

Network Simulation Tool for Project 25: Inter-RF Subsystem Interface (ISSI) GUI Installation Guide for Linux

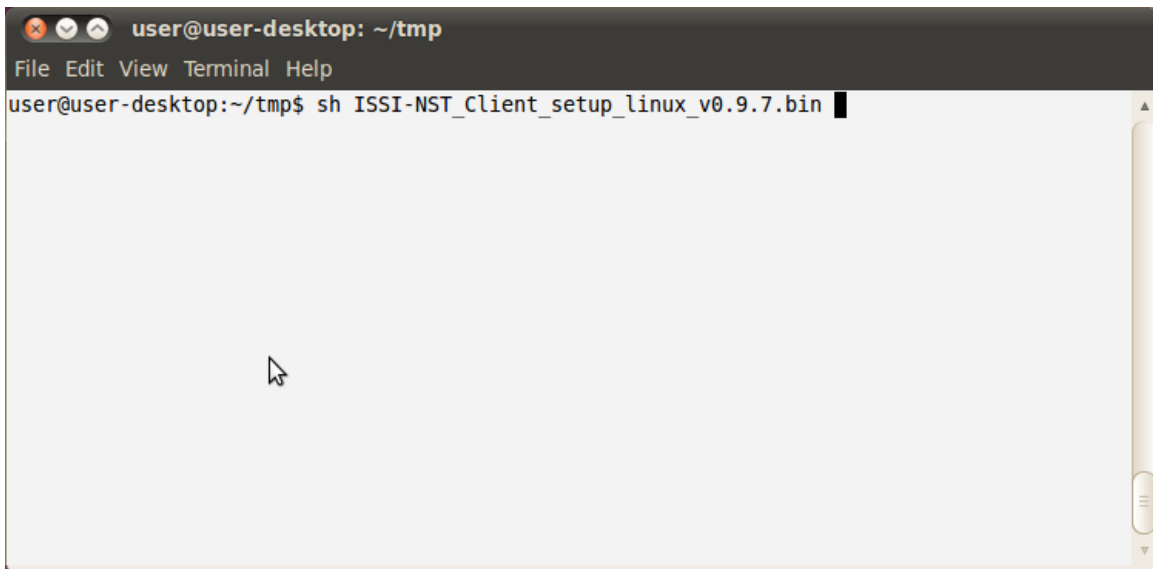
September 30, 2011
GUI version 1.0.0

Linux GUI

The installation of the ISSI-NST client tool in Linux^{1 2} comprises the copy of the required files and the installation of a compatible Java^{TM 3} Runtime Environment if none is found.

First of all, obtain the client installation package available at http://www.nist.gov/itl/antd/emntg/ps_p25_tool.cfm. This package will install the ISSI-NST client, the sample scenarios and the documentation (client and model documentation).

Open a terminal and run the package with '`sh ISSI-NST_Client_setup_linux.bin`', as shown below. **Note: Replace version 0.9.7 with current version being installed.**



Note: You do not need to have administration privileges to perform the installation. However, you will need to have write permission in the target installation directory.

Follow the instructions. The installer will present you the license and ask for the installation path:

¹ Linux is a registered trademark of Linus Torvalds.

² Disclaimer: Any mention of commercial products is for information only; it does not imply recommendation or endorsement by the NIST.

³ Java is a registered trademark of Sun Microsystems, Inc. or its subsidiaries in the United States and other countries.

```
user@user-desktop: ~/tmp
File Edit View Terminal Help
Welcome to the ISSI Network Simulation Tool - Linux Client Setup Wizard

This software was developed at the National Institute of Standards and Technology
by employees of the Federal Government in the course of their official duties.
Pursuant to title 17 Section 105 of the United States Code this software is not
subject to copyright protection and is in the public domain. NIST assumes no
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Do you accept the terms of the License Agreement? (yes / no) █
```

```
user@user-desktop: ~/tmp
File Edit View Terminal Help
by employees of the Federal Government in the course of their official duties.
Pursuant to title 17 Section 105 of the United States Code this software is not
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responsibility whatsoever for its use by other parties, and makes no guarantees,
expressed or implied, about its quality, reliability, or any other characteristic.

Do you accept the terms of the License Agreement? (yes / no) yes

STEP 1 of 3: Enter configuration parameters
=====

Enter the following information to install and configure your ISSI-NST client:

    Installation directory for the server (full path). A subdirectory named 'ISSI-NST_C
lient-0.9.7' will be created in this directory, and all the files will be copied in that su
bdirectory [/opt]: █
```

Make sure that you have permissions to write in the selected directory (and create it if it does not exist already); otherwise an error will be shown:

```
user@user-desktop: ~/tmp
File Edit View Terminal Help
Do you accept the terms of the License Agreement? (yes / no) yes

STEP 1 of 3: Enter configuration parameters
=====

Enter the following information to install and configure your ISSI-NST client:

    Installation directory for the server (full path). A subdirectory named 'ISSI-NST_C
    lient-0.9.7' will be created in this directory, and all the files will be copied in that su
    bdirectory [/opt]:

    Could not create the selected directory (/opt/ISSI-NST_Client-0.9.7). You m
    ay find more information in the installation log file (/home/user/ISSI-NST_Client_Install_l
    og_201103171238.log). Please enter a valid installation directory.

    Installation directory for the server (full path). A subdirectory named 'ISSI-NST_C
    lient-0.9.7' will be created in this directory, and all the files will be copied in that su
    bdirectory [/opt]:
```

Further information about errors can be found in the installation log file (the path to that file is provided in the error message).

If the target directory exists, the installation script will ask for confirmation to overwriting that directory (**WARNING:** Selecting 'yes' will delete all the contents of the target directory).

Next, the installation program will validate the existing Java Runtime Environment (JRE) in the system and if needed, install a compatible JRE. If a compatible JRE is not found, the installation program will proceed to install one in the server's installation directory:

```
user@user-desktop: ~/tmp
File Edit View Terminal Help
=====

Enter the following information to install and configure your ISSI-NST client:

    Installation directory for the server (full path). A subdirectory named 'ISSI-NST_C
    lient-0.9.7' will be created in this directory, and all the files will be copied in that su
    bdirectory [/opt]: /home/user/tmp/

STEP 2 of 3: Install the ISSI-NST client
=====

    Validating the JRE...

    This installation process will now install a SUN JRE in the installation di
    rectory, but you still need to ensure that this JRE is used when the ISSI-NST software is s
    tarted (This may require modifications in the system configuration).
    Press ENTER to continue.
```

When the installation is over, the installer will present with a summary of the installation, along with the commands to start the tools and the path to the installation log file:

```
user@user-desktop: ~/tmp
File Edit View Terminal Help
STEP 3 of 3: Installation summary and starting instructions
=====

The installation finished succesfully

To start the client run "cd /home/user/tmp//ISSI-NST_Client-0.9.7; /home/user/tmp//ISSI-NST_Client-0.9.7/jre1.6.0_24/bin/java -jar -Xms128m -Xmx1024m NS2-Viz2.jar"

To start the Audio Trace Generator run "cd /home/user/tmp//ISSI-NST_Client-0.9.7; /home/user/tmp//ISSI-NST_Client-0.9.7/jre1.6.0_24/bin/java -jar -Xms128m -Xmx1024m lib/AudioTraceGenerator.jar"

You can find the installation log in the file /home/user/ISSI-NST_Client_Install_log_201103171238.log

user@user-desktop:~/tmp$
```