Network Simulation Tool for Project 25: Inter-RF Subsystem Interface (ISSI) All-in-one Installation Guide for Windows

September 30, 2011
GUI version 1.0.0

Windows All-in-one

Obtain ISSI Network Simulator tool setup package available at http://www.nist.gov/itl/antd/emntg/ps_p25_tool.cfm.

Install the all-in-one package by using one of the following two methods:

1. Using the '**Add or Remove Programs**' from the Windows control panel window:

In this window, select '**Add New Programs**'.

Next, select '**CD or Floppy**' and follow the instructions. When prompted for the installation program, select the setup package.

2. Double clicking the setup package:

Follow the instructions of the setup package. **Note: Replace version 0.9.7 with current version being installed.**

In the modules selection page at least one of the Network Simulation core packages must be selected (i.e., the Graphical User Interface, the Server, or both):

Note: You will need to have write permission in the target installation directory to be able to install and run the tool.

ISSI Network Simulation Tool v0.9.7 Setup
Additional Tasks
Which are the additional tasks which must be carried out?
Select additional tasks that setup must carry out during the setup process of ISSI Network Simulation Tool v0.9.7. Click Next to continue.
Additional Icons:
Create a desktop icon
Create a Quick Launch icon
< Back
Next >
Cancel

ISSI Network Simulation Tool v0.9.7 Setup
Confirm Installation
Setup has finished gathering information and is ready to install ISSI Network Simulation Tool v0.9.7.
Setup is ready to install ISSI Network Simulation Tool v0.9.7 on your computer.
If you want to review or change any of your installation settings, click Back. Click Install to start the installation.
Current configuration:
Destination location:
C:\Program Files\ISSI Network Simulation Tool
Start menu folder:
ISSI Network Simulation Tool
Additional Tasks:
Create a desktop icon
Create a Quick Launch icon
< Back
Install
Cancel

During the installation, the package checks the availability of

- an appropriate Java™ [1] [2] Runtime Environment,
- Adobe® Reader® [3],
- Qemu [4] Manager (if the server is selected for installation)

in the system. If they are not found, then the setup package automatically initiates the installation of the missing software. If you do not accept the installation of the JRE or Qemu Manager (if needed) packages, then the ISSI Network Simulation Tool package will not be installed (i.e., not complete successfully). The installation of Adobe Reader may be cancelled, but the documentation may not be accessible.

During the JRE installation, follow the instructions provided in the JRE installer:

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

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

[3] Adobe and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

[4] QEMU is a registered trademark of Fabrice Bellard.

When this installation is over, the following screen will be shown:

and the setup of the **ISSI Network Simulation Tool** will continue.

Similarly, the installation of Adobe Reader will be launched if needed:

Adobe Reader X (10.0.1) - Setup
Installing Adobe Reader X (10.0.1)
The program features you selected are being installed.
Status:
InstallShield
Cancel

Adobe Reader X (10.0.1) - Setup
Installing Adobe Reader X (10.0.1)
The program features you selected are being installed.
Status:
Optimizing performance ...
Completed 48% of process
InstallShield

When this installation is over, the following screen will be shown:

and the setup of the **ISSI Network Simulation Tool** will continue.

If needed, Qemu Manager will also be installed:

When the installation is over, **it is necessary to launch Qemu Manager**

and in the configuration screen check the box that says ‘Install & Enable KQEMU Accelerator Support’:

When the list of VMs is show, we can close Qemu Manager:

After that, the Virtual Machine configuration tool will be launched to configure the parameters for the server in windows:

It is possible to cancel the configuration at this time, but it is necessary to run the tool at least once before the server can be used:

If needed, this configuration tool can be launched from the "**ISSI Network Simulation Tool**" menu, selecting "**Tools**" and then "**Virtual Machine Configuration**"

- When the installation is finished, the **NS2-Viz2.jar** and **viznet_server.cmd** files are located in **C:\Program Files\ISSI Network Simulation Tool** (or the target installation directory, if you changed this setting during the installation)**,** and the example scenario project files are located in **C:\Program Files\ISSI Network Simulation Tool\scenarios**.

Additionally, desktop shortcuts to the tool have been created (if during the installation you did not uncheck its creation),

and an entry in the '**Programs**' menu called '**ISSI Network Simulation Tool**' contains a link to the applications, a link to the tool's website and an uninstall icon.

To run the Graphical User Interface (GUI) or the server

- double click the appropriate desktop shortcut,
- open the '**ISSI Network Simulation Tool**' folder in the '**Programs**' menu, and select '**ISSI Network Simulation Tool**' (for the GUI) or '**ISSI NST – Server**' (for the server).