

R&S® NrpzSanitizer

NRP-Zxx Power Sensor sanitization

Release Notes

Application Version 2.17

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81671 Munich, Germany
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1 Information on the Current Version and History

General information

The R&S NrpzSanitizer software can be used to declassify the R&S NRP-Zxx power sensors by sanitizing user data according to the memory sanitization requirements specified in the “Clearing and Sanitization Matrix” in Section 14.1.16 of the ISFO “Manual for the Certification and Accreditation of Classified Systems under the NISPOM”.

This document describes the installation procedure for the R&S®NrpzSanitizer. It furthermore describes the differences between the several software versions. The most current version of the application can be obtained from www.rohde-schwarz.com.

1.1 Version 2.17.3

Released: August 2018

New Functions

- Added an additional warning text that calibration data gets lost during sanitization. Thus, sensor will need re-calibration after sanitization

1.2 Version 2.17

Released: November 2016

New Functions

- GUI functions reduced to sanitization of sensor User Data
- New command-line option ‘-r <sensor-resource-string>’ which leads to GUI-less operation. This is for using the NrpzSanitize application in scripted environments

1.3 Version 1.0

Released: August 2009

Initial release

2 Software Installation and Operation

This section describes the installation of the NrpzSanitizer software on a Microsoft® Windows based PC. Additionally, the section contains information on the software packages, prerequisites and uninstalling.

Prerequisites

- Microsoft Windows® 7 or later is necessary for the NrpzSanitizer
- It is recommended that you use the latest version of the NrpzSanitizer software, provided at the R&S website <http://www.rohde-schwarz.com>
- Close all running applications before installing
- The so called NRP-Toolkit package is to be installed. The NRP-Toolkit is the driver-suite for R&S® NRP-Zxx series USB power sensors. If this package is not installed, an application is unable to communicate with the power sensors. NRP-Toolkit can be obtained from the R&S website http://www.rohde-schwarz.com/en/software/nrp_s_sn/

2.1 Installation and Operation



NrpzSanitizer requires at least 50 MB of free disk space.

2.1.1 Installation

1. Download or copy the latest version of NrpzSanitizer setup program from the R&S website <http://www.rohde-schwarz.com>. At the time of this writing, version 2.17.2 was current.
2. Execute `NrpzSanitizer_SetupV2.17.2.exe`, and follow the instructions of the setup wizard.

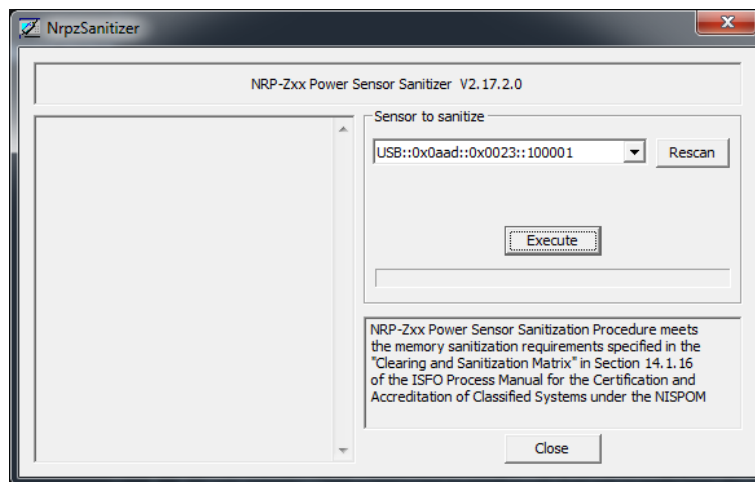
During installation, the setup program:

- installs the "Microsoft VC Runtime libraries", which may take some time
- provides selection of the destination directories for the NrpzSanitizer application files and documentation
- checks whether a reasonably new NRP-Toolkit is installed on the PC and informs the user if an action is required to update or install the NRP-Toolkit

2.1.2 Launching NrpzSanitizer

The installation routine created a start menu entry for the application under

Start > All Programs > R&S NrpsSanitizer > NRP-Zxx Sanitizer
Use that entry for a normal launch of the application.



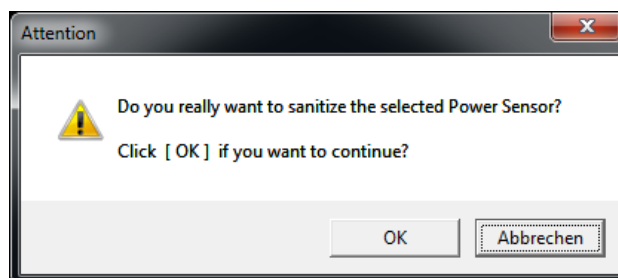
Note:

Make sure that no other application is running which also uses NRP-Zxx power sensors, for example, the Virtual Power Meter NRPV or the **NrpTerm** Terminal program which comes with the NRP-Toolkit. The NRP-Zxx power sensor can be used only by one application at a time

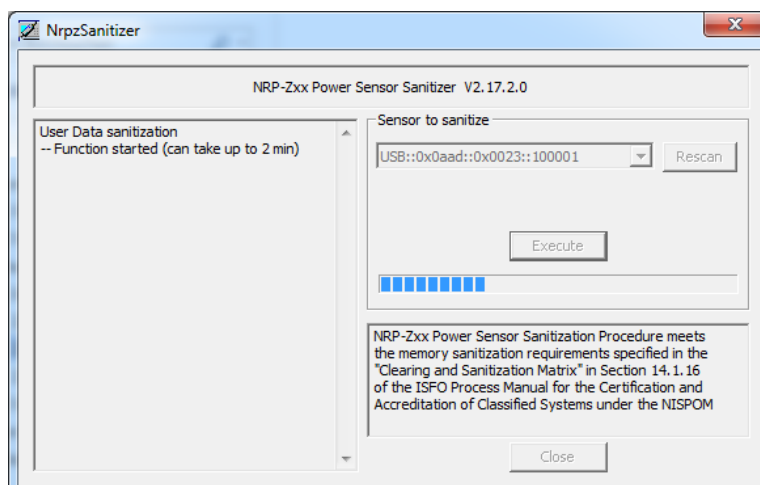
This application provides the sanitization of the power sensor User Data. That's the area where a user could have stored private or confidential data (encoded in frequency- or attenuation tables, for example). By clicking on the [Execute] button the User Data area will be physically erased and then overwritten with all zero values.

It is recommended to always connect only **one** power sensor at a time for sanitization. If more than one sensor is connected, be sure to select the right sensor from the dropdown box before clicking the [Execute] button.

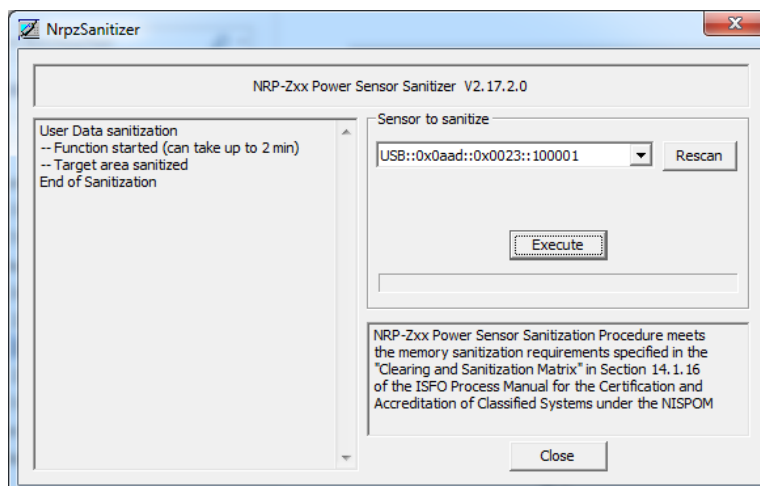
After a click on the [Execute] button a dialog appears which ask the user whether to really start the sanitization. You should confirm this by clicking [OK].



Clicking [OK] starts the sanitization process.



Depending on the NRP-Zxx power sensor model it can take a couple of minutes until the corresponding memory has been erased and overwritten with 'all zero' values. Finally you should see a dialog similar to the following:



2.1.3 GUI-less invocation

The `NrpzSanitizer.exe` program can be used to execute the sanitization from the command-line without a graphical user interface (GUI). The resource identification of the power sensor which is to be sanitized must be given as a program option as explained below. The **NrpzSanitizer** then starts without displaying any user interface. In this case the application executes the same steps as if it was used interactively.

```
start /WAIT NrpzSanitizer -r <resource-string>
```

where the option means:

`-r resource-string` characterizes the power sensor being sanitized. The resource-string contains a vendor ID and a product ID. Vendor ID is always 0x0aad (for Rohde&Schwarz), and the product ID corresponds to the sensor-type. See the table below for a list of possible product IDs. As an example, a

typical resource-string of an NRP-Z81 with serial number 100567 is

```
USB::0x0aad::0x0023::100567
```

Table with Product IDs of R&S NRP-Zxx power sensors:

FSH-Z1	0x000b
FSH-Z18	0x001a
NRP-Z11	0x000c
NRP-Z21	0x0003
NRP-Z22	0x0013
NRP-Z23	0x0014
NRP-Z24	0x0015
NRP-Z27	0x002f
NRP-Z28	0x0051
NRP-Z31	0x002c
NRP-Z32	0x009a
NRP-Z37	0x002d
NRP-Z41	0x0096
NRP-Z51	0x0016
NRP-Z52	0x0017
NRP-Z55	0x0018
NRP-Z56	0x0019
NRP-Z57	0x0070
NRP-Z58	0x00a8
NRP-Z61	0x0097
NRP-Z71	0x0098
NRP-Z81	0x0023
NRP-Z85	0x0083
NRP-Z86	0x0095
NRP-Z91	0x0021
NRP-Z92	0x0062
NRP-Z96	0x002e

NRP-Z98	0x0052
NRP-Z211	0x00a6
NRP-Z221	0x00a7
NRPC40	0x008f
NRPC50	0x0090

2.2 Uninstalling NrpzSanitizer

Uninstallation of the **NrpzSanitizer** application is possible in two ways:

- a) By using the corresponding start menu entry:
Start > All Programs > R&S NrpzSanitizer > Uninstall NRP-Zxx Sanitizer

or

- b) With the aid of the PC's control panel:
 1. Start > Settings > Control Panel
and then open the "Add or Remove Programs" dialog.
 2. Select **R&S NrpzSanitizer** and uninstall the program by selecting "Remove"

3 Open Source Acknowledgement

This software makes use of valuable open source software packages:

TinyXML	http://sourceforge.net/projects/tinyxml/	Zlib License
zlib	http://www.zlib.net/	Zlib License

LINUX® is a trademark of Linus Torvalds.

Rohde & Schwarz would like to thank the open source community for their valuable contribution.

```
/* zlib.h -- interface of the 'zlib' general purpose compression
library
version 1.2.5, April 19th, 2010
```

```
Copyright (C) 1995-2010 Jean-loup Gailly and Mark Adler
```

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```
Jean-loup Gailly
Mark Adler
```

```
*/
```

4 Customer Support

Technical support – where and when you need it

For quick, expert help with any Rohde & Schwarz equipment, contact one of our Customer Support Centers. A team of highly qualified engineers provides telephone support and will work with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz equipment.

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We will take care that you will get the right information.

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