



User manual

Compasseur

TXAdvance user manual

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1) Introduction

TXAdvance is a wireless transmitters coordination software for the Android mobile platform. It can scan the radio frequency spectrum using the SDR technology from 50 to 1300 Mhz with a resolution of 5 kHz and the appropriate hardware*. Coordination allows user to select the optimal frequencies by avoiding intermodulation.

TXAdvance is not particularly resource intensive for smartphone, although with a large number of microphones and/or large scans, calculation time can be increased. It is important to let the app finish calculation and writing to database. Do not quit the app when progress bars are present as it could lead to some data not being written to the database and misbehavior.

Through this manual :

- TX = transmitters
- TX list = list of transmitters
- IM = intermodulation
- 2T3O = two transmitters third order intermodulation
- 3T3O = three transmitters third order intermodulation
- 2T5O = two transmitters fifth order intermodulation
- 2T7O = two transmitters seventh order intermodulation

The app can be purchased and downloaded through the Google Play Store.

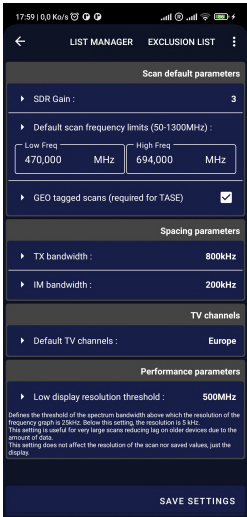
You can find help or ask question by going to the Facebook page :

<https://web.facebook.com/txadvance> or the official website : <https://www.compasseur.com>

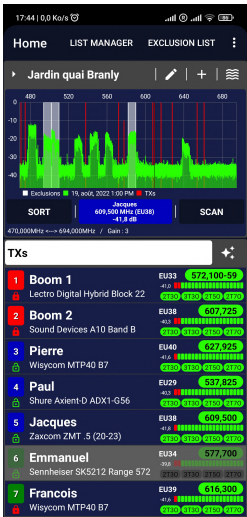
User manual revision history

1.0 (TXA v4.5)	09/2022	First version
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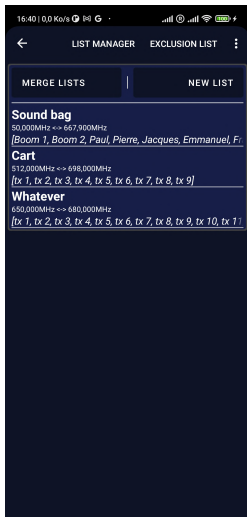
2) Screens



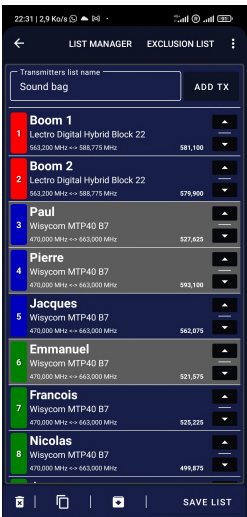
General settings



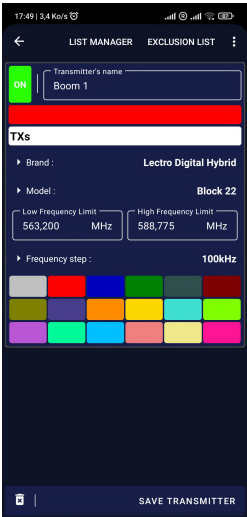
Home



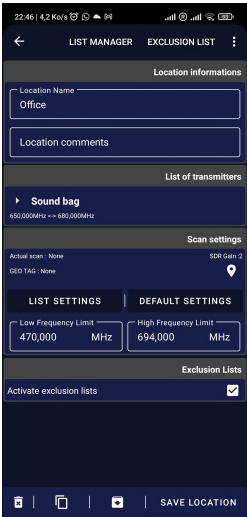
List manager



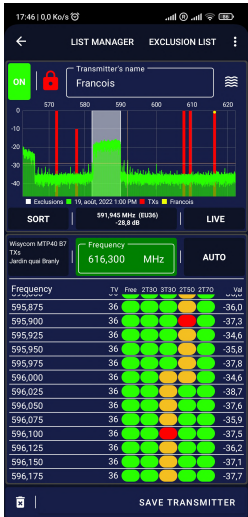
TX list



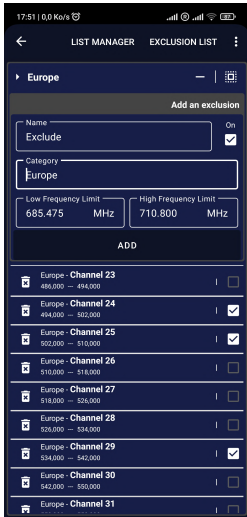
TX parameters



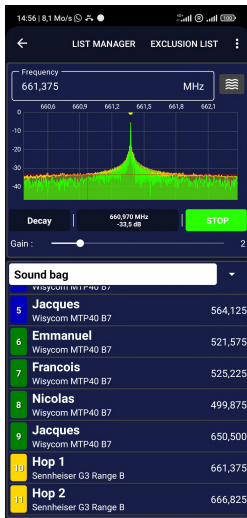
Location



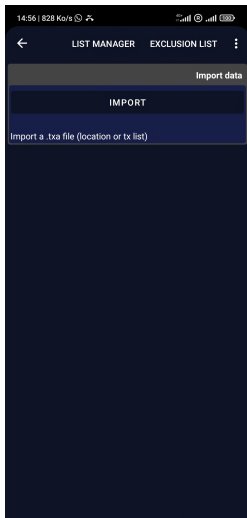
TX frequency



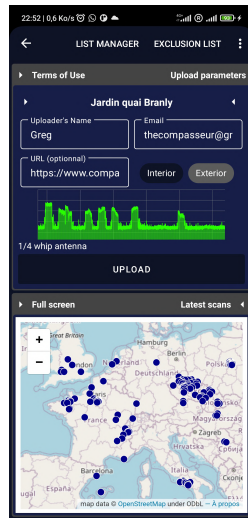
Exclusion list



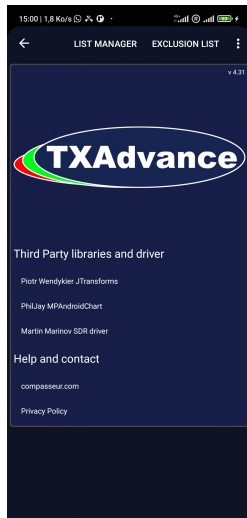
Live check



Import



TASE

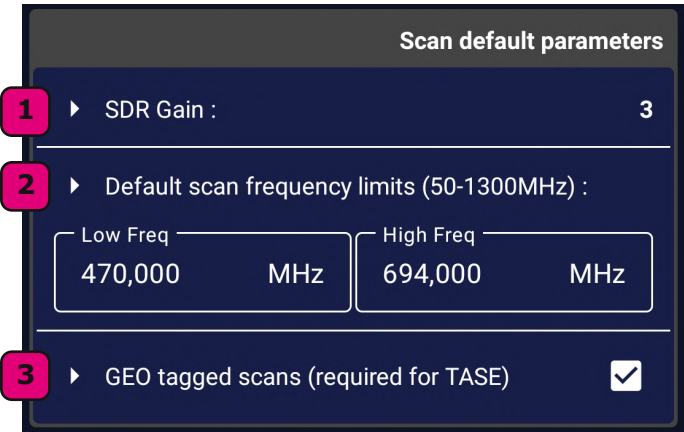


About

3) General settings

The general settings will affect every location, scan, TX list, TX and list of frequencies.
To access the Settings, press on « ... » at the top right corner of the app and then « Settings ».

a. Scan default parameters



1. Choose the gain value for the SDR dongle :

Setting	Corresponding value
1	0.9 dB
2	7.7 dB
3	12.5 dB
4	22.9 dB
5	28.0 dB
6	40.2 dB
7	48.0 dB

Default value is 3 (12.5 dB).
This gain setting will be applied to the next scans. For Live check mode, the gain settings is independant and saved only for this mode.

2. Choose the default scan frequency limits for new locations. Apply those default scan settings by clicking on the « Default settings » button in the « Scan settings » section of the location edit screen (8.c.4).

Minimum frequency is 50 MHz and maximum is 1300 MHz.
TXAdvance will automatically round the low and high frequencies to the closest MHz.

3. Enabling this settings will make TXAdvance save the position of the phone while scanning a new location through GPS and wireless networks. You will need to allow TXAdvance to access location from your phone and you will need to switch on the GPS on the device parameters.
-> Enabling geo tagging is mandatory for uploading scans to the TASE.

b. Spacing parameters



1. The TX bandwidth will define the frequency bandwidth occupied by a TX. This setting will affect :

- the width of the red bar representing TX on charts,
- the number of orange FREE frequency dots on list of frequencies (TX frequency edit 9.b.),

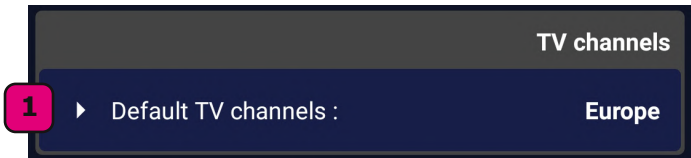
- the background color representing status of frequency on Home screen,
- the auto mode.

The higher the TX bandwidth, the more conservative your frequency coordination will be. The default TX bandwidth is 800 kHz.

2. The IM bandwidth will define the frequency bandwidth taken by an intermodulation. This setting will affect :
• the number of orange IM frequency dot on list of frequencies (TX frequency edit 9.b.),
• the background color representing IM status on Home screen,
• the auto mode.

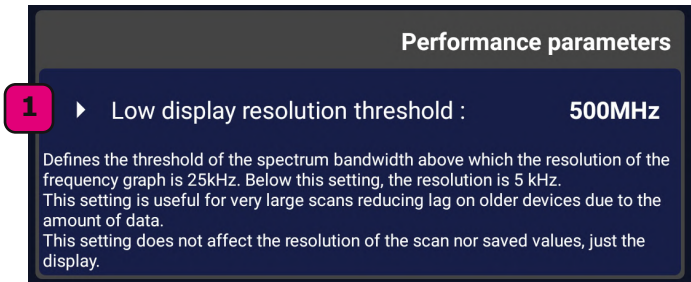
The higher the IM bandwidth, the more conservative your frequency coordination will be. The default IM bandwidth is 200 kHz.

c. TV channels



1. Select the default TV channels which will correspond to :
- the frequency selected on a chart,
 - the TX frequency on home screen,
 - every frequency on the frequency list in TX frequency edit screen.

d. Performance parameters



1. When the bandwidth of the scan of a location is higher to the Low display resolution threshold, the resolution on chart will be lowered to 25 kHz instead of 5 kHz. A lower chart resolution will make the app run smoother.
- This setting does not affect the scan resolution which stays at 5 kHz.

(For example, a scan from 500 to 1000MHz represents 500MHz of bandwidth and 100.000 frequencies to show on charts at a 5kHz resolution and 20.000 at 25kHz.)



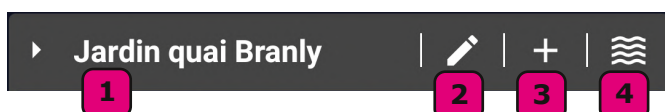
1. Save the settings

4) Home screen

The home screen is the main screen of the app. The upper part of the screen is dedicated to the location and its radio frequency spectrum ; the lower part shows the transmitters from the TX list. The 2 parts communicate with each other to send the RF noise values from the scan to the TX and the TX informations from the TX list to the chart.

The home screen is meant to display the most important informations and to quickly give access to most parameters, settings and additional informations.

a. Location



1. Choose and load a location with its scan and linked TX list

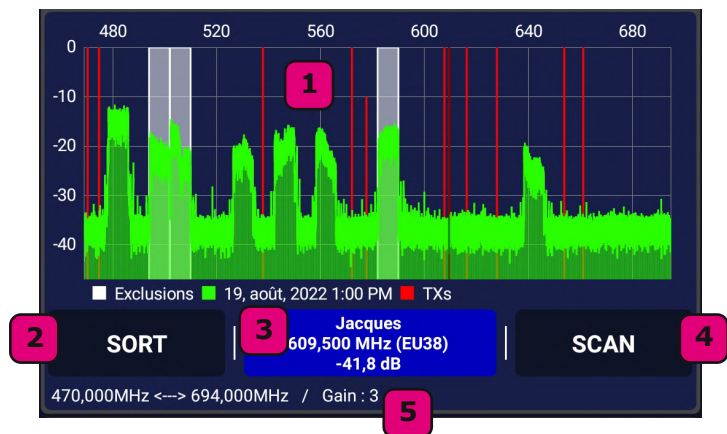
2. Edit the currently selected location : will open the location edit screen with the current location loaded.

3. Create a new location : will open the location edit screen with a new empty location.

4. Show/hide the chart

(!! tip : a long press on the show/hide chart button will double the height of the chart. Another long press will bring back the height to the default status)

b. Frequency chart



1. The frequency chart will display the RF spectrum previously scanned in green with the frequency on the X Axis and the corresponding noise value on the Y axis .

The red bars represent the TX from the linked TX list. A shorter red bar represents a disabled TX.

The white areas are exclusion lists.

You can zoom in the scan using 2 fingers or by double tapping.

You can zoom out using 2 fingers or fully zoom out by clicking on the frequency box below the chart.

Just below the chart is the legend showing the date of the scan and the TX list name.

Noise values are in dBFS.

2. « Sort » will order the graph by either the frequency on the X axis or the noise value by ascending order.

3. The frequency text box shows the following informations when a frequency is selected on the chart :

- frequency,
 - corresponding TV channel (Region can be set up in the General Settings (3.c.1.),
 - noise value. Additionnaly, if the frequency is within the range of (a TX frequency +/- TX bandwidth/2), the name of that TX and its color will be displayed.
- (!! tip : a click on this box will completely zoom out the chart)

4. « Scan » : will start a new scan with the frequency limits set up in the location edit screen (8.c.5.) and the gain value set up in the general settings (3.a.1.). If enabled in the general settings, geo tagging will be applied to the scan. Performing a new scan will replace any previous scan from this location.

5. Scan limits and gain of the current scan.

c. Transmitter list

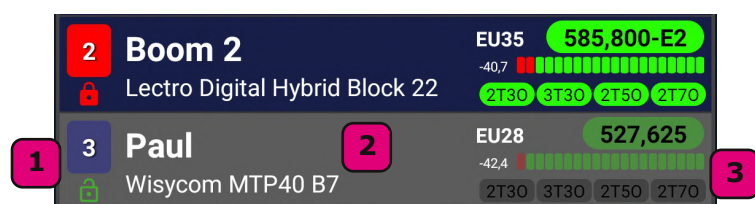


1. Linked TX list to this location (you can change the linked TX list by editing the location (8.b.1.)). By clicking on the name of the TX list, you will go to the TX list edit screen (6.).

2. Auto-mode : will find the best frequencies for every TX which is not locked nor disabled by taking into account the noise value of every frequency and its surrounding frequencies, the intermodulation and the proximity of other TX. Frequencies under exclusion lists will be removed from the possible frequencies.

The TX (3.b.1.) and IM (3.b.2.) bandwidth from the general settings will affect the auto mode calculation.

d. List of transmitters



1. Shows the number of a TX with the background color of the TX (which you can set up in the TX edit screen)
Shows the lock status for the auto mode (locked TX will not have their frequency changed by auto mode).

Click on that area to lock/unlock this TX :



TX is unlocked



TX is locked

2. This area shows the name of this TX, its brand and its model.


-> Click on that area to go to the TX frequency edit screen (9.).

3. The TX frequency informations shows :

- The TV channel (US or EU based TV channels is set in the General settings (3.c.1.)) **EU35**
- The selected frequency for this TX. Additionally, the corresponding hexacode for certain brands (Lectrosonics, Comtek...) will be shown. The selected frequency background colors means :

585,800-E2	TX frequency is clean
581,100-B3	At least 2 TX have the same frequency
581,100-B3	This TX frequency is too close to another TX frequency
581,100-B3	This TX frequency is under an exclusion list

How close is too close can be set in the General Settings (3.b.1.).

- The noise level value of this frequency in this particular location 
- The intermodulation status for this frequency depending on the background color :

2T30 3T30 2T50 2T70	All IM are clean
2T30 3T30 2T50 2T70	This TX frequency is exactly on a 3T30 intermodulation
2T30 3T30 2T50 2T70	This TX frequency is too close to a 3T30 intermodulation

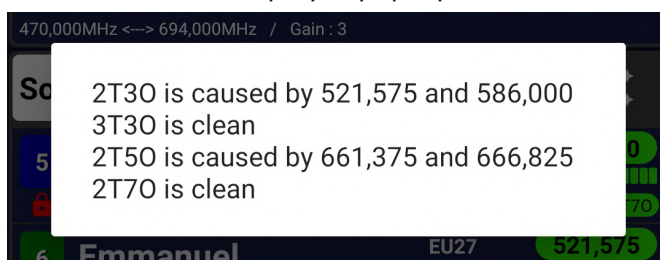
How close is too close can be set in the General Settings (3.b.2.).

A grey background on a TX represents a disabled TX.

2 Boom 2	EU35	585,800-E2	TX is enabled
3 Paul	EU28	527,625	TX is disabled

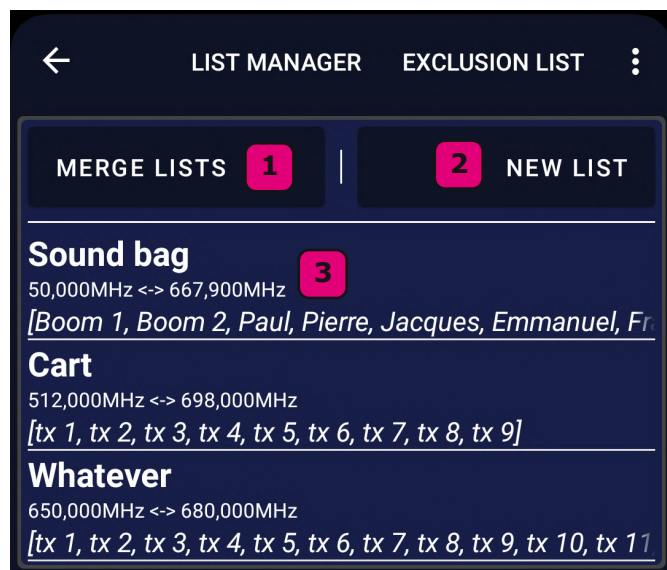
-> A single press on a TX will open the TX frequency edit screen (9.)

-> A long press on a TX will display a pop-up with additional informations about the intermodulations :

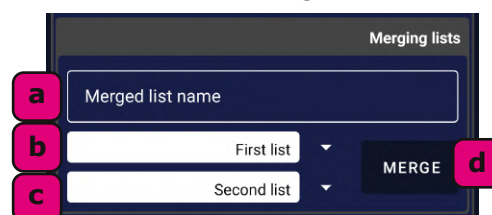


5) List manager

Manage, merge and create TX lists.



1. Show/hide the merge TX lists box :



1.a. Name for the new list.

1.b. Press here to select the first list to merge.

1.c. Press here to select the second list to merge.

1.d. After selection of the 2 lists, click here to create a new merge list.

TXs from the first list will be added first.

2. Open an empty TX list edit screen.

3. The list of TX lists displays the following elements for each TX lists :

- TX list name,
- TX list minimal and maximal frequencies,
- List of TX names from this list.

Press on a TX list to open the selected TX list in the TX list edit screen (6.).

6) TX list edit

A TX list can hold several transmitters and is the core element in TXAdvance. Each TX in the list is unique and only belongs to this list. A TX list can be linked to several locations.

The screenshot shows the 'Transmitters list name' field with the value 'Sound bag'. Below it, there are three transmitters listed:

TX Number	TX Name	Model	Frequency Limits	Frequency
1	Boom 1	Lectro Digital Hybrid Block 22	563,200 MHz <-> 588,775 MHz	581,100
2	Boom 2	Lectro Digital Hybrid Block 22	563,200 MHz <-> 588,775 MHz	579,900
3	Paul	Wisyscom MTP40 B7	470,000 MHz <-> 663,000 MHz	527,625

The bottom bar contains four icons: a trash can (delete), a document with a plus sign (duplicate), a document with a download arrow (export), and a 'SAVE LIST' button.

1. Choose or modify the name of the TX list.
The app will add a « * » at the end if the name is already used by another list.

2. Add a new TX to the list. Every new TX will get the parameters of the last added TX and be added at end.

3. For every TX in the list, the following informations are shown :

- The TX color and its number,
- The name,
- The brand and model,
- The frequency limits,
- The frequency.

The up and down arrows allow to move a TX up or down in the list.

4. Delete the TX list, all its TX and all the intermodulations created by this TX list.

Let the app delete all the data. When done, the app will automatically redirect you to the Home Screen (4.).

5. Duplicate the TX list : it will copy the TX list, its TXs and recalculate the intermodulations for the new TX list.

Let the app calculate intermodulations. When done, the app will automatically redirect you to the TX list edit Screen (6.) with the newly created list loaded.

6. Export the TX list in a proprietary .txa format. The created TXA file can then be saved, shared, sent and imported (12.) in TXAdvance.

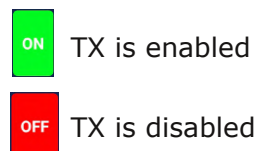
7. Save the TX list.

7) TX parameters edit

A TX is unique and belongs to only one TX list.

The screenshot shows the 'TX parameters edit' screen. It features a dark blue background with white text and various input fields. At the top left, there is a green 'ON' button (1) and a text field for the transmitter's name (2) containing 'Boom 1'. Below this is a red bar (3) and a text field for the TX list name (4) containing 'TXs'. Further down are two dropdown menus for 'Brand' (5) showing 'Lectro Digital Hybrid' and 'Model' (6) showing 'Block 22'. Below these are two input fields for 'Low Frequency Limit' (7) and 'High Frequency Limit' (7), both showing values in MHz. Then, there is a dropdown for 'Frequency step' (8) showing '100kHz'. Below this is a grid of 18 color swatches (9). At the bottom, there is a trash icon (10) and a 'SAVE TRANSMITTER' button (11).

1. Enable/disable this TX. A disabled TX will not have its frequency taken into account in the intermodulation calculations and will not be affected by the auto mode on the home screen. The red bar representing this TX on chart will be shorter and the background of the TX in TX list will be greyed out.



2. Transmitter's name.
Several TX can have the same name.

3. Transmitter's color (chosen in 7.9.).

4. TX list name which holds this TX (6.1.).

5. Brand of this TX (drop-down menu).

6. Model of this TX (drop-down menu).

7. Low and high frequency limits for this TX.
You can edit those values as long as they are

within the default limits from this brand and model. The app will automatically round the frequency to the closest 5 kHz.

8. Choose the frequency step between every frequency. A smaller frequency step will increase the number of potential frequencies but also the loading and calculation time through the app. The « default » button will select the default value from the internal database. Usually, this default value is coming from the manufacturer.

9. Choose a color for this TX.

10. Delete this TX and all the intermodulation it had created. It is important to not quit the app while the IM are removed from the database.

11. Save this TX.

Notes :

- Changing the brand and/or a model of a TX may reset its frequency to 0MHz.
- Some model of transmitters (Comtek and some older Audio Limited, Micron...) have a fixed list of frequencies so the « frequency step » will not affect their list of frequencies.
- If you can not find your TX in the internal database, contact me through <https://www.compasseur.com> In the meantime, you can create a custom TX by selecting « CUSTOM » as a brand (at the last position in the drop down menu) and « TX » as a model.

8) Location edit

Every location can have only one scan and one TX list associated at a time. The location can be duplicated and the TX list can be changed at any time.

a. Location informations

1. The app will add a « * » at the end if the name is already used by another location.

2. The location comment will also appear in the TASE (13.) if you upload this scan.

b. List of transmitters

1. Link a TX list to this location. A TX list can be linked to several locations but a location has only one TX list ; you can however modify a location or duplicate a location and change the TX list in the copied location.

Under the TX list name are shown the minimum and maximum possible frequencies from the TX list.

c. Scan settings

1. Date and time of the scan and the gain value used.

2. Coordinates of the scan if geo-tagging was activated when scanning. A scan must have been geo-tagged to be uploaded on the TASE (13.).

-> Click on the pin to open the TASE map centered at those coordinates.

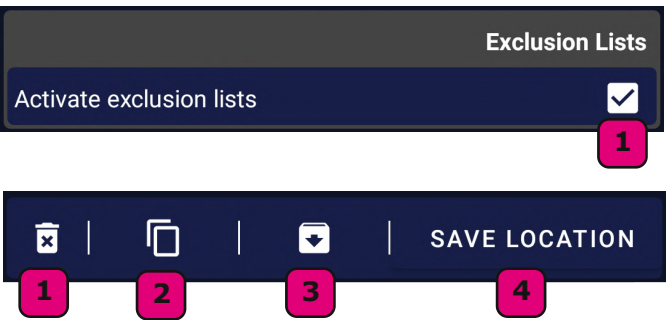
3. This button will automatically detect the minimal and maximal frequencies of the linked TX list and fill those values in the « Low Frequency Limit » and « High Frequency Limit » text box below (8.c.5.).

4. This button will fill the default values set up in the general settings (3.a.2.) of the app in the « Low Frequency Limit » and « High Frequency Limit » text box below (8.c.5.).

5. Those are the frequency limits of the next scan for this location. TXAdvance will add at least 1MHz of bandwidth at the beginning and at the end while scanning so that the auto mode can use this data to find the best frequencies.

The minimum frequency is 50 MHz and the maximum is 1300 MHz.

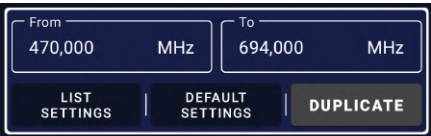
d. Exclusion lists



1. Will enable the exclusion lists for this location. Exclusion lists can be set up in the « Exclusion lists » menu (10.).

1. Delete this location and its scan. It will not delete any TX list nor TX.

2. Show/hide the duplicate location menu :



You can copy the full spectrum or extract a part of it.

This can be useful if you received or downloaded a scan from the TASE or another TXAdvance user.

The different settings of this menu have the same purpose as in 8.c although frequency limits have to be within the limits of the original scan.

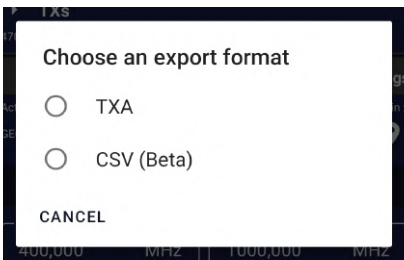
3. Export this location/scan

The proprietary TXA format will include all the parameters of this location and can be saved, sent, shared and imported (12.) in the TXAdvance app.

Exporting to the CSV format will convert the frequency noise values in dBm. The conversion from dBFS to dBm is approximate so the dBm value will not be accurate. The relative values will be accurate though. The CSV file can then be imported in third party softwares like Shure Wireless Workbench or Lectrosonics Wireless Designer.

All informations (name, comments, time and date, geo-tagging...) except for the frequencies and their noise values will be lost when exporting to CSV.

At the moment, a CSV file can not be imported in TXAdvance.



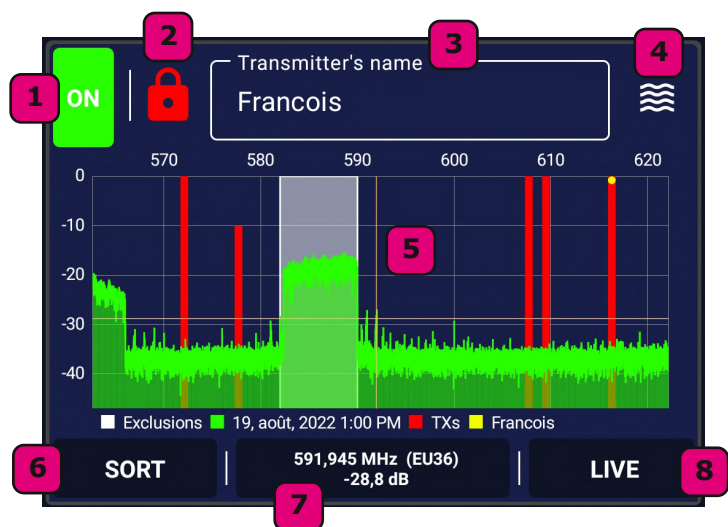
4. Save this location.

9) TX frequency edit

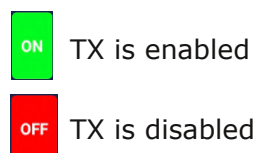
This is where a frequency is chosen for a TX (or through the auto mode on the Home screen (4.c.2.)). The frequency chart will show the frequencies from the scan, the TX, the exclusion list and the frequency of this TX. The list of frequencies show all the compatible frequencies for this TX and their status.

To access the TX frequency edit screen, you need to press on the desired TX on the Home screen (4.d.2.).

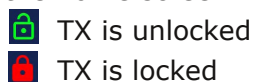
a. Frequency chart



1. Enable/disable this TX. A disabled TX will not have its frequency taken into account in the intermodulation calculations and will not be affected by the auto mode on the home screen. The red bar representing this TX on chart will be shorter and the background of the TX in TX list will be greyed out.



2. Lock/unlock a TX. When locked, a TX will not have its frequency changed by the main auto mode on the home screen. However you can still change its frequency in this TX frequency edit screen.



3. TX name.

Several TX can have the same name.

4. Show/hide the chart.

(!! tip : a long press on the show/hide chart button will double the height of the chart. Another long press will bring back the height to the default status).

5. The frequency chart will display the RF spectrum previously scanned in green with the noise value on the Y axis and the frequency on the X Axis (you can order the frequencies by noise value on the XAxis by pressing « Sort » -> /6).

The red bars represent the TX from the linked TX list. A shorter red bar represents a disabled TX. The white areas are exclusion lists.

The yellow dot at the top is the currently selected frequency.

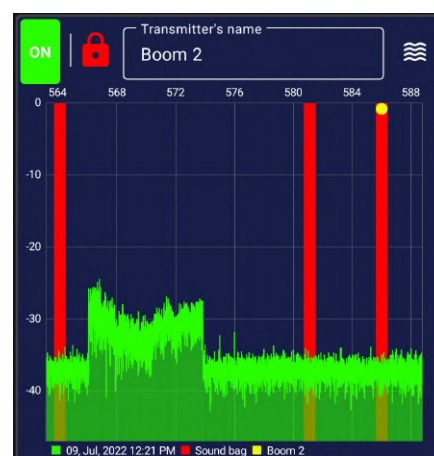
You can zoom in the scan using 2 fingers or by double tapping.

You can zoom out using 2 fingers or fully zoom out by clicking on the frequency box below the chart.

Just below the chart is the legend showing the date of the scan and the TX list name.

Noise values are in dBFS.

(!! tip : Selecting a frequency on the chart will move the list of frequencies to this frequency.)



6. « Sort » will order the chart (9.a.5.) by either the frequency on the X axis or the noise value by ascending order.
7. The frequency text box shows the following informations when a frequency is selected on the chart :
 - frequency,
 - corresponding TV channel,
 - noise value.Additionnaly, if the frequency is within the range of (a TX frequency +/- TX bandwidth/2), the name of that TX and its color will be displayed.
(!! tip : a click on this box will completely zoom out the chart)
8. Start/stop the Live Check mode and requires the SDR USB dongle plugged in.

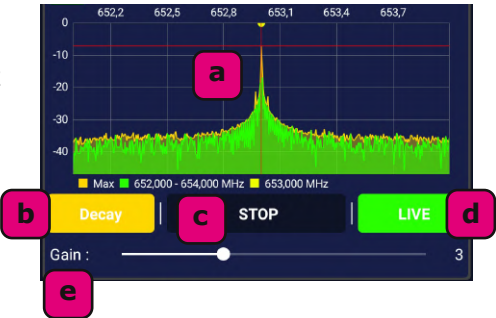
8-a. Chart showing a real time spectrum analyser with a 2MHz bandwidth. You can scroll in the chart to change the center frequency and zoom in/out pinching in/out the chart. The real time data is shown in green and the maximum values are shown in yellow (see 9.a.8-b.).

8-b. Enable/disable decay mode : when ON, the decay will slowly decrease the Max chart (yellow chart). When OFF, the Max chart will keep the maximum value for every frequency.

8-c. Start/stop the Live Check mode.

8-d. Leave the Live Check mode and go back to the RF spectrum scan chart.

8-e. Set the gain of the SDR. The setting of this Live Check gain will not affect the gain set in the general settings (3.a.1.). You can check the corresponding gain value in dB in the section 3.a.1.



b. Frequency list

1

Wisycorn MTP40 B7
TXs
Jardin quai Branly

2

Frequency
616,300 MHz

3

AUTO

Frequency 616,300	TV 36	Free	2T30	3T30	2T50	2T70	Val -36,0
595,875	36						-36,0
595,900	36						-37,3
595,925	36						-34,6
595,950	36						-35,8
595,975	36						-37,8
596,000	36						-34,6
596,025	36						-38,7
596,050	36						-37,6
596,075	36						-35,9
596,100	36						-37,5
596,125	36						-36,2
596,150	36						-37,1
596,175	36						-37,7

4

5

6

SAVE TRANSMITTER

1. Shows the brand and model of this TX, the TX list it belongs to and the location this TX list is associated to.
(!! tip : you can click on this text box to go to the TX edit screen)
2. Frequency box : shows the frequency set for this TX.
Selecting a frequency from the list of frequency below (9.b.4.) will update this frequency box. You can also manually enter a frequency through it. The app will automatically round the number to the closest possible frequency for this TX.
The frequency from this text box is the frequency which will be saved when pressing « SAVE TRANSMITTER ».

3. Pressing « auto » will launch the auto algorithm. When calculation is done, the list of frequencies will be updated with a list of the best frequencies in ascending order. Press on a frequency to select it : the background of the frequency will turn light blue and the frequency will be updated in the frequency box (9.b.2.).

The auto mode will take into account the radio frequency spectrum and the TX list from this TX.

4. The frequency list will show all the possible frequencies for this TX from its low frequency limit to its high frequency limit (7.7.) spaced by the frequency step (7.8.).

For each frequency is shown :

- frequency,
- for some TX (Lectrosonics, Comtek...), the corresponding hexacode,
- corresponding TV channel (Region is set up in the general settings : 3.c.),
- free : other TXs status,
- 2T30 : 2 transmitters 3rd order intermodulation status,
- 3T30 : 3 transmitters 3rd order intermodulation status,
- 2T50 : 2 transmitters 5th order intermodulation status,
- 2T70 : 2 transmitters 3th order intermodulation status,
- noise value.



Frequency is clear



Frequency is too close from an intermodulation or another TX



Frequency is occupied by an intermodulation or another TX

-> Press on a frequency to select it : the background of the frequency will turn light blue and the frequency will be updated in the frequency box (9.b.2.).

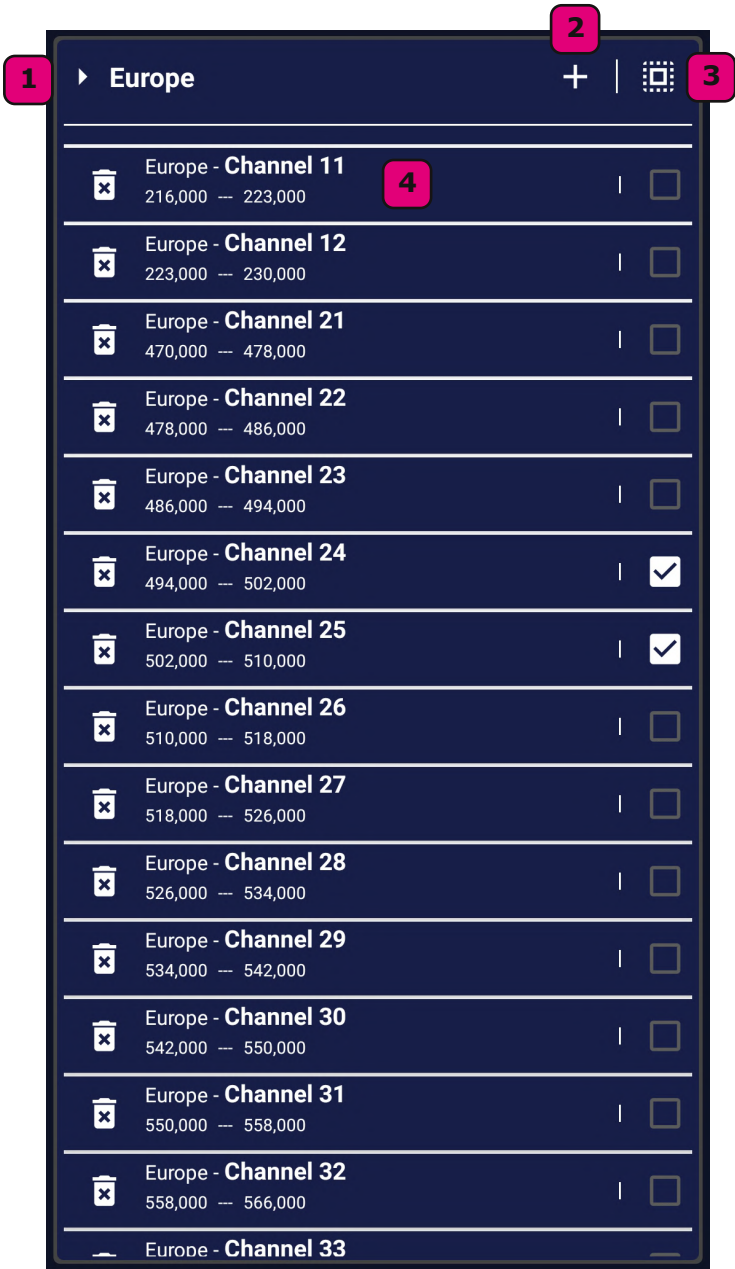
5. Delete this TX and all the intermodulation it had created. It is important to not quit the app while the IM are removed from the database.

6. Save this TX. When saving the TX, if the frequency has changed, the app will calculate all the intermodulation created by this TX and the other TXs from the TX list. Do not quit the app or leave the screen while the progress bar is running. When done, you will automatically be brought back to the Home screen (4.).

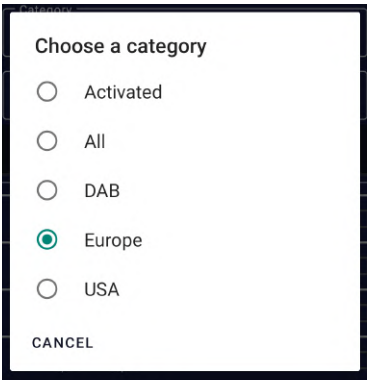
10) Exclusion list

Exclusion lists are bands of frequencies which will be excluded from list of frequencies and the auto mode (but will still be scanned). Those bands are shown in white on RF spectrum charts and the background color of a TX frequency is white when it is under exclusion.

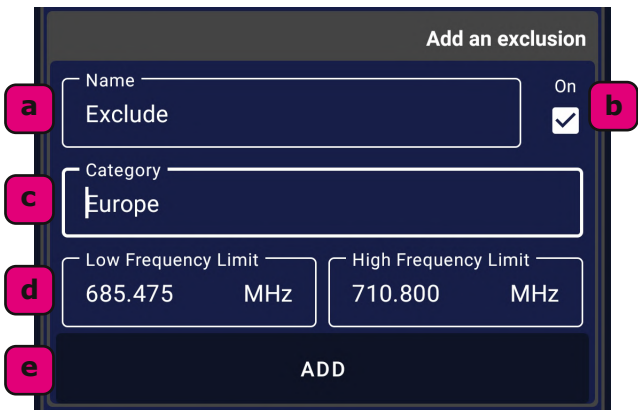
(!! Tip : the only way to select a frequency which is under exclusion is to manually enter it in the frequency box from the frequency edit screen (9.b.2.))



1. Select the category of exclusion lists :



2. Show/hide the add a custom exclusion list menu :



- 2.a. Name of this custom exclusion list.
- 2.b. By default, the category name will be the currently selected category. Adding a new category name will automatically create a new category.
- 2.c. Enable/disable this exclusion list.
- 2.d. Frequency limits of this exclusion list. All frequencies between the low and high frequency limits will be excluded.
- 2.e. Add this exclusion list to the database.

3. Select/unselect all the exclusion from this category.

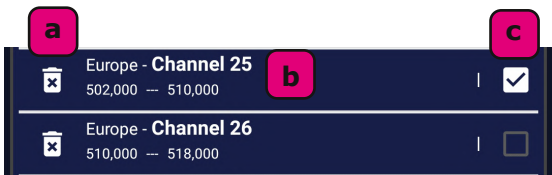
4. Exclusion lists

4.a. Delete this exclusion list.

Note : only custom created exclusion lists can be deleted.

4.b. Exclusion list category, name/channel and bandwidth.

4.c. Enable/disable exclusion list.

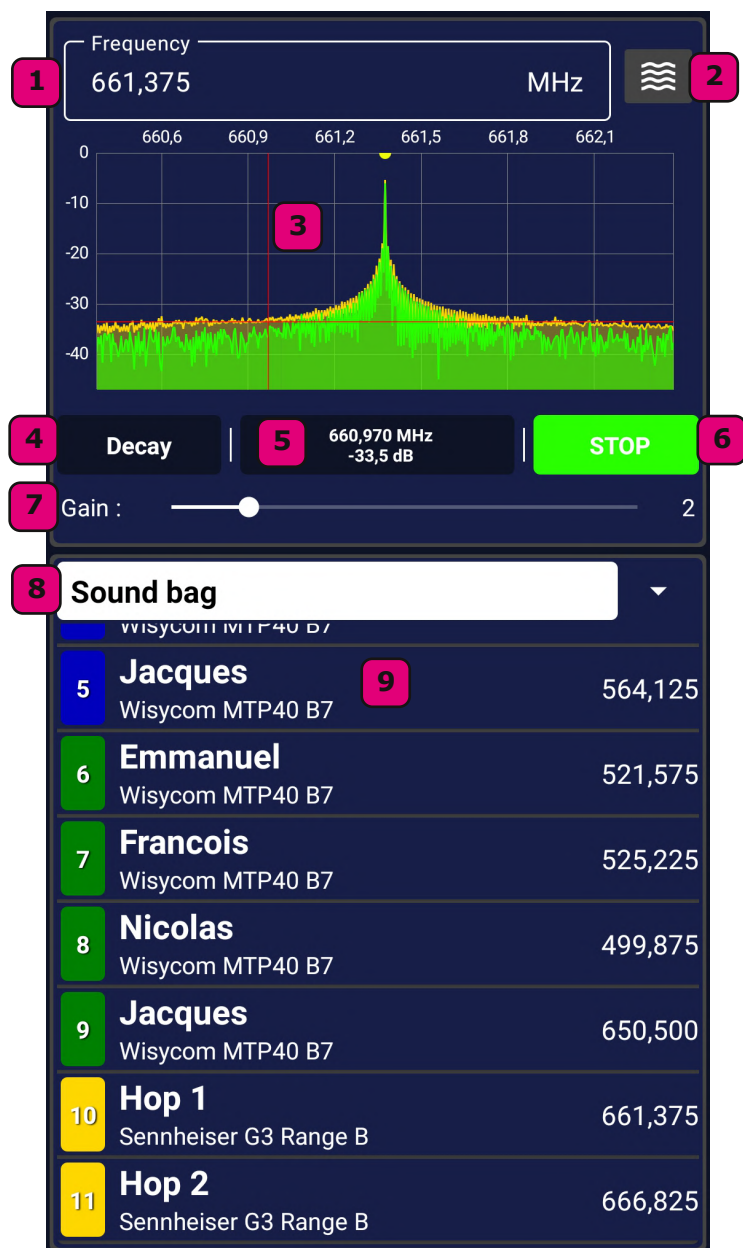


11) Live check

The live check mode is a real time RF spectrum analyser with a 2MHz bandwidth and a 5 kHz resolution. It requires to have the SDR USB dongle plugged in.

The app will save the last used center frequency, TX list and gain.

-> Watch your device battery level while using the Live Check mode.



1. Center frequency of the analyser. It can be set :

- manually,
- by selecting a frequency in the TX list below (8.),
- by scrolling in the chart (11.3.).

The app will automatically round the frequency to the closest 5 kHz.

2. Increase/decrease chart height.

(!! tip : a long press on the show/hide chart button will double the height of the chart. Another long press will bring back the height to the default status.)

3. Chart showing a real time spectrum analysis. You can scroll in the chart to change the center frequency and zoom in/out pinching in/out the chart. The real time data is shown in green and the maximum values are shown in yellow. The yellow dot in the center represents the center frequency (11.1.).

4. Enable/disable decay mode : when ON, the decay will slowly decrease the Max chart (yellow chart). When OFF, the Max chart will keep the maximum value for every frequency.

5. Frequency and corresponding noise value selected from the chart (3.).
(!! tip : a click on this box will completely zoom out the chart)

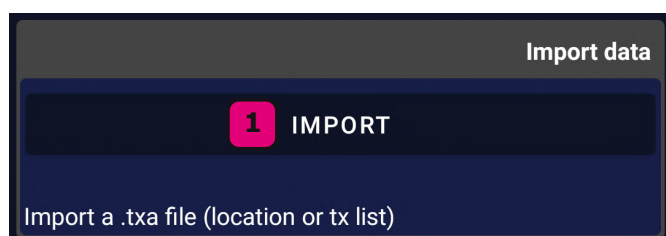
6. Start/stop the Live Check mode for this TX.

7. Set the gain of the SDR. The setting of this Live Check gain will not affect the gain set in the general settings (3.a.1.) of the app. You can check the corresponding gain value in dB in the section 3.a.1.

8. TX list selection.

9. Transmitters from the TX list. Click on a TX to set its frequency as the center frequency of the SDR.

12) Import



1. Open a file browser to import a .txa file. It can be either a location file or a TX list file. The app will automatically detect the type and import the file in its internal database.

Alternatively, you can select a .txa file from a file browser on your device and it automatically open TXAdvance and import the file.

-> Let the app finish the import and the calculation. You will be brought back to the Home screen (4.) when it is done.

13) TXAdvance Scan Exchange

The TXAdvance Scan Exchange platform is a tool to share geo-tagged and time-stamped RF spectrum scans from around the world. Any TXAdvance user can upload a scan and anybody can download them.

Only geo-tagged (through the phone location service : GPS ad network) can be uploaded.

It is recommended to only upload scans with enough gain so that possible RF interferences (like DTV channels) can be detected and with a large enough bandwidth to cover the local legal frequencies.

Also do not upload scans with your personal transmitters switched on while scanning.

Note : to delete a scan, send an email to thecompassseur@gmail.com with the email used to upload the scan.

The screenshot shows the 'Upload parameters' screen of the TXAdvance app. It features a dark blue background with white text and form elements. At the top, there's a header with 'Terms of Use' and 'Upload parameters'. Below this, a location selection menu shows 'Jardin quai Branly'. The form includes fields for 'Uploader's Name' (containing 'Greg'), 'Email' (containing 'thecompassseur@gr'), and 'URL (optional)' (containing 'https://www.compa'). There are two buttons, 'Interior' and 'Exterior', with 'Exterior' being selected. Below the form is a green RF spectrum chart labeled '1/4 whip antenna'. At the bottom is a large 'UPLOAD' button. Numbered callouts (1-8) point to specific elements: 1 points to the 'Terms of Use' link, 2 to the location menu, 3 to the name field, 4 to the email field, 5 to the URL field, 6 to the environment buttons, 7 to the spectrum chart, and 8 to the 'UPLOAD' button.

1. Open the web browser to the TXAdvance Scan Exchange Terms of Use.

2. Open the location selection menu. Selecting a location will load it and prepare it for the upload.

3. Enter uploader's name. The name will be public and is mandatory.

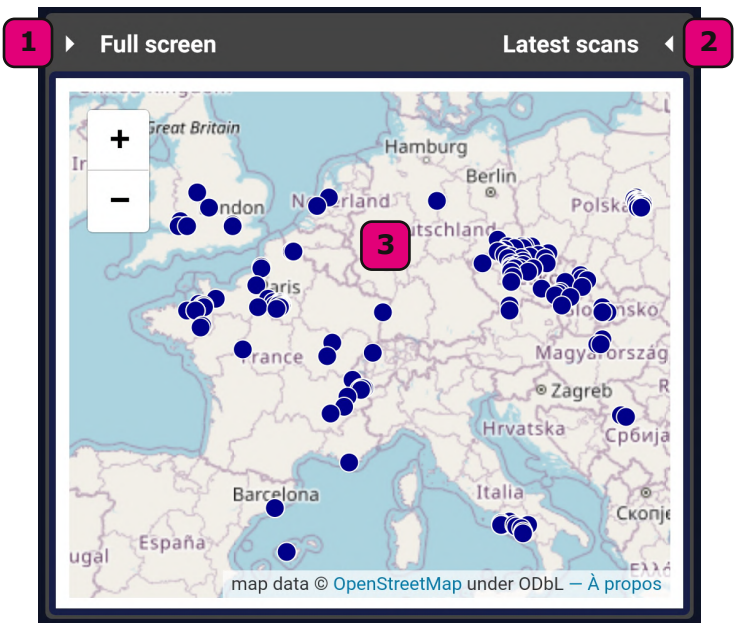
4. Enter uploader's email. The email will be hidden and is mandatory.

5. Enter uploader's website. The website URL will be public and is optional.

6. Choose if the scan was performed in an interior or exterior environment.

7. Chart representing the RF spectrum from the selected location (2.). The comments section from this location is shown below the chart.

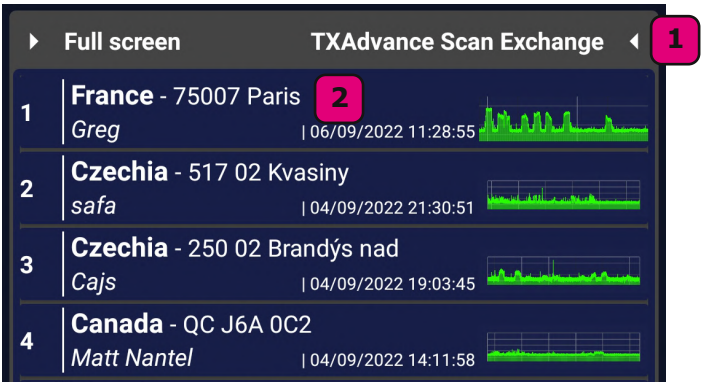
8. Upload this location. First, the app will process the data and then upload it as .txa file. It can take a moment. You need to be connected to the Internet. When done, the scan will appear on the map in the next 5 to 10 minutes.



1. Open the TASE page in the web browser.
2. Show the list of the last uploaded scans.
3. Map showing all the scans. You can zoom in/out and move around in the map. Press on a blue dot to open the location details :

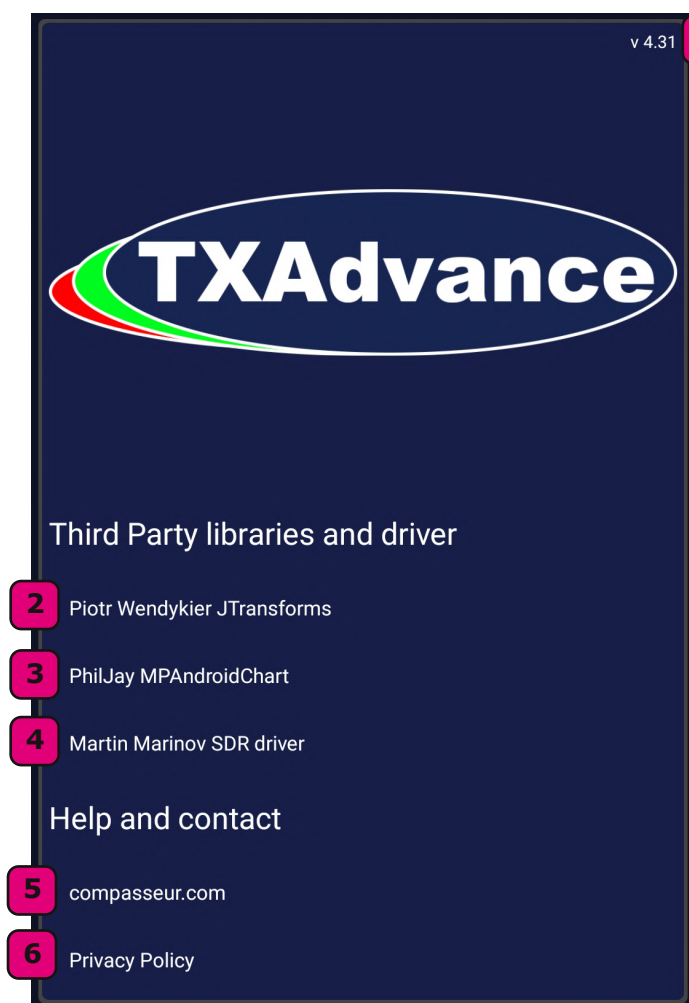


- 3.a. Location name.
- 3.b. RF spectrum screenshot.
- 3.c. Scan informations :
 - Uploader's name (with optional link to uploader's website),
 - Date and time of scan,
 - Bandwidth of the scan,
 - Source and gain of the scan.
 - Interior/exterior,
 - Comments
- 3.d. Link to download the scan.



1. Show the list of the last uploaded scans.
2. List of the last uploaded scans with the following informations :
 - Country and city
 - Uploader's name
 - Date of upload
 - RF spectrum screenshot-> Click to open the TASE map at this location.

14) About



1. TXAdvance version number.
2. Piotr Wendykier JTransforms license.
3. PhilJay MPAndroidChart license.
4. Martin Marinov SDR driver's Play Store page.
5. Compasseur's homepage.
6. TXAdvance's privacy policy.