

Tower Logger – User Manual

(Version for TOTA / European Towers On The Air)

1. Introduction

Tower Logger is a modern PWA application designed for fast, reliable, and simple QSO logging during tower activations within the TOTA program.

The application is primarily designed for mobile phones and tablets, works both online and offline, and supports automatic QSO synchronization once the internet connection is restored.

Tower Logger is the successor to the original version and brings in particular:

- full **OFFLINE mode**,
 - login using a **rozhledny.eu account**,
 - very fast and simple QSO entry in the field,
 - direct integration into the **TOTA system**.
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2. Main Features

Tower Logger allows:

- fast QSO logging optimized for mobile devices,
 - automatic UTC time filling,
 - saving QSOs even without an internet connection,
 - automatic synchronization after signal returns,
 - editing and deleting recent records,
 - operation in **PWA mode** (standalone mobile application).
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3. Installing Tower Logger as a Mobile App (PWA)

Tower Logger can be installed on your phone as a PWA (Progressive Web App). After installation, it behaves like a regular app – it has its own icon, runs full-screen, and is faster than running in a browser.

3.1 Installation on iPhone (Safari)

Apple allows PWA installation only via the Safari browser.

- Open **Safari**
- Enter the address:
`https://wwtota.com/logger.php`
- Tap the **Share** icon at the bottom (square with an arrow up)
- Select **“Add to Home Screen”**
- Confirm – the Tower Logger icon will appear on your home screen

3.2 Installation on Android (Chrome)

- Open **Chrome**
- Enter the address:
`https://wwtota.com/logger.php`
- After a moment, the option **“Add to Home Screen / Install App”** appears
- If it does not appear:
 - open the menu (:)
 - select **Add to Home Screen**
- Confirm the installation

3.3 Advantages of PWA Installation

- full-screen operation (no address bar),
 - faster response,
 - offline operation,
 - automatic updates without user intervention.
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4. Logging into the Application

Tower Logger is directly linked to your **rozhledny.eu** user account.

After opening the app:

- a login form is displayed,
- enter the same **email and password** as on the website,
- after logging in, the application is unlocked.

The login is stored on the device, so you do not need to enter your password again next time.

5. Offline Mode

Tower Logger works fully even without an internet connection.

If no signal is available:

- ✓ QSOs are stored in the phone's internal memory (IndexedDB)
- ✓ the application works completely autonomously
- ✓ after the internet connection is restored, QSOs are sent automatically

The user does not need to do anything manually.

6. User Interface

After logging in, Tower Logger has three main sections:

6.1 Header

Used to set basic parameters:

- your own **CALL**,
- QSO date,
- band,
- mode.

The header must be saved – only then can QSOs be entered.

6.2 Contacts (QSO Entry)

The fast QSO entry form contains:

- contacted station,
- UTC time (automatically filled),
- RST,
- note,
- **Save** button.

The form is optimized for field operation and a minimal number of clicks.

6.3 Editing

The Editing section displays:

- a list of the last 50 QSOs,
 - option to edit records,
 - option to delete records,
 - overview of QSOs waiting in the offline queue.
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7. QSO Entry

QSO entry is designed for maximum speed:

- automatic UTC time filling,
- automatic uppercase CALL signs,
- band normalization (e.g. 40 → 40m),
- saving with a single click.

Ideal for busy activations with heavy traffic.

8. Offline QSO Queue

Technical principle (the user does not need to care about it):

- QSOs are stored in the device's internal memory

- After the connection is restored:
 - the queue is loaded,
 - QSOs are sent to the TOTA API,
 - successfully sent records are automatically deleted

The entire process runs in the background.

9. Recommended Activation Workflow

- Start Tower Logger
 - Log in (if required)
 - Fill in and save the header
 - Enter QSOs in the Contacts section
 - Regularly check records in the Editing section
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10. Frequently Asked Questions (FAQ)

What if I temporarily have no internet connection?

Tower Logger automatically switches to offline mode and stores QSOs in a queue.

Why do I need to be logged in?

QSOs are logged directly into your account and into the TOTA system.

11. Application Icon

Tower Logger has its own PWA icon with a stylized observation tower and radio signal, making it easy to recognize among other applications.

12. Conclusion

Tower Logger is a modern and robust tool for TOTA activators.

It offers:

- ✓ simplicity
 - ✓ speed
 - ✓ full offline support
 - ✓ automatic synchronization
 - ✓ clear QSO editing
 - ✓ direct integration with the TOTA system
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13. Support

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