Chapter

1 *Platforms and Products*

This chapter lists the hardware and software prerequisites that must be fulfilled for a successful installation of the components in Telelogic Tau.

Compatibility information for platforms and products is also included in this chapter.

Hardware Prerequisites

This section describes the hardware requirements for Telelogic Tau.

Supported Architectures

- Sun SPARC
- HP 9000/700-800 series (PA-RISC). [1]
- PC's running Microsoft Windows 98, Windows NT 4.0, Windows 2000 or Windows XP.

UNIX Installation Prerequisites

Telelogic Tau on UNIX includes binaries for several different computer architectures, examples and on-line help files. During the installation, you may choose what parts to install.

The amount of disk space the different components will require is shown in the installation.

Windows Installation Prerequisites

Telelogic Tau for Windows includes binaries for four different computer architectures (Windows 98, Windows NT, Windows 2000 and Windows XP), examples and on-line help files. During the installation, you may choose what parts to install.

The amount of disk space the different components will require is shown in the installation.

The Telelogic Tau files can be installed once on a network server for all users, or locally on each user's PC.

To limit the required disk space in local PC installations, the Help files can be installed once on a network server. They do not have to be installed locally on each PC where the Telelogic Tau binaries are installed.

1. The Japanese version of Telelogic Tau does not support the HP UNIX platform.

Run-time Prerequisites

To run the Telelogic Tau tools properly you need a certain amount of main memory and swap size; see "Operating System" on page 3.

Pointing Device

A pointing device is required in order to run Telelogic Tau.

Software Prerequisites

This section describes the software requirements for Telelogic Tau.

Operating System

Architecture	OS Version	Minimum Main Memory	Virtual Memory (swap) Size
Sun SPARC	Solaris 2.6/7/8	64 MB	128 MB
HP 9000/700-800	HP-UX 10.20 up to 11.00	64	128
PC	Windows NT 4.0, Windows 2000, Windows XP	64[a]	128[b]
PC	Windows 98	32[c]	Set by Windows

a. Although the exact memory needs for a high-performance installation (meaning execution with little swap page faults) on a given PC are impossible to tell, the following memory requirements could be expected:
- 32 MB for Windows NT/2000/XP systems
- 20 MB for the Telelogic Tau graphical applications + 1 kB / line of SDL/PR input to the Analyzer.
- Add approx. 30 MB for the Borland or Microsoft C compiler environment (if C code is to be generated from the SDL system).
- Add memory requirements for other applications that you want to run in the session (Microsoft Word, Netscape, etc.)

b. To double the main memory size is a good starting point.

c. Similar to a. The Windows 98 system requires only 16 MB, though.

UNIX Graphical Environment

On UNIX, Telelogic Tau is a X Window System application to be executed under the Motif Window Manager (Mwm).

Telelogic Tau require the X Window System, version R5 or later. The X Window System is provided by your workstation supplier.

Required HTML Viewers

The Telelogic Tau on-line help requires an HTML viewer. Telelogic Tau **on UNIX** supports Internet Explorer version 4 and 5 and Netscape version 2 and above. **On Windows** Internet Explorer version 4 and 5 are supported.

Telelogic Tau Compatibility Matrix

Telelogic Tau 4.5

	SDL Suite 4.5	TTCN Suite 4.5	UML Suite 4.8	Logiscope 5.0
SDL Suite 4.5	—	**Integrated**	**Integrated**[a]	Not integrated
TTCN Suite 4.5	**Integrated**	—	Not integrated	Not integrated
UML Suite 4.8	**Integrated**[b]	Not integrated	—	**Integrated**
Logiscope 5.0	Not integrated	Not integrated	**Integrated**	—

a. Not tested with SDL Suite Japanese version.

b. Not tested with SDL Suite Japanese version.

Other Telelogic Products

	SDL Suite 4.5	TTCN Suite 4.5	UML Suite 4.8	Logiscope 5.0
DOORS 6.0	**Integrated**[a]	**Integrated**	**Integrated**	Not integrated
CM Synergy 6.2	**Integrated**[b]	**Integrated**	**Integrated**	Not integrated
DocExpress 3.0	**Integrated**[c]	Not integrated	**Integrated**	Not integrated

a. Not tested with SDL Suite Japanese version.

b. Not tested with SDL Suite Japanese version.

c. Not tested with SDL Suite Japanese version.

Build and Certification Matrices

The SDL Suite Compiler Environment

A C/C++ compiler is required for the TTCN Link, the SDL suite simulation and validation features, and for Cadvanced SDL to C compiler for host and target environments.

For information regarding installation, see the compiler documentation.

The libraries included in the distribution of the TTCN Link, the simulation and validation features were built using the following C compilers. **You are advised to install and use the same compilers**, or closely compatible ones. It may be possible to use other compilers, but this is not tested or supported by Telelogic.

SDL Suite 4.5 (UNIX)

Table legend:

- The software will execute on the platforms defined in the table header.
- The **Build** environment is the compiler/s and OS environment used to build the software.
- **Precompiled kernels and Postmaster objects/lib** indicate which compiler/s to build, and which compiler/s that should be compatible.
- **Word processors** indicate which word processors that can be used for editing and which word processors that can handle the printed information.
- **Requirement Management tool** and **Version Control and Configuration Management** indicates versions used during certification.

SDL Suite	Solaris 2.6	Solaris 7/8	HP-UX 10.20[a]	HP-UX 11.00[b]
Build				
Build environment	cc SUNWspro (ANSI-C)/CC (v5.0) compiler	—	gcc (ANSI-C)/g++ 2.95.2	—
Precompiled kernels and postmaster object/lib				
C	cc SUNWspro v5.0 (build and test) gcc 2.95.2 (build and test)	cc SUNWspro v5.0 (test) gcc 2.95.2 (test)	c89 (ANSI-C) (build and test) gcc 2.95.2 (build and test)	c89 (ANSI-C) (test) gcc 2.95.2 (test)
C++	CC SUNWspro v5.0 (build and test) g++ 2.95.2 (build and test)	CC SUNWspro v5.0 (test) g++ 2.95.2 (test)	HP native aC++ (A.01.21) (build and test) g++ 2.95.2 (build and test)	HP native aC++ (A.01.21) (test) g++ 2.95.2 (test)
Word processors				
Editing	GNU emacs 19.31 or later	GNU emacs 19.31 or later	GNU emacs 19.31 or later	GNU emacs 19.31 or later
Printing	FrameMaker 6.0 Interleaf	FrameMaker 6.0 Interleaf	FrameMaker 6.0 Interleaf	FrameMaker 6.0 Interleaf
Requirement Management tool				
DOORS	6.0	6.0	6.0	6.0
Version Control and Configuration Management				
CM Synergy	6.2	6.2	6.2	6.2
Clearcase	4.1	4.1	4.1	4.1
RCS	5 or later	5 or later	5 or later	5 or later
Licensing				
FLEXlm	8.0d	8.0d	8.0d	8.0d

a. Not supported with Japanese version.

b. Not supported with Japanese version.

SDL Suite 4.5 (Windows)

SDL Suite[a]	Windows NT 4	Windows 2000/XP	Windows 98
Build			
Build environment	MS Visual C++ 6.0 SP4	—	—
Precompiled kernels and postmaster object/lib			
C	Borland 5.02 (build and test) Borland Builder 3 (test) Visual C++ 5 (build and test) Visual C++ 6 (test)	Borland 5.02 (test) Borland Builder 3 (test) Visual C++ 5 (test) Visual C++ 6 (test)	Borland 5.02 (test) Borland Builder 3 (test) Visual C++ 5 (test) Visual C++ 6 (test)
C++	Borland Builder 3 (test) Visual C++ 5 (build and test) Visual C++ 6 (test)	Borland Builder 3 (test) Visual C++ 5 (test) Visual C++ 6 (test)	Borland Builder 3 (test) Visual C++ 5 (test) Visual C++ 6 (test)
Word processors			
Editing and Printing[b]	MS Word 7, MS Word 97	MS Word 2000	MS Word 7, MS Word 97
Requirement Management tool			
DOORS	6.0	6.0	6.0
Version Control and Configuration Management			
CM Synergy	6.2	6.2	6.2
Clearcase	4.1	4.1	4.1
RCS	5 or later	5 or later	5 or later
PVCS	6.5	6.5	6.5
Licensing			
FLEXlm	8.0d	8.0d	8.0d

a. SDL Suite Japanese version is supported for Japanese versions of Windows NT, 2000, XP and 98.

b. MS Word 98 is supported for SDL Suite Japanese version on Windows NT and 98.

RTOS integrations

The following tables define the host and target environments where the integration types have been developed and tested.

Please see chapter 65, *Integration with Operating Systems, in the User's Manual* for important information about support for OS integrations.

Tight Integrations Templates

	OSE	VxWorks	Solaris	Win32
Version	4.2.2	VxWorks 5.5	Solaris 2.6	WinNT
OS	MS Windows NT 4.0 SP 6	MS Windows NT 4.0 SP 6	Solaris	MS Windows NT 4.0 SP 6
Environment		MS Windows NT 4.0 SP 6	Solaris Workshop 4.2	MS Visual Studio SP4
Simulation (soft-kernel)	SoftKernel on MS Windows NT 4.0 SP 6	VxSim on MS Windows NT 4.0 SP 6	Like target	Like target
Target			Sun Sparc with Solaris 2.6/7/8	x86-PC with Win98Se, Me, NT4.0, 2000, XP

Threaded Integrations

	OSE	VxWorks	Solaris	Win32
Version	4.4	VxWorks 5.5	Solaris 2.6	WinNT
OS	Solaris	Solaris	Solaris	MS Windows NT 4.0 SP 6
Environment	gcc 2.95.7	Solaris Workshop 4.2	Solaris Workshop 4.2	MS Visual Studio SP4
Simulation (soft-kernel)	SoftKernel on Solaris	VxSim on Solaris	Like target	Like target
Target			Sun Sparc with Solaris 2.6/7/8	x86-PC with Win98Se, Me, NT4.0, 2000, XP

Posix Support in Tight and Threaded Integrations

The generic POSIX integration is developed on Solaris and uses the following basic POSIX primitives:

- pthreads,

- semaphores,
- message-queues.

The generic POSIX integration is available and tested on the following Host/Target platforms:

	Solaris Host/ Solaris Target	**HP_UX Host/ HP_UX Target**	**Solaris Host/ Linux Target**[a]
Tight	Supported	—	—
Threaded (default signaling model)	Supported	Supported	Supported
Threaded (alternative signaling model)	Supported	—	—

a. Source files and makefile are generated with TAEX on Solaris. They must be transferred to Linux and manually compiled and linked there using the generated makefile.

The TTCN Suite Compiler Environment

An ANSI-C compiler is required for the TTCN-SDL Co-simulation feature and for C code generation for host and target environments. A C++ compiler is required for building TTCN Access applications **(UNIX only)**.

For information regarding installation, see the compiler documentation.

The binaries included in the distribution of the TTCN-SDL Co-simulator were built using the C compilers listed below, and the TTCN Access libraries were built using the C++ compilers listed below. **You are advised to install and use the same compilers**, or closely compatible ones. It may be possible to use other compilers, but this is not tested or supported by Telelogic.

TTCN Suite 4.5 (UNIX)

For table legend, see "SDL Suite 4.5 (UNIX)" on page 6.

TTCN Suite	Solaris 2.6	Solaris 7/8	HP-UX 10.20	HP-UX 11.00
Build				
Build environment	cc SUNWspro (ANSI-C) (v5.0) compiler	—	aC++ (A.01.21)	—
Precompiled kernels and postmaster object/lib				
C	cc SUNWspro v5.0 (build and test) gcc 2.95.2 (build and test)	cc SUNWspro v5.0 (test) gcc 2.95.2 (test)	c89 (ANSI-C) (build and test) gcc 2.95.2 (build and test)	c89 (ANSI-C) (test) gcc 2.95.2 (test)

TTCN Suite 4.5 (Windows)

TTCN Suite	Windows NT 4	Windows 2000/XP	Windows 98
Build			
Build environment	MS Visual C++ 6.0	—	—
Precompiled kernels and postmaster object/lib			
C	Borland 5.02 (build and test) Borland Builder 3 (test) Visual C++ 5 (build and test) Visual C++ 6 (test)	Borland 5.02 (test) Borland Builder 3 (test) Visual C++ 5 (test) Visual C++ 6 (test)	Borland 5.02 (test) Borland Builder 3 (test) Visual C++ 5 (test) Visual C++ 6 (test)