

April 16, 2021

TETRATest is a free AOR PC utility for the AR5700D Digital Communications Receiver.

It's a tool to facilitate the operation of the receiver's TETRA GSSI user group filtering function. Received audio is heard as usual via the receiver's speaker. This utility is totally independent from the receiver's "standalone" TETRA-GSSI function.

TETRATest is supplied "as is" in its final version, without warranty of any kind nor any official support.

Tested and confirmed to work on: Windows 7, 8.1 and 10

<How to use>

1. Preparations

1.1

Connect the receiver to the PC via the "receiver control" USB cable. That is the socket labelled with the USB logo. The I/Q data stream connection is not required here.

1.2

Unzip "TETRATest.zip" to any folder on your PC. All files created during operation will appear and reside in the unzipped "TETRATest folder.

1.3

Start the receiver and first make sure that the TETRA SLOT selection is set to AUTO. Press FUNC + OPTION, up arrow to TETRA SLOT line. Turn the sub-dial to select AUTO, then validate with ENT.

1.4

Set the receive mode to T-TC. The traffic channel frequency will be set later by software.







2. "TETRATest" folder content description

2.1

If this is your first time, the only file present in the folder is "TETRATest.exe". As soon as you run the executable, "log.txt" will be created as well and it does contain a permanent command list log. You can ignore this log file.

2.2

This is the folder content after program closure:

 TETRATest	Program executable
 NAME	User assigned custom names for GSSIs and ISSIs. See chapter X.X on how to create.
 MONI	User defined GSSI numbers to monitor. DO NOT EDIT.
 log	Command list log. DO NOT EDIT.
 ISSI	User IDs detected during reception. DO NOT EDIT.
 GSSI	User group IDs detected during reception. DO NOT EDIT.

3. Running "TETRATest"

3.1 Double-click TETRATest.exe. The following windows will appear:

1
Enter the COM port number Windows assigned to your USB connection (check Windows DEVICE MANAGER if any doubt)

2
Click Connect to start (the receiver will go into "REMOTE" mode).

4
Enter the traffic channel frequency in MHZ, but don't hit Enter! The receiver will automatically tune to that frequency

Command log window. You can minimize it as it is not needed, however don't close it as it would close the program.

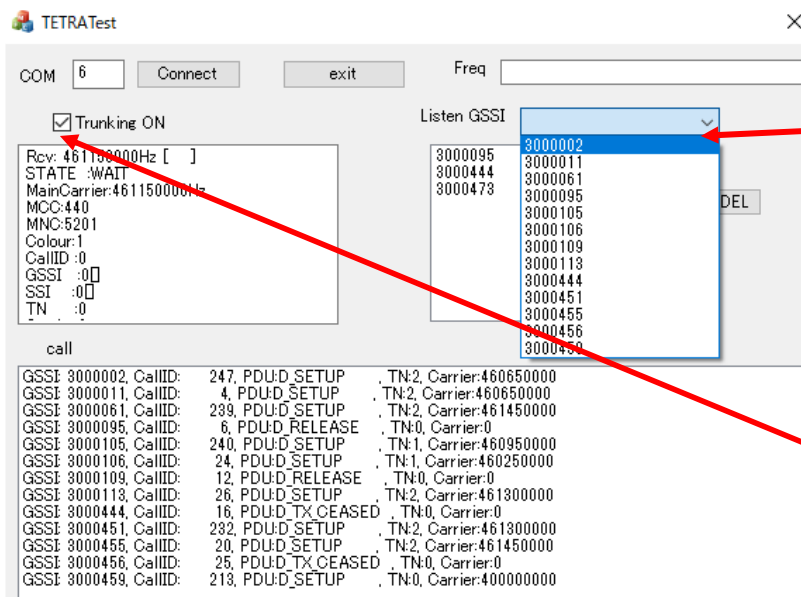
3
Uncheck this box for now.

Once reception has started and the TETRA network data is accessed, information will be displayed as follows:

"Trunking ON" being unchecked now, all calls are audible.

Calls marked in blue are currently received, and should be heard through the receiver speaker (providing the call is not encrypted)

3.2 Applying GSSI filtering



After a while, the selectable GSSI list active on that TETRA network will grow.

You can now select only the ones you want to listen too.

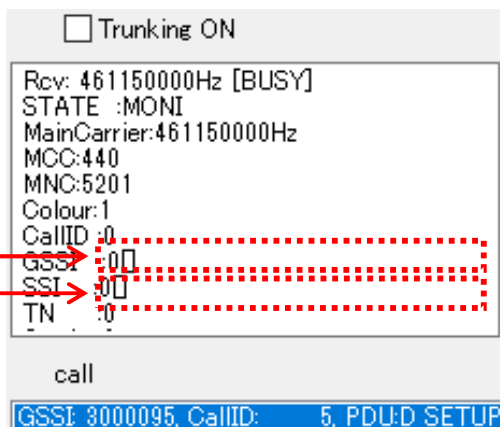
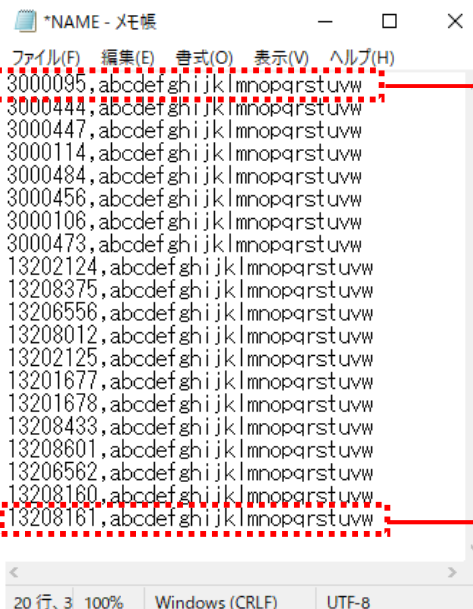
To enable GSSI filtering, you can now check that box and only the corresponding ones will be heard.

3.3 Custom naming GSSI & SSI

You can apply custom names to GSSI groups and user IDs. This data is PC based, it is therefore not saved in the receiver memory!

-Create a text file named "NAME" and place it into the TETRA Test folder.

-As the example below, on each line write the GSSI group number or SSI user ID number, followed by a comma and the name of your choice (up to 23 characters)



Your custom names will appear here once the corresponding call is received.

4. Stopping the software

Closing the software will update the content of the MONI, GSSI and ISSI files.

To release the receiver from the REMOTE mode, press the CLR key on its front panel twice.