How-To

Topic: Repeater diagnostics

System version: 7.x
Document version: 1.2

Content

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1. Enabling the functionality

The feature is activated using the **Repeater diagnostics** option of the radio server module configurator.

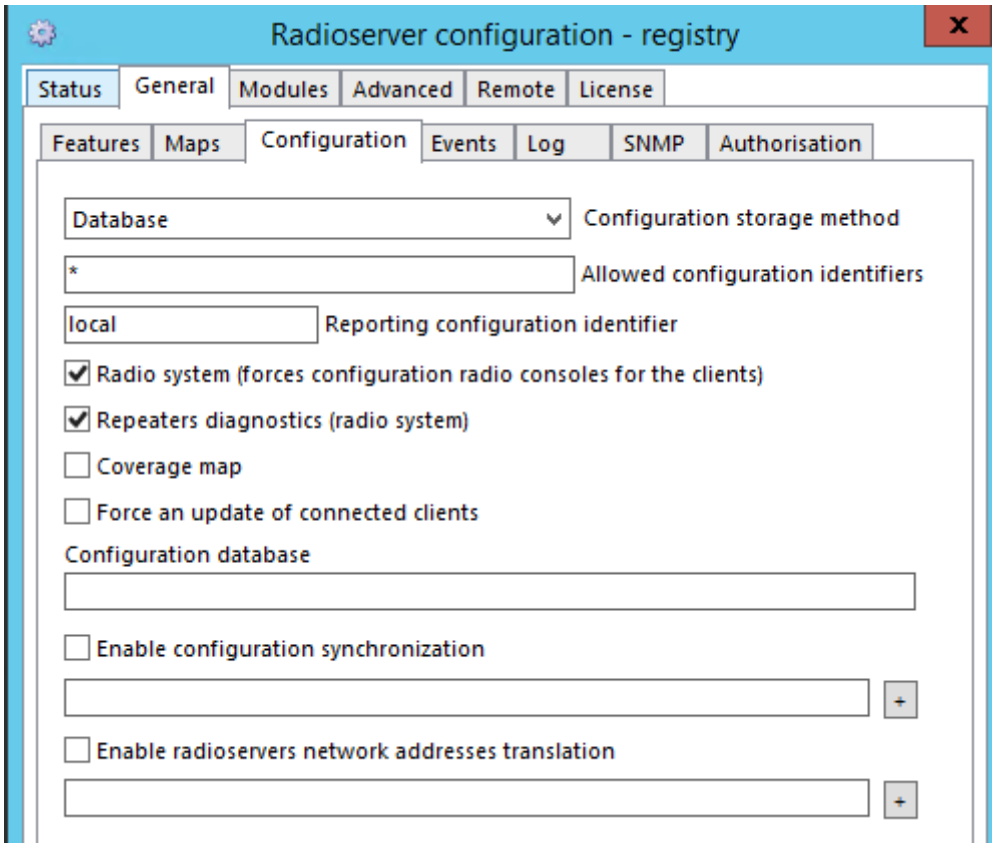


Fig. 1 Diagnostics configuration

If the console configuration server is not the radio server on which this option is being enabled, you must also configure the options of this configuration server by enabling **Repeater diagnostics (radio system)** in the General/Configuration tab.

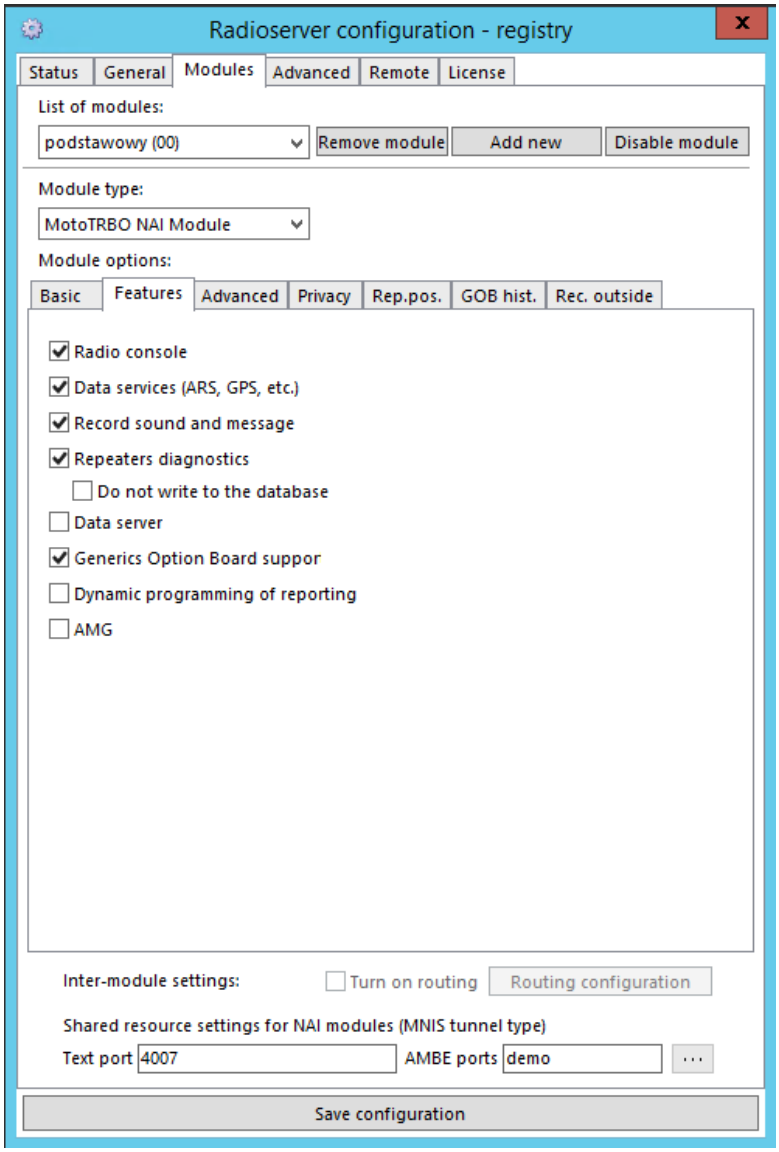


Fig. 2 Diagnostics configuration

The result of this configuration should be an additional **Repeater Diagnostics** tile visible in the main window of the console.

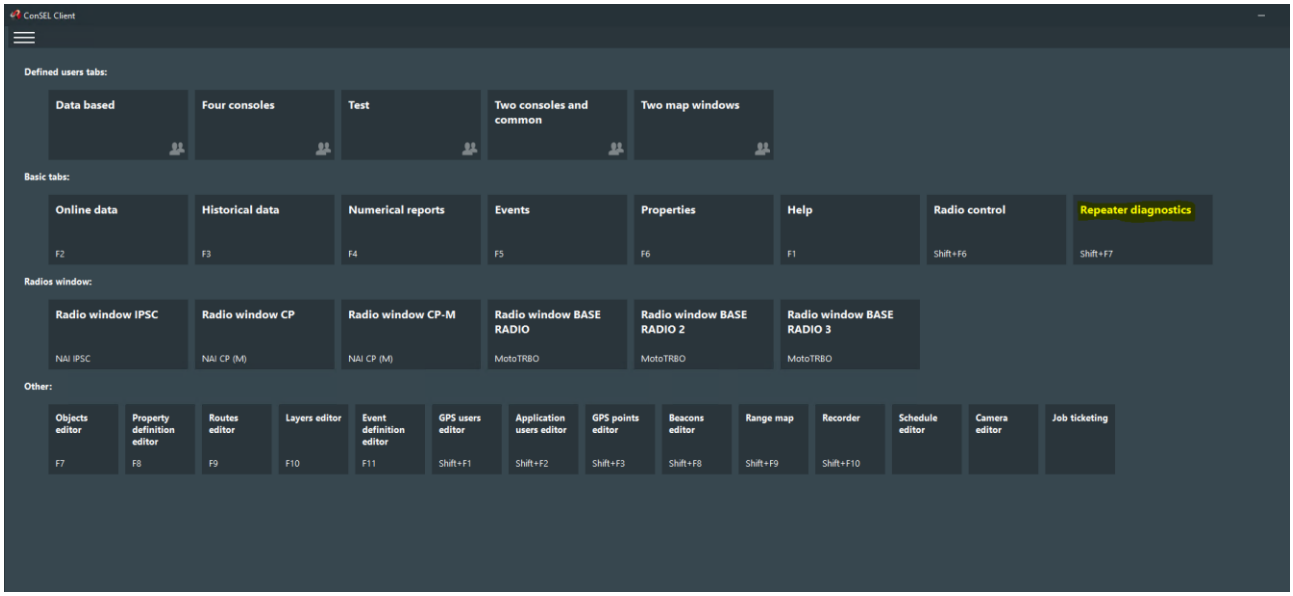


Fig. 3 Main window with Diagnostics tile

2. Tracking of current operation

This feature is available by clicking on the **Repeater diagnostics** tile.

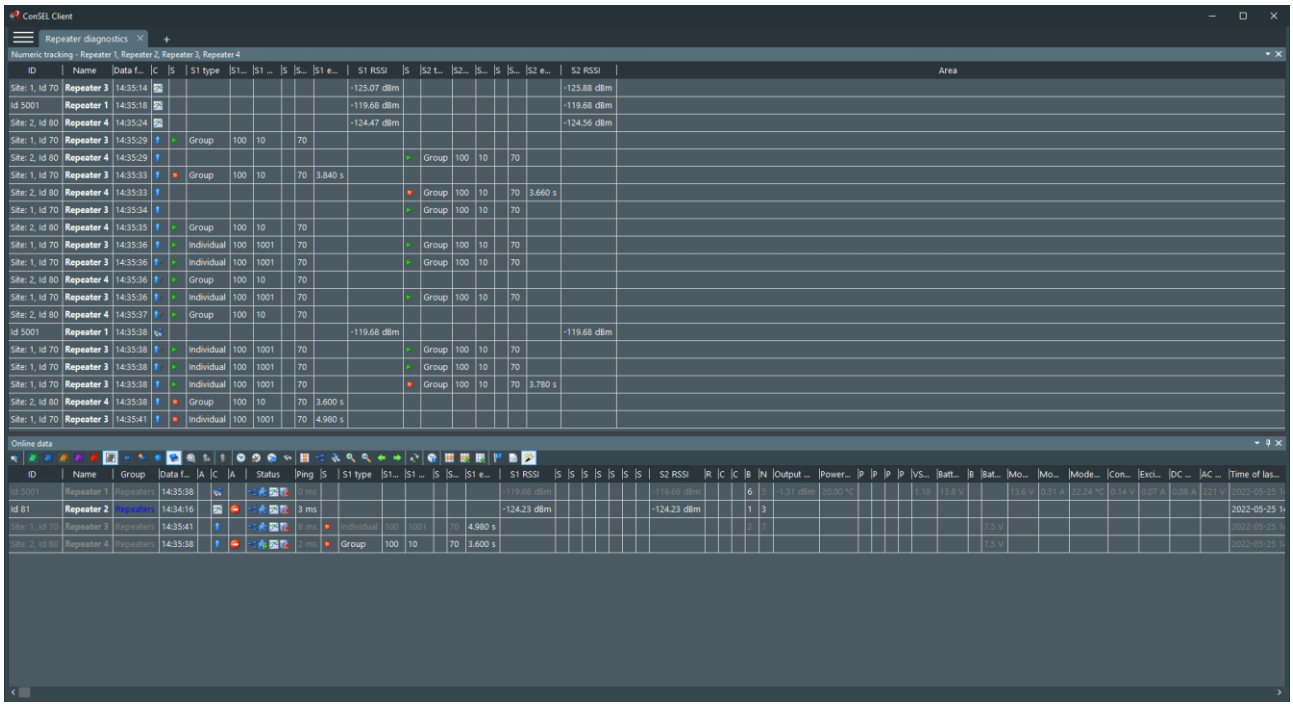


Fig. 4 Online diagnostics

3. Viewing recorded data

This feature is available by clicking on the **Archived data** tile. The requirement for data availability is a properly configured radioserver, or more precisely, unchecking the **Do not save to database** (see section 1)

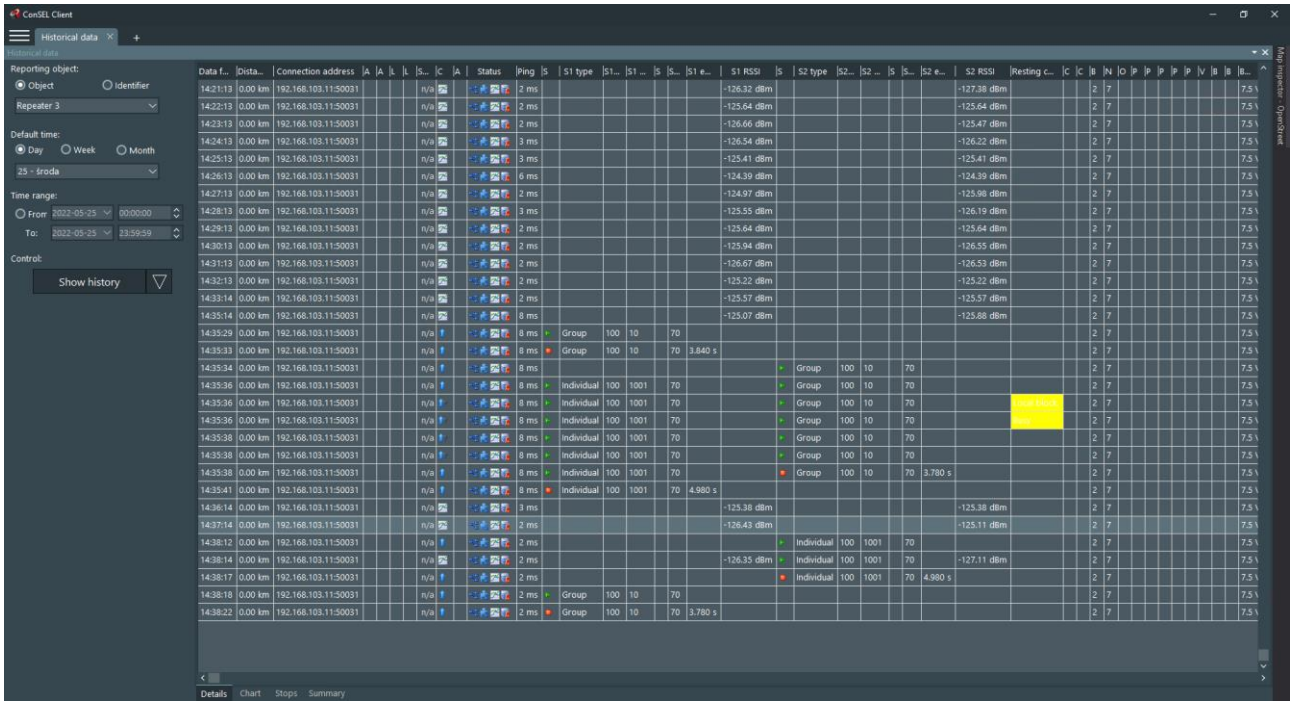
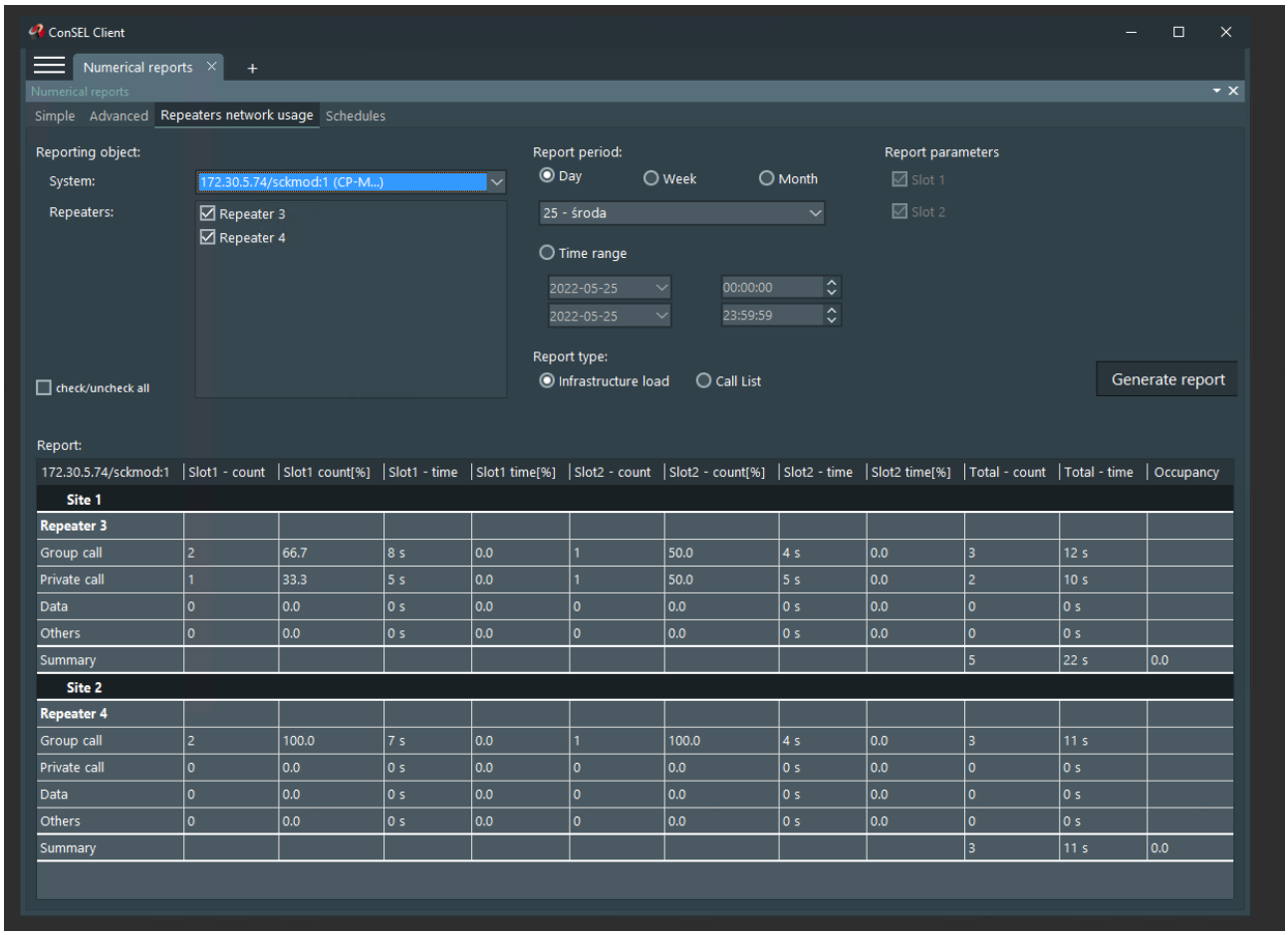


Fig. 5 Data archive

4. Repeater network load

This feature is available by clicking on the **Numerical reports** tile located in one of the internal tabs.



172.30.5.74/sckmod:1	Slot1 - count	Slot1 count[%]	Slot1 - time	Slot1 time[%]	Slot2 - count	Slot2 - count[%]	Slot2 - time	Slot2 time[%]	Total - count	Total - time	Occupancy
Site 1											
Repeater 3											
Group call	2	66.7	8 s	0.0	1	50.0	4 s	0.0	3	12 s	
Private call	1	33.3	5 s	0.0	1	50.0	5 s	0.0	2	10 s	
Data	0	0.0	0 s	0.0	0	0.0	0 s	0.0	0	0 s	
Others	0	0.0	0 s	0.0	0	0.0	0 s	0.0	0	0 s	
Summary									5	22 s	0.0
Site 2											
Repeater 4											
Group call	2	100.0	7 s	0.0	1	100.0	4 s	0.0	3	11 s	
Private call	0	0.0	0 s	0.0	0	0.0	0 s	0.0	0	0 s	
Data	0	0.0	0 s	0.0	0	0.0	0 s	0.0	0	0 s	
Others	0	0.0	0 s	0.0	0	0.0	0 s	0.0	0	0 s	
Summary									3	11 s	0.0

Fig. 6 Load statistics

5. Events

Notifications of repeater statuses can be configured in the system using the event functionality. The example below shows the definition of an event of repeater power loss.

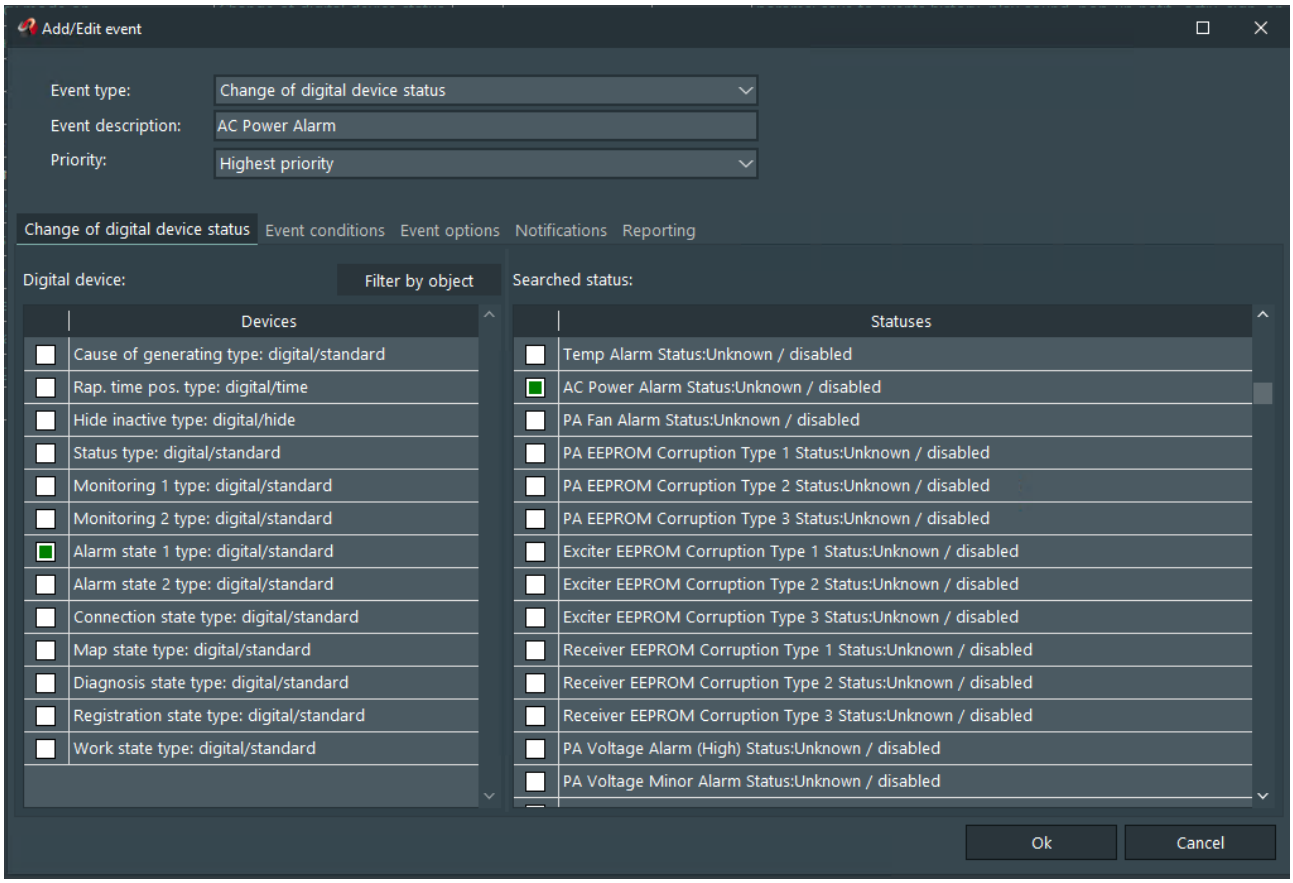


Fig. 7 Event definitions

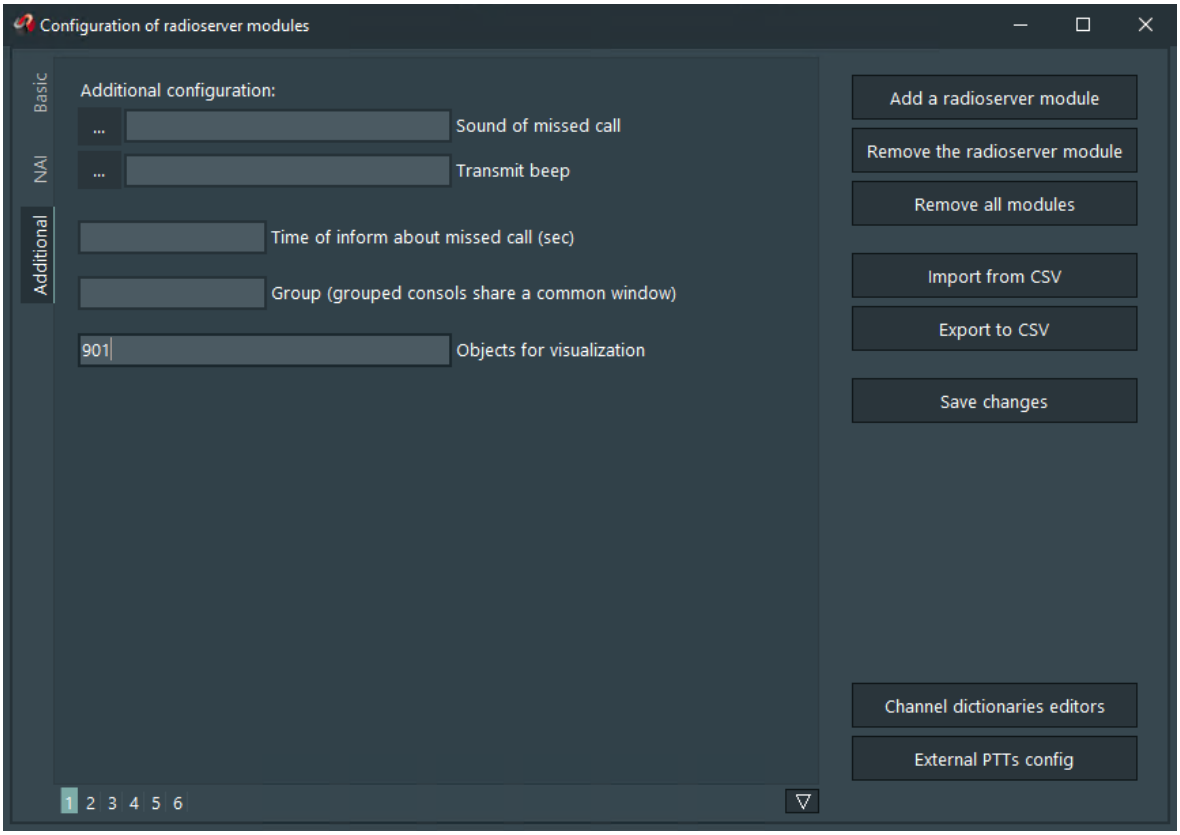


Fig. 8 Event definition details

6. Status in the console

The status of selected repeaters can be visualised in the console window. To do this, indicate the appropriate predefined device in the console administration window in the **Hardware object identifiers** field.

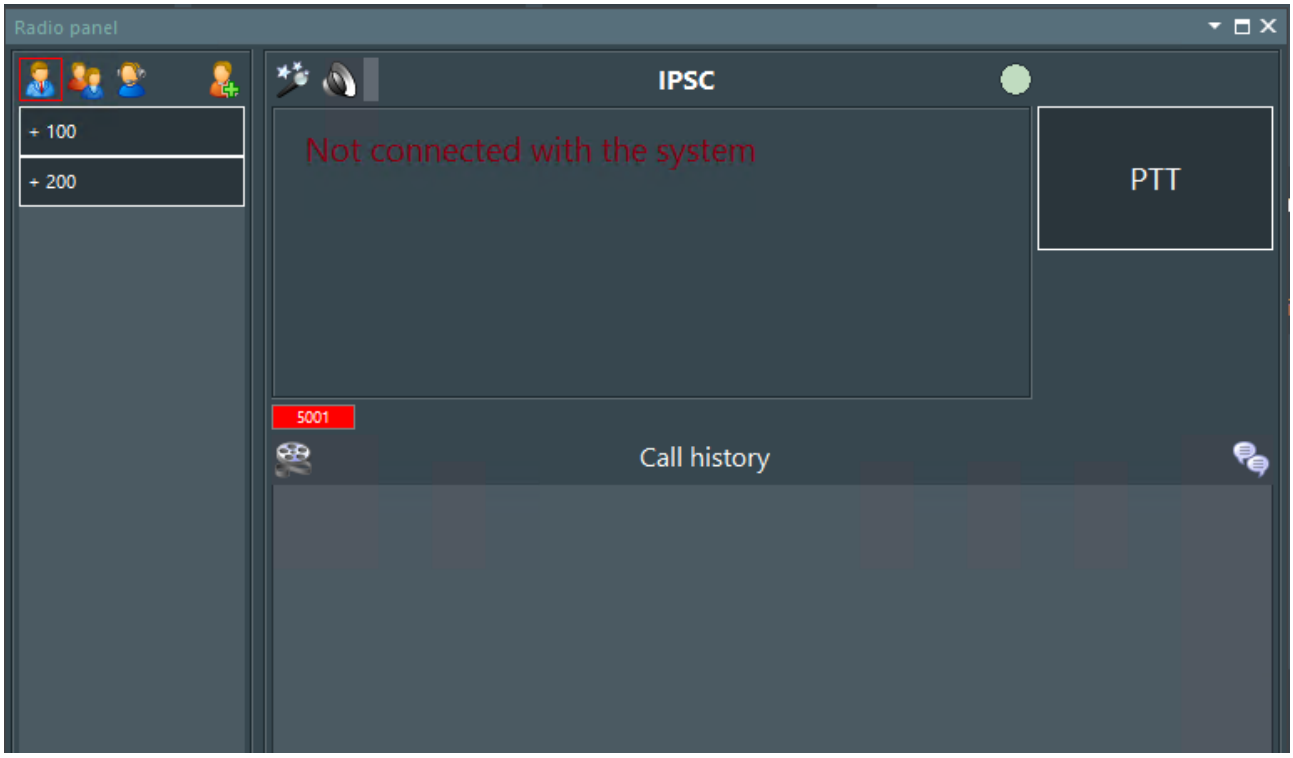


Fig. 9 Configuring repeater status visualisation

As a result, you will see a visualisation of the selected device in the console.

Fig. 10 Console view of repeater status

7. Coverage map

In systems with radio GPS position reporting enabled and the **Repeater diagnostics** feature activated, the system automatically builds visualisation of received radio signal levels. This feature is available from the **Coverage map tile.**

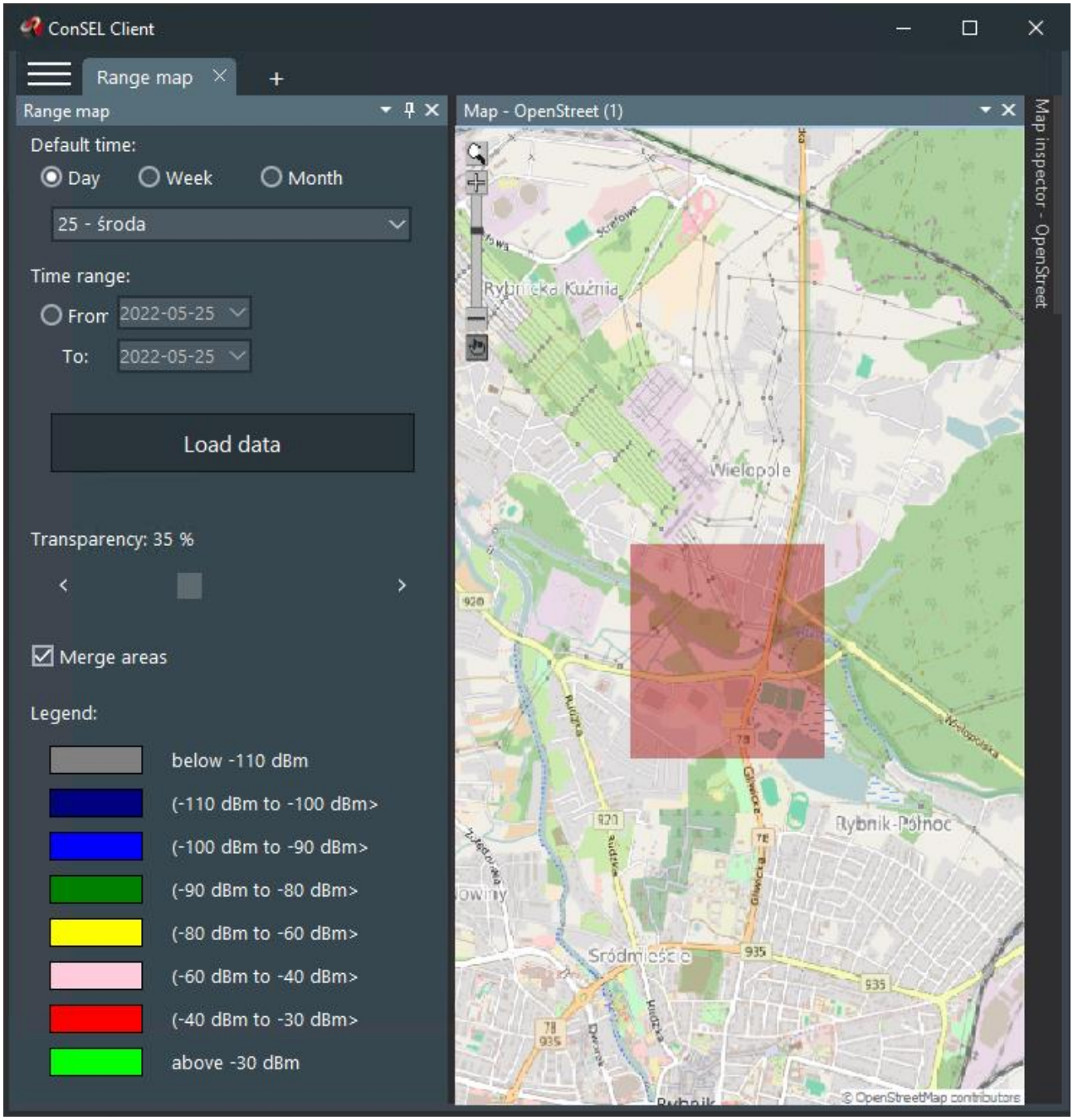


Fig. 11 Coverage map