

# TOTA Cluster – User Manual

*(mobile version / PWA – OK & OM & DL Towers On The Air)*

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## 1. Introduction

**TOTA Cluster** is a simple mobile application designed for quick entry and monitoring of spots within the **TOTA (Towers On The Air)** program.

It is mainly used for:

- submitting self-spots by tower activators,
- monitoring currently active stations,
- providing real-time orientation for both hunters and activators.

The application runs as a **PWA (Progressive Web App)** – no installation from an app store is required.

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## 2. Installing TOTA Cluster as a Mobile App

TOTA Cluster can be installed on a mobile phone as a **PWA (Progressive Web App)**.

After installation, it behaves like a regular mobile application – it has its own icon, runs in full-screen mode, and is faster than using it in a browser.

### 2.1 Installation on iPhone (Safari)

Apple allows PWA installation only via the **Safari** browser.

- Open Safari
- Enter the address:  
<https://rozhledny.eu/cluster/pwa/>
- Tap the **Share** icon (square with an upward arrow) at the bottom
- Select **“Add to Home Screen”**
- Confirm – the TOTA Cluster icon will appear on the Home Screen

## 2.2 Installation on Android (Chrome)

- Open Chrome
- Enter the address:  
<https://rozhledny.eu/cluster/pwa/>
- After a moment, a prompt “**Add to Home screen / Install app**” will appear
- If the prompt does not appear:
  - open the menu (:)
  - select **Add to Home screen**
- Confirm the installation

## 2.3 Advantages of PWA Installation

- full-screen operation (no address bar),
  - faster application response,
  - instant access from the home screen,
  - automatic updates without user intervention.
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## 3. Screen Overview

The application is divided into two main sections:

### 3.1 Self-Spot (upper section)

This form is used to submit your own spot.

It contains the following fields:

- **CALL**
  - your callsign
  - automatically pre-filled (e.g. OK2IH or OK2IH/P)
- **REF**
  - tower reference
  - e.g. OKR-0801
- **Frequency**
  - operating frequency
  - e.g. 145.525

- **MODE**

- operating mode
- FM / SSB (depending on the band)

- **Comment** (optional)

- e.g. “CQ TOTA”, “portable”, “only FM”

Button:

- **Send self-spot**

## 3.2 Active Spots (lower section)

Displays a list of current activities within the TOTA program.

Each spot includes:

- time (UTC),
- station callsign,
- tower reference,
- frequency,
- comment (if provided),
- activity status:
  - o **LIVE** (active),
  - o **QRT** (finished).

The status is indicated by a colored dot.

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## 4. How to Submit a Self-Spot Correctly

Steps to submit a spot:

1. Check that your callsign (CALL) is correct
2. Enter the tower reference
3. Enter the frequency
4. Select the appropriate mode
5. Optionally add a comment
6. Click **Send self-spot**

After submission, the spot will immediately appear in the list of active spots.

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## 5. Spot Status – LIVE vs. QRT

Each spot has a current status:

- **LIVE**
  - the activity is ongoing
  - the spot is displayed as active
- **QRT**
  - the activity has ended
  - the spot is marked as inactive

### ***Automatic QRT***

If a spot is not updated for a certain period of time, the system automatically switches it to **QRT**.

Therefore, the user does not need to manually cancel the spot when the activity simply ends.

### ***Manual QRT Switching (new)***

The activator can manually end their own spot:

- a switch / control appears next to the user's own spot,
- clicking it immediately switches the spot to **QRT**,
- the spot is instantly marked as finished.

This option is especially useful:

- when ending operation quickly,
- when a spot was entered incorrectly,
- when the activator knows they will not continue operating.

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## 6. Common Issues and Solutions

### **Spot was not sent**

- check your internet connection,
- make sure the reference and frequency are filled in.

### **I cannot see my spot**

- refresh the page (pull down),
- check that **Send self-spot** was clicked.

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## 7. Recommendations for Activators

- submit one spot per activation,
- when changing band or mode, feel free to send a new spot,
- use comments – they help hunters (e.g. “CQ”, “only FM”, “SSB only”).

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## 8. Differences Between Android and iOS

### iOS (iPhone)

- the app does not appear in the app list,
- it is available only as an icon on the Home Screen,
- it runs as a PWA via Safari.

This behavior is a standard iOS feature and not an application bug.

### Android

- the app behaves similarly to a classic application,
- it may also be visible in the app list.

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## 9. Summary

TOTA Cluster offers:

- easy spot submission,
- clear mobile control,
- no need to install from an app store,
- reliable field operation.

The application is designed to work quickly on a hilltop, in winter, and with one hand.

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# 10. Support

Application author:

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