How-To



ConSEL – Backup Server





1. Overview

The backup server functionality is designed to provide redundancy and failover capabilities for the radio system. It allows for the automatic switching to a backup server in case the primary server becomes unavailable, ensuring continuous operation of the radio connectivity.

2. Switching on the redundancy feature on the source server

- 1. Run the Radioserver Configuration app
- 2. Go to Advanced tab
- 3. Inside the advanced tab, go to Radioserver redundancy tab

Now, we need to choose the **Source of Redundancy**, and enter:

- 1. Password will be use to connect the redundancy server
- 2. Port
- 3. Host IP address of secondary server



Radioserver configuration - registry	;
Status General Modules Advanced Remote License	
Configuration Databases Radioserver redundancy Security	
Cracet of redundancy	
Source of redundancy	
Parameters	
5588 Port	
Host	
Save configuration	

Fig 1 Radioserver redundancy tab

3. Switching on the redundancy feature on the secondary server

- 1. Run the Radioserver Configuration app
- 2. Go to Advanced tab
- 3. Inside the advanced tab, go to Radioserver redundancy tab
- 4. Now, we need to choose the **Target of Redundancy**, and enter password.

NOTE! The password must match the one entered on source server.

The servers synchronize once a day. If for some reason the primary server stops working and the synchronization is out of date, the secondary server will not automatically switch to active mode. To do this, you must enable it manually. In the radioserver, select **advanced tab** and then **radioserver redundancy** tab. In this window, click on **Force switch to active**.



Fig 2 Choosing redundancy target

If the primary server is reactivated, it will not synchronize data with the secondary server. Data that will not be synchronized should be secured manually by saving it in a safe place.

If the redundancy configuration is successful, we will see a green icon in the status of the redundancy, and if the configuration is wrong, we will see a graphic like below:



Status General Modules Advanced Remote License Status from: 09:42:48 Error console Stop service Configuration server o ok Redundancy Secondary: Warning: No connection to the primary server Maps server o disabled Events server o disabled Modules Save configuration	Radioserver configuration - regis	try								
Status from: 09:42:48 Error console Stop service Configuration server ok Redundancy Secondary: Warning: No connection to the primary server Maps server maps: disabled Events server disabled Modules Secondary:	Status General Modules Advance	ed Remote License								
Configuration server • ok Redundancy • Secondary: Warning: No connection to the primary server • disabled • disabled • disabled • disabled • Modules	Status from: 09:42:48	Error console Stop service								
 ok Redundancy Secondary: Warning: No connection to the primary server Maps server Isiabled maps: disabled Events server Isiabled 	Configuration server	Configuration server								
Redundancy Secondary: Warning: No connection to the primary server Maps server disabled Events server disabled Modules Save configuration	🔵 ok									
Secondary: Warning: No connection to the primary server Maps server Gamma disabled Events server Modules Save configuration	Redundancy									
Maps server Maps maps: disabled Events server isabled Modules Modules	Secondary: Warning: No connection to the primary server									
disabled maps: disabled Events server disabled Modules Save configuration	Maps server									
Events server Modules Save configuration	disabled maps: o	disabled								
Modules Save configuration	Events server									
Modules Save configuration	disabled									
Save configuration	Modules									
Save configuration										
Save configuration										
Save configuration										
Save configuration										
Save configuration										
Save configuration										
Save configuration										
Save configuration										
Save configuration										
Save configuration										
Save configuration										
Save configuration										
Save configuration										
	Sa	ave configuration								

Fig 3 Radioserver status

4. Enabling redundancy in the dispatcher's console

To enable redundancy in dispatcher's console, go to Menu -> Administration -> **Configuration Servers**.

Next step is to right click on radioserver icon and click edit server.

Edit configuration servers		×
Config servers:		
Edit server 127.0 Delete server		
Add new	<u>0</u> K	

Fig 4 Server edit window



In the configuration window, on the bottom choose Redundancy role.

4 Choice of configuration server			—		×		
Cor	4 Configuration server details			-	×		
Ca	Enter server address 127.0.0.1		_				
	Enter displayed name lokal						
Radioserver requires an encrypted connection							
	Not applicable V Red Not applicable	dundancy role					
	Primary server Secondary server	Ok		Cancel			
			<u>O</u> K		ancel		

Fig 5 Client redundancy role

Depending on the required role, we choose a primary server or a secondary server.