



INSTALLATION GUIDE

mtSim CORBA Server Simulator Development/Test Toolkit

Version 2.1

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1. System Requirements

mtSim requires a Java 1.5 JDK. It does not operate correctly using other Java VM releases (e.g. Java 1.4, Java 1.3 etc). If a Java 1.5 JDK is not installed then it can be downloaded freely from the Java Website (<http://java.sun.com>). The minimum amount of RAM required is 1024MB and the recommended is 4096MB. mtSim will execute with less than 1024MB of RAM but performance may be degraded depending on operation. Disk space for a full installation is approximately 30MB.

mtSim Server comes bundled with a CORBA ORB, Name Service, Interface Repository and a Notification Service. No 3rd party licenses are required.

mtSim requires a license file called mtSimLicense.class to be installed during the installation process. If you do not have an evaluation or runtime/development license please contact support@telcopro.com. License details can be displayed by executing "java mtSimLicense" at the command line in the directory where mtSimLicense.class is located.

2. Starting the mtSim Installation Application

2.1 Unix

Create a directory (we will assume this is in \$HOME) and copy the mtSim product installation jar file and mtSimLicense.class file to this directory. Start the TelcoPro mtSim installation GUI and follow the step by step instructions. The GUI installer will create a sub-directory called mtsim_server within the specified installation directory and a separate sub-directory for user projects. It is not recommended to store any user scripts/files etc within the mtsim_server sub-directory. If a demonstration component has been installed then the mtSim CORBA client simulator will be installed in the mtsim_client directory. The following steps can be followed to start the mtSim GUI installation application:

```
unix: mkdir $HOME/telcopro
unix: cp mtsim2.1_install.jar $HOME/telcopro
unix: cp mtSimLicense.class $HOME/telcopro
unix: cd $HOME/telcopro
unix: java -jar mtsim2.1_install.jar
```

NOTE1	Installing over an existing installation can cause problems due to old files still existing. The GUI installation application does not allow an installation to be installed in the same location as a previous installation.
NOTE2	To check the version of Java execute java -version. If the version is not 1.5 please contact a system administrator and request a Java 1.5 JDK to be installed and configured.
NOTE3	The name of the jar file may not be mtsim2.1_install.jar. For different product releases an identifier may be included e.g. For the telecoms version the name of the installation jar is mtsim2.1_telecoms_install.jar.

Refer to Section 3 "mtSim installation GUI guidelines" for guidelines on using the mtSim installation GUI.

After installation the following executable scripts shall exist in \$HOME/mtsim_server/mtsim2.1/bin:

- mtstartupcorbaifrep
- mtstartupcorbanames
- mtstartupcorbanotifs
- mtsimserver
- mtautosimserver
- mtsimcontrolpanel

The above scripts set up the necessary environment variables and configuration for all required processes to function correctly. It is recommended to execute the mtsimcontrolpanel script after installation. Further details about each of the above scripts can be obtained from the Administration Guide in \$HOME/mtsim_server/mtsim2.1/docs/mtsim_server_adminguide.pdf

2.2 Windows

Create a directory (we will assume this is C:\TelcoPro) and copy the mtSim product installation jar file to this directory. The installation path must not contain any spaces. Start the TelcoPro mtSim installation GUI by double-clicking on the jar file and follow the step by step instructions. The GUI installer will create a sub-directory called mtsim_server within the specified installation directory and a separate sub-directory for user projects. It is not recommended to store any user scripts/files etc within the mtsim_server sub-directory. If a demonstration component has been installed then the mtSim CORBA client simulator will be installed in the mtsim_client directory. The following steps can be followed to start the mtSim GUI installation application from a dos command prompt:

```
Windows: cd C:\
Windows: mkdir TelcoPro
Windows: cd TelcoPro
Windows: copy <DOWNLOADPATH>\mtsim2.1_install.jar C:\TelcoPro
Windows: copy <DOWNLOADPATH>\mtSimLicense.class C:\TelcoPro
Windows: java -jar mtsim2.1_install.jar
```

NOTE1	Installing over an existing installation can cause problems due to old files still existing. The GUI installation application does not allow an installation to be installed in the same location as a previous installation.
NOTE2	To check the version of Java execute java -version. If the version is not 1.5 please contact a system administrator and request a Java 1.5 JDK to be installed and configured.
NOTE3	The name of the jar file may not be mtsim2.1_install.jar. For different product releases an identifier may be included e.g. For the telecoms version the name of the installation jar is mtsim2.1_telecoms_install.jar.

Refer to Section 3 "mtSim installation GUI guidelines" for guidelines on using the mtSim installation GUI.

After installation the following executable scripts shall exist in C:\TelcoPro\mtsim_server\mtsim2.1\bin:

- mtstartnames.bat
- mtstartir.bat

- mtstartnotifs.bat
- mtsimserver.bat
- mtautosimserver.bat
- mtsimcontrolpanel.bat

These scripts set up the necessary environment variables and configuration for all required processes to function correctly. It is recommended to execute the mtsimcontrolpanel.bat script after installation. Further details about each of the can be obtained from the Administration Guide in C:\TelcoPro\mtsim_server\mtsim2.1\docs\mtsim_server_adminguide.pdf.

3. mtSim Installation GUI Guidelines

After the mtSim installation GUI is started an initial screen is displayed explaining a users options as shown in the following diagram:



After clicking on "Next" the TelcoPro license agreement is displayed. Please read the agreement fully using the scrollbar on the right and if the terms of the agreement are acceptable then click on the "I Accept" button. The following diagram shows the license agreement screen:



After clicking on "I Accept" the installation configuration screen is displayed. Fill out each of the configuration options and click "Next". The following diagram shows the configuration screen.



A default installation directory is provided. If the product is to be installed in a different directory click on the "Choose" button to select the required directory. The installation application will automatically find a free port to be used for the CORBA Name Service. By default the value 7777 is used. If a different port is displayed this means that the default port of 7777 is being used by another application so the next free port is recommended. If this is not the first time that the product has been installed on the machine then check to make sure a previous instance of the CORBA Name Service is not running on the machine. The Java VM is automatically populated with the Java VM used to start the installation GUI. A 1.5.x Java JDK is required to execute the mtSim product. An evaluation or development/runtime license is required to use the product. The "Choose" button can be used to locate the license file. Clicking on "Next" displays the components that can be installed. The list of components depends on the license that has been generated. The following diagram shows a screen for installing the product and the 3GPP UMTS demonstration components:



The client files component consists of a project file containing test scripts that can be executed by the client. If the mtSim CORBA client simulator is not installed and this component is selected then the client will be installed. The server files component consists of a project file containing test scripts that can be executed by the server. Click on "Install" and the relevant files will be installed and configured. When installation is complete the "Finish" button is enabled. Click this to close the mtSim installation GUI application.

4. Getting started

After successful installation a guide to getting started will be displayed by the mtSim GUI installation application.

5. Automated Installation

Installation can be performed automatically using the following arguments:

```
java -jar <install JAR> auto installDir=<install dir> license=<license file> [namePort=<Name Service Port>] [javaDir=<Java VM>]
```

The installDir argument identifies the installation directory. The license argument is used to identify the full path and license file name. The namePort argument is optional and is used to specify the Name Service port. The javaDir is also optional and can be used to identify a specific Java VM.

6. Uninstalling mtSim

The product can be removed by deleting the directory in which it is installed. No other files are installed outside of this directory. **PLEASE CHECK IF ANY FILES WERE STORED WITHIN THE MTSIM INSTALLATION BEFORE DELETING IT.**