



# **Release Notes RTLS-Tools Version 1.1.1**

**1.2**

NA-19-0241-0018

**Document Information**

Document Title:	Release Notes RTLS-Tools 1.1.1
Document Version:	1.2
Current Date:	2020-11-30
Print Date:	2020-11-30
Document ID:	NA-19-0241-0018
Document Author:	ALAG

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# 1. Introduction

RTLS-Tools is a suite of software tools with a graphical interface which facilitates the setup, operation and maintenance of nanotron's RTLS. It is composed of the following applications:

- nanoANQ Configurator to configure and update anchors
- nanoLES Configurator to configure positions, sections and nanoLES 3 parameters
- nanoLES Controller to operate, record and playback trace files as well as getting health status information of the system
- VisiTool to visualize real-time position information
- SLMP Server to visualize the nanoLES 3 result port in structured ASCII data

## 2. System Requirements

### 2.1. Operating systems supported

RTLS-Tools supports following operating systems (OS)

- Windows 8
- Windows 10

### 2.2. Hardware requirements

#### 2.2.1. PC requirements

Required is a PC with following minimum HW requirements:

- 1.60 GHZ i5-4200U
- 2 Cores, 4 threads
- 8 GB RAM
- 100 Mbit/s network connection
- AVX (Intel® Vector Extensions) support

**Note:** In order to support AVX (Intel® Vector Extensions) the CPU should not be older than 2011.

#### 2.2.2. nanoLES 3 requirements

The nanoLES 3 is able to read old configuration files, but converts them, after saving a backup, in a configuration file handled by nanoLES 3 ver-3.2.0 or above. Those new configuration files will lead to error messages by older nanoLES 3 versions and the service will not start.

**Note.** Depending on the number of the anchors and monitored tags, nanoLES 3 may require a more powerful hardware. Moreover, it is recommended to use Windows Server as operating system. For more details refer to [1].

#### 2.2.3. Anchor requirements

These requirements are necessary to operate with nanoLES 3 ver-3.2.0.

- Any Chirp dual channel anchor with firmware version 2.0.10 or above
- Any UWB dual channel anchor with firmware version 1.2.0 or above

#### 2.2.4. swarm bee requirements

These requirements are necessary to operate with nanoLES 3 Ver-3.2.0:

- Any swarm bee LE V2 with firmware version 3.0.8 or above

- Any swarm bee ER with firmware version 3.2.0 or above

### 3. About this Release

The installer contains following versions of the applications.

- nanoANQ configurator ver-1.1.0
- nanoLES configurator ver-1.1.0
- nanoLES controller ver-1.1.0
- VisiTool ver-1.1.0
- SLMP ver-1.0.1

It contains also the user guide and other related information.

### 4. Changed and New Features

This release is new and contains all applications mentioned in section 1.

#### Features

- Support Chirp and UWB technologies
- Anchor discovery
- Anchor configuration
- Anchor firmware update
- Anchor names
- Anchor positions
- Setup RTLS server parameters
- Anchor antenna delays and attenuations
- Create sections
- Associate anchors to sections
- Global and section dependent settings
- nanoLES 3 parametrization
- Sanity check of the nanoLES 3 configuration file
- Real time moving tags visualization including custom background map
- Independent section views including all sections
- Different radio technology dependent anchor colors
- Breadcrumb traces for each tag
- Different tag shape and color settings
- Health monitoring
- Throughput information
- Start/stop nanoLES 3 engine
- Start/stop recording or playback trace files
- Save/restore configurations

### 5. Unsupported or Obsolete Features

- The Node Configuration Device (NCD) has been removed from the RTLS-Tools (previously called nanotron Toolbox 3) and has been rebranded as the OTA-Configurator and is now available as an independent entity.

### 6. Known Issues, Limitations & Restrictions

#### 6.1. Fixed Issues

- None

## 6.2. Known Issues

- None

## 6.3. Limitations

- None

## 6.4. Restrictions

- None

## 6.5. Hints

- None

# 7. Deployment Instructions

RTLS-Tools is delivered in a self-extracting installer file. The installer allows to change from the default installation folder to another one. Follow the instructions of the installer. RTLS-Tools can be uninstalled via the windows program manager.

# 8. Related Documentation

## 8.1. RTLS-Tools User Guide V 3.2.0

The RTLS-Tools User Guide contains all necessary information to operate the different applications. It guides the user through the different views, menus and buttons. Refer to [2].

## 9. References

- [1] Release Notes RTLS-Tools 1.2.0 Doc. ID NA-19-0241-0018
- [2] RTLS-Tools User Guide V 3.3.0 Doc. ID. NA-16-0241-0047

## Document History

Date	Author	Version	Description
2019-09-30	MBO	1.0	Initial version
2019-10-01	MBO	1.1	Added NCD features



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