



# Wireless Installer

## User's Guide

Revision 1.0  
September 2, 2014

## Copyright

© 2014 LigoWave

This user's guide and the software described in it are copyrighted with all rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form by any means without the written permission of LigoWave.

## Notice

LigoWave reserves the right to change specifications without prior notice.

While the information in this manual has been compiled with great care, it may not be deemed an assurance of product characteristics. LigoWave shall be liable only to the degree specified in the terms of sale and delivery.

The reproduction and distribution of the documentation and software supplied with this product and the use of its contents is subject to written authorization from LigoWave.

## Trademarks

LigoWave logo is trademark of LigoWave LLC.

All other registered and unregistered trademarks in this document are the sole property of their respective owners.

# Contents

Copyright .....	2
Notice .....	2
Trademarks .....	2
<b>CONTENTS.....</b>	<b>3</b>
<b>ABOUT THIS GUIDE .....</b>	<b>4</b>
Definitions, Acronyms and Abbreviations.....	4
<b>INSTALL WIRELESS INSTALLER APP .....</b>	<b>5</b>
Start Wireless Installer Application.....	6
<b>WIRELESS INSTALLER CONTROLS.....</b>	<b>7</b>
Import AP from WNMS.....	8
Import PTP from LinkCalc .....	10
Import Coordinates from Google Earth .....	12
Enter Coordinates Manually .....	14
Device Configuration.....	16
<b>UNINSTALL WIRELESS INSTALLER APP .....</b>	<b>18</b>

## About This Guide

### Definitions, Acronyms and Abbreviations

The following typographic conventions and symbols are used throughout this document:



Additional information that may be helpful but which is not required.



Important information that should be observed.

**bold**

Menu commands, buttons, input fields, links, and configuration keys are displayed in bold

*italic*

References to sections inside the document are displayed in italic.

`code`

File names, directory names, form names, system-generated output, and user typed entries are displayed in constant-width type

# Install Wireless Installer App

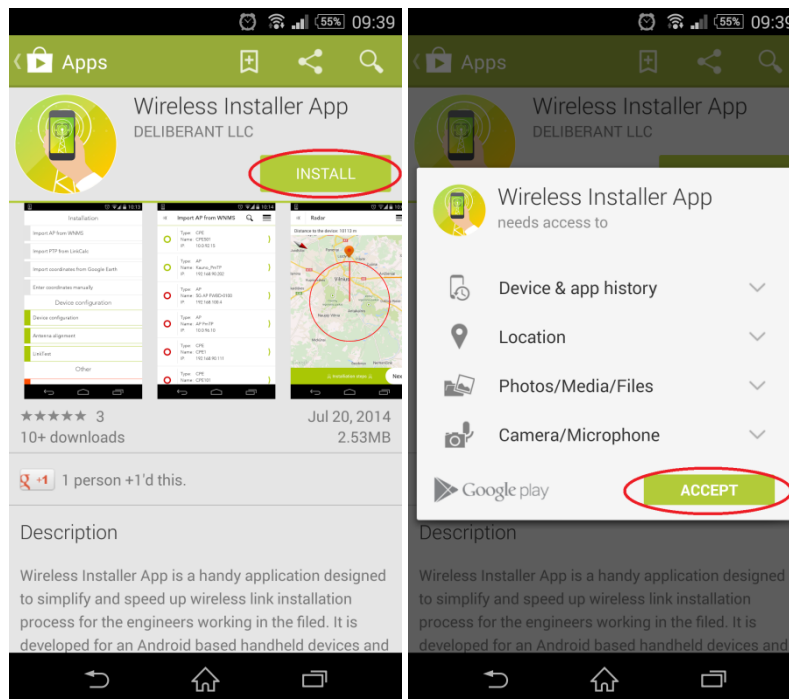
Wireless Installer application is a handy application designed to simplify and speed up wireless link installation process for the engineers working in the field.

System requirements:

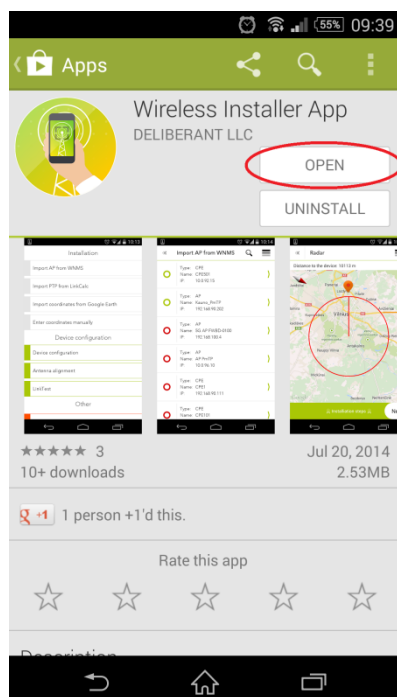
- Android tablet or smartphone with back/primary camera and GPS support
- Android version 4.0 or later
- Internet connectivity

Follow the steps for easy installation of the Wireless Installer application:

**Step 1.** Find the Wireless Installer App on Google Play Store and install it:




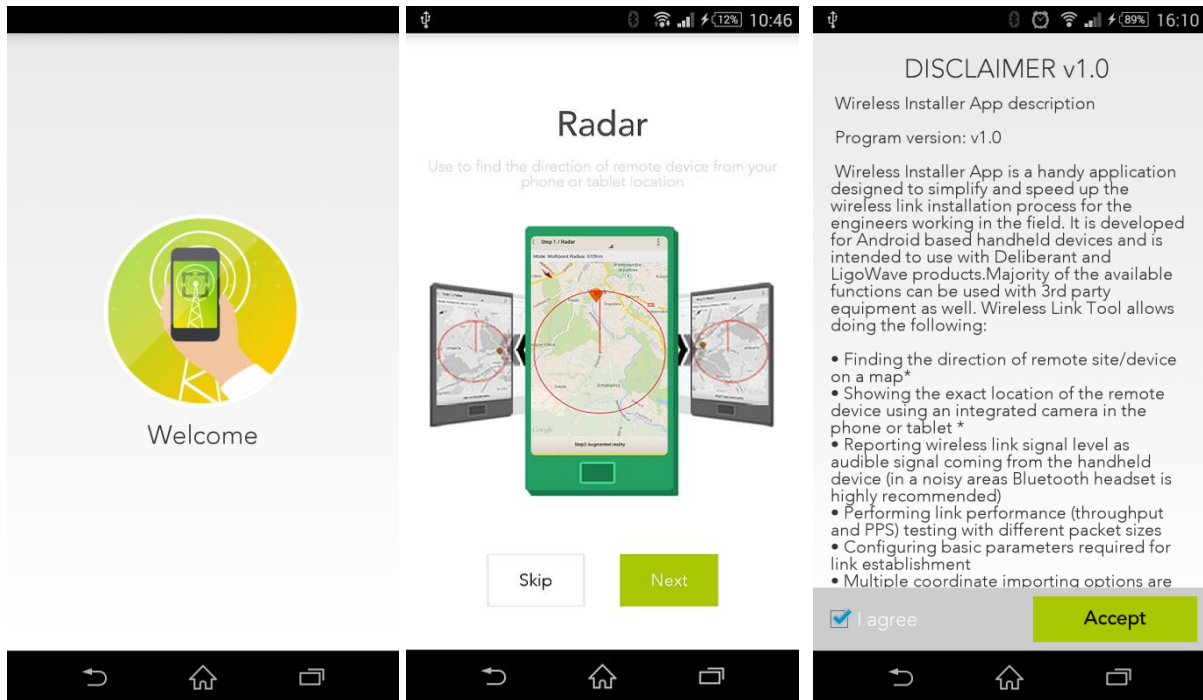
**Step 2.** The Wireless Installer application has been successfully installed:



## Start Wireless Installer Application



To start Wireless Installer application, simply click the icon , sign the user agreement and the main window of the application will be displayed:



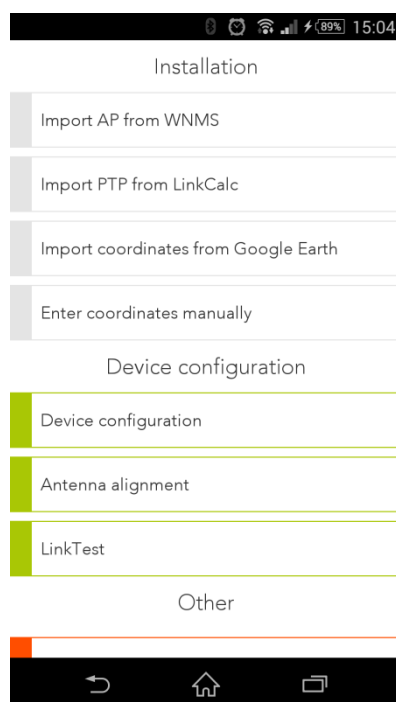
## Wireless Installer Controls

Using the Wireless Installer application it makes easy to align and test devices on link installation. First, the GPS coordinates of the remote device must be imported on the application. This can be done in four ways:

- Import AP from WNMS
- Import PTP from LinkCalc
- Import coordinates from Google Earth
- Enter coordinates manually

After the coordinates of the remote device are imported to the Wireless Installer App, the mobile device is ready for installation and aligning. The following actions can be performed on the remote device:

- Configure device (change main parameters)
- Antenna alignment
- LinkTest

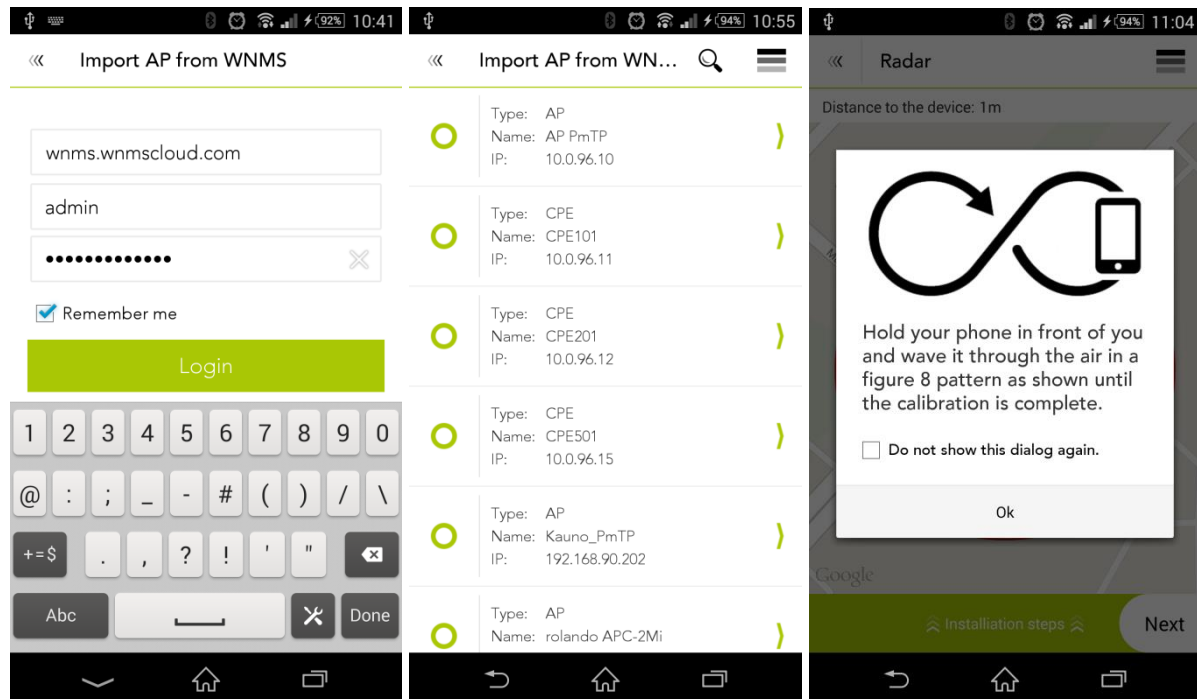


## Import AP from WNMS

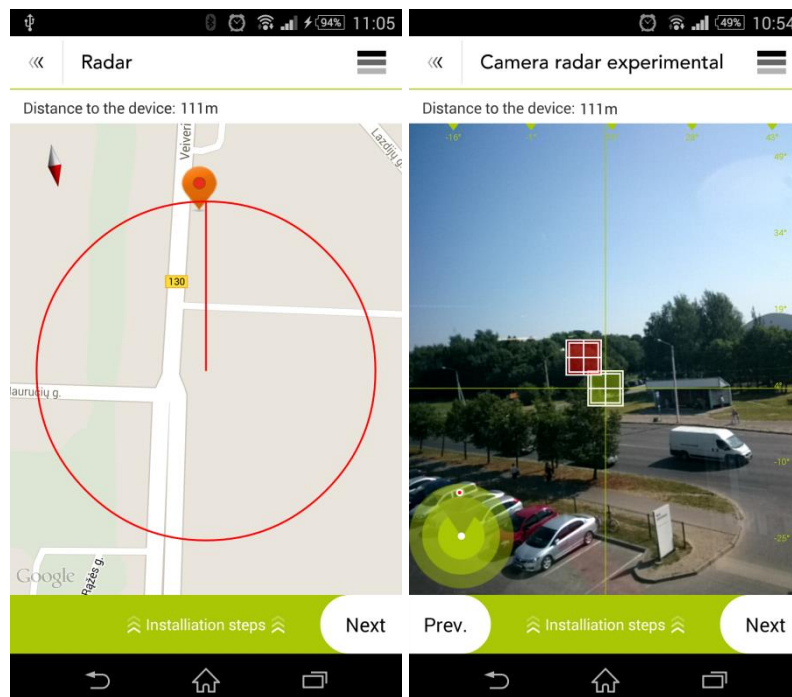


The correct coordinates (longitude, latitude and height AGL) of the remote device must be provided in the device configuration in order to achieve the best aligning results.

If the required device is configured on WNMS server, simply login into the specified WNMS server, select the proper device by touching it on the list and it will be ready for control:



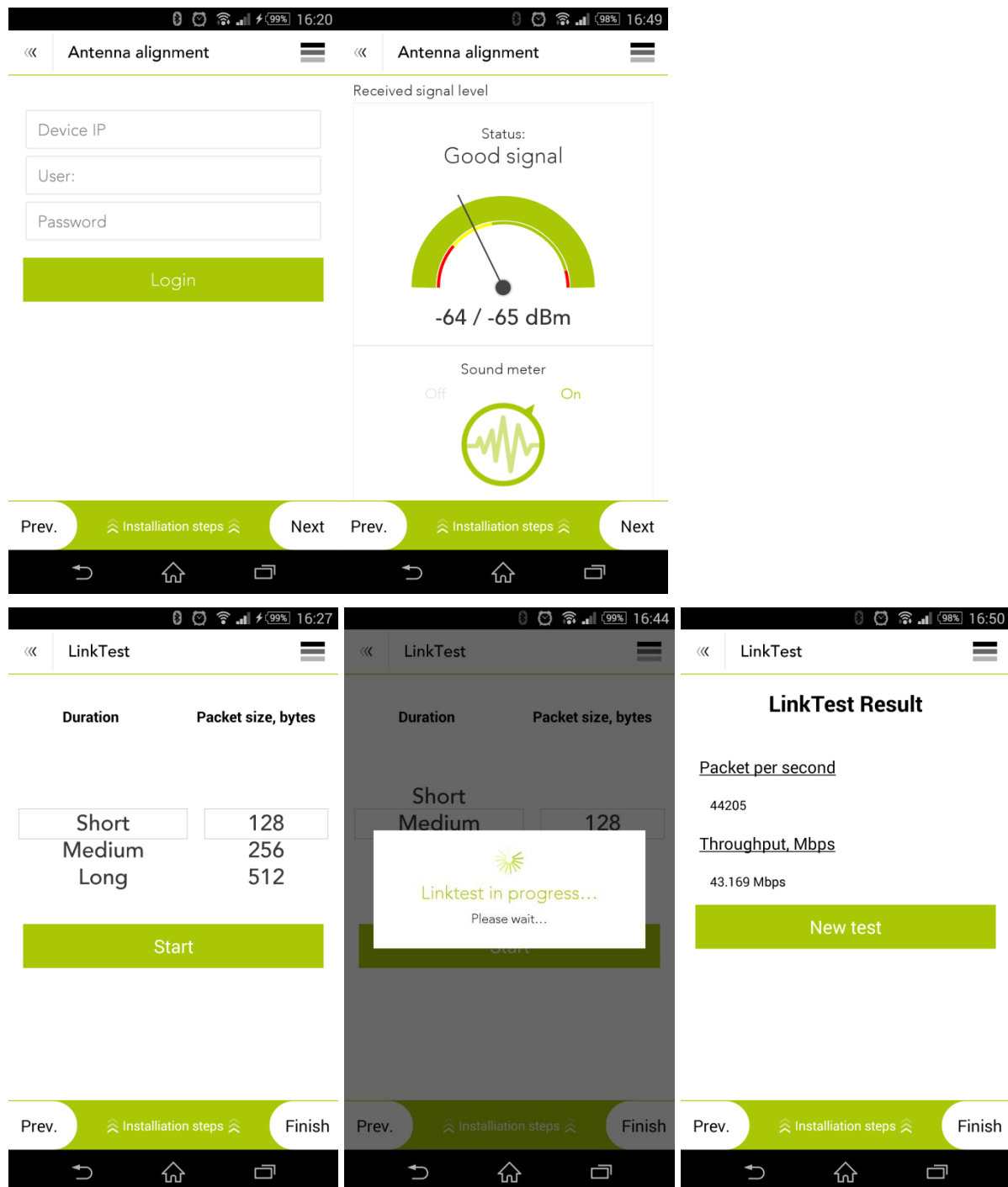
After the location of the mobile device has been determined, place the phone/tablet on the local device (in parallel to the antenna) and target the device using the mobile phone/tablet for aligning.



Radar is used to find the direction of the remote device along horizon. Camera radar is used to align and tilt the device.



After the device has been aligned, login into the one devices of the link and measure the signal level by using Antenna Alignment and/or perform the Link Test with chosen parameters (duration and packet size):



## Import PTP from LinkCalc

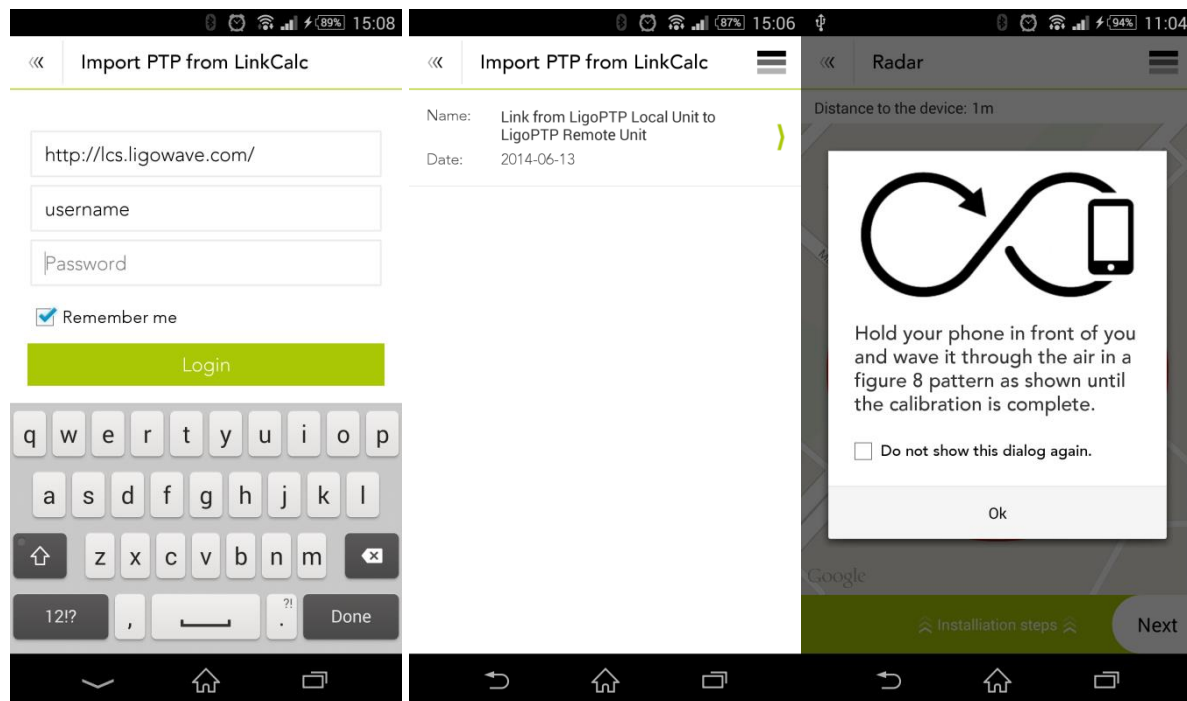


The correct coordinates (longitude, latitude and height AGL) of the remote device must be provided in the device configuration in order to achieve the best aligning results.

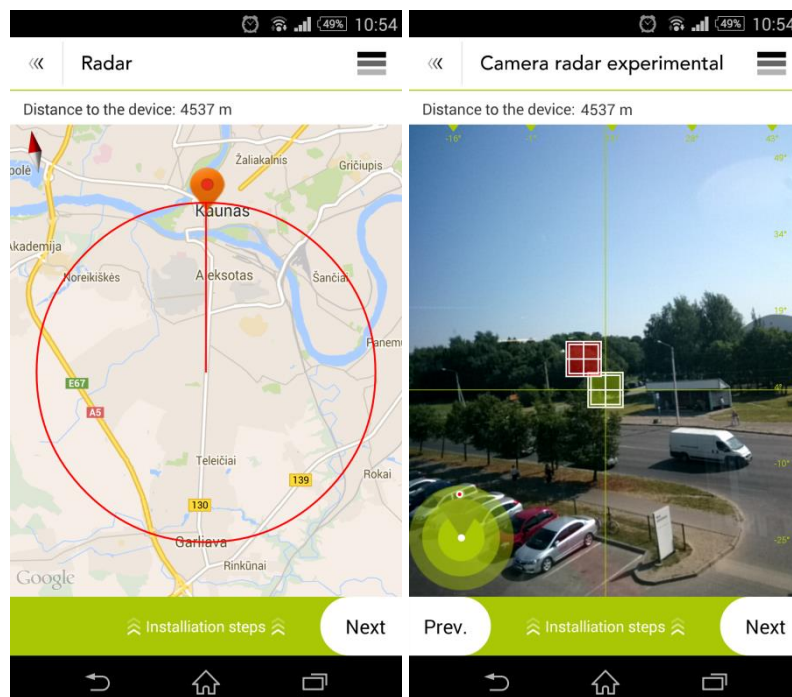


The PTP link must be registered in LinkCalc.

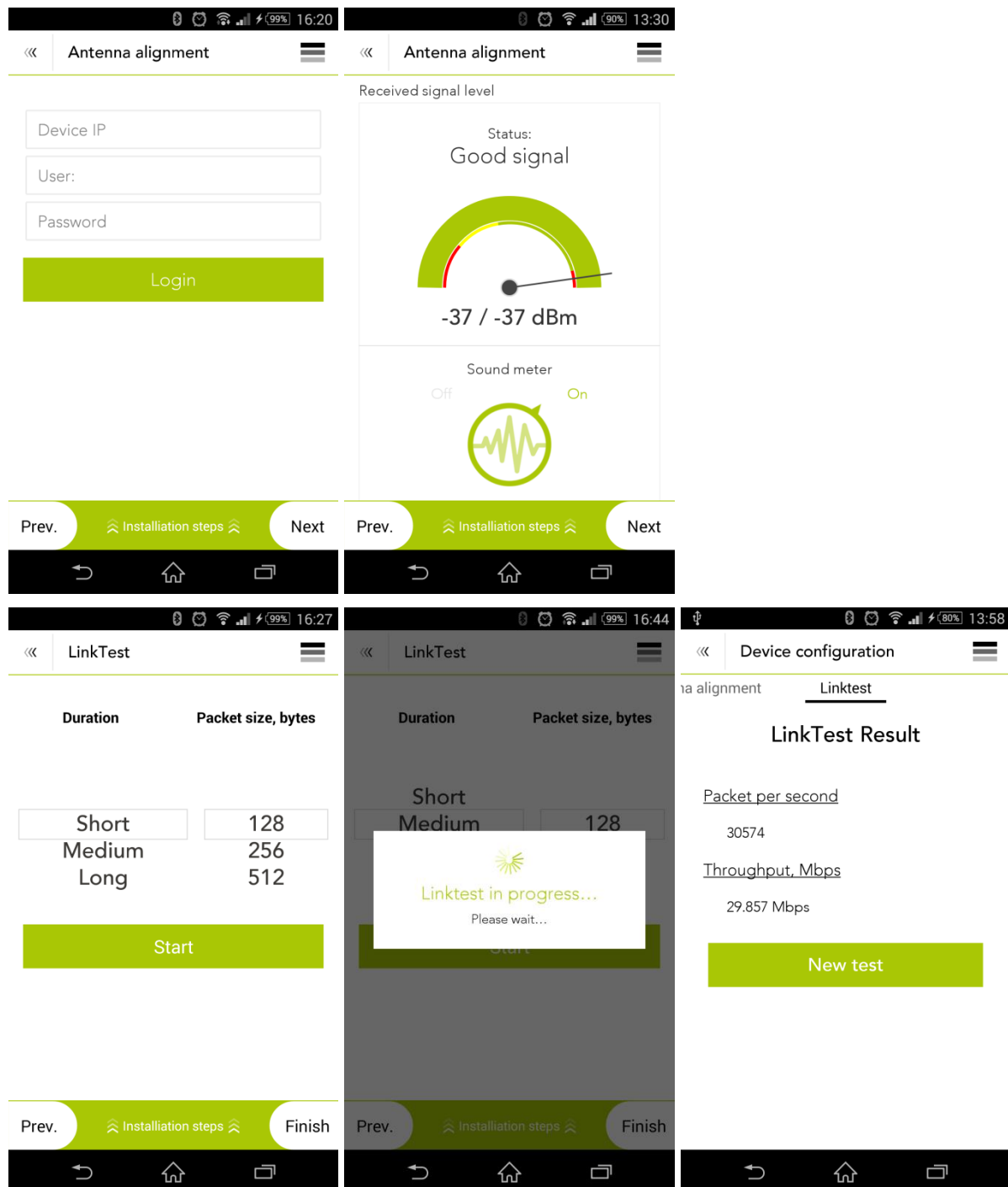
If the required PTP link is successfully registered on LinkCalc, simply specify login credentials, login to the LinkCalc, select the required link by touching it on the list and it will be ready for control:



After the location of the mobile device has been determined, place the phone on the local device and target the device using the mobile phone for aligning.

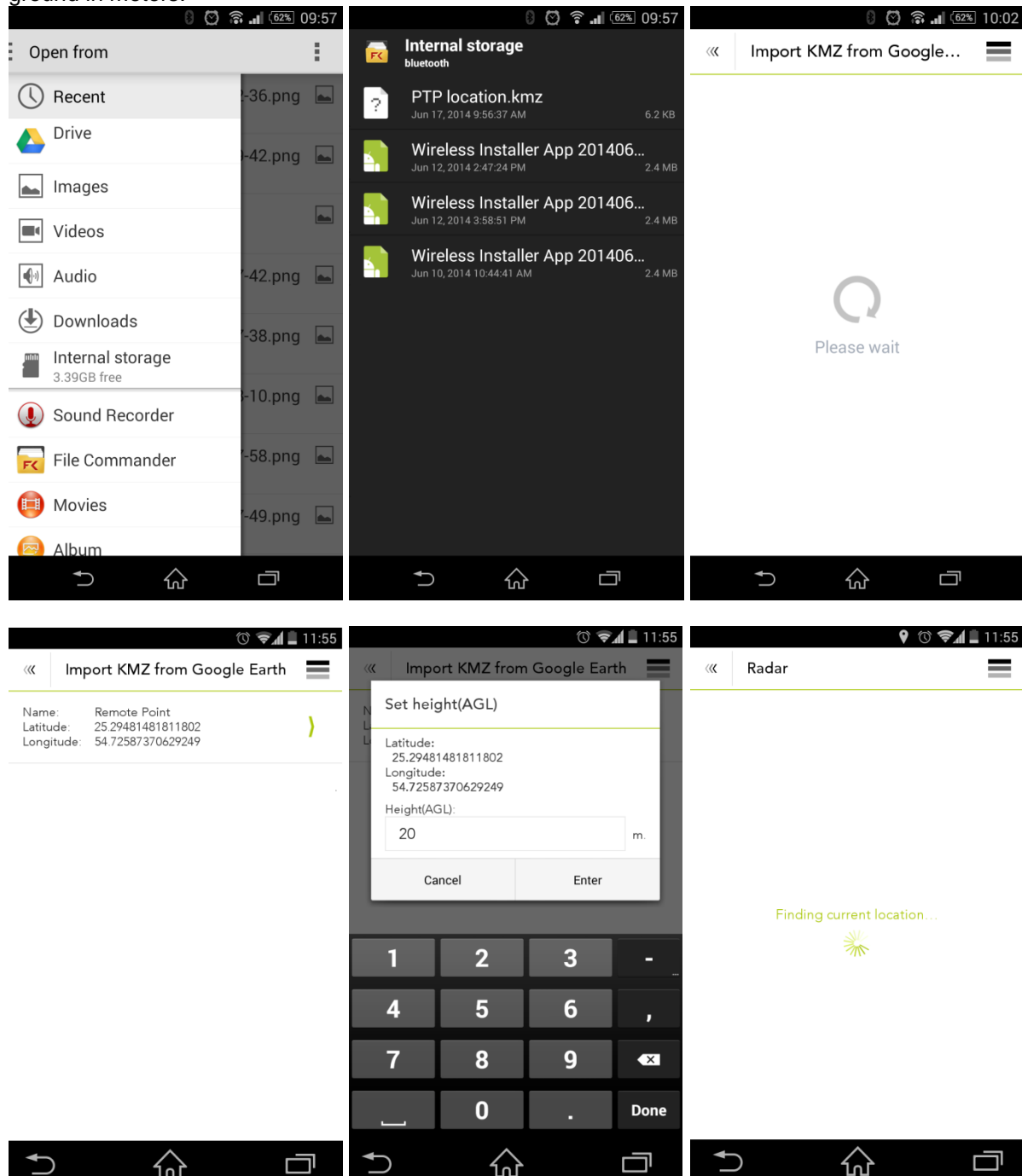


After the endpoint of the link has been aligned, login into the one devices of the link and measure the signal level by using Antenna Alignment and/or perform the Link Test with chosen parameters (duration and packet size):

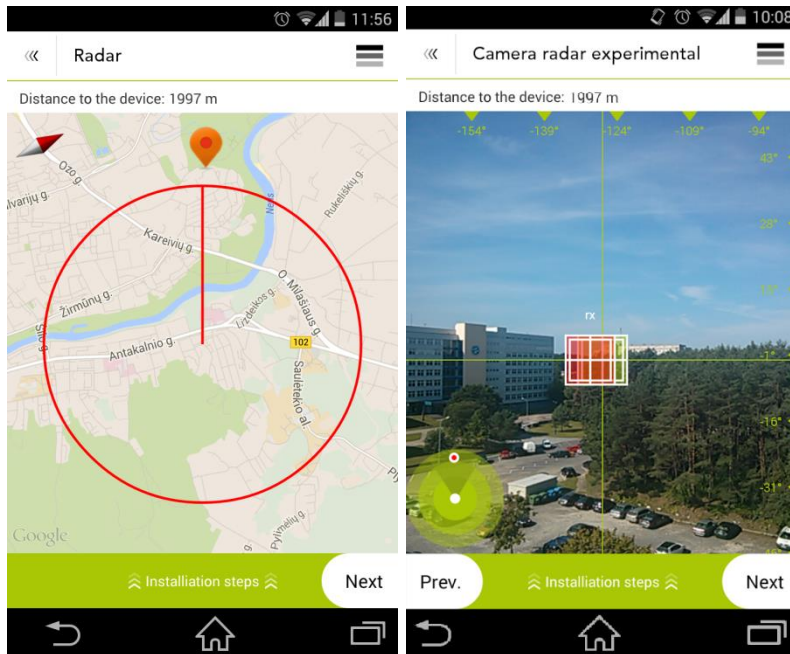


## Import Coordinates from Google Earth

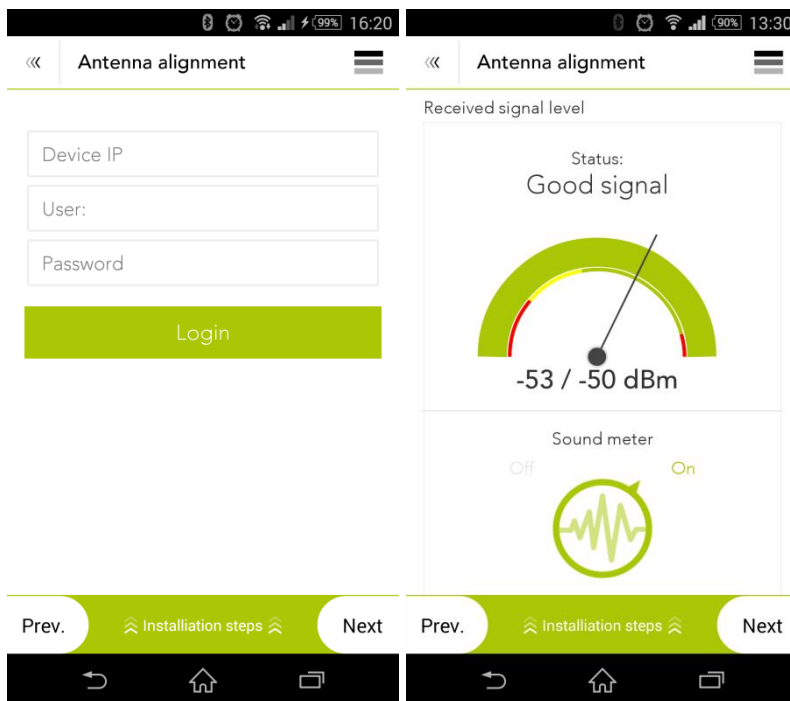
The Wireless Installer application contains possibility to import remote device coordinates from the Google Earth specific .kmz file. Select the .kmz file, upload it and specify the device Height above the ground in meters:

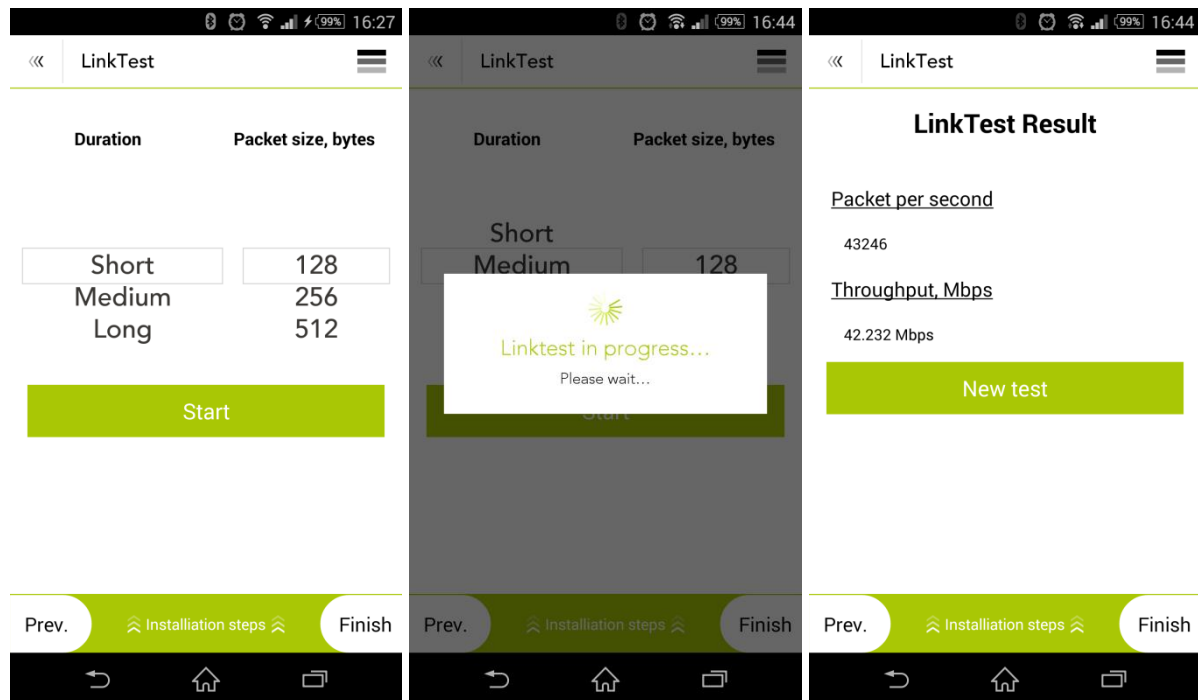


After the location of the mobile device has been determined, place the phone on the local device and target the device using the mobile phone for aligning.



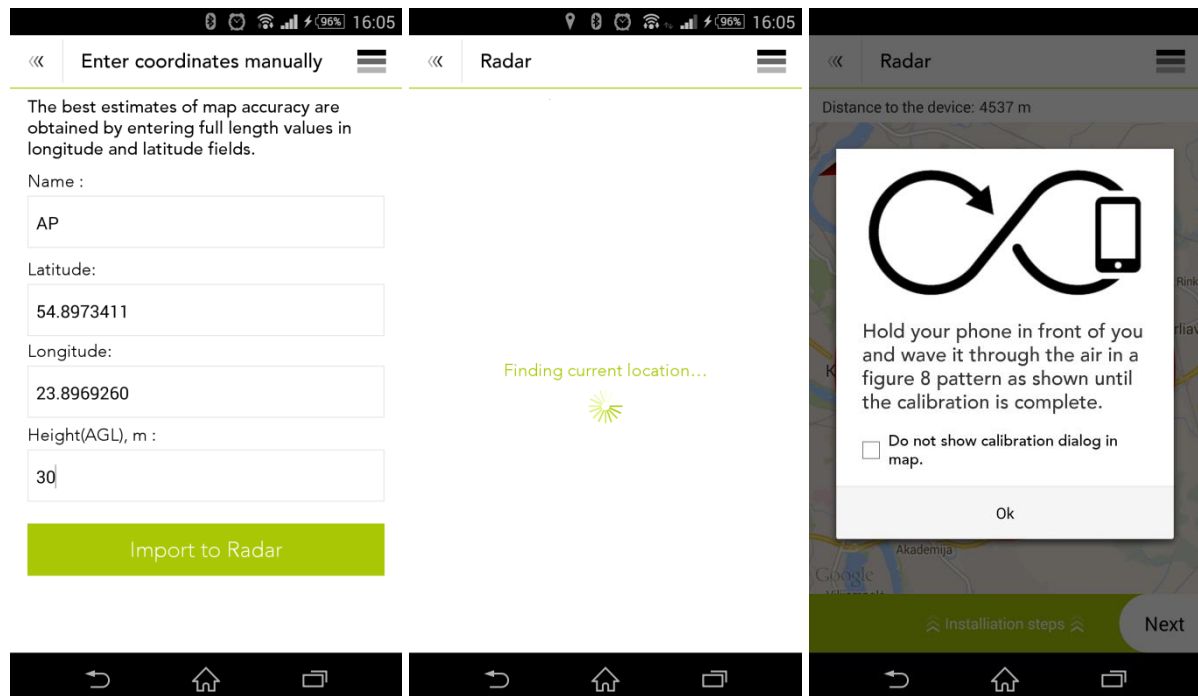
After the device has been aligned, login into the one of the devices of the link and measure the signal level by using Antenna Alignment and/or perform the Link Test with chosen parameters (duration and packet size):

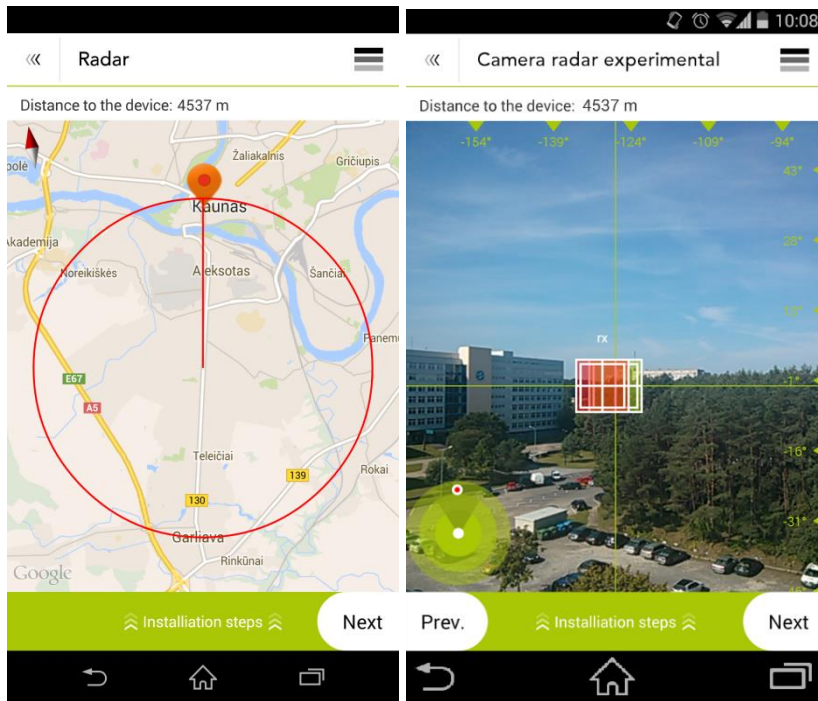




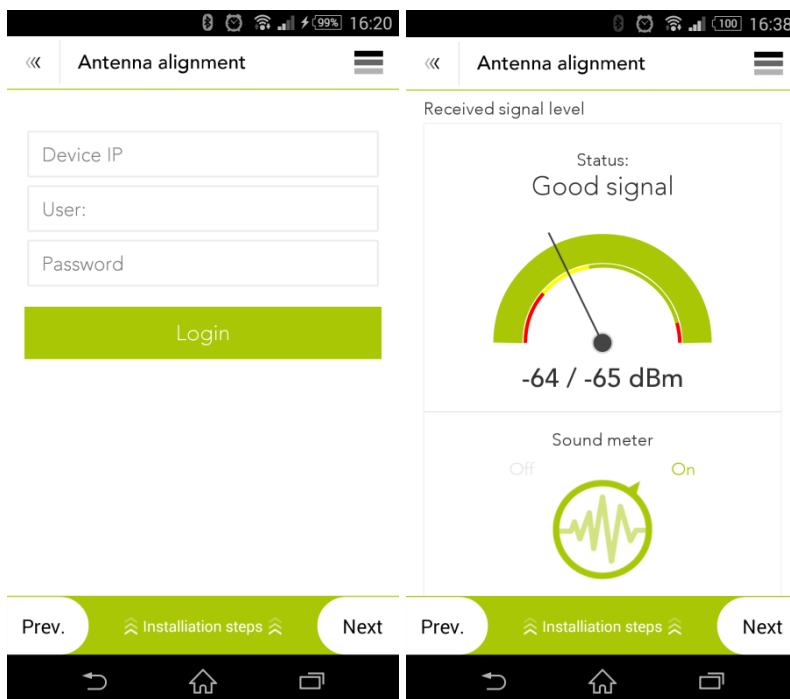
## Enter Coordinates Manually

There is possibility to import remote device coordinates manually. Specify the accurate longitude, latitude and the height AGL of the remote device and target the device using the mobile phone:





After the device has been aligned, login into the one of the devices of the link and measure the signal level by using Antenna Alignment and/or perform the Link Test with chosen parameters (duration and packet size):



LinkTest

Duration

Packet size, bytes

Short

128

Medium

256

Long

512

Start

LinkTest Result

Packet per second

43824

Throughput, Mbps

42.797 Mbps

New test

Prev. Installation steps Finish

↶

🏠

📄

Prev. Installation steps Finish

↶

🏠

📄

## Device Configuration



The **Device configuration** section will always display settings of the latest associated device (imported from WNMS, LinkCalc, or entered manually). In order to access other device, click Logout button in menu on the upper right corner first.

Access the device's basic parameters by providing it's IP and login credentials. Use the **Device configuration** menu, to login to the device, where some of the main parameters are listed and ready for configuration, if necessary:

Configuration

Device IP

Username

Password

Login

Device configuration

Network settings

Antenna

Wireless mode:

AP

SSID:

ptmp

Security :

WPA2PSK

Encryption :

AES

Passphrase :

11223344556677889911223344

Frequency, MHz :

5765

↶

🏠

📄

↶

🏠

📄

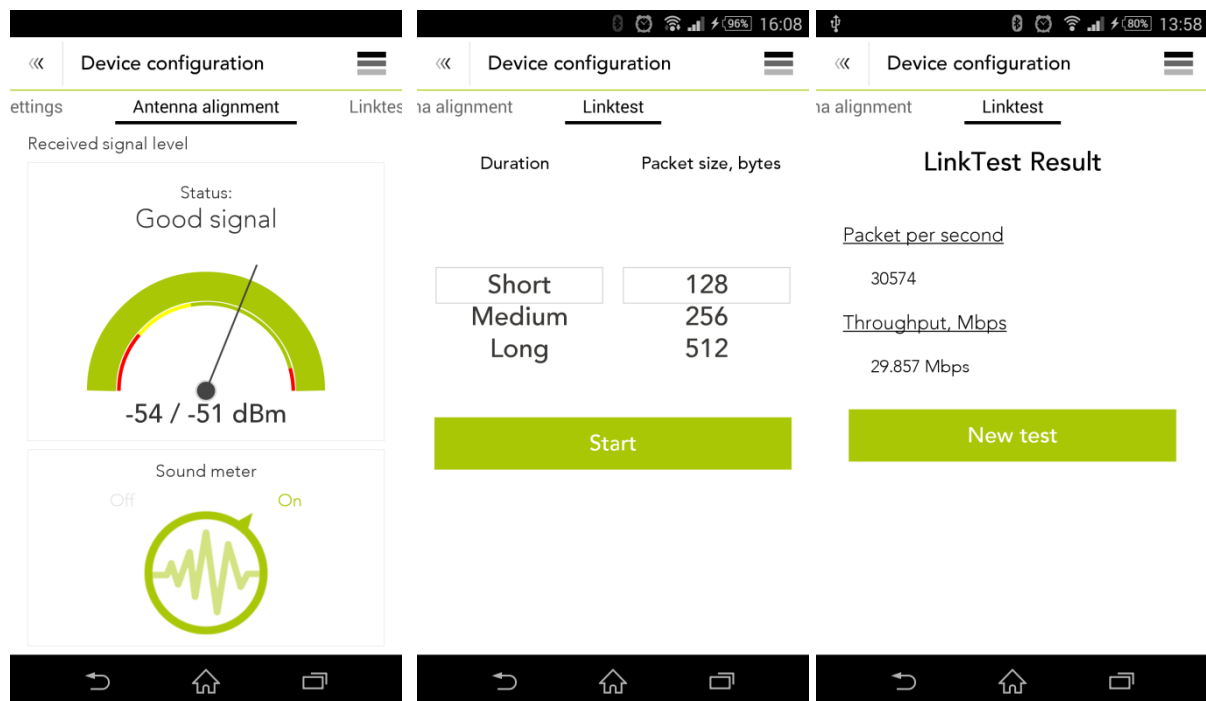


The following settings are retrieved from the device configurations and are ready for change:

- **Wireless mode**
- **SSID**
- **Security**
- **Frequency**
- **IP address**
- **Subnet mask**
- **Gateway**
- **Firmware revision** (not changeable)

After some changes were done, click  button to save configuration on the device.

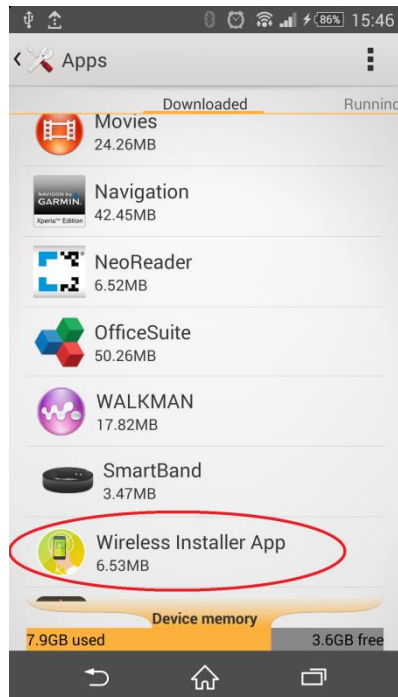
Additionally, the Antenna Alignment (with or without sound effects) and the Link Test (by choosing Duration and Packet sizes) can be performed on the device if the link with another endpoint is established.



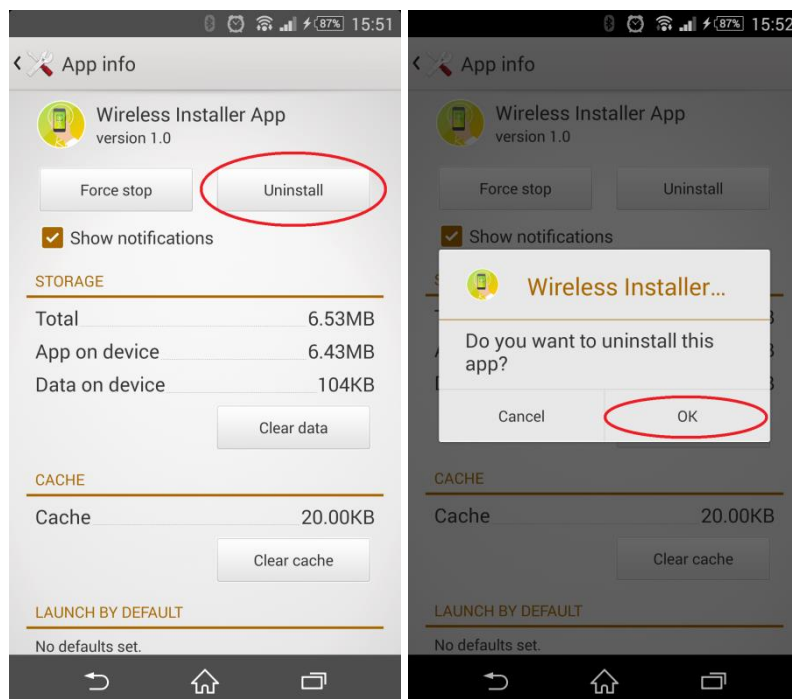
## Uninstall Wireless Installer App

The Wireless Installer application can be easily uninstalled from your phone or tablet.

**Step 1.** Visit your device's **Settings** menu > **Apps** or **Application manager** (this may differ depending on your device).



**Step 2.** Touch the Wireless Installer App for uninstalling and select **Uninstall** button:



**Step 3.** The Wireless Installer application has been uninstalled from your device successfully.