red figure stands for the number of private calls not answered by the dispatcher.

The blue one shows the total number of calls not answered by the dispatcher, including private and group calls. As soon as the dispatcher called back the talkgroup or the radio subscriber, the counter is set to zero.

By clicking the button, the window with details appears.

Radioserver1 - Slot 1				×
Missed (Dispatcher)	O Missed (All)) All		Clear All
Group 1		1	t.	PTT ^
Group 2		0	t.	PTT
Driver_225	1	/ 1	t.	PTT

Missed (Dispatcher) – filters only private calls not answered by the dispatcher.
Missed (AII) – filters private and group calls not answered by the dispatcher.
AII – removes all filters and shows all available talkgroups and radio subscribers and their call statistics.

Clear All - sets all counters to zero.

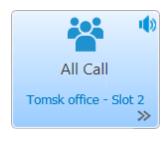
The **Talkgroup** stands for a talkgroup on the channel. You can make a call to the selected talkgroup by clicking on the element.

To open the <u>Actions list</u> which can be applied to an element, click . Also, the element displays that the radio subscriber enters emergency mode (the **Emergency** label), when the Emergency button of the radio is

pressed. Once the dispatcher solves the problem by clicking in the **Emergencies** panel, he clears the emergency state on the element of the **Custom Console**. Once the initiator clears the emergency on the initiator radio, the emergency is considered over.

You can mute the group call by clicking on the **Mute** icon. The element also shows the state of the current call.

Talkgroup





Subscriber

Mike

12.0.0.105

Emergency

Ŧ

 \gg

To display the channel name as *Radioserver name – Channel name*, select the **Radioserver Name** check box in the **Misc** section. Otherwise, only the channel name will be displayed.

The **Subscriber** element is used for making private voice calls and shows the state of the current call. By right-clicking on the element you can open the subscriber's **Call Window** to perform other actions on the subscriber. You can assign the element to different subscribers from the drop-down list. To enable this option, select the **Allow Changes** check box in the **Properties** section.

To open the <u>Actions list</u> which can be applied to an element, click . Also, the element displays that the radio subscriber enters emergency mode (the **Emergency** label), when the Emergency button of the radio is

pressed. Once the dispatcher solves the problem by clicking in the **Emergencies** panel, he clears the emergency state on the element of the **Custom Console**. Once the initiator clears the emergency on the initiator radio, the emergency is considered over.

— the icon on the subscriber element shows that the dispatcher did not answer to the subscriber call. The figure next to it shows the number of missed calls.

The **Telephone Subscriber** element is used for making calls to telephone subscribers. Double-clicking on the element opens the **Call Window** and initiates the call.

Note: For proper operation of the element select Allow Calls to Telephone Subscribers in the General Settings tab of the <u>Telephone</u> Settings window.

You can assign the element to different telephone subscribers from the drop-down list. To enable this option, select the **Allow Changes** check box

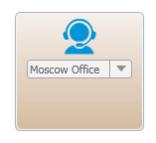
Telephone Subscriber



in the Properties section.

Note: To set the list of telephone subscribers, go to the <u>Telephone</u> Subscribers window.

Dispatcher



The **Dispatcher** element is used for making connection to other dispatchers. Double-clicking on the element opens the dispatcher's **Call Window** and initiates the call.

Note: For proper operation of the element make sure that the operator has the permission **Connect with external dispatchers** (**Settings** >

Operators)

You can assign the element to different dispatchers from the drop-down list. To enable this option, select the **Allow Changes** check box in the **Properties** section.

Note: The list of dispatchers contains dispatchers added in the <u>Dispatchers</u> window.

Channel Selector



The **Channel Selector** element allows the dispatcher to switch from one channel of the control station to another.

Note: The functionality requires the control station to be connected to the PC and its channels to be set up via MOTOTRBO CPS and SmartPTT Radioserver Configurator.

Channel setting in SmartPTT Radioserver Configurator is carried out on the **Channels** tab of the control station. **Channels** listed on this tab must match the channels set in MOTOTRBO CPS (channel number, zone number).

To configure this functionality in SmartPTT Dispatcher, add the **Channel Selector** element into the console designer work space. One element can be assigned to one channel. To allow switching between channels, you should add the required number of elements.

Outgoing Telemetry



Incoming Telemetry



Voice Notification





Multiselect



The **Outgoing Telemetry** element is used for sending telemetry commands to the radio subscriber. You can assign only one telemetry command per element. Before assigning the telemetry command to the element, add it to the telemetry list of commands and to the radio subscriber. Apart from sending commands, you can also check the current status and the time of the last status update.

The **Incoming Telemetry** element is used for receiving the current status of the selected pin. You can also see the time of the last status update.

The **Voice Notifications** element starts or stops the voice notification and displays how many times the voice notification is reproduced. To configure voice notifications see the **Voice Notification** section in SmartPTT Radioserver Configurator.

Note: To monitor the current status of the voice notification playing, open the <u>Voice Notifications</u> window (**Service > Voice Notifications**).

To display the element name as *Radioserver name – Voice Notification name*, select the **Radioserver Name** check box in the **Misc** section. Otherwise, only the voice notification name will be displayed.

The **Multiselect** element is used to make a simultaneous call to several radio objects (talkgroups and radio subscribers) which were added in advance by dispatcher to the **Multiselect** list.

To initiate a simultaneous call to the participants of the **Multiselect** list, click the **Multiselect** element in the opened custom console. At that, all participants will hear the dispatcher, but only the dispatcher will hear the participant who answers the call.



To add radio objects to the **Multiselect** list, add the **Multiselect** element to the custom console in the console editing mode, open the custom console from the **Tools** menu and click the **Multiselect** element. In the **Multiselect** window, that opened, add necessary radio objects from the **Radio Fleet** list to the **Multiselect objects** list, and click **OK**.

Note: You can create more than one **Multiselect** list, by adding the corresponding number of the **Multiselect** elements to the custom console.

To edit the **Multiselect** list, click the icon of the **Multiselect** list in the opened custom console.

0 out of 2

Broadcast Call

Panel

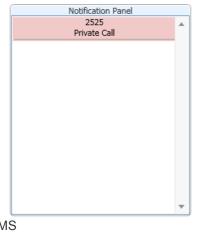


The **Broadcast Call** element is used for making group calls or an All Call within all the channels of the dispatch console simultaneously. Select the required talkgroup or All Call ID in the **Talkgroup ID** field of the **Properties** section. When such a call is initiated, SmartPTT Dispatcher tries to call all of the subscribers with the given identifier.

The **Panel** element is used for uniting several elements. The panel can have its own color, size and placement. All inside elements of one panel are moved together with the panel.

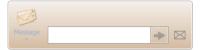
The **Image** element is used for adding logos and other images to the custom console. You can select the image file under the **Properties** section on the right. The supported formats are BMP, JPG, PNG.

Incoming Events



The Incoming Events informs about incoming messages, call alerts and missed private calls to SmartPTT Dispatcher from radio subscribers. Double-click the record in the panel to open the subscriber's Call Window.

TMS



The TMS element is used for sending short text messages to all subscribers or talkgroups situated in one panel with the TMS element. To do this, just enter the text of the message or select a template, and send it. If the **TMS** element is placed outside a panel, it will send private messages. To do this, just select the radio subscriber, enter the text of the message and send the message.

PTT



The **PTT** element is used for a multiple-user call. If it is located inside the panel, clicking the PTT element makes a call to all the subscribers located within this panel. If it is located outside the panel, the PTT element becomes disabled.

When in work, color of the elements with the assigned subscribers differs depending on the status.

Element	Description
Alexander	Gray – the subscriber is offline or outside the network coverage
123	Gray blue – the subscriber is online
123	Light yellow – the oprerator is trying to make an outgoing call Yellow – outgoing call from SmartPTT Dispatcher to radio subscriber

123	Green – incoming call to SmartPTT Dispatcher or the radio is being monitored
2 12	Blue – none of the parties transmit or receive voice. The subscriber can answer the call by pressing the PTT button within hang time. After the hang time expires, the subscriber initiates a new call by pressing the PTT button. The calling subscriber is the subscriber linked with the PTT button by default.
123	Blue frame – the subscriber is selected

You can open the created custom consoles from the **Tools** menu. SmartPTT Dispatcher allows opening multiple custom consoles simultaneously.

1.6 Service

The Service menu allows you to carry out secondary functions, namely:

- Radio Check allows you to send the radio check command to radio subscribers.
- Voice Notifications allows you to play voice notifications.
- Deferred Actions allows you to view and edit deferred actions.
- Received Files allows you to view files received by the radioserver via SmartPTT File Transfer.
- <u>System Information</u> allows you to check event statistics registered on the radioserver or in the dispatcher console and other information on the system.
- Export Radio Subscribers allows you to save the list of registered radio subscribers in XML or XLS formats.
- Import Radio Subscribers allows you to import previously exported list of radio subscribers.
- Upload to KML allows you to export current geographical position of radio subscribers in KML format.
- Import Connect Plus Logs allows you to import data from the Connect Plus network.
- <u>Save Dispatcher Settings</u> allows you to save current settings of the dispatcher console and database to restore them in the future.
- <u>Restore Dispatcher Settings</u> allows you to restore saved settings of the dispatcher console and the database.

1.6.1 Radio Check

The **Radio Check** function can be executed on the selected control stations available to the dispatcher. The result of the **Radio Check** is displayed in the subscriber **Call Window**. It can be: "Subscriber is available" or "Subscriber is unavailable".

To do **Radio Check**, expand the **Service** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Radio Check**. At that, the **Radio Check** window opens.

Radio Check	×
IP 12.0.0.22	
Radioserver1 / Slot 1	
Radioserver1 / Slot 2	
Send Cancel	

Specify the **IP** of the subscriber radio. Select control stations which should be used to check the subscriber availability and click **Send**.

Alternatively, Radio Check can be done from the Call Window or the Actions List.

Mike - Online	I × III
Radioserver 47 Slot 1 No Coordinates	PTT
2:20:29 PM > Online 2:33:07 PM > Offline 2:39:48 PM > Online	* *
Type text and press Enter	▶ ⊠

In the Actions List:

📕 Mike	v	(empty)	PTT ≫	Send Message
				📞 Call Alert
				Radio Check

1.6.2 Voice Notifications

The main purpose of the voice notification functionality is to warn talkgroups about the fire or other emergency and to manage evacuation. However, in normal mode voice notification can be used for usual voice announcements.

Warning! You can create voice notifications only in SmartPTT Radioserver Configurator (Radioserver > Add-on Modules > Voice Notifications). You can run the created voice notifications from SmartPTT Dispatcher.

To play a voice notification in selected systems, expand the Service menu in the Main Menu bar and click

Voice Notifications. At that, the Voice Notifications window will open.

oice Notifications			2
Radioserver			
Radioserver 224			•
Voice Notifications	5		
Name			-
Notification 1			
			-
Notifications Left	0		
Notifications Left	0		
Notifications Left Channels Slot	0 Talkgroup	Successfully Completed	
Channels		Successfully Completed	×
Channels		Successfully Completed	

Radioserver – select the radioserver from the list. The list contains only active and running radioservers,

registered in the dispatch console .

Voice Notifications – select a voice notification from the list of items created in SmartPTT Radioserver

Configurator.

To play the voice notification, select the radioserver and the voice notification, and click **Start**. To stop playing, click **Stop**.

Note: To play a voice notification, you can use the Voice Notification element, added to the custom console.

Note: When the voice notification is stopped, it does not stop playing immediately, but only after it played on all selected channels within a single repetition.

Notifications Left – specifies the number of remaining voice notification repetitions.

Channels – contains a list of channels specified for the selected voice notification. Here you can also see the current status of the voice notification playing, and the number of completed playbacks. The channel is highlighted green, when voice notification playing was successfully completed on this channel. When voice notification can't be played on the channel (for example, hardware or virtual device is not available at the moment), the channel is highlighted red. While voice notification is played on the channel, the channel is highlighted yellow.

Notifications Left	99		
Slot	Talkgroup	Successfully Completed	-
Control Station 1	All Calls	0	
Control Station 2	Group 3	0	
Slot 1	Group 1	0	
Slot 1	Group 2	0	
Slot 2	All Calls	0	
			*
	Start	Stop	

1.6.3 Deferred Actions

SmartPTT Dispatcher allows creating deferred actions. In this version these are audio and text messages, which are to be delivered to a radio subscriber even if the radio subscriber is offline at the moment of message transmission. As soon as the radio subscriber becomes available, the message is sent to the addressee. If the radio subscriber is online at the moment of message transmission, the message is delivered at once.

Note: Dispatcher can create, edit or view deferred actions only if the **Create Deferred Actions** permission is selected. For more information see the **Operators** section.

To create a deferred action open the **Actions List** or the **Call Window** and select **Create Deferred Action**. The radio subscriber can be either online or offline.

Mike - Online	× F
Radioserver 47 Slot 1 No Coordinates	PTT
2:20:29 PM > Online 2:33:07 PM > Offline 2:39:48 PM > Online	•
Type text and press Enter	▶ ⊠

Or in the Actions List:

Mike	v	(empty)	PTT 💓 [\boxtimes	Send Message
			•	٩.:	Call Alert
			6		Radio Check
			(ົ	Monitoring
			(a	Find on Map
			1	2	Show Address
				R	Remove from Map
				ła	Find on Indoor Map
				8	Block Station
			1	ſ	Unblock Station
			4	C	Make Conference Call
			4		Call Telephone Subscriber
			٦	1	Create Point of Interest
				9	Create Deferred Action
				١	Inherited
			1		View Properties

At that, the following window opens.

Create Deferred Action: 320			
Radioserver:	Radioserver 1	▼	
Send Audio Messsage	Record Play		
Send Text Message			
View Deferred Actions	Save		

Radioserver: A list of all the available radioservers, where a deferred action can be created. The drop-down list contains radioservers with the status "Active" only (see **Radioservers** in the **Settings** menu in the **Main Menu**

bar).

Send Audio Message: Allows you to create an audio message. To record a message make sure the **Send Audio Message** check box is selected. Then click **Record**. After you have recorded the message, click **Stop**. To replay the recording, click **Play**. To stop the playback, click **Stop**.

Note: The buttons Record and Play are unavailable if Send Audio Message is not selected.

Send Text Message: Allows you to create a text message.

View Deferred Actions: Opens the list of the deferred actions which were not sent yet.

Deferred Actions					×
Current Radioserve	er: All Radioservers	•	Load Action	List	
🧪 Edit 🛛 🗕 Del	lete				
Create Date	Radio Name	Audio	Text	Message Text	
24.12.2012 15:49:09	Alexander	No	Yes	deferred action	
					*
				C	ancel

Deferred Actions: Allows checking the list of audio and text messages which are to be sent. As soon as the message is sent to the radio subscriber, it is removed from the list.

Current Radioserver: Allows selecting the radioserver whose list of deferred actions is to be viewed. The dropdown list contains only registered radioservers (see Settings > Radioservers). If the radioserver is registered but

not running, it won't be on the drop-down list.

Load Action List: Loads the list of deferred messages per selected radioserver.

Delete: Deletes the selected message.

Edit: Allows making changes in the selected message.

1.6.4 Received Files

SmartPTT Dispatcher provides the ability to view files sent from radio stations with the help of a free application SmartPTT File Transfer. To view the files received from radio stations, expand the Service menu in the Main Menu bar and click

Received Files. At that, the following window opens.

Received Files					×
Current Radioserver:	All Radioservers	Ret	ieve File List		
File name	Radio	Date/Time	Size (Bytes)	Radioserver	
					Ŧ
	Download	Delete	Close		

Current Radioserver - allows selecting files from one available radioserver or all available radioservers.

Retrieve File List - loads received files for the selected radioserver.

Download – opens the window for saving the selected file. You can also open this window by double-clicking on the selected file.

Delete - deletes the selected file from the list.

Close – closes the Received Files window.

1.6.5 System Information

In the System Information window the dispatcher can see:

- 1. The total number of events taking place either on the dispatcher console or on the radioserver.
- 2. Database file size and free space.
- 3. Size of the record folder.

To open the System Information window, expand the Service menu in the Main Menu bar of SmartPTT

Dispatcher.

Click View System Information. At that, the following window opens.

System Information				×
- Source				
Oispatche	er 🔘 Server	Radioserver_117	•	
Events				
	Registration	1487		
	Calls	1698		
	Messages	471		
	Telemetry	1		
	Alarms	68		
Database				
File Name	Current Size	Max Size		1
SmartPTT_ru.mdf	4.3 Mb	Unlimited		
SmartPTT_ru_log.LDF	832 Kb	2048.00 Gb		
				*
Audio				
Porce	ord Folder Size	104 5 Mb		
Kecc	nu Poluer Size	T04.2 MD		
		K		

1.6.6 Export Radio Subscribers

SmartPTT Dispatcher provides the ability to export subscriber list from one SmartPTT Dispatcher and then to

import it into another. Only registered radio subscribers can be exported.

To export the list of radio subscribers, expand the Service menu in the Main Menu bar and click Export Radio

Subscribers. At that, the following window opens.

Export Radio Subscribers	×
Format	
Microsoft Excel	
© XML	
© csv	
Save Export File As: D:\SmartPTT Radio SU\SmartPTT Radio SU.xls	
OK Cancel	

In the Format area select the format in which you want to export the subscriber list. To select the file for export,

click . Supported file formats: XLS, XML and CSV. Then click **OK**. At that, the file with the exported data will

open.

The example of the exported file in XLS format:

Export Radio Subscribers

ID	IP- Address	Network ID	Radio ID	Name	GPS	MDC ID	Icon	Show on map	Lone Worker	Select 5 ID	Indoor Support		Indoor Update				Distance	pin status	GPS on emergency
-586612724	12.0.9.221	12	2525	2525	True	3	\abonentIcons\001_image.ico	True	True	2	False	False	600	True	6	True	456	True	True
1677721612	12.0.0.100	12	100	100	True			True	False		True	True	600	True	600	False	100	False	False

The example of the exported file in XML format:

Export Radio Subscribers

ID	IP- Address	Network ID	Radio ID	Name	GPS	MDC ID	Icon	Show on map	Lone Worker	Select 5 ID	Indoor Support	Indoor Request	Indoor Update Interval	GPS update with time interval	Time Interval	GPS update with distance interval	Distance Interval	GPS on GPIO pin status change	GPS on emergency
-586612724	12.0.9.221	12	2525	2525	Yes	3	\abonentIcons\001_image.ico	Yes	Yes	2	No	No	600	Yes	6	Yes	456	Yes	Yes
1677721612	12.0.0.100	12	100	100	Yes			Yes	No		Yes	Yes	600	Yes	600	No	100	No	No

ID — automatically generated ID of the radio subscriber.

IP Address - radio subscriber IP address.

Network ID – network ID which is specified in MOTOTRBO Customer Programming Software (see parameter CAI

Network).

Radio ID – unique identifier of the radio unit.

Name – radio subscriber name specified in the subscriber's Properties window in SmartPTT Dispatcher.

- GPS shows whether the radio supports GPS.
- **MDC ID** radio ID in the analog data channel.

Icon – path to the icon selected per subscriber. If a radio subscriber has a default icon, the corresponding field in

the export file is empty.

Show on map – shows whether the subscriber's location is visible on the map.

Lone Worker - shows whether the subscriber is in the "lone worker" mode.

Select 5 ID – shows the 5 Tone identifier of the subscriber.

Indoor Support – shows whether the subscriber is visible on the building plan by the dispatcher request or after the predefined time period.

Indoor Request – shows whether the option Update Interval for Indoor Tracking is selected.

Indoor Update Interval – the time interval in seconds for location data update from special beacons, which are installed in buildings.

GPS update with time interval – shows whether the **GPS Update location with time interval** option is selected.

Time Interval – shows the time interval in seconds after which the GPS coordinate request will be sent to the radio subscriber.

GPS update with distance interval – shows whether the **GPS Update location with distance interval** option is selected.

Distance Interval – shows the distance interval in meters or feet after which the GPS coordinate request will be sent to the radio subscriber.

GPS on GPIO pin status change – shows if the GPS coordinate request will be sent to the radio subscriber when the status of telemetry contacts changed.

GPS on emergency – shows if the GPS coordinate request will be sent to the radio subscriber when the radio subscriber sends an emergency alarm.

Note: The following properties of the subscriber in exported files may have two possible values: "True" or "False" in XLS and CSV files; "Yes" or "No" in XML files: GPS, Show on map, Lone Worker, Indoor Support, Indoor Request, GPS update with time interval, GPS update with distance interval, GPS on GPIO pin status change, GPS on emergency.

1.6.7 Import Radio Subscribers

SmartPTT Dispatcher provides the ability to import subscribers (in XLS, XML and CSV) from one SmartPTT Dispatcher to another.

To import the list of radio subscribers, expand the **Service** menu in the **Main Menu** bar and click **Import Radio Subscribers**. At that, the following window opens.

Import Radio Subscribers	\times
Format	
Microsoft Excel	
© XML	
⊙csv	
Choose File to Import: D:\SmartPTT Radio SU\SmartPTT Radio SU.xls	
Add New Records	
Update Existing Records	
OK Cancel	

In the Format area select the format in which you want to import the subscriber list. To select the file for import,

click . Then select the import options.

Add New Records – when the check box is selected, at importing, new subscribers (not existing in SmartPTT Dispatcher) will be added to the list of subscribers.

Update Existing Records – when the check box is selected, at importing, the existing data on the subscribers in SmartPTT Dispatcher is replaced with the data from the imported file.

Note: It is possible to select both import options at a time. At that, new records will be added and the existing records will be updated.

Click **OK** to launch import process.

Click **Cancel** to close the window.

Note: To apply changes after importing, it is important to restart SmartPTT Dispatcher.

The formats of the importing files should match the formats of the exported files.

1.6.8 Upload to KML

SmartPTT Dispatcher supports export of the current subscriber coordinates in KML format. This format is used in

Google Maps/Google Earth systems.

To save subscriber coordinates in KML file format, expand the Service menu in the Main Menu bar of the

SmartPTT Dispatcher window and click **Upload to KML**. At that, the following window opens.

Upload to KML	×
● Local File ◎ FTP	
KML File D:\Coordinates.kml	
Auto upload time interval (sec) 600	
Export Close	

The interface of the window depends on where you selected to store the KML file - to a local folder or to FTP.

Click Local File to keep the uploaded KML file locally.

KML File – specify the destination folder and the name of the KML file with the subscriber coordinates.

You can also set up automatic upload. Simply, select the **Auto upload time interval** check box and enter the time interval.

When everything is ready click **Export** to launch the upload process.

You can also store the uploaded file on FTP. To do that, click **FTP** at the top of the window.

Upload to KN	IL	×
🔘 Local File	e 🖲 FTP	
KML File	ftp://myserver/smartptt/Radios_smartptt.kml	
Login	Login	
Password	*****	
💌 Auto up	bload time interval (sec) 600	
	Export Close	

KML File - specifies the destination folder and the name of the KML file with the subscriber coordinates on the

FTP server.

Fill in the Login and Password fields if the FTP server requires authentication.

To exit and save the settings, click **Close**.

To exit without saving the settings, press **ESC**.

How to display subscribers' coordinates

To view subscriber coordinates from the FTP file:

- 1. Open the website <u>http://www.google.com</u>.
- 2. Click on Maps (the page <u>http://maps.google.com/maps?hl=en&tab=wl</u> is displayed).
- 3. Enter a direct HTTP link to the file located on the FTP server (for example, http://myserver/smartptt/

Radios_smartptt.kml) in the Google maps field and click Search Maps.

To view subscriber coordinates from the local file in Google Earth:

- 1. Start Google Earth.
- 2. Select Open (from the File/Open menu or press CTRL+O).
- 3. Specify the path to the local file with the subscriber coordinates in KML format and click **Open**.

How to configure subscribers' coordinates display with automatic update in Google Earth

- 1. Start Google Earth.
- 2. Select the menu command Add/Network Link.
- 3. In the Name field specify the place mark name to be displayed in Google Earth.
- 4. To view the file from the FTP server, enter a direct HTTP link to the file located on the FTP server (for example, http://myserver/smartptt/Radios_smartptt.kml).

To view the file from the local disk, click **Browse**, specify the path to the file with subscriber coordinates in KML format and click **Open**.

- 5. Click the **Refresh** tab, select the **Periodically** option and set an update interval.
- 6. Click **OK**: SmartPTT subscribers should now be displayed in Google Earth.
- 7. To open the added KML file automatically the next time Google Earth is run, you should save the temporary place mark "Subscribers (SmartPTT)" to My Places list. To do this please select the menu command File/ Save/Save to My Places or press CTRL+SHIFT+S.

1.6.9 Import Connect Plus Logs

SmartPTT Dispatcher allows importing **Connect Plus Logs** to the **Event Log**. This is useful for dispatchers joining a new Connect Plus radio network to get data on the events in this network. The data is taken from the

XRC Controller.

To import **Connect Plus Logs**, expand the **Service** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Import Connect Plus Logs**. The **Import Connect Plus Logs** window opens.

Import Connect Plu	s Logs	$-\times$
Logs folder		
CAI	12	
CAI for Groups	225	
	Import Close	

Logs File – specifies the path to the folder where Connect Plus log file is stored.

CAI – CAI-Network identifier. It's recommended to use the default value 12. It is set in the range from 1 to 126.

CAI for Groups – the identifier of the group's CAI-Network. It's recommended to use the default value 225. It is set in the range from 225 to 239.

If you click Import, Connect Plus data import to the Event Log will be started.

Import Connect Plus Log	z	×
Logs folder	D:\Work\ConnectPlusLogs	
CAI	12	
CAI for Groups	225	
All Files		
	Import Cancel	

All Files – displays the total download progress.

When Connect Plus Log file is imported, you will see the following notification window.

Status		×
i	Import successfully complete Imported: 21195 Processed: 37604 Duration (s): 244	
	ОК	

1.6.10 Save Dispatcher Settings

Starting from version 8.3 you can save and restore not only the event log database, but also the dispatch console

settings. These includes: opened panels, the application interface language and other settings.

To save current settings or database, open the **Service** menu and select **Save Dispatcher Settings**. At that, the following window opens up:

Save Dispatcher Settings	×
Archive File:	
	_
D:\Database\Database_SmartPTT77_190515.zip	-
Objects	
Settings	
✓ Database	
Save Cancel	

Objects – define what you want to save. You can select both, if needed.

Archive File – specify the path to the folder where you need the archive to be saved.

To save the selected objects, click Save. To quit the window without saving, click Cancel.

To restore the saved settings and database, see Restore Dispatcher Settings.

1.6.11 Restore Dispatcher Settings

To restore the saved dispatch console settings or database (see how to save the dispatch console settings here),

open the Service menu and select Restore Dispatcher Settings. At that, the following window will open:

Restore Dispatcher Settings
Archive File:
Objects
Settings
Override Dispatcher GUID
🖉 Database
Restore Cancel

Archive File – specify the path to the archive folder.

Objects - define what you want to restore. You can select more than one option.

Override Dispatcher GUID – if selected, SmartPTT Dispatcher globally unique ID is replaced with the imported value. After importing, there are two dispatch consoles with identical GUID's. If check box is not selected,

SmartPTT Dispatcher globally unique ID is left unchanged. After importing, there are two dispatch consoles with same configuration settings, but different globally unique ID's.

To restore the selected objects, click **Restore**. To quit the window, click **Cancel**. To apply the restored settings, restart the application.

1.7 Reports

The **Reports** menu presents all the reports available in the system:

- Report Wizard allows you to build a report on the basis of the Event log.
- <u>Radio Activity Report</u> allows you to view the number of all calls and group calls during a defined time period.
- <u>Subscriber Location Report</u> is a special report that displays GPS coordinates of the selected radio subscribers.
- <u>Online Subscribers</u> report gives you a list of registered and non-registered subscribers online.
- Lone Workers report gives you the information about events that occur when the radio is in the Lone

Worker mode.

1.7.1 Report Wizard

Report Wizard functionality provides flexible report creation based on the information stored in the SmartPTT

Dispatcher **Event Log**. Using the **Report Wizard** it is possible to select the necessary fields for the report, specify grouping and sorting fields, specify filtering criteria. Reports generated by the **Report Wizard** are exported to Microsoft Excel.

To use the **Report Wizard**, expand the **Reports** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Report Wizard**. At that, the **Report Wizard** window opens.

- In the window that opened select the data source of the future report. You can select between the database of the dispatch console and the database of the radioserver. To be able to select the radioserver's database, make sure that the radioserver is up and running.
- 2. Select fields which you want to include in the report and click Next.

Report Wizard		×
Select data for the report	Sn	
 Direction Event Type Date/Time Additional Information Not read Operator Radioserver Control Station Repeater IP Subscriber Talkgroup Receiver Status Duration 		Select fields that are to be included in the report.
Help	Cancel Bac	ck Next Finish

3. Define the structure of the report – its grouping and sorting.

Note: If both fields are not specified, the report will be grouped and sorted by default.

When ready, click **Next**.

Report Wizard X	Report Wizard X
Group and sort report data	Group and sort report data
Group by:	Group by:
Sort by: Direction Event Type Date/Time Additional Information Not read Operator Radioserver Control Station Repeater IP Subscriber Talkgroup Receiver Status Duration Connection Type Sound Record Lone Worker	Sort by: Direction Event Type DateTime Additional Information Not read Operator Radioserver Control Station Repeater IP Subscriber Talkgroup Receiver Status Duration Connection Type
Help Cancel Back Next Finish	Help Sound Record Lone Worker

4. Filter the report by values. Click **Next** to continue.

Report Wizard				×
Filter conditions			SmartPTT	
	Active	Condition	Value	
Direction		Equals 💌	Incoming	
Event Type		Equals 💌	ARS	
Date	\checkmark	In Interval	6/25/2014 5 - 6/25/2014	15
Radioserver	~	Equals 💌	Radioserver 47	▼ =
Control Station		Equals 💌	Slot 1	
Repeater IP		Equals 💌		•
Talkgroup		Equals 💌		.
Subscriber		Equals 💌		.
Help			Cancel Back Next	Finish

5. Specify the file name of the report. To complete the process, click Finish. The report can be saved in HTML,

MHT, XLS, XLSX, CSV, and TXT formats.

Report Wizar	d				×
Create and	save report	9	Dmar	tPTT	
Save as:	D:\Report1.xlsx				
Help		Cancel	Back	Next	Finish

1.7.2 Radio Activity

Radio Activity Report gives information about quantity and duration of All Calls and Group Calls with a breakdown into hours or days.

To create the report, expand the **Reports** menu and select **Radio Activity Report**. The **Radio Activity Report** window opens.

Radio Activity Re	port	×
Period	6/9/2014 12:00:00 AM 15 - 6/9/2014 11:59:59 PM	15
Source	Dispatcher	•
Channel	All	▼
Group by	Days 💌	
	OK Cancel	

Period – defines the time frame for the report data.

Source – defines the source, which database will be used for the report. If *Dispatcher* is selected, the data is

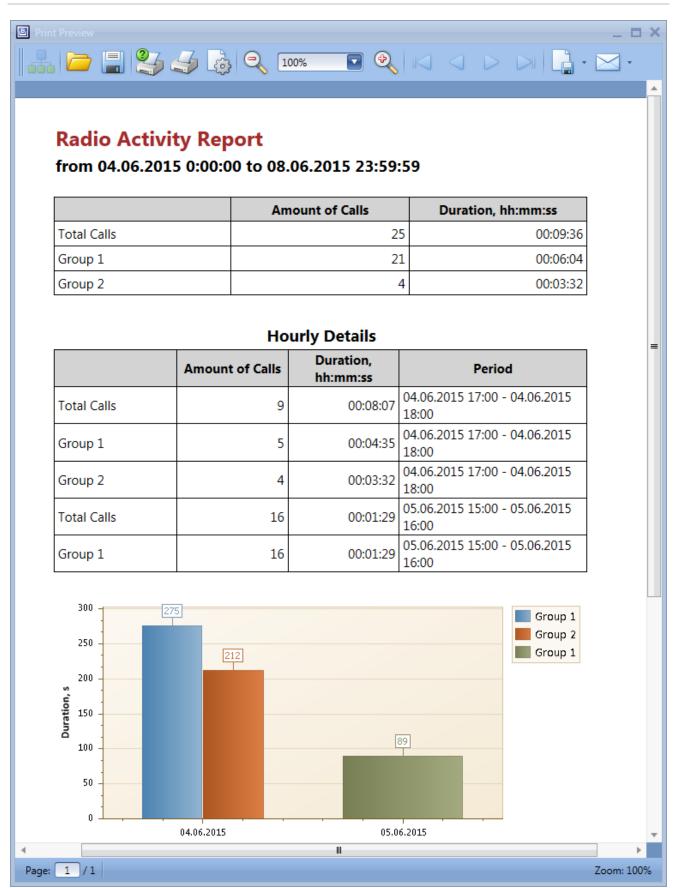
taken from the local database. Apart from *Dispatcher*, any available radioserver can be chosen as a data source.

In that case all data is taken from the database of the chosen radioserver.

Channel – allows to build a report for a particular channel of for all control stations.

Group by – defines the level of detail, whether you want to see the report information divided into days, hours or minutes.

The report can be saved in PDF, HTML, MHT, RTF, XLS, XLSX, CSV, TXT, Image or XPS formats.



1.7.3 Subscriber Locations

SmartPTT Dispatcher allows creating a report on subscriber's locations. The report can be saved in PDF, HTML,

MHT, RTF, XLS, XLSX, CSV, TXT, Image or XPS formats.

To create the report, expand the Reports menu in the Main Menu and click Subscriber Locations. At that, the

Subscriber Locations window will open.

Subscriber L	ocations >	<
Period	01.03.2015 0:00:00 15 - 12.05.2015 23:59:59 15	j
Source	Dispatcher 💌)
Subscriber	All subscribers	
	Group by subscribers	
	UTC Time	
	RSSI	
	✓ Address	
Route)
	Only Key Points	
	OK Cancel	

Period – defines the time frame of the report.

Source – defines the source, whose database will be used for the report. If *Dispatcher* is selected, the data is taken from the local database. Apart from *Dispatcher*, any available radioserver can be chosen as a data source. In that case the data is taken from the database of the chosen radioserver. To build a report based on the radioserver database, make sure that **Event Log** is enabled and connected in SmartPTT Radioserver Configurator. **Subscriber** – defines subscriber for whom the report is to be generated. The list of subscribers is taken from the current database. When *All* is selected, the report will be generated for all subscribers which have GPS coordinates in the database.

Group by subscribers – groups data in the report by radio subscribers.

UTC Time – if selected, the report time will be converted to UTC format. If **UTC Time** is not selected, the local time of the radioserver PC will be shown in the **Subscriber Locations** report.

RSSI – if selected, the signal strength of the received signal (RSSI) is displayed in the report.

Address – allows displaying address information based on the received coordinates. The addresses are received from one of the two services Google Maps or OpenStreetMap. The service is selected in Settings > Positioning Systems > Address Data Provider. If the Address check box is not selected, there will be a link Find on Map instead of the address. You can use the link to see the address.

Route – defines the route on the basis of which the Subscriber Locations report is to be generated.

Only Key Point – displays only the key points of the route in the report.

Click **OK** to create the report.

							· · ·
	iber Loc 2015 0:00:00 1		•				
Date	Subscriber	Latitude	Longitude	Speed m/s	Precision (ft)	RSSI (dBm)	Address
04.03.2015 17:10:11	4000	56,47897	85,06805	0,38	33,12	-58,64	<u>ulitsa Bratyev Tronovykh, Nauka,</u> Tomskaya oblast', Russia, 634055
04.03.2015 17:08:57	4000	56,47897	85,06808	0,24	57,72	-58,71	<u>ulitsa Bratyev Tronovykh, Nauka,</u> <u>Tomskaya oblast', Russia, 634055</u>
04.03.2015 17:08:39	4000	56,47897	85,06808	0,15	51,83	-58,68	<u>ulitsa Bratyev Tronovykh, Nauka,</u> Tomskaya oblast', Russia, 634055
04.03.2015 17:08:23	4000	56,47897	85,06808	0,05	58,72	-58,62	<u>ulitsa Bratyev Tronovykh, Nauka,</u> Tomskaya oblast', Russia, 634055
04.03.2015 17:08:07	4000	56,47897	85,06808	0,39	53,80	-58,57	<u>ulitsa Bratyev Tronovykh, Nauka,</u> Tomskaya oblast', Russia, 634055
04.03.2015 17:07:55	4000	56,47897	85,06806	1,19	108,91	-58,65	<u>ulitsa Bratyev Tronovykh, Nauka,</u> Tomskaya oblast', Russia, 634055
04.03.2015 17:07:47	4000	56,47898	85,06811	0,23	104,32	-58,72	<u>ulitsa Bratyev Tronovykh, Nauka,</u> Tomskaya oblast', Russia, 634055
04.03.2015 17:07:03	4000	56,47898	85,06811	0,10	48,55	-58,63	<u>ulitsa Bratyev Tronovykh, Nauka,</u> Tomskaya oblast', Russia, 634055
04.03.2015 17:06:51	4000	56,47898	85,06811	0,05	316,60	-58,55	ulitsa Bratyev Tronovykh, Nauka, Tomskaya oblast', Russia, 634055
04.03.2015 17:05:37	4000	56,47898	85,06812	0,49	100,37	-58,65	<u>ulitsa Bratyev Tronovykh, Nauka,</u> Tomskaya oblast', Russia, 634055
04.03.2015 17:05:15	4000	56,47899	85,06812	0,23	144,66	-58,71	ulitsa Bratyev Tronovykh, Nauka, Tomskaya oblast', Russia, 634055
04.03.2015 17:04:59	4000	56,47899	85,06810	0,48	119,75	-58,70	ulitsa Bratyev Tronovykh, Nauka, Tomskaya oblast', Russia, 634055
04.03.2015	4000	56.47899	85.06810	0.07	105.63	-58.57	ulitsa Bratyev Tronovykh, Nauka,

In order to set up the format of Latitude, Longitude, Speed and Precision columns of the Subscriber

Location Report, see Positioning Systems, the GPS tab, in SmartPTT Dispatcher.

Note: The Universal Transverse Mercator Coordinate System format is not applicable to this report. If it is

selected, Latitude and Longitude are displayed in Decimal degrees format.

1.7.4 Online Subscribers

SmartPTT allows exporting online subscribers (registered and not registered) in no time by means of the **Online Subscribers** report.

To create the report, expand the **Reports** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and click **Online Subscribers**. At that, the following window opens.

Online Subscribers		×
Select Radio IDs		
All		
◯ From	to	
ОК	Cancel	

All – select this radio button to include all registered and not registered online subscribers in the report.

From ... to ... – select this radio button to limit the number of subscribers in the report.

Click **OK**. At that, the report opens. The report can be exported to PDF, HTML, MHT, RTF, XLS, XLSX, CSV, TXT, Image or XPS formats. The report contains three columns: **Radio ID**, **Channel Type** and **Name**. The **Channel Type** column can have three values: MOTOTRBO, Analog, Select 5.

Print Preview	S S 2 100%			_ = ×
		Online Subscribers	(3)	
	Radio ID	Channel Type	Name	
	4000	MOTOTRBO	Engineer Site 12	1
	2525	MOTOTRBO	Security Floor 1	
	1	MOTOTRBO	Engineer Site 11	

1.7.5 Monitoring Report

Monitoring Report is a report based on the data collected during monitoring and filtered by different criteria. The report gives such information as repeater ID, ID's of the calling and receiving parties, duration of the event and its type, RSSI and many other.

Note: Before building a report, make sure the radioserver is up and running.

To create the report, expand the **Reports** menu in the **Main Menu** bar and under **Monitoring** select **Report**. At that, the following window appears.

Monitoring	×
Period	25.12.2012 00:00 5 - 26.12.2012 00:00 5
Radioserver	Radioserver1
Subscriber	All
	UTC Time
Sort by	Repeater
	OK Cancel

Period – defines the time frame of the report.

Radioserver – defines the radioserver, whose database you want to use as a data source.

Subscriber – selects the subscriber for whom the report is to be generated. If you select **AII**, the report will be generated for all registered subscribers.

UTC Time – if **UTC Time** is selected, the report time will be converted to UTC format. If **UTC Time** is not selected, the local time of the radioserver PC will be shown in the report.

Sort By – you can select the column by which you want to sort the report data: network, repeater, slot, protocol, sender, receiver, duration, RSSI.

1.7.6 Monitoring Log

Monitoring Log shows information about available devices in the system (e.g., repeaters, routers, uninterruptible power supplies) and alarms registered on these devices.

Note: Before building a report, make sure the radioserver is up and running.

To create the report, expand the **Reports** menu in the **Main Menu** bar and under **Monitoring** select **Log**. At that, the following window opens.

Event Log		×
Period	1/21/2014 12:00:00 AM 15 - 1/23/2014 12:00:00 AM	15
Radioserver	Radioserver_Tomsk	-
	OK Cancel	

Period – defines the time frame of the report.

Radioserver – defines the radioserver whose database you want to use as a data source.

After clicking OK, the report opens automatically:

.		.2014 00:00:00	D · m			Device ID	• .	n
Radioserve	r Network S	lite Event Time	Device Type	Repeater	Device Name		Importance	Description No response from the
71		12.11.2014 15:31:05	Router		Cisco	192.168.37.72:161	High Alarm	device
71		12.11.2014 15:30:58	UPS		Eaton	192.168.37.73:161	High Alarm	No response from the device
71	IP Site Connect 1	12.11.2014 15:30:52	Repeater	141	Motorola	192.168.37.141:50101	Information	Repeater connected
71	IP Site Connect 1	12.11.2014 15:30:47	Repeater	31220		192.168.37.128:50001	Information	Repeater connected
71	IP Site Connect 1	12.11.2014 15:30:45	Repeater	71	SmartPTT	192.168.37.71:50000	Information	Repeater connected
71	IP Site Connect 1	12.11.2014 15:30:29	Repeater	31220	SmartPTT	192.168.37.128:50001	Information	Repeater disconnected
71	IP Site Connect 1	12.11.2014 15:30:29	Repeater	188		192.168.37.137:50000	Information	Repeater disconnected
71	IP Site Connect 1	12.11.2014 15:30:27	Repeater	141	Motorola	192.168.37.141:50101	Information	Repeater disconnected
71		12.11.2014 15:29:56	Router		Cisco	192.168.37.72:161	High Alarm	No response from the device
71		12.11.2014 15:29:49	UPS		Eaton	192.168.37.73:161	High Alarm	No response from the device
71	IP Site Connect 1	12.11.2014 15:29:43	Repeater	141	Motorola	192.168.37.141:50101	Information	Repeater connected
71	IP Site Connect 1	12.11.2014 15:29:38	Repeater	31220		192.168.37.128:50001	Information	Repeater connected
71	IP Site Connect 1	12.11.2014 15:29:38	Repeater	188		192.168.37.137:50000	Information	Repeater connected
71	IP Site Connect 1	12.11.2014 15:29:36	Repeater	71	SmartPTT	192.168.37.71:50000	Information	Repeater connected

1.7.7 Monitoring Analytics

Monitoring Analytics is a graphical representation of the data received during a monthly monitoring process.

To build a report, expand the Reports menu in the Main Menu bar, and under Monitoring select Analytics. At

that, the following window opens.

Analytics	×
Start Date	01.03.2015 11:13:29
Radioserver	Radioserver1
Network	All
Site	All
Repeater	All
Subscriber	All
	OK Cancel

Start Date – specify the start date of the report. This is a monthly report, so the end date is calculated automatically.

Radioserver - select the available radioserver whose database will be used as a data source. Make sure that

Monitoring is enabled and the monitoring database is connected in SmartPTT Radioserver Configurator.

Settings Rules Activity Network Configuration Client Li	List Log Export/Import Settings Statistics
Radio Server Radio Network Services Add-on Modules Licenses Tallysman Indoor Tracking Event Log Phone Calls Redio Activitications Web Application Web Application Number Service SNMP Service Control Stations P Stet Connect Networks Capacity Plus Systems Connect Plus Radio Activity Networks NAI Networks SIP/RTP Interfaces Smart PTT Radioservers Profiles Subscriber Groups Metadata	Monitoring Image: Active Creating Monitoring Database Server Name: localhost\SQLExpress Database Name: Monitoring2014 Create New Database Authorization Mode: Windows NT Authorization Login: Password: Check Connection Restoring Database Backup Restore Database

Network – select the radio system for which you want to build a report. The drop-down list contains all radio systems which have been ever used. Network ID's are used for old networks, and names—for existing ones. **Site** – select a site. This is used for Linked Capacity Plus networks. You can also build a report for all existing sites, or select no sites at all.

Repeater – select the particular repeater. You can also build a report for all repeaters.

Subscriber – select the subscriber for whom the report is to be built. You can build a report on all subscribers from the drop-down list.

Report sample:



Export - allows you to save the report in HTML format for further use.

1.7.8 System Usage

The **System Usage** report provides information on the system load, operation time of the system, downtimes, and other information. To build the report, expand the **Reports** menu in the **Main Menu** bar and under **Monitoring** select **System Usage**. At that, the following window opens.

System Usage	2	\times
Period	10.11.2014 0:00:00 15 - 11.11.2014 0:00:00	15
Radioserver	Tomsk_170	•
System	IP Site Connect 1	
	OK Cancel	

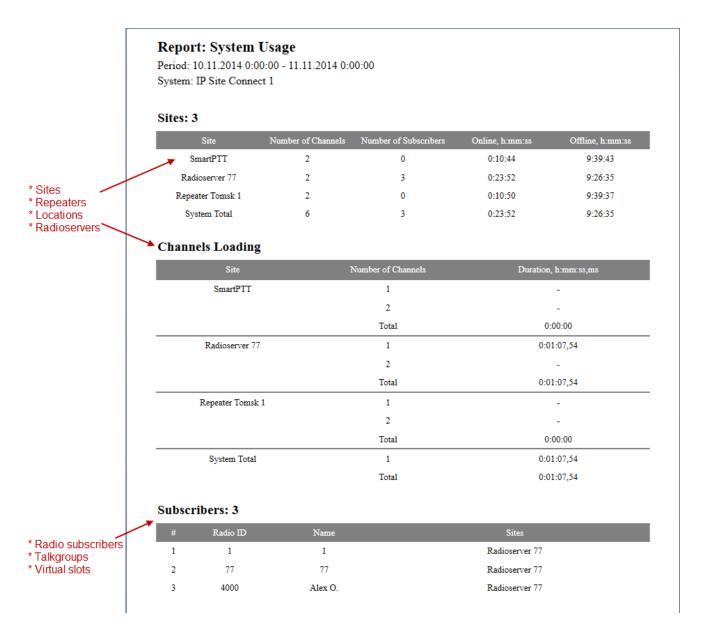
Period – defines the time frame of the report.

Radioserver – select the available radioserver whose database will be used as a data source. To build a report you need to enable **Monitoring** in SmartPTT Radioserver Configurator and create a new monitoring database, or connect to the existing one.

Settings Rules Activity Client List Network Configuration	ion Log Export/Import Settings Statistics					
E Radio Server	Monitoring					
ia∰ Radio Network Services	Active					
Licenses Tallysman	Creating Monitoring Database					
Indoor Tracking	Server Name: localhost\SQLExpress					
⊕ Event Log ⊕	Database Name: Monitoring					
Bridging Voice Notifications	Create New Database					
💽 Web Application						
Monitoring SNMP Service	Authorization Mode: Windows NT Authorization					
Sontrol Stations	Login:					
IP Site Connect Networks Gapacity Plus Systems	Password:					
	Check Connection					
🕀 🔐 NAI Networks						
SIP/RTP Interfaces 	Restoring Database Backup					
	Restore Database					
📺 👘 Metadata						

System – defines the radio system for which you want to build a report. In the drop-down list you can find both existing and removed radio systems. Network IDs are used for outdated radio systems, and names—for existing ones.

After setting the parameters, click **OK** and the report will open in a new window.



1.7.9 Lone Workers

The **Lone Workers** report provides information about the radio subscriber events when the radio is in the "lone worker" mode, for example, registration on the network, the incoming or outgoing calls and messages.

To create the report expand the **Reports** menu in the **Main Menu** bar of the SmartPTT Dispatcher window and select **Lone Workers**. The **Lone Workers** window opens.

Lone Worker	s X
Period	1/1/2014 12:00:00 AM 15 - 1/15/2014 12:00:00 AN 15
Subscriber	All
Sort By	V Event Type
	OK Cancel

Period – defines the time frame for the report data.

Subscriber – defines the subscriber for whom the report is to be generated. The list of subscribers is taken from the connected database.

Sort By – defines the sorting field for the report events. Sorting parameters: direction, event type, date and time, additional information, operator, control station, subscriber, group, status, duration, repeater IP address, receiver. The report can be saved in PDF, HTML, MHT, RTF, XLS, XLSX, CSV, TXT, Image or XPS formats.

					Lo	ne Workers						
Direction	Event Type	Date/Time	Additional Information	Operator	Radioserver	Control Station	Subscriber	Talkgroup	Status	Duration	Repeater IP	Receiver
Incoming	Call	6/12/2014 12:24:52 PM	Mike	Dispatcher 47	Radioserver 47	Slot 1	Mike	Group 1	Group Call	5		Group 1
Incoming	Message	6/12/2014 12:25:47 PM	157 9 25	Dispatcher 47	Radioserver 47	Slot 1	Mike	Group 1	Message accepted	1		Group 1
Incoming	Call	6/12/2014 12:26:04 PM	Mike	Dispatcher 47	Radioserver 47	Slot 1	Mike	Group 2	Group Call	5		Group 2
Incoming	Call	6/12/2014 12:26:26 PM		Dispatcher 47	Radioserver 47	Slot 1	Mike		All Call	2		All Call
Incoming	Call	6/12/2014 12:26:28 PM		Dispatcher 47	Radioserver 47	Slot 1	Mike		All Call	2		All Call
Incoming	Call	6/12/2014 12:26:31 PM		Dispatcher 47	Radioserver 47	Slot 1	Mike		All Call	2		All Call
Incoming	Call	6/12/2014 12:28:22 PM		Dispatcher 47	Radioserver 47	Slot 1	Mike		Subscriber is available			
Incoming	Call	6/12/2014 12:28:37 PM		Dispatcher 47	Radioserver 47	Slot 1	Mike		Monitoring	15		12.0.0.47
Incoming	Call	6/12/2014 12:29:25 PM		Dispatcher 47	Radioserver 47	Slot 1	Mike		Private Call	5		12.0.0.47
Incoming	Call	6/12/2014 12:29:31 PM		Dispatcher 47	Radioserver 47	Slot 1	Mike		Private Call	18		12.0.0.47
Outgoing	Message	6/12/2014 12:31:51 PM	Where are you?	Dispatcher 47	Radioserver 47	Slot 1	Mike		Message delivered			Mike
Outgoing	Call	6/12/2014 12:27:40 PM		Dispatcher 47	Radioserver 47	Slot 1	Mike		Private Call	7		Mike
Outgoing	Message	6/12/2014 12:28:08 PM	ok	Dispatcher 47	Radioserver 47	Slot 1	Mike		Message delivered			Mike

1.8 User Interface Layout

The **UI Layout Settings** button **I** in the **Main Menu** bar contains two features:

• Locking the layout of the user interface of the dispatch console (for more information see Lock UI Layout)

• Customization of the layout of the user interface of the dispatch console:

When working with SmartPTT Dispatcher the operator opens many different windows. Some of them are used very often. Usually, at every launch of the application all the windows are closed and the operator needs to spend considerable time to configure the main area. This is quite inconvenient and time-consuming. In order to avoid this, the operator can save his/her windows configuration at the end of the work day, prior to the application shutdown, and restore the configuration the next day. There can be more than one window configuration and the operator can switch between them. To save the current layout of the application user interface for future use, select **Set Ul Layout**, and then click **Add**. Enter the name of the user interface layout. To restore the selected user interface layout, click **Apply**. To delete the saved user interface layout, click **Delete**.

There are two default window configurations, which can't be deleted:

- Calls and Event log. It opens <u>Calls</u>, <u>Radio Fleet</u>, <u>Sound Spectrum</u> and <u>Event Log</u>.
- Calls, Channels and Event log. It opens <u>Calls</u>, <u>Radio Fleet</u>, <u>Sound Spectrum</u>, <u>Channels</u> and <u>Event Log</u>.

1.8.1 Lock UI Layout

Locking user interface layout feature is available only for Administrator account and allows blocking any dispatch console layout changes for operators. It allows administrator to do specific console customization and prevent ordinary dispatchers from opening and closing windows and panels.

In order to fix panel positioning, click

and then select Lock UI Layout.

When this mode is enabled, the dispatcher can't do the following actions:

- Opening and closing panels. Automatic pop-up panels, such as **Notifications** and **System messages**, do not open either.
- Changing panel location (see <u>Changing Layout</u>).
- Switching user interface layouts.

- Changing the size of the opened panels.
- Changing the content of the Radio Fleet panel.

Note: If the **Event Log** is opened when the user interface layout is locked, all the features designed for the **Event Log** management are available to the dispatcher.

1.9 Bridging

SmartPTT Bridging service allows joining multiple network systems into a single radio network. The bridging service is implemented by SmartPTT Radioserver and provides intelligent means of patching for voice and data streams between various network systems.

In SmartPTT Plus the bridging service allows you to :

- join various radio networks;
- bridge two or more radioservers to cover distributed regions;
- bridge selected voice and data;
- bridge private and group calls dynamically;
- break the barrier of 15 repeaters per IP Site Connect;
- have calls bridged with only a short voice delay (from 60 ms), when joining IP Site Connect systems.

Radio network configurations supporting bridging:

- 1. NAI networks
- 2. Connect Plus networks. The current version of SmartPTT Dispatcher supports only talkgroup call exchange between Connect Plus networks and analog control stations, digital control stations (analog or digital conventional channels), NAI networks (the Voice connection type) or Connect Plus networks. Bridging of Connect Plus networks with other network types is not supported yet. Any other data exchange between Connect Plus and other networks is not supported yet.
- 3. SIP/RTP interfaces
- 4. External SmartPTT radioservers
- 5. Digital conventional channels. Private calls or data can't be bridged in networks based on control stations.
- 6. Analog conventional channels. Private calls can't be bridged in networks based on control stations.

How to Configure Bridging in SmartPTT Dispatcher Console

You can configure bridging settings in the call bridging table in SmartPTT Dispatcher. It was designed to make the process of bridging configuration simple and easy. The main idea of the configuration process is to manage bridging with the help of the so-called "Profiles" and "Route Groups". The profiles contain information on the bridging rules, which are specified in route groups and further in routes. So, there are three levels:

- 1. Routes
- 2. Route Groups
- 3. Profiles

Route – basic unit of the bridging process and an integral part of the route group, that is a route cannot be used separately. It is in the route where you define the source and the destination networks, and other main characteristics of the route.

Route Group – group which unites several routes. It was designed to provide a neat look to profiles. Route groups can be easily activated and deactivated, which will either make routes inside route groups usable or not usable. **Profile** – saved template of route groups. Profiles can be created for various business fields, for example, there can be profiles for general purposes, for carrying out engineering work or for emergency situations, etc. You can configure bridging settings individually for each radioserver from SmartPTT Dispatcher. To open the call

bridging table, open the Actions List by clicking the button next to the radioserver and select Configure Call Bridging Table.



At that, the **Bridging Configuration** window opens.

Bridging Configuration		×
Radioserver: Radioserver_1 Profile: Profile 1 Change Profile Save Routes: All O Active + Add Group ✓ Edit Group — Delete Group 		
Active Route Group IPSC_1 IPSC 1 -> IPSC 2 Group 1		Show Details Hide Details
	Ŧ	Apply Close

This is the main window from where you can create routes, route groups and add them to new profiles. The window also informs about the name of the current radioserver, its current profile, the list of available routes organized in groups.

Show Details – displays details of the route groups. You can also check the details of a particular route group by clicking a plus sign next to the route group name.

Hide Details – displays only route group names and the Active check box.

ridg	jing Con	figuration							
tadi	oserver:	Radioserver_1							
Profi	ile:	Profile 1	Change Profile	Save	S	ave As			
out	tes:	All Activ	/e						
+	Add Gr		Group — Delet	Group					
•			sloup — Delei	te Group					
	Active	Route Group					*		Show Details
-	~	Group 1							Hide Details
	Route								
	N≘	Source Network		Source	Direction	Destination Network	Target		
	8	IP Site Connect 1 -	Slot 1	All	+	IP Site Connect 1 - Slot 2	All		
	9	IP Site Connect 1	Slot 1	Talkgroup 1	+	IP Site Connect 1 - Slot 2	Group 3	=	
	10	IP Site Connect 1	Slot 1	Subscriber 95	+	IP Site Connect 1 - Slot 2	Subscriber 95		
		IPSC 1 -> IPSC 2							
	Route	5							
	N≘	Source Network		Source	Direction	Destination Network	Target		
	3	IP Site Connect 1	Slot 1	Talkgroup 1	+	IP Site Connect 1 - Slot 2	Group 2		
•	4	IPSC_1							Apply
	Route	5							
	N≘	Source Network		Source	Direction	Destination Network	Target	Ŧ	Close

By default, the bridging table displays only active route groups, which belong to the selected profile. To display all route groups, select the **All** option.

The buttons Change Profile, Save, Save As allow you to create a new profile or edit the existing one.

The buttons **Add Group**, **Edit Group**, **Delete Group** allow creating new route groups and attach routes to groups.

1. Profiles

Profiles are used for quick switching between predefined bridging tables.

To add, modify or delete a profile, click Change Profile in the Bridging Configuration window.

Bridging profiles	×
O No Profile	
Select Profile	
🕂 Add 💉 Edit 🗕 Delete	
General]
Profile 1	
OK Cancel].

If **No Profile** is selected, the created groups have no reference to a specific profile. The profile list and buttons for profile edition are not available in the **Bridging Profiles** window.

If **Select Profile** is enabled, the profile list is available for editing and route groups can be assigned to the selected profile.

In the **Bridging Profiles** window, click **Add** to create a new bridging profile. At that, the **Enter Profile Name** window opens. Use the **Profile Name** field to specify the profile name, click **OK**.

Enter Profile Name			
Profile Name	Profile 2		
	ОК	Cancel	

Left-click on the profile name in the Bridging Profiles window and click OK.

Bridging Configuration	×
Radioserver: Radioserver_1 Profile: Profile 2 Change Profile Save Save Save As Routes: All Active + Add Group Delete Group 	
Active Route Group Active Group 1 Group 1 For PSC 1 -> IPSC 2 For PSC_1 Active Route Group 1 Active Rout	Show Details Hide Details
	Apply Close

As you finished editing the profile settings, click **Apply** to activate the current profile settings. At that, the asterisk character ("*") appears in front of the profile name.

Bridging Configuration	×
Radioserver: Radioserver_1 Profile: Profile 2 * Change Profile Save Save Save As Routes: Image: All Image: Active + Add Group — Delete Group —	
Active Route Group B Group 1 B IPSC 1 -> IPSC 2 B IPSC_1	Show Details Hide Details
	Apply Close

Click **Save** to save the profile settings.

To switch the profile, click **Change Profile** in the **Bridging Configuration** window, select a profile from the list and click **OK**. The **Bridging Configuration** window displays settings of the selected profile – active route groups.

Bridging Configuration	×
Radioserver: Radioserver_1 Profile: Profile 1 Change Profile Save Save: Save Save As Routes: Image: All Image: Active + Add Group — Delete Group	
Active Route Group Group 1 Group 1 Final PSC 1 -> IPSC 2 Final PSC_1	Show Details Hide Details
	Apply Close

Save As allows you to save a copy of the current profile with a new name.

2. Route Groups

To create a new bridging route group and add routes to it, click Add Group in the Bridging Configuration

window.

In the Route Group window, specify name of the route group, add routes to the group and click OK.

Route Group					×
Name: Group 2					
🕇 Add Route 🥜 Edit Route	– Delete Route				
Nº Source Network	Source	Direction	Destination Network	Target	-
5 IP Site Connect 1 - Slot 1	All	++	IP Site Connect 1 - Slot 2	All	
					-
			OK	Can	cel .:

To save the changes in the route groups, click Apply.

Add routes to the group by clicking **Add Route** in the **Route Group** window. At that, the window for adding routes opens up.

Route			×
	F	Route Number	
	1		
Source Control Station		Route Type	Destination Control Station
IP Site Connect 1 - Slot 1		V	IP Site Connect 1 - Slot 2
Source		Direction	Target
		↔ ▼	
Process Routed Calls			✓ Process Routed Calls
	ОК		ancel

This is the window where you create routes. Here you can define the source and the target networks, route

direction (one-way or two-way), the source radio or talkgroup and the target radio or talkgroup. You can also

select the **Route Type**, which depends on the data type you want to patch.

Here you can find a detailed description how to configure routes of different types.

2.1. Configuring "All" Route Type

If you need to patch all voice and data packets from the source network to the destination network, select All in

the Route Type.

In this case you need to fill in the following fields:

Route Number – ordinal number of the route.

Source Control Station – select any of the added control stations serving as a source. You can add control

stations of various networks in SmartPTT Radioserver Configurator.

Destination Control Station – select any of the added control stations serving as a destination. You can add control stations of various networks in SmartPTT Radioserver Configurator.

Direction – allows you to select either one-way or two-way.

another time by another route. It takes place only when several routes are added.

Example:

You can add all these routes without the **Process Routed Calls** check box selected:

IPSC 01 slot 01 <---> IPSC 02 slot 01

IPSC 01 slot 01 <---> IPSC 03 slot 01

IPSC 01 slot 01 <---> IPSC 04 slot 01

IPSC 02 slot 01 <---> IPSC 03 slot 01

IPSC 02 slot 01 <---> IPSC 04 slot 01

IPSC 03 slot 01 <---> IPSC 04 slot 01

Or, you can select the check box and create only three routes:

IPSC 01 slot 01 <---> IPSC 02 slot 01

IPSC 02 slot 01 <---> IPSC 03 slot 01

IPSC 03 slot 01 <---> IPSC 04 slot 01

Warning! Please don't use round routes. They can cycle all routes and lead to unstable system operation (for example, IPSC 01 slot 01 <---> IPSC 04 slot 01).

2.2. Configuring "Talkgroup" Route Type

In order to patch a group call, select **Talkgroup** in the **Route Type**. Specify the source and the destination networks, and other parameters as if you were configuring the "All" **Route Type**.

The only difference is that for this route type you need to specify the groups' IDs, that is the source talkgroup ID in the **Source** field and the destination talkgroup ID in the **Target** field. For All Call, use "0" as **Source ID** or **Target** ID.

Route		×
	Route Number	
	3	
Source Control Station	Route Type	Destination Control Station
IP Site Connect 1 - Slot 1	Talkgroup	IP Site Connect 1 - Slot 2
Source	Direction	Target
1	↔ ▼	2
Process Routed Calls		Process Routed Calls
	OK Can	cel

2.3. Configuring "Subscriber" Route Type

Note: This route type is not supported in SmartPTT Basic, since private calls can't be bridged in control station networks.

To patch individual calls or text messages, select **Subscriber** in the **Route Type** field.

Specify the source and the destination networks, and other parameters as if you were configuring any of the previous route types.

In the **Source** field specify the subscriber radio ID from the source network. The **Target** field will be populated automatically. In this case, all the subscribers from the destination network (see **Destination Control Station**) will be able to call to radio subscriber 123 and v.v.

Route		×
	Route Number	
	3	
Source Control Station	Route Type	Destination Control Station
IP Site Connect 1 - Slot 1	Subscriber 💌	IP Site Connect 1 - Slot 2
Source	Direction	Target
123	↔ ▼	123
Process Routed Calls		Process Routed Calls
	OK Can	cel

2.4. Configuring "Dynamic" Route Type

Note: This route type is not supported in SmartPTT Basic, since private calls can't be bridged in control station networks.

To patch private voice calls or text messages of the subscribers from the **Subscriber Groups**, select **Dynamic** in the **Route Type** field.

Route		×
	Route Number	
	5	
Source Control Station	Route Type Destination Control Station	
Automatically	Dynamic Automatically	
Subscriber Group		
Drivers_Group 1	v	
	OK Cancel	.::

In the Subscriber Group select a group, which was added in Subscriber Group of SmartPTT Radioserver

Configurator.

Once created, the routes will display in the **Route Group** window. Here is the example of the route group containing routes of three types (**All**, **Group**, **Subscriber**).

ute G	roup						
ame:		Group 1					
┣ Ad	ld Route	🧪 Edit Route 🛛 🗕	Delete Route				
N≘	Source N	etwork	Source	Direction	Destination Network	Target	ľ
8	IP Site Co	nnect 1 - Slot 1	All	↔	IP Site Connect 1 - Slot 2	All	
9	IP Site Co	nnect 1 - Slot 1	Talkgroup 1	++	IP Site Connect 1 - Slot 2	Group 3	
10	IP Site Co	nnect 1 - Slot 1	Subscriber 95	↔	IP Site Connect 1 - Slot 2	Subscriber 95	
							-
					ОК	Cancel	

Activating Bridging Service

To make bridging active go to SmartPTT Radioserver Configurator, select Bridging in the tree and select the

Active check box. Save the settings and restart the radioserver to apply the changes.



1.10 Conference Calls

The **Conference Call** is a type of call in which the dispatcher can have more than one subscriber of different types at a time. At that, all the participants of the conference call can hear and talk to each other.

SmartPTT Dispatcher allows the dispatcher to organize conference calls and to connect the following subscriber types:

- Telephone subscribers
- Other dispatchers using SmartPTT Dispatcher
- Radio subscribers
- Talkgroups

Note: To be able to make conference calls, the dispatcher must have the permission "Make conference calls".

in the Main Menu bar of SmartPTT To organize a conference call, click the **Conference Call** button

Dispatcher.

At that, the Conference Call window will appear.

Conference Calls Telephone Subscribers ∇ Radio Subscribers ∇ 📇 Talkgroups ∇ Dispatchers ∇ Dial Pad ∇ . Ŧ \cup Stop

To add a subscriber to the conference call, unfold the the necessary section and double-click on the subscriber, or use drag-and-drop.

turns off the sound of the conference call. At that, the dispatcher's microphone is turned off The button automatically. So the operator does not hear the conference call participants, and the participants cannot hear the



dispatcher.

The button

turns off the operator's microphone.

Stop: Click the button to end the current conference call. Should the radio subscriber make a call right after the conference call, it is necessary for him or her to wait for a special tone notifying about the end of the call. If the radio subscriber presses the PTT button before this tone, an incorrect phone call will be initiated. Starting from version 8.6 you can hold conference calls with radio and telephone subscribers without enabling Telephone Interconnect in SmartPTT Radioserver Configurator. For more information on how to do it, see help of SmartPTT Radioserver Configurator (**Telephone Calls**).

To finish the ongoing conference call with one of the participants, click the button 🔯 next to the participant. There is another way how to organize a conference call.

1. In order to invite an external dispatcher or a telephone subscriber, click the buttons

respectively. In the windows that opened select a dispatcher or a telephone subscriber, and click

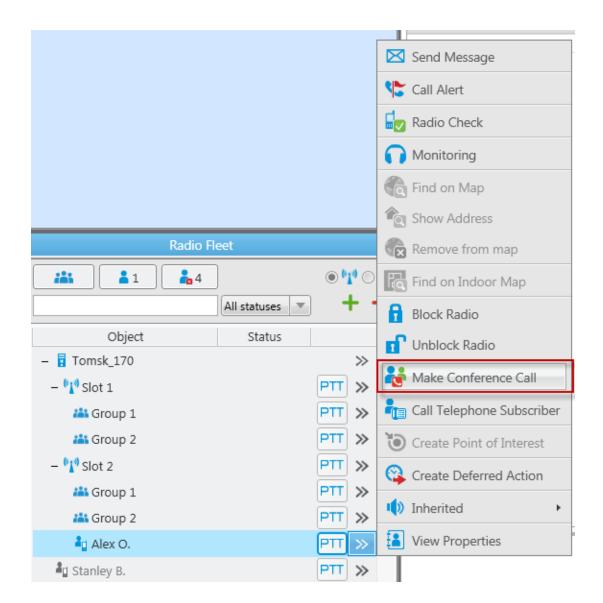
Telephone Subscribers		×
Telephone Subscribers Office 1 Office 2 Office 3	Dial Pad Office 1 11.11.14 16:22:42 > Call (24 10:38:43 > Call (24 s) 12:03:24 > Call (10 s) 12:04:57 > Call (4 s)	s)
	Connect	- 👪

Dispatcher:

Dispatchers			×
Sveta	Online		
		Sveta	
		Type text and press Enter	+
		I()) Connec	st 💦 🔣

Note: Only dispatchers from the Dispatcher List with status Active can be invited into the conference call.

2. Use Actions List to make a conference call. At that, the Conference Call window appears and the call is initiated.



1.11 Help

The Help menu includes:

- Help. Here you can find useful information on the system objects and functionality. You can also open the SmartPTT Help file any time by pressing F1.
- **About**. It contains information on the application version, license, and the third-party software used in development process.
- Check for Updates.

1.12 Remote Assistance

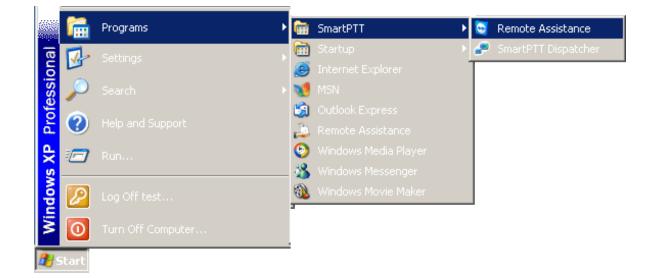
SmartPTT contains a special technical support tool providing remote access to the PC to resolve possible technical issues.

To give the technical support engineer remote access to the PC, launch SmartPTTRemoteAssistance.exe.

SmartPTTRemoteAssistance.exe window will show ID and Password which should be passed to the engineer.

Steps to follow to get remote assistance:

1. Launch Remote Assistance (Start > Programs > SmartPTT > Remote Assistance).



🖻 SmartPTT Remote Assista 💶 🗖 🔀			
SmartPTT *			
SmartPTT Remote Assistance			
Please tell your partner the following ID to connect to your desktop:			
Your IDPassword			
É 645 394 519 4688			
Ready to connect (secure connection)			
www.teamviewer.com			

- 2. Pass Your ID and Password to the engineer who is going to provide technical support.
- 3. When the connection is established, you will see session window on the screen.



4. Chat function can be used for communication with the engineer.

sma	rtptt support (795 440 884)	•⊙ •≡
	vtatt guagast (705 440 994)	<i>8</i> ° _=
- <u>-</u>	Session list	×
×	Functions -	
	Session list	
	Conference call	
	Chat	
	My video	
	Voice over IP	

5. To stop the session click