WNMS Mobile Application

User's Guide

Revision 1.0

December 12, 2013

Copyright © 2013 LigoWave www.ligowave.com

Copyright

© 2013 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
CONTENTS 3
ABOUT THIS GUIDE 4
Purpose 4
Definitions, Acronyms and Abbreviations 4
INTRODUCTION 5
WNMS MOBILE INSTALLATION 6
Start WNMS Mobile 7
WNMS MOBILE CONTROLS 8
Inventory Tab 8
Register Device 8
Inventory Filter 9
Alerts Tab 9
Alerts Profiles 9
Alerts 10
Alerts Filter 10
TODO Tab 11
Assign TODO Task 11
TODO Notification 12
Manage TODO Task 13
Filter TODO Task 13
UNINSTALL WNMS MOBILE 14

About This Guide

Purpose

This document provides information and procedures on installation, setup, configuration, and management of the PTP unit.

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

Introduction

WNMS Mobile is Android based client application for devices monitored by WNMS (Wireless Network Management System) server. WNMS Mobile is designed for network operating center coordinators, maintenance and support engineers. It identifies network and node problems and can delegate a responsible person to help resolve the issues quickly. This WNMS client program provides mobile convenience and also reduces OPEX of the company.

WNMS mobile version 1.0 does the following:

- Lists the availability of networks and devices;
- Marks each device location on a map;
- Registers the devices into WNMS. The program can read the coordinates from an Android device if necessary;
- Lists all devices' alerts;
- Allows the ability to assign a task (ToDo) for a person;
- Notifies responsible person though push notification service when a task is assigned, reassigned, completed, or rejected;
- Provides flexible data filtering capabilities.

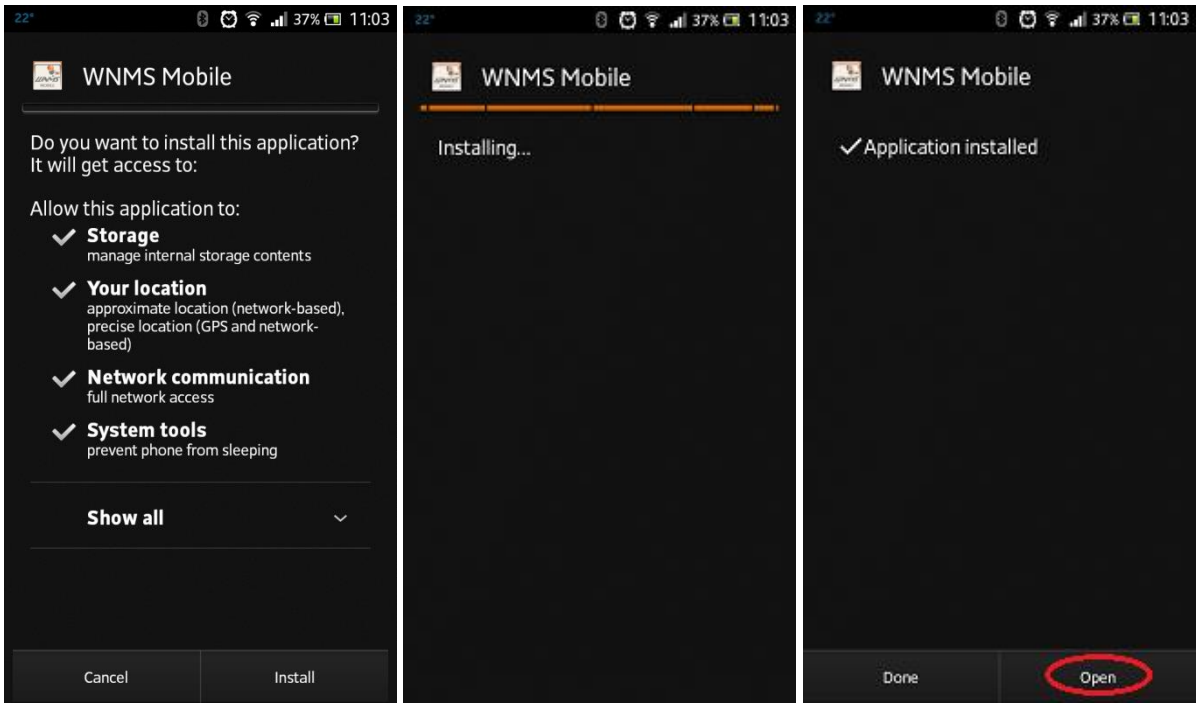
WNMS Mobile requires Android version 2.3 or later and works with any kind of WNMS server: WNMS standalone for Windows or Linux, WNMS Cloud Free and WNMS Cloud Premium.

WNMS Mobile Installation

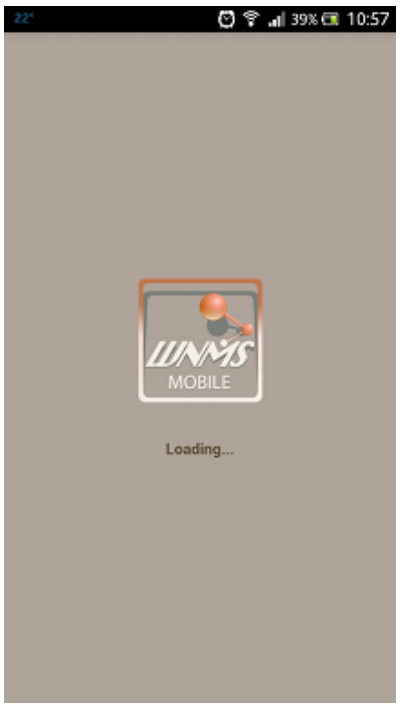
Follow the steps for easy installation of the WNMS Mobile application:

Step 1. Download WNMS Mobile installation package on your Android based mobile phone.

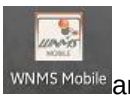
Step 2. Run the installation package on mobile phone as follows:



Step 3. The WNMS Mobile application has been successfully installed:



Start WNMS Mobile

To start WNMS Mobile application, simply click the application icon 

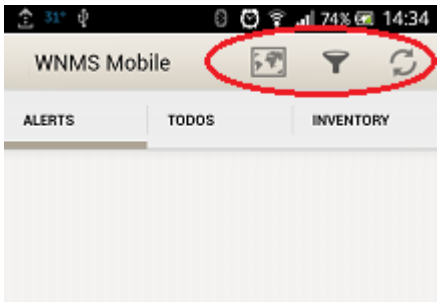
and the login screen will appear:

WNMS Server URL - enter a valid URL of the WNMS server IP address

Name - enter a valid administrator's username of the WNMS server.

Password - enter a valid administrator's password of the WNMS server.

After login in the WNMS Mobile, the main Alerts page is displayed:



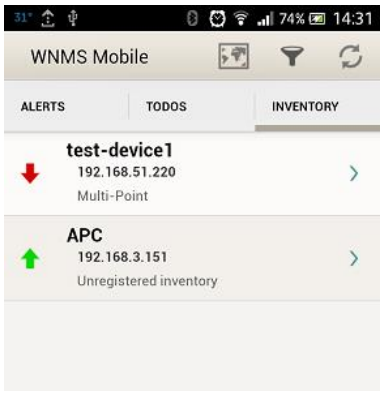
The following controls are available on the WNMS Mobile:

- **Maps** - displays map with located registered devices.
- **Filter** - to create filters on Alerts, TODO or Inventory tabs.
- **Refresh** - click to refresh information on current tab.

WNMS Mobile Controls

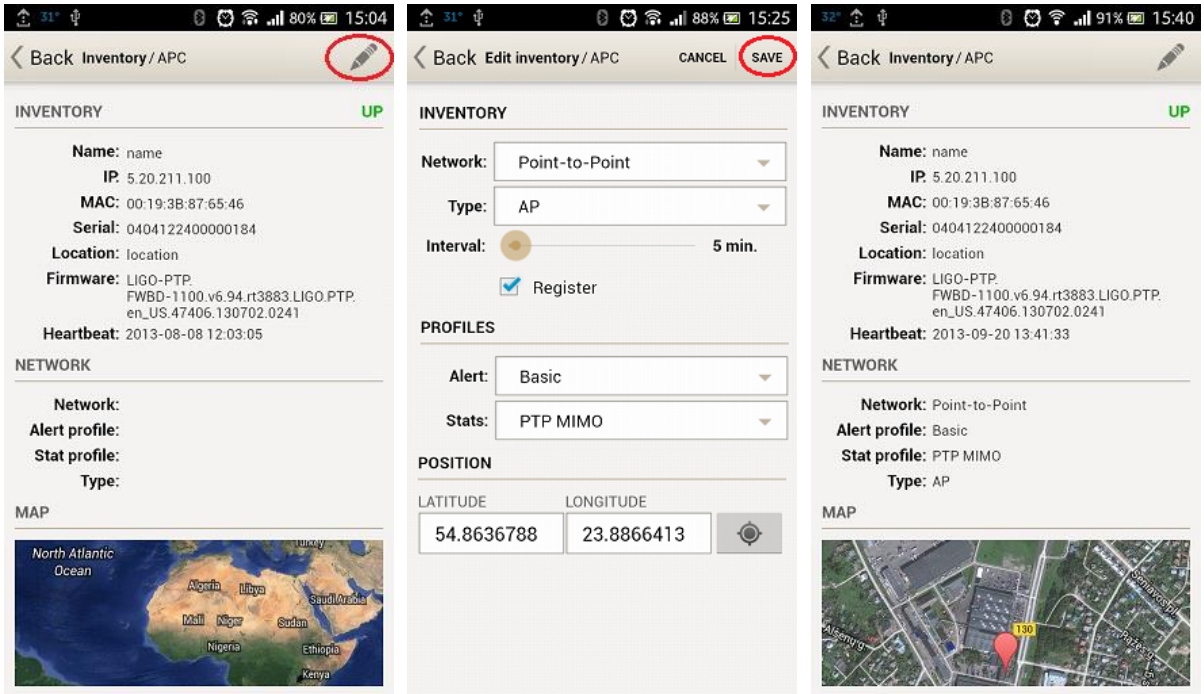
Inventory Tab

All devices connected to the particular WNMS server are listed under the **Inventory** tab of the WNMS Mobile application:



Register Device

To register device, click on the device under the **Inventory** tab to load it properties, click the pen icon and fill the required fields:



Network - assign the device to preconfigured network.

Type - assign the device type.

Interval - choose the heartbeat interval at which the device will send the information to the WNMS server.

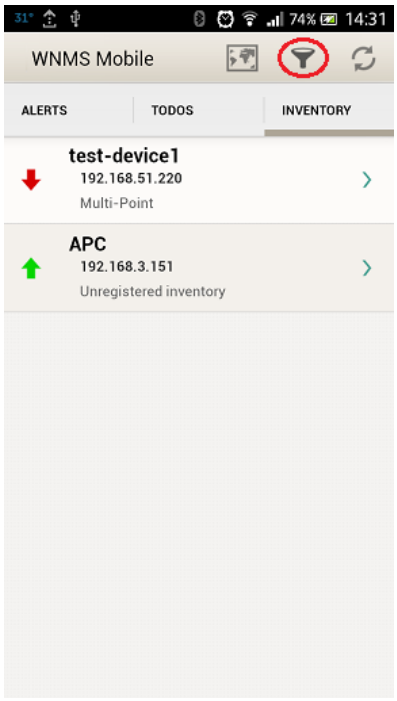
Alert Profile - assign the alert profile. Note that only those alerts, preconfigured on particular alert profile will be reported.

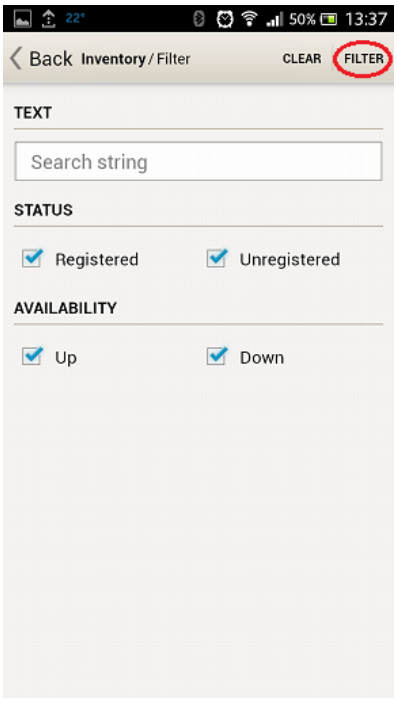
Stats profile - assign the statistics profile for the device.

Position - specify the coordinates of the device (longitude and latitude), or simply click the target icon to set current position of the mobile phone.

Inventory Filter

WNMS Mobile application has possibility to filter list of the devices:





Alerts Tab

The source of alerts is the Alert Profile, assigned to the device on registration.

Alerts Profiles

WNMS server has two default predefined Alert Profiles, which includes following standard Alert Definitions:

Basic alert profile:

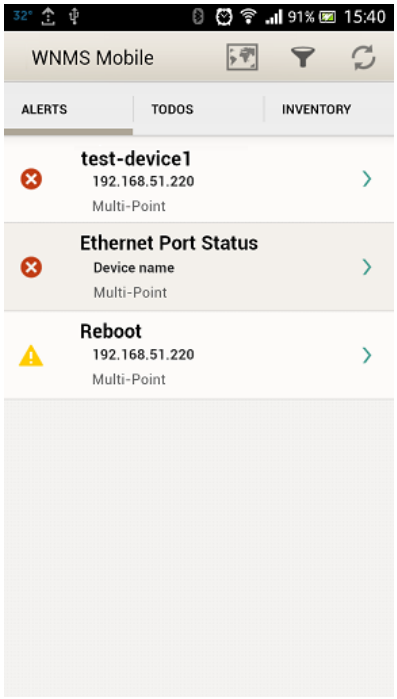
- **Device availability (up/down)** – *critical* – alerts on device state change: up/down.
- **Ethernet port status** – *critical* – alerts on Ethernet port state change: up/down.
- **Radio status** – *critical* – alerts on Radio port state change: up/down.
- **Reboot** – *warning* – alerts on device reboot.
- **RSSI** – *warning* – alerts if RSSI threshold is below 20.

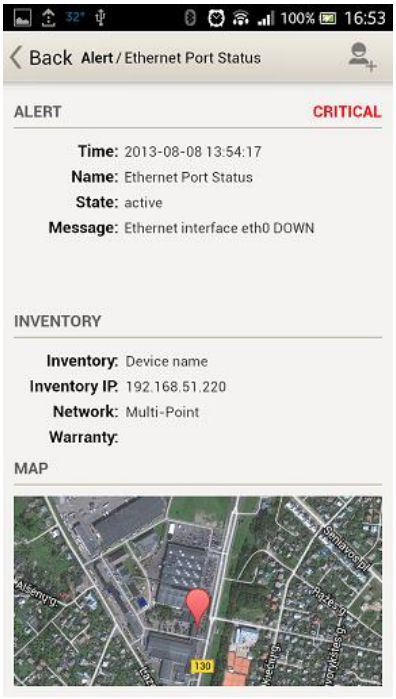
Extended alert profile:

- **Device availability (up/down)** – *critical* – alerts on device state change: up/down.
- **Ethernet port status** – *critical* – alerts on Ethernet port state change: up/down.
- **Radio status** – *critical* – alerts on Radio port state change: up/down
- **Reboot** – *warning* – alerts on device reboot.
- **RSSI** – *warning* – alerts if RSSI threshold is below 20.
- **Frequency change** – *warning* – alerts on frequency change.
- **Noise level** – *warning* – alerts if Noise level is above -80 dBm.
- **RX packet drop %** – *warning* – alerts if RX packet drop becomes larger than 5%.
- **TX Retry %** – *warning* – alerts if TX packet retry becomes larger than 5%.
- **Warranty expired** – *warning* – alerts when the warranty is expired already.
- **Warranty expiring soon** – *informational* – alerts if warranty expires within a 30 days.
- **Radio peer count** – *informational* – alerts if number of radio peers is larger than 20.

Alerts

Load the WNMS Mobile application to view all received alerts. Tap on the actual received alert and the detailed alert information will be displayed:



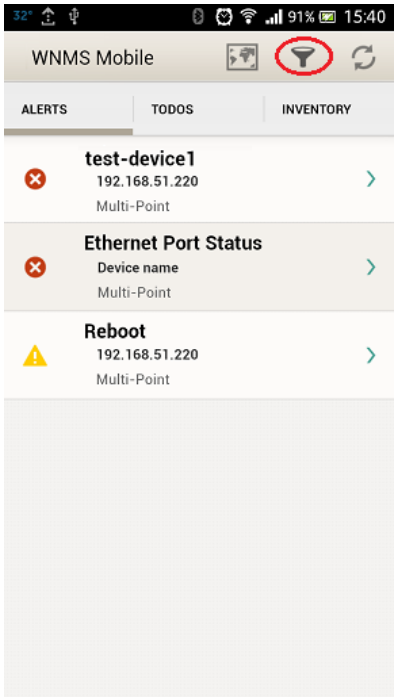


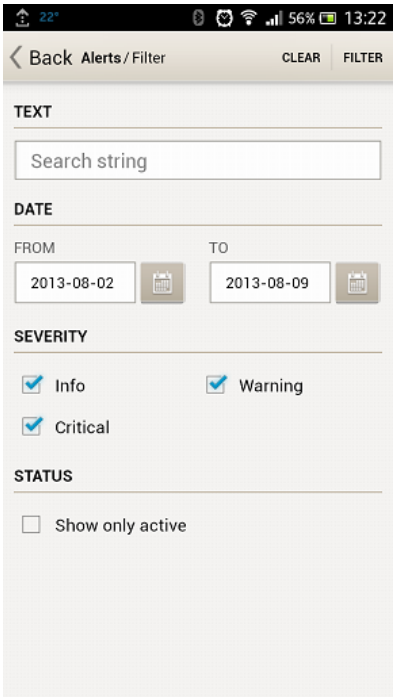
There are three severity levels of alarms:

- **critical** is marked
- **warning** is marked
- **informational** is marked

Alerts Filter

The received alerts can be filtered in order to find required alerts:



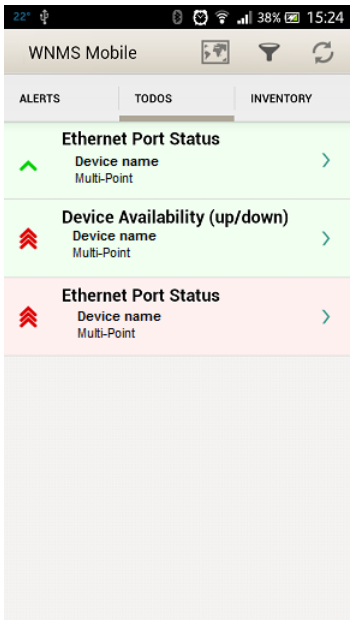


TODO Tab

WNMS Mobile has possibility to assign certain tasks for administrators which are configured as users on the WNMS server. After the new TODO task is assigned for the user, the particular user will get personal notification by the WNMS Mobile application about assigned tasks. The TODO list is colored according the state of the tasks:

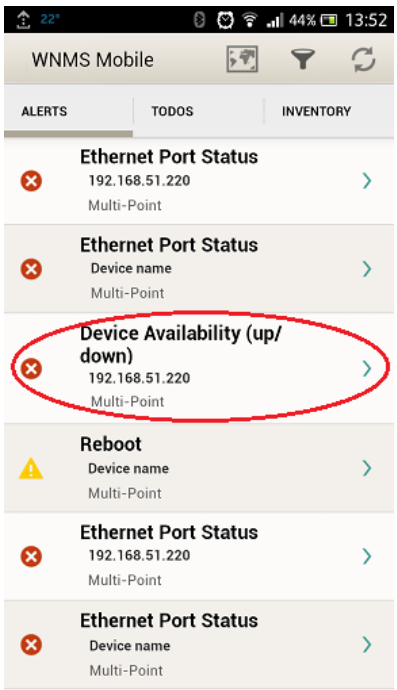
- **green** colored - TODO task is completed
- **red** colored - TODO task is marked as cannot complete
- **grey** colored - TOD task is in progress

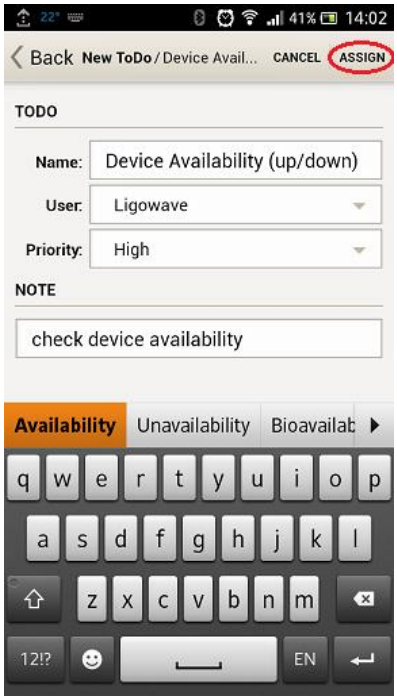
Each TODO task has specific icon, marking the priority of the particular task: Low priority, Medium priority, High priority.

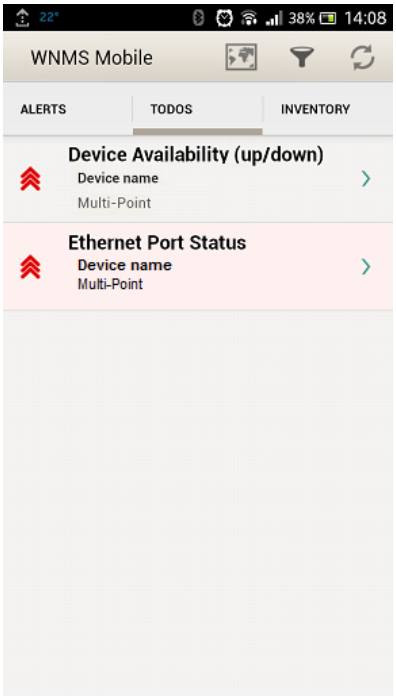


Assign TODO Task

Click the required alert on the Alert tab and click on Task icon to assign certain task for user:

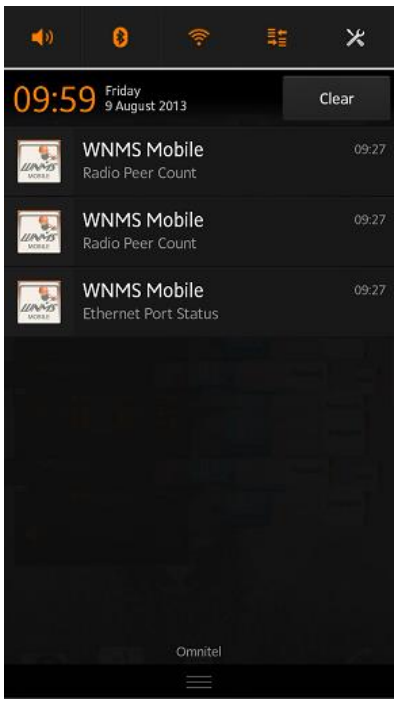






TODO Notification

After the TODO was assigned, the administrator will get notifications on the mobile phone by the WNMS Mobile application:

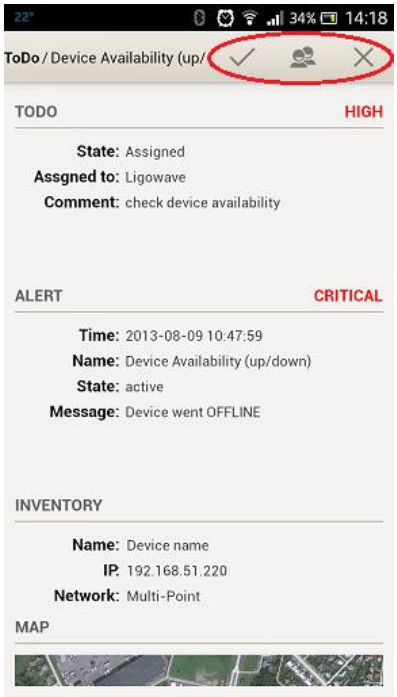


Manage TODO Task

After the task was assigned to the user, there are 3 options to manage task:

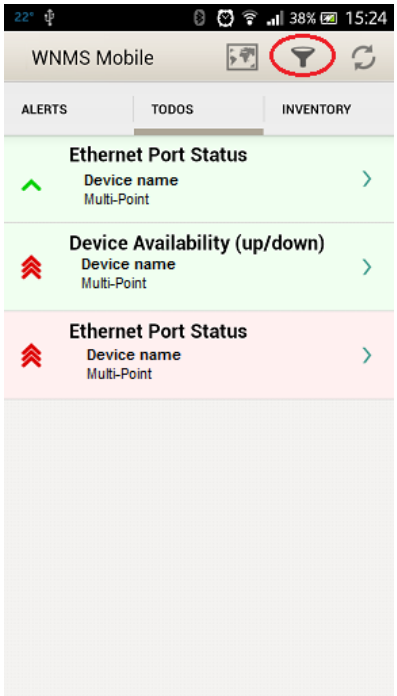
- mark as **completed**
- **reassign** task to another user
- mark as **cannot complete**

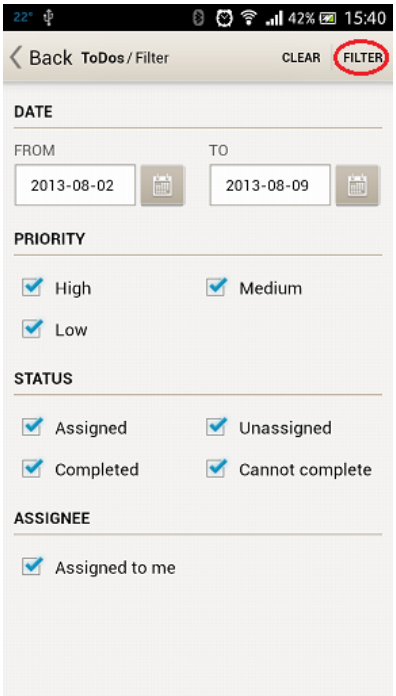
Administrator logged in the WNMS Mobile application must navigate on TODO list and finish the task:



Filter TODO Task

WNMS Mobile user has possibility to filter TODOS list:

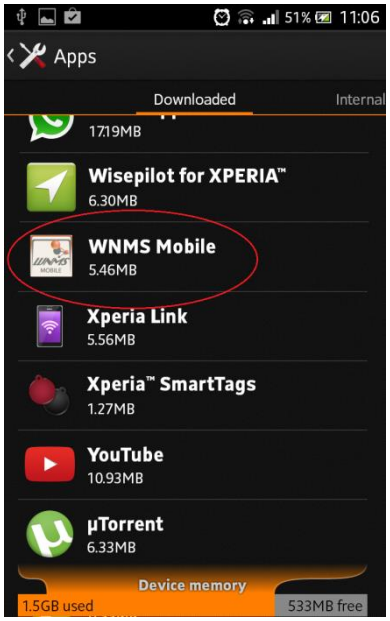




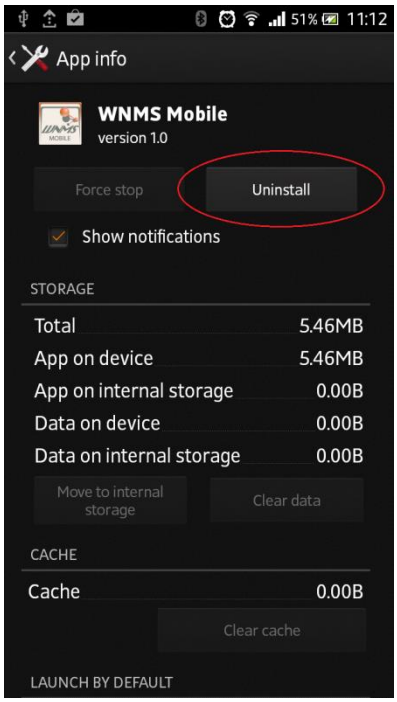
Uninstall WNMS Mobile

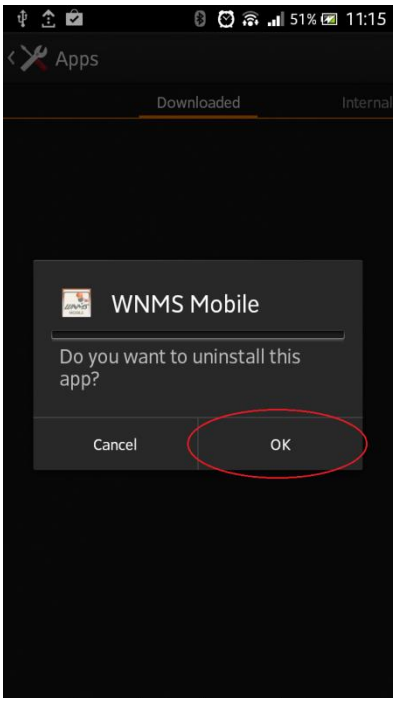
The WNMS Mobile application can be easily uninstalled from your phone or tablet.

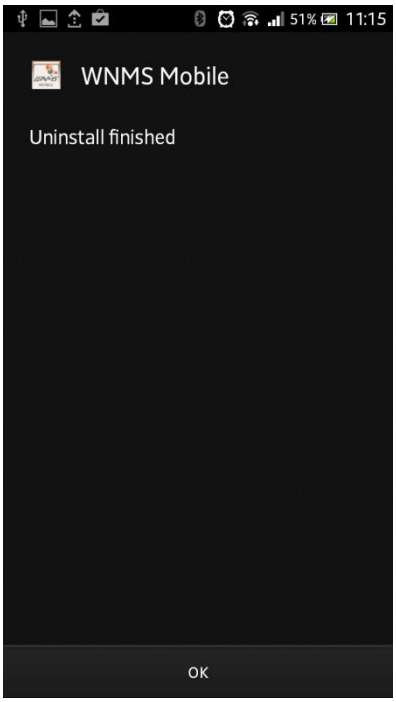
Step 1. Visit your device's **Settings** menu > **Apps** or **Application manager** (this may differ depending on your device).



Step 2. Touch the WNMS mobile application for uninstalling and select **Uninstall button:**







Step 3. The WNMS mobile application has been uninstalled from your device successfully.