

## *Installation Procedure for Windows*

**This chapter contains step-wise instructions for installing Telelogic Tau SDL suite and Telelogic Tau TTCN suite on either Windows XP, Windows NT 4.0, Windows 2000, or Windows 98, including the software licenses.**

**For instructions on installing the SDL suite and the TTCN suite on UNIX systems, see chapter 2, *Installation Procedure for UNIX*.**

**In case you encounter problems, contact Telelogic Customer Support, see “How to Contact Customer Support” on page iv in the *Release Guide*.**

## Overview

This chapter's installation procedure will help you install the SDL suite and the TTCN suite on your system. You can do a full installation or customize it to meet your needs.

The process involves installing the actual Telelogic Tau software, as well as installing and activating your licenses.

### Before You Start

Have the license materials at hand before starting the installation. You should have received your FLEXlm™ license key by e-mail.

For general information on licensing, see [chapter 6, \*A Primer on Licensing\*](#).

**If you have not yet received a FLEXlm license key, see the box marked [Important!](#) on page 33.**

#### Caution!

At some points in the installation you must supply directory names where Telelogic Tau or license components will reside. Telelogic Tau does not support file or directory names that contain space characters, so do not to use such names.

### Installation Options

When installing the software you can choose what components to include. You can always add components afterwards by running the installation procedure again (see [“Adding Telelogic Tau Components to an Existing Installation”](#) on page 42).

The Telelogic Tau components are:

- SDL suite program files (binary executables).
- TTCN suite program files (binary executables).
- Example files. With these files, you will be able to follow the tutorials and other complete examples described in the documentation.
- On-line help files in HTML format.

**Note: PDF documentation**

The complete Telelogic Tau documentation is also available in PDF format in the directory \PDF\files on the Telelogic Tau CD-ROM.

- SDL suite application files necessary to run the tools.
- TTCN suite application files necessary to run the tools.

**Note: Limiting disk space**

To limit local disk space usage in a multi-user environment, you may optionally put the on-line help files on a network server, if you are not performing a network installation. See “Configuring the Help Environment” on page 290 in chapter 4, *Managing Preferences, in the User’s Manual*.

## Installation Procedure

The flowchart below shows the basic steps of the installation procedure.

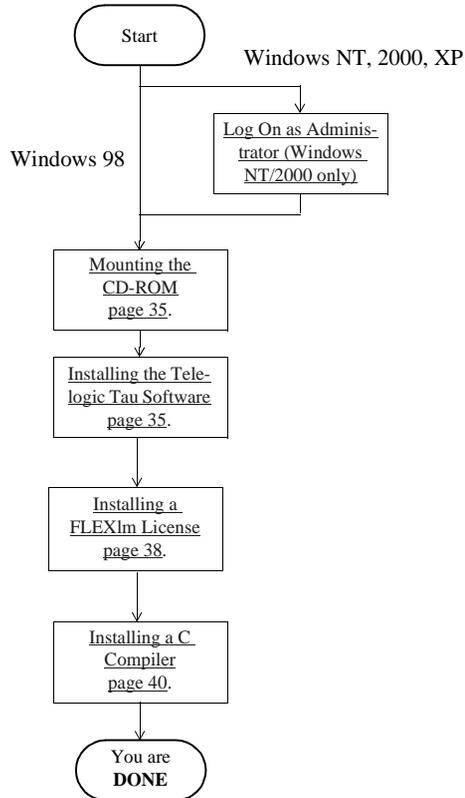


Figure 2: Flowchart for installation

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## Important!

**If you have not received a FLEXlm license key you will not be able to start Telelogic Tau after the installation is performed. Please see below for information on how to obtain the license key.**

## How to obtain a license key

To obtain a license key you have to provide Telelogic Customer Support with the **hostname** and **hostID** of the machine on which the license server will run. To obtain this information:

1. Log in on the license server machine.
2. Insert the Telelogic Tau CD-ROM.
3. Change directory to the top level of the CD-ROM, and execute the batch file called `lmhostid.bat`.
4. A utility called `lmtools` starts; select the **System Settings** tab (see [Figure 3 on page 34](#)).
  - If you want the license to be locked to your network card, note the 12-character hex code in the **Ethernet Address** field. (example: “00abcde12345”).
  - Use the 14-character code in the **FLEXID8** field of `lmtools` (example: “8-5E700060F63D”). `lmtools` is also included on the CD-ROM. The FLEXID can also be read on the dongle.

For information on how to install the dongle, see [“Installing the dongle and drivers” on page 37](#).

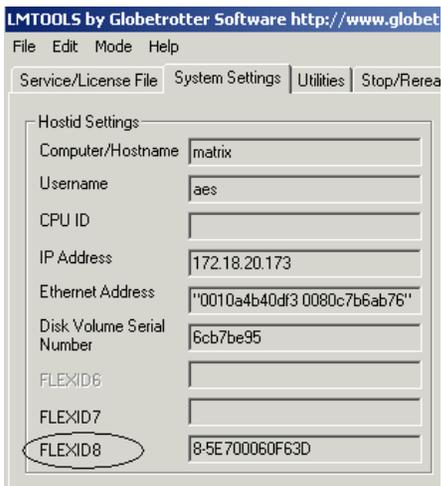


Figure 3: lmttools dialog

5. **EMAIL** or **FAX** this information to Telelogic Customer Support.

For contact information, see [“How to Contact Customer Support”](#) on page *iv* in the *Release Guide*.

When you have obtained a FLEXIm license key, you can complete the entire installation and run Telelogic Tau.

### Log On as Administrator (Windows NT/2000 only)

To install Telelogic Tau on Windows NT and Windows 2000, you do not need to be logged on as the Administrator, but your login ID **must** be a member of the local or domain Administrators group.

- Log on as Administrator, or make sure you have administrative privileges. To grant administrative privileges, use the Windows NT/2000 User Manager feature (see *Windows NT/2000 System Guide*).

### Mounting the CD-ROM

- Insert the Telelogic Tau CD into the CD-ROM drive or mount it if it resides on a network drive.

**In the rest of this chapter, we assume that the CD-ROM drive is mounted on drive D:\**

### Installing the Telelogic Tau Software

An installation utility, `SETUP.EXE`, is enclosed in the Telelogic Tau distribution.

The Telelogic Tau files are compressed and require the installation utility to be run. **You will only be able to install Telelogic Tau if you run `SETUP.EXE`.**

### Installation Steps

Perform **all** the steps below:

1. Start your Windows environment. If you are using Windows NT/2000, follow the directions in “Log On as Administrator (Windows NT/2000 only)” on page 35.
2. Exit all running Windows programs.

**Note: Starting the installation script**

The instructions below describe how to start the installation script from the Windows Start menu. The script can also be started from the Telelogic Tau CD HTML interface. In that case, click the *Install on Windows* link on the *Installation* page and proceed with step 5 below.

3. From the Windows *Start* menu, select *Run*.
4. In the dialog that appears, specify:  
`D:\sdl_ttcn\setup.exe`  
and press <Return>. A welcome screen is opened.
5. Click *Next* to continue the setup.
6. Click *Yes* to accept the software license agreement.
7. Select the installation directory. The default installation directory is:  
`C:\Telelogic\SDL_TTCN_Suite4.5`  
where 'C' is the local hard drive on which Windows is installed. You may also change to a network drive to perform a single network installation for all users on your network.
8. Click on *Next* to select the *Setup Type*:
  - **Typical** installation will install all SDL suite and TTCN suite files, including the Help files.
  - **Compact** installation will install SDL suite and TTCN suite files, excluding example files and on-line help files.
  - **Custom** installation enables you to choose components to install.

If you want to add components to an existing Telelogic Tau 4.5 installation, use the *Custom* installation. See [“Adding Telelogic Tau Components to an Existing Installation” on page 42](#).
9. Select an option and click *Next*. The disk space requirements and which files to install before proceeding are determined. If you have chosen the Custom installation, select which components to install (see [“Installation Options” on page 30](#) for more information).

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10. Specify the program folder where the program shortcuts are to be placed.
11. Click *Next*. Setup will now install the selected files, create shortcuts and update the registry.
12. If not already defined, you will be asked for the license server and port number used. This information is found on the first line of the FLEXIm license key.

If you have not received the license key, you can later add the license server and the port number to the file `license.dat` in the installation directory.

13. Click *Finish*.

The installation of the SDL suite and the TTCN suite is now completed. If you have selected to install the UML Suite as well, the UML Suite Installation Wizard will start automatically. Further instructions regarding the UML Suite installation can be obtained in the UML Suite Installation Guide.

If you are using a host ID to identify your license, continue with [“Installing a FLEXIm License”](#) on page 38.

### Installing the dongle and drivers

If you are using a dongle continue with the following steps.

1. Turn off the computer.
2. Find the parallel port on the back of the computer and plug in the dongle.
3. Turn on the computer.
4. Run `Setup.exe` located in `d:\FLEX`.
5. Select the setup type *Server Hardware key Nodelock*.
6. Select the installation directory and finish the installation.

#### **Note: Install manually**

If you are using Windows NT/2000/XP and want to **install manually**, you need to install drivers from `d:\FLEX\FLEXID8\WINNT-DRV`.

If you are using Windows 98 and want to **install manually**, you might need to install drivers from the CD also. For more information see `d:\FLEX\FLEXID8\WIN95DRV\Readme.txt`.

## Installing a FLEXlm License

Follow the directions below to install your textual FLEXlm license file. The license file contains the license key you have received from Telelogic Customer Support.

**If you have not yet received** a FLEXlm license key, see [“How to obtain a license key”](#) on page 33.

### Caution!

All information in the `license.dat` file is **case significant**, so be careful not to accidentally invalidate any of the encryption codes. Otherwise you will not be able to start the Telelogic Tau tools.

You have two options in installing your FLEXlm license:

- In a **shared license file**, which is shared with other FLEXlm licensed software, see [“Using a Shared License File”](#) on page 38. You may consider this option if you have other software products that make use of FLEXlm licensing.
- As a **Telelogic specific license**, which only handles licenses for Telelogic Tau, see [“Using a Telelogic Specific License File”](#) on page 39. This is the default option if you only will use FLEXlm for the Telelogic Tau licenses.

### Using a Shared License File

Make sure the global installation is FLEXlm 8.0d or higher. Otherwise install it from the included CD.

If you have other products that make use of FLEXlm you may wish to install your Telelogic Tau license features into the existing FLEXlm `license.dat` file. To install the license key:

1. Copy the following lines from the license key you received from Telelogic Customer Support into the existing `license.dat` file:
  - the **VENDOR** line. **Change the path** to the `\flex` subdirectory in your Telelogic Tau installation directory (e.g. `C:\Telelogic\SDL_TTCN_Suite4.5\flex\wini386flex`).
  - the **FEATURE** line(s)

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You must do this since your existing license server's "lmgrd" daemon is not in the same directory as the "telelogic" daemon (for information, see ["FLEXlm Licensing Pitfalls to Avoid" on page 68 in chapter 6, \*A Primer on Licensing\*](#)).

2. When you have changed any information in the `license.dat` file, you **must** update the license server to let it know about the changes. To do this, start the FLEXlm utility in:

```
C:\Telelogic\SDL_TTCN_Suite4.5\flex\wini386flex\lmtols.exe
```

and select *Reread*.

The license installation is finished. Continue with ["Installing a C Compiler" on page 40](#).

## Using a Telelogic Specific License File

If you will only use FLEXlm for Telelogic Tau licenses, or wish to run a separate FLEXlm license server for Telelogic Tau, do the following:

1. Save or copy the FLEXlm license key you received from Telelogic Customer Support into a text file called `license.dat`.
2. Store the file, for instance in the directory where Telelogic Tau is installed.

## Starting the License Server

You will now start the FLEXlm license server:

### Note:

If you are using an evaluation license, or if the word "DEMO" ends each FEATURE line in your `license.dat` file, **you do not need to start the license server**.

1. Log in on the computer where the license server is to run.
2. Make sure no license servers for the Telelogic Tau tools are currently running. Search for the license daemons `lmgrd.exe` and `telelogic.exe` in the Processes list in the Windows Task Manager (see ["Automatic Server Startup \(Windows\)" on page 55 in chapter 5, \*Licensing Management\*](#)).
3. Start a Command Prompt.

4. Change to the FLEXlm directory in the Telelogic Tau installation, e.g.:

```
cd c:\Telelogic\SDL_TTCN_Suite4.5\flex\wini386flex
```

5. Start the license server:

```
c:\Telelogic\SDL_TTCN_Suite4.5\flex\wini386flex>  
lmgrd -app
```

6. Check that the license server has been started correctly. Execute `c:\Telelogic\SDL_TTCN_Suite4.5\flex\wini386flex> lmtools.exe` and select *Status*.

The license server statistics is displayed containing the server, the vendor daemon `telelogic` and the features available in your `license.dat` file.

7. If the startup has failed, check the `license.dat` file for errors and omissions; see [“FLEXlm Licensing Pitfalls to Avoid” on page 68 in chapter 6, \*A Primer on Licensing\*](#). Double-check your file with the original sent from Telelogic Customer Support. Especially check the “company name” information in the quote-field of the first FEATURE line in the file.

As an additional debugging help, the log for the license server will be displayed from where the license server was started. Unfortunately, when the server is started manually this way, there is no way to “close” this console window. It can be “minimized” at best.

8. For Windows NT/2000/XP users, install the license server as a service using `lmtools.exe`; Windows 98 users should use the Startup folder. See [“Automatic Server Startup \(Windows\)” on page 55 in chapter 5, \*Licensing Management\*](#) for more information.

The license installation is now finished.

## Installing a C Compiler

You must also install a C compiler to be able to use certain features of the Telelogic Tau tools, such as Simulation and code generation. How to install a C compiler is described in the compiler documentation.

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For information on which C compiler you need, see “The SDL Suite Compiler Environment” on page 6 and “The TTCN Suite Compiler Environment” on page 11 in chapter 1, *Platforms and Products*.

## Starting Up the Telelogic Tau Tools

Telelogic Tau can be started from an icon in *Start* menu > *Programs*. An alternative way is to double-click an `.sdt` file.

## Post Installation

### Limiting On-Line Help Disk Space

If you have installed Telelogic Tau locally on several PC's, you may wish to limit the disk space usage in a multi-user environment. Instead of storing the Telelogic Tau on-line help files locally on every PC where you have installed Telelogic Tau, you may put a single copy of the on-line help files on a network server. This is further described in [“Configuring the Help Environment” on page 290 in chapter 4, \*Managing Preferences, in the User's Manual\*](#).

## Adding Telelogic Tau Components to an Existing Installation

If you want to add components to your installation, follow the instructions below. For more information on available components, see [“Installation Options” on page 30](#).

1. Mount the CD, as described in [“Mounting the CD-ROM” on page 35](#).
2. Follow all steps described in [“Installing the Telelogic Tau Software” on page 35](#).
  - In the *Destination Location* dialog, enter the same installation directory as you did when you installed Telelogic Tau the first time.
  - Choose *Custom* installation in the *Setup Type* dialog.
  - Deselect the components you do not want to install in the *Select Components* dialog. If you install a component that is already installed, the existing component will be overwritten.