

RelayGuard



IEC61850Browser

Quick Start Guide

Quick start for connection, monitoring, commands, and file transfer

Designed for fast checking and testing of IEC 61850 IEDs.

This short guide shows the key steps to your first connection.

Rev.1.2.26 (27 April 2026)

Before You Start



Wi-Fi-Connection

Connect your iPhone/iPad via the internal Wi-Fi network if the target network is reachable that way.



USB-C to RJ45

Alternatively, use a USB-C to RJ45 adapter for a wired network connection.

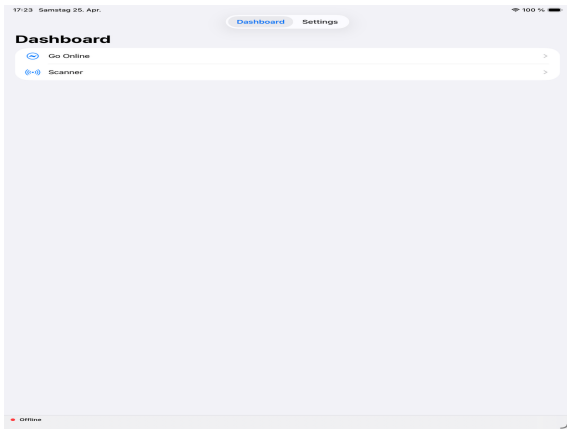
Check IP Address: Adjust the IP address and subnet of your device in the device settings.

Check Ports: For scanning, the MMS and Secure MMS ports can be adjusted in the app's scanner settings.

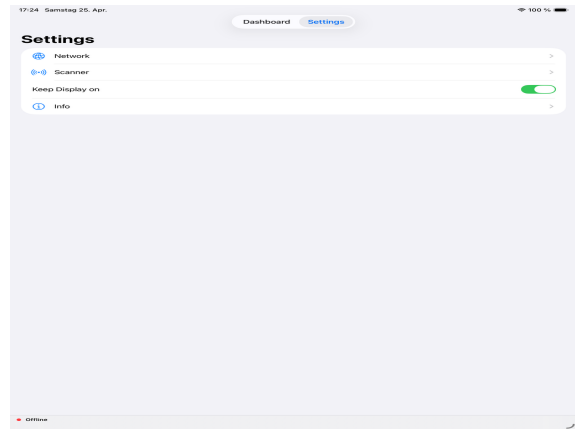
1. Dashboard and Navigation

The dashboard is the starting point of the app. From here, you can either connect directly to a single IED or use the scanner to search for devices in the local subnet.

- Go Online: direct connection to an IED using its IP address and port.
- Scanner: search for available IEC 61850 IEDs in the local network.
- Settings: access network, scanner, Keep Display on, and app information.



Dashboard

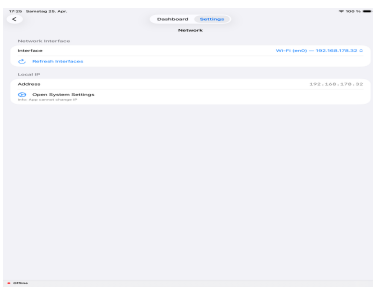


Settings

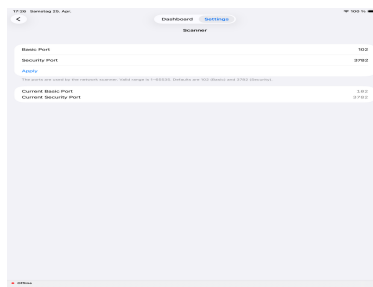
2. Set Up the Network Interface and Scanner

In Settings, you define which network interface the app uses and which ports the scanner checks.

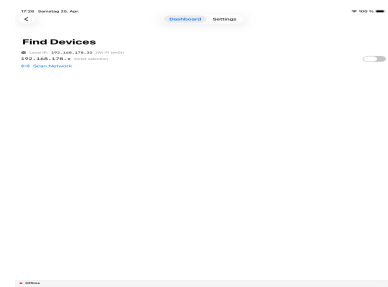
- Network Interface: selects the active interface for all app communication.
- Local IP: shows the IP address of the selected interface.
- Basic Port / Security Port: define the ports used for MMS and Secure MMS during scanning.
- Apply: saves the changed port configuration.
- Keep Display on: keeps the display awake while the app is in use. This option is enabled by default and can be turned off in Settings if required.



Network Settings



Scanner Settings



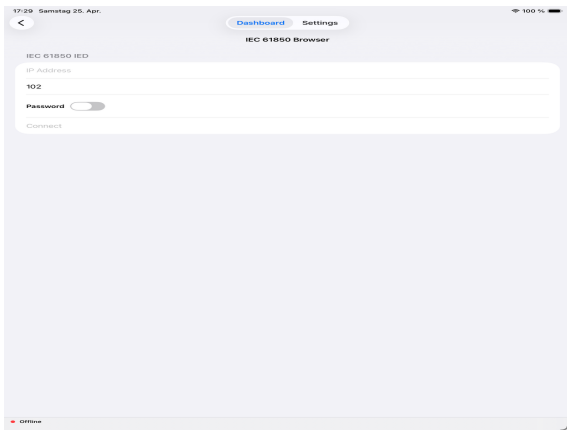
Scanner Results

Info: The scanner always checks the selected subnet, depending on the selector switch either the last octet or the last two octets. Scanning 254 IP addresses takes about 2.5 minutes. For 254 x 254, it takes correspondingly longer. Both ports (MMS and SecureMMS) configured in Settings are always checked. In the overview, the detected port is highlighted by color: green (open lock) for MMS and blue (closed lock) for SecureMMS.

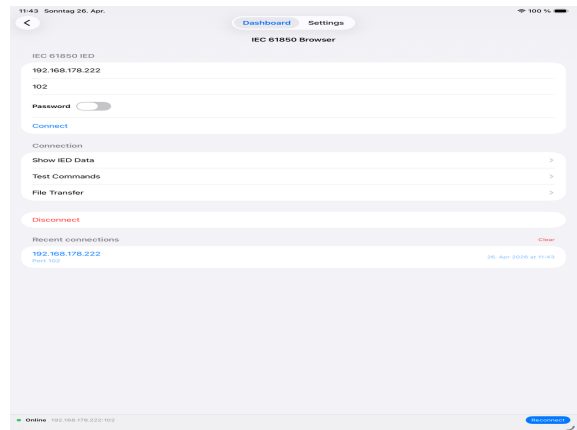
3. Connect Directly to an IED

Use Go Online to establish a direct connection to a single IED. Enter the IP address and TCP port, then tap Connect. For password-protected devices, you can additionally enable password authentication and enter the device password.

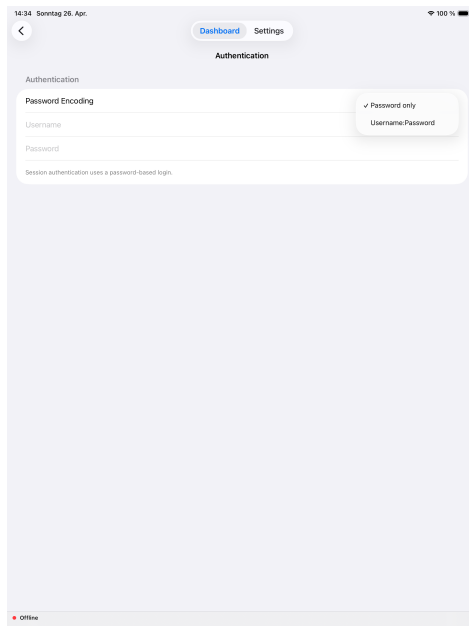
- In offline mode, enter the target address and port manually.
- After a successful connection, the app shows the online status.
- Recent Connections stores the most recent connections for quick access.
- If the connection is lost, the app can offer a reconnect.
- Password: enables login to password-protected devices. Enter the password before establishing the connection.



Connection Page Before Connecting



Connected IED Overview

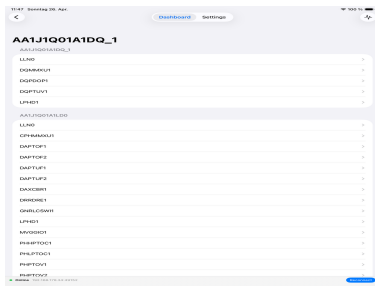


Password Authentication

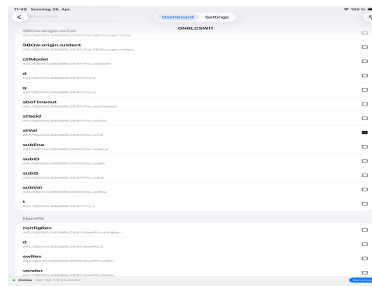
4. View and Monitor IED Data

In Show IED Data, you can navigate through the data model, select data points, and read them cyclically.

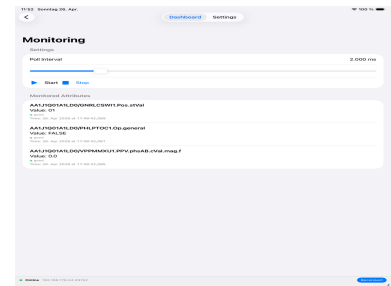
- First select a Logical Node from the data model. The monitoring icon is already available in the Logical Node overview and also remains available during signal selection.
- Select the desired signals and open the monitoring view using the sine-wave icon at the top right.
- Set the polling interval and start monitoring.
- The view shows the value, timestamp, and quality information for each signal.



Data Model Overview



Select Signals

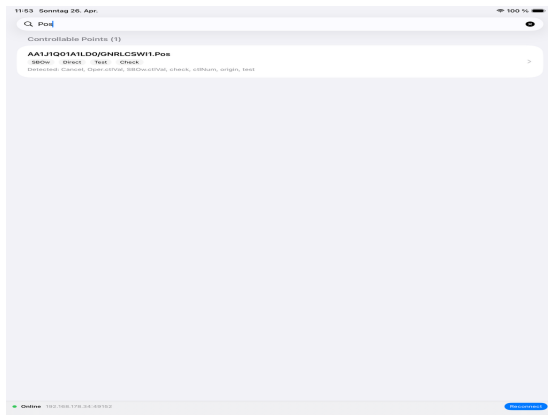


Monitoring View

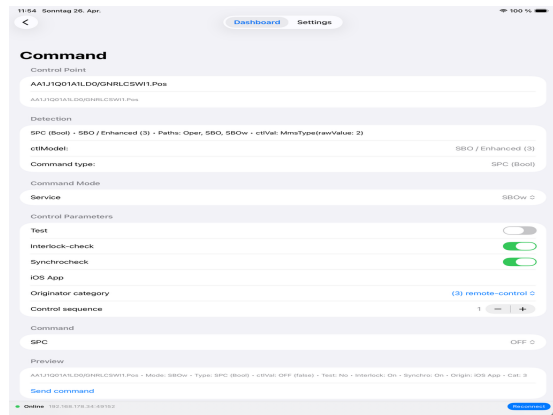
5. Execute Commands

Under Test Commands, the app lists all controllable positions of the connected IED and automatically displays the required operating options.

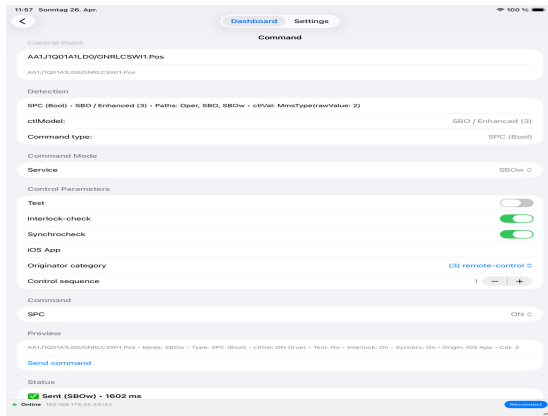
- The app automatically detects the command type, for example Direct Operate, SBO, or SBOw.
- Only the inputs and switches required for the selected object are displayed.
- After sending, the app reports whether the command was acknowledged or rejected by the IED.



Command Selection



Automatic Command Options



Execution Details

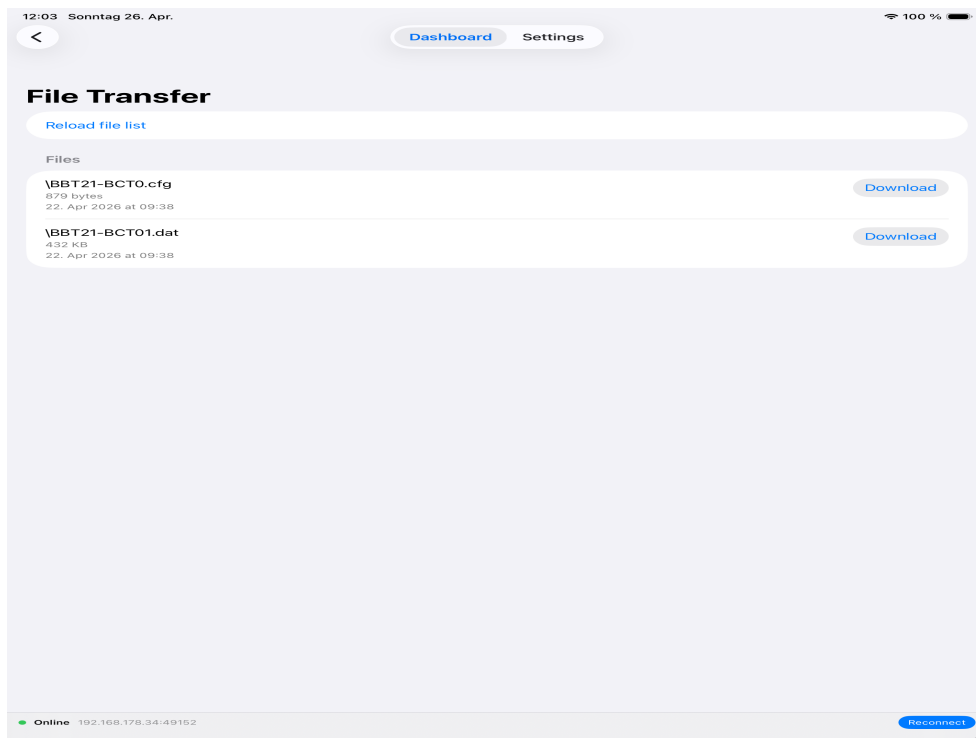
Note

The command details shown in the app depend on the selected object and on the command type provided by the IED.

6. Download Files from the IED

In File Transfer, the files released by the IED are displayed. Depending on the manufacturer, these may include disturbance records, CID files, or other exported files.

- Tap **Download** to save the selected file.
- Files can then be shared with other apps or processed further.



File Transfer

Quick Summary

Recommended Workflow

1. Check the network interface and Keep Display on setting in Settings
2. Optionally use the scanner to find devices
3. Connect to the desired IED via Go Online
4. Use Show IED Data for monitoring
5. Use Test Commands and File Transfer as needed