

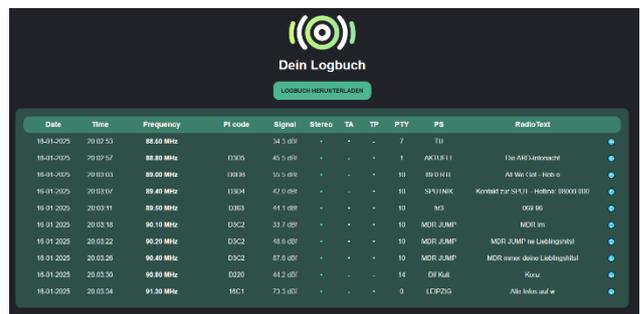
The basic requirement for using this workflow is a valid registration at <https://fmlist.org>

## 1. Logging

- In the NETWORK menu of the TEF, set the “Set NTP time offset” to “GMT +0” and “Auto DST on NTP tim.” to ON
- Connect the TEF to WiFi to synchronize the time once
- Configure the memory locations (e.g. 1 – 87.5 MHz and 2 – 108 MHz)
- In the FM DX OPTIONS menu item, the “Autologger” should be set to ON, the “Wait time” should not be set to less than 3 seconds and “Start scan with storage space” should be set to 1 and “Stop scan with storage space” should be set to 2
- To start logging select “Start DX Scan”

## 2. Conversion

- Connect the TEF to WLAN and open the logbook with <http://xxx.xxx.xxx.xxx> (IP address of the TEF) in the browser and download the CSV file



- Open the URL: <https://tef.noobish.eu/logos/CSVtoURDS.html> and save your coordinates and altitude
- Click on “Select file” behind TEF CSV file and select the TEF CSV file(s)

➤ Multiple selected files are automatically combined

- Then click on CONVERT and the converted log file will appear including the DOWNLOAD BUTTON

➤ The fixed coordinates including altitude are written into the log

### TEF CSV to URDS Converter

CSV file processed with fixed GPS data successfully

TEF CSV file:  logbook (7).csv

+/- Time Offset (in h):

GPX File (Option):  Keine ausgewählt

+/- Time Offset (in h):

Latitude:

Longitude:

Height (in m):

#### URDS Log Output

```
1737857777,Freq,88800000,1,455,455,2025-01-16T20:02:57.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:02:57.000Z,0xD305,1,"AKTUELL",1,0,1,0,"News",0A,1,0,,,"allps:",,,,
1737857783,Freq,89000000,1,555,555,2025-01-16T20:03:03.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:03:03.000Z,0xD008,1,"89.0 RTL",1,0,1,0,"Pop Music",0A,1,0,,,"allps:",,,,
1737857787,Freq,89400000,1,420,420,2025-01-16T20:03:07.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:03:07.000Z,0xD304,1,"SPUTNIK",1,0,1,0,"Pop Music",0A,1,0,,,"allps:",,,,
1737857791,Freq,89500000,1,441,441,2025-01-16T20:03:11.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:03:11.000Z,0xD363,1,"r3c1",1,1,1,0,"Pop Music",0A,1,0,,,"allps:",,,,
1737857796,Freq,90100000,1,337,337,2025-01-16T20:03:18.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:03:18.000Z,0xD3C2,1,"MR JUMP",1,1,1,0,"Pop Music",0A,1,0,,,"allps:",,,,
1737857802,Freq,90200000,1,486,486,2025-01-16T20:03:22.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:03:22.000Z,0xD3C2,1,"MR JUMP",1,1,1,0,"Pop Music",0A,1,0,,,"allps:",,,,
1737857806,Freq,90400000,1,876,876,2025-01-16T20:03:26.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:03:26.000Z,0xD3C2,1,"MR JUMP",1,1,1,0,"Pop Music",0A,1,0,,,"allps:",,,,
1737857810,Freq,90800000,1,442,442,2025-01-16T20:03:30.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:03:30.000Z,0xD220,1,"Dif Kult",1,0,0,0,"Serious Classical",0A,1,0,,,"allps:",,,,
1737857814,Freq,91300000,1,733,733,2025-01-16T20:03:34.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:03:34.000Z,0x16C1,1,"LEIPZIG",1,0,1,0,"No PTY",0A,1,0,,,"allps:",,,,
1737857818,Freq,91500000,1,669,669,2025-01-16T20:03:38.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:03:38.000Z,0xD3C2,1,"MR JUMP",1,1,1,0,"Pop Music",0A,1,0,,,"allps:",,,,
1737857831,Freq,92100000,1,576,576,2025-01-16T20:03:51.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:03:51.000Z,0xD362,1,"MR 2",1,1,1,0,"Pop Music",0A,1,0,,,"allps:",,,,
1737857838,Freq,92300000,1,479,479,2025-01-16T20:03:58.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:03:58.000Z,0xD5D1,1,"MR 5-AN",1,1,1,0,"Weather",0A,1,0,,,"allps:",,,,
1737857844,Freq,92500000,1,530,530,2025-01-16T20:04:04.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:04:04.000Z,0xD4F1,1,"MR THUE",1,1,1,0,"Pop Music",0A,1,0,,,"allps:",,,,
1737857848,Freq,92800000,1,538,538,2025-01-16T20:04:08.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:04:08.000Z,0xD5C1,1,"MR SM C",1,0,1,0,"Pop Music",0A,1,0,,,"allps:",,,,
1737857855,Freq,93100000,1,508,508,2025-01-16T20:04:15.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:04:15.000Z,0xD3D4,1,"SPUTNIK",1,0,1,0,"Science",0A,1,0,,,"allps:",,,,
1737857865,Freq,93500000,1,585,585,2025-01-16T20:04:25.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:04:25.000Z,0xD3D8,1,"BROCKEN",1,0,1,0,"No PTY",0A,1,0,,,"allps:",,,,
1737857872,Freq,93900000,1,688,688,2025-01-16T20:04:32.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:04:32.000Z,0xD6C1,1,"MR SM L",1,0,1,0,"Pop Music",0A,1,0,,,"allps:",,,,
1737857880,Freq,94000000,1,686,686,2025-01-16T20:04:40.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:04:40.000Z,0xD4D1,1,"MR 5-AN",1,0,1,0,"Oldies Music",0A,1,0,,,"allps:",,,,
1737857887,Freq,95200000,1,433,433,2025-01-16T20:04:47.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:04:47.000Z,0xD3C3,1,"KUL R",1,1,0,0,"Culture",0A,1,0,,,"allps:",,,,
1737857891,Freq,95600000,1,804,804,2025-01-16T20:04:51.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:04:51.000Z,0xD3D5,1,"MR",1,0,1,0,"News",0A,1,0,,,"allps:",,,,
1737857898,Freq,95900000,1,581,581,2025-01-16T20:04:58.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:04:58.000Z,0x14D2,1,"corax",1,0,1,0,"No PTY",0A,1,0,,,"allps:",,,,
1737857902,Freq,96100000,1,439,439,2025-01-16T20:05:02.000Z,51.29090,12.47619,2,160.000,2025-01-16T20:05:02.000Z,0xD4D1,1,"MR 5-AN",1,0,1,0,"Oldies Music",0A,1,0,,,"allps:",,,,
```

- Then save the generated \*\_fm\_rds.csv file

### 3.1 Upload with static GPS data

- Open the URL: <https://tef.noobish.eu/logos/URDSuploader.html>

#### URDS Uploader

FMLIST OMID:

FMLIST Email:

User Info:

Logging Description:

Publication Mode:

Operating Mode:

URDS CSV Files:  2025-01-...\_rds.csv

#### File Content for Upload:

```
10,"max.mustermann@gmx.de"
11,"1234", "DXGURU"
111,"URDS Webupload"
12,"My first TEF internal logging"
13,"public", ""
14,"Fixed"
15,"22, 22, 0,"
30,1737057777,freq,88800000,1,455,455,2025-01-16T20:02:57.000Z,51.29219061376326,12.44542078817341,3,160.674,2025-01-16T20:02:57.000Z,0xD3D5,1,"AKTUELL",1,0,1,0,"News", "0A",1,0,,,"allps:", ""
30,1737057783,freq,89000000,1,555,555,2025-01-16T20:03:03.000Z,51.2921905845815,12.44542190497331,3,160.674,2025-01-16T20:03:03.000Z,0xD00B,1,"89.0 RTL",1,0,1,0,"Pop Music", "0A",1,0,,,"allps:", ""
30,1737057787,freq,89400000,1,420,420,2025-01-16T20:03:07.000Z,51.2921905805806,12.44542205909012,3,160.674,2025-01-16T20:03:07.000Z,0xD3D4,1,"SPUTNIK",1,0,1,0,"Pop Music", "0A",1,0,,,"allps:", ""
30,1737057791,freq,89500000,1,441,441,2025-01-16T20:03:11.000Z,51.29219057389595,12.44542231394897,3,160.674,2025-01-16T20:03:11.000Z,0xD363,1,"hr3",1,1,1,0,"Pop Music", "0A",1,0,,,"allps:", ""
30,1737057798,freq,90100000,1,337,337,2025-01-16T20:03:18.000Z,51.29219056825605,12.44542252975535,3,160.674,2025-01-16T20:03:18.000Z,0xD3C2,1,"MDR JUMP",1,1,1,0,"Pop Music", "0A",1,0,,,"allps:", ""
30,1737057802,freq,90200000,1,486,486,2025-01-16T20:03:22.000Z,51.29219056407154,12.44542268989845,3,160.674,2025-01-16T20:03:22.000Z,0xD3C2,1,"MDR JUMP",1,1,1,0,"Pop Music", "0A",1,0,,,"allps:", ""
30,1737057806,freq,90400000,1,876,876,2025-01-16T20:03:26.000Z,51.29219104445375,12.44542200152527,3,160.674,2025-01-16T20:03:26.000Z,0xD3C2,1,"MDR JUMP",1,1,1,0,"Pop Music", "0A",1,0,,,"allps:", ""
30,1737057810,freq,90800000,1,442,442,2025-01-16T20:03:30.000Z,51.29219099252667,12.44542214220335,3,160.674,2025-01-16T20:03:30.000Z,0xD2D0,1,"Dif Kult",1,0,0,0,"Serious Classical", "0A",1,0,,,"allps:", ""
30,1737057814,freq,91300000,1,733,733,2025-01-16T20:03:34.000Z,51.29219094420704,12.4454222752165,3,160.674,2025-01-16T20:03:34.000Z,0x16C1,1,"LEIPZIG",1,0,1,0,"No PTY", "0A",1,0,,,"allps:", ""
```

- Fill out all fields, select Public for “Publication Mode” and “Operating Mode” Fixed for fixed GPS coordinates and Mobile for dynamic GPS data
- Then select the saved \*\_fm\_rds.csv file and click START UPLOAD
- After a short time, the status message “Upload successful” appears and after a few minutes the log file can be accessed at the URL: [https://www.fmlist.org/urds/urds\\_panel.php](https://www.fmlist.org/urds/urds_panel.php)

#### myURDS...

#### URDS scans

Filename imported	ID	Contributor	Perm	RespID	RspID	OMID	IP	Comments	f/m total rows	FM+RDS FM-RDS	#Pi	#PS	#rawPI	DX-Tr	DX-Es	DABMUIX	DABSVX	DABdata	ACTIONS...	
20250116 2025-01-16 21:10:01	18412	je***@gm***	p	Highpoint	8032	...xx		TEF Internal Logging with MyTracks GPS App	m 29	22	0	22	22	0	0	0	0	0	0	

- Clicking on the magnifying glass opens the location/tracking view
- Presets can be changed using the pen
- The X deletes the entry (!)
- Clicking on RDS opens the log list (same logs on same frequencies are summarized and counted)

ALL 88.80 89.00 89.40 89.50 90.10 90.20 90.40 90.80 91.30 91.50 92.10 92.30 92.50 92.80 93.10 93.50 93.90 94.60 95.20 95.60 95.90 96.10

Scanner RDS flags				FMLIST																
MHz	PI (22)	#	PS (22)	TP	TA	minSNR	maxSNR	Mod	...	Program	Mod	Propa	*	Tx	km					
88.800000	D3D5	#1	AKTUELL	1	0	45.5	45.5	s		MDR Aktuell	s	-	...	Weißenfels (2000191)	35					
89.000000	D0DB	#1	89.0_RTL	1	0	55.5	55.5	s		89.0 RTL	s	-	--	Brocken (2000227)	139					
89.400000	D3D4	#1	SPUTNIK	1	0	42	42	s		MDR Sputnik	s	-	--	Zeititz (2000274)	35					
89.500000	D363	#1	hr3	1	1	44.1	44.1	s		hr3	s	-	--	Hoher Meißner (2000289)	181					
90.100000	D3C2	#1	MDR_JUMP	1	1	33.7	33.7	s		MDR JUMP	s	-	--	Dresden/Wachwitz (2000362)	101					

- Further functions can be found in the UDRS documentation (available soon)!

### 3.2 Upload with dynamic GPS data

To record dynamic GPS data in GPX format, a tracker/logging app is required, which records NMEA formatted GPS data every second.

The following apps have already been tested and are recommended:

#### **Android:**

GPS Logger: <https://play.google.com/store/apps/details?id=eu.basicairdata.graziano.gpslogger>

- It is recommended to deactivate the “GPS time in the local time zone” in the app settings in order to receive GPS data in UTC format

#### **iOS:**

MyTracks: <https://apps.apple.com/de/app/mytracks-der-gps-logger/id358697908>

- In the recording settings of the app (accessible after pressing Rec) the “time interval” must be set to 1s. The menu items “Record only when moving” and “Smooth recording” must be deactivated.
- Before recording and logging begins, it must be ensured that the TEF is or was connected to the WLAN in order to synchronize and update the time display
- Open the GPS app on your mobile phone and start tracking (assuming GPS reception)
- Then continue as described under point 1
- Stop tracking and transfer the GPX file to the smartphone/PC or laptop
- Then open the URL: <https://tef.noobish.eu/logos/CSVtoURDS.html> and adjust the pre-filled data fields
- Now click on “Select file” behind TEF CSV file and select the TEF CSV file

- Check in the file display whether the time is in UTC, if not correct the value with the offset function under TEF CSV file

```
300,1,455,455,2025-01-16T20:02:57.000Z,51.2921
300,1,555,555,2025-01-16T20:03:03.000Z,51.2921
300,1,420,420,2025-01-16T20:03:07.000Z,51.2921
```

- Click behind GPX File (option) and select the GPX file and click on CONVERT
  - If a warning message appears that no GPS data could be matched, the times probably do not match
  - Use the offset under GPX File (option) to adjust the time up or down and click on CONVERT again
  - If the display “CSV file processed with imported GPS data successfully” appears, the data sets have been successfully matched with the imported GPS data

#### **TEF CSV to URDS Converter**

TEF CSV file:  logbook (7).csv

+/- Time Offset (in h):

GPX File (Option):  2025-01-...01\_22.gpx

+/- Time Offset (in h):

- Then save the generated \*\_fm\_rds.csv file and open the URL: <https://tef.noobish.eu/logos/URDSuploader.html>
- Then proceed as described under 3.1, but select mobile for dynamic GPS data in “Publication Mode”.