RDS Rebroadcast plugin for RDS Spy (rebrdcst.dll)

The plugin allows rebroadcasting of selected RDS groups from RDS receiver or previously recorded RDS file (playback).

RDS Spy with RDS Rebroadcast plugin

RDS Encoder Setup

The items checked will be controlled only by the RDS encoder.

Check Bidirectional if entire RDS content is about to be rebroadcasted.

Note that low speed options do not allow full rebroadcast rate. Configure the RDS encoder speed first.

Click Connect / Update after any change of the connection parameters.
The software connects automatically at start-up.

Check Limit group rate to ensure the rate of the groups rebroadcasted will never exceeds approx. 5 groups per second, allowing the RDS encoder to send also own content.

Mask Examples

The mask can be used when the group selection alone does not provide the filtering required.

Binary Mask Definition

	Block 2	Block 3	Block 4
Mask 1	????????????????	????????????????	0000000000000000
Mask 2	00000??????????00	????????????????	????????????????
Mask 3	00110???????????	????????????????	1100110101000110

Pass groups containing 0x0000 in block 4

Pass first segments of PS name (groups 0A)

Pass groups 3A containing 0xCD46 in block 4

Tips for RDS Rebroadcast

- Decide for the RDS groups to rebroadcast. **Usually there's no need to rebroadcast whole RDS content, at least the groups 0A should be generated uniquely by the RDS encoder.** (Due to nature of the RDS system and due to clock synchronization missing between different RDS encoders, it is not possible to rebroadcast entire RDS content exactly 1:1.)

- When rebroadcasting entire content, the software cannot guarantee that there will be no group inserted by the encoder between the groups being rebroadcasted. Thus in the case this is critical it's recommended to setup the RDS encoder following way to ensure the group will not affect anything:

  ```
  PTY=0
  TP=0
  UDG1=D00000000000
  GRPSEQ=X
  ```

- It is possible to install the RDS Spy also to another folder on the disk and run second instance of this application to monitor the RDS encoder output.

- When playing RDS file, you may control the playback speed and rebroadcast rate by the control item in the main application window:

- RDS group rate on the RDS encoder output is specified by the RDS standard and **it's always 11.4 groups per second**. The plugin includes circular buffer for temporary storage of groups exceeding this rate. The buffer capacity is 2047 groups.