

**INSTALLATION
GUIDE**

Tun PLUS[™]

Total WINDOWS-UNIX/IBM Integration

Version 8.50



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PREFACE

Tun PLUS is a comprehensive 16 and 32-bit software package which guarantees the total integration of a PC running Windows with the UNIX/IBM class of servers.

Tun PLUS for all Windows is composed of the following modules:

	WINDOWS	MS-DOS
Tun KERNEL	TCP/IP protocol stacks for Windows 3.x only	TCP/IP protocol stacks for MS-DOS (TSR)
Tun NET	TCP/IP applications (NIS, NFS Client and Server, PING, Printer redirection and sharing, FTP Client and Server, TELNET, RSH Client and Server, TAR, WALL, TFTP, TIME), and electronic mail and fax application	TCP/IP applications for MS-DOS (NFS, Printer sharing, FTP, TELNET, TAR ...)
Tun EMUL	Comprehensive terminal emulator (asynchronous emulation, IBM 3270, IBM 5250)	Comprehensive terminal emulator for MS-DOS (asynchronous emulation)
Tun SQL	ODBC drivers for Client-Server mode under TCP/IP (Oracle, Informix, Sybase DBMS, Progress, DB2) and database revamping tools	N/A
NetscapeNavigator	Internet browser	N/A

Each module has its own installation procedure. However, if you wish to install more than one of the modules, it is better to use the **Tun PLUS** installation procedure which allows you to install the modules you wish.

The set of manuals delivered with **Tun PLUS** (16- or 32-bit versions) describe the use of the product under Windows.

INSTALLATION

PACKAGE CONTENTS

Please make sure your **Tun PLUS** package contains the following:

- User manuals for **Tun KERNEL**, **Tun NET**, **Tun EMUL** and **Tun SQL**. These manuals are valid for both the 16- and 32-bit versions of **Tun PLUS** (except **Tun KERNEL**).
- A CD-ROM.
- Installation disks for Netscape Navigator (2 or 3).
- A user license.
- A sealed envelope containing a serial number and activation key.
- Miscellaneous technical bulletins.
- A registration card.

Note: Opening the sealed envelope indicates that you have accepted the terms and conditions of the User License (indicated on the sealed envelope) for using **Tun PLUS**.

The **Tun SQL** software requires a database server program for it to function. This server should be installed on your UNIX machine. The following server programs are available at present:

	Oracle 7	Informix 5	Informix 7	Sybase 10	DB2	Progress
SCO UNIX 3.2.x v4.2	Yes (7.0)	Yes		Yes		Yes
SCO UNIX 3.2.x v5.0	Yes (7.0/7.3)	Yes	Yes	Yes		Yes
SunOS 4.1.3	Yes (7.1)	Yes		Yes		Yes
Solaris 2.5	Yes (7.2)	Yes		Yes		
AIX 3.2	Yes (7.0)	Yes		Yes		
AIX 4.1			Yes		Yes	Yes
HP-UX 9.x	Yes (7.2)	Yes		Yes		Yes
HP-UX 10.x	Yes (7.2)	Yes		Yes		Yes
OSF1 v3.2	Yes (7.2)	Yes		Yes		Yes

Given the size of these executables, it has not been possible to include them on disks. To acquire them free of charge, please return the order form in the product box or download them from the server <ftp://ftp.esker.fr> or <ftp://ftp.esker.com>

HARDWARE AND SOFTWARE REQUIREMENTS

To use **Tun PLUS** for Windows effectively, you will need the following equipment:

- A 100% PC486 compatible micro-computer or Pentium.
- 8-16 MB of RAM.
- Windows 3.x or Windows 95.
- A UNIX server with an RDBMS (Oracle, Informix, Sybase, DB2 or Progress) for use of **Tun SQL**.
- A modem card or external modem for use of **Tun NET** fax functionality.

PRODUCT INSTALLATION

The following procedure describes the installation of the **Tun PLUS** package under Windows.

1. Insert the CD-ROM into the CD-ROM drive (generally, drive D).
Depending on your Windows version, follow one of these steps:



Under Windows 3.x or Windows NT3.51, choose one of the following methods:

- From the **Program Manager**, select **File→Run** and type the following command:

D:\INSTALL.EXE

- From the **File Manager**, open the drive containing the CD-ROM (drive D) et double-click on the file **INSTALL.EXE**.



Under Windows 95 or Windows NT4, choose one of the following methods:

- Click on the **Add/Remove Programs** icon in the **Control Panel** window. Follow the installation prompts that appear, using the file **INSTALL.EXE** on the CD-ROM.
- From a DOS prompt, type the following command:

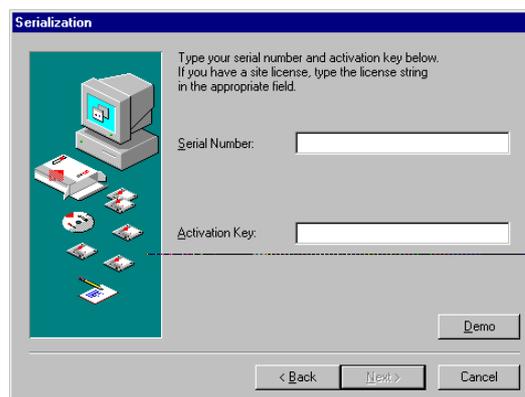
D:\INSTALL.EXE

- From the **Start** menu, select **Run** and type the above command.
- From the **Windows Explorer**, open the drive containing the CD-ROM (drive D) and double-click on the file **INSTALL.EXE**.

<p>Note: If you are using the Tun PLUS installation disks instead of the CD-ROM, insert the disk labeled "Tun Setup Disk 1/2" into the disk drive (generally drive A), and follow the same procedure with the following command:</p>

A:\SETUP.EXE

2. After the Welcome dialog box, you will see the following installation window:

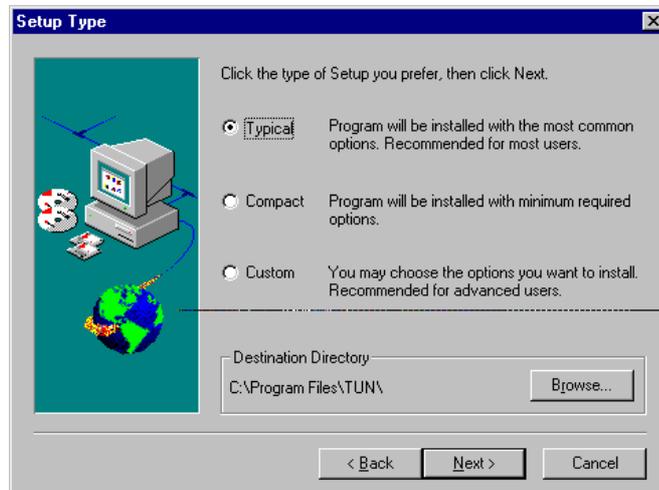


Enter the serial number and the activation key of the software. This information can be found in the sealed envelope accompanying the software.

Click the button **Demo** if you wish to install the demonstration version of **Tun PLUS**. A serial number and activation key will be proposed for the demo installation.

Then click the button **Next**.

3. If the serial number and activation key are correct, the following window will appear:



This window allows you to choose the type of installation you want and the installation directory.

Type of installation

There are three types of installation:

- **Typical:** installs the necessary components for normal usage of **Tun PLUS**
- **Compact:** installs the minimum number of components for **Tun PLUS** to function.
- **Custom:** allows you to choose the components you wish to install.

Installation directory

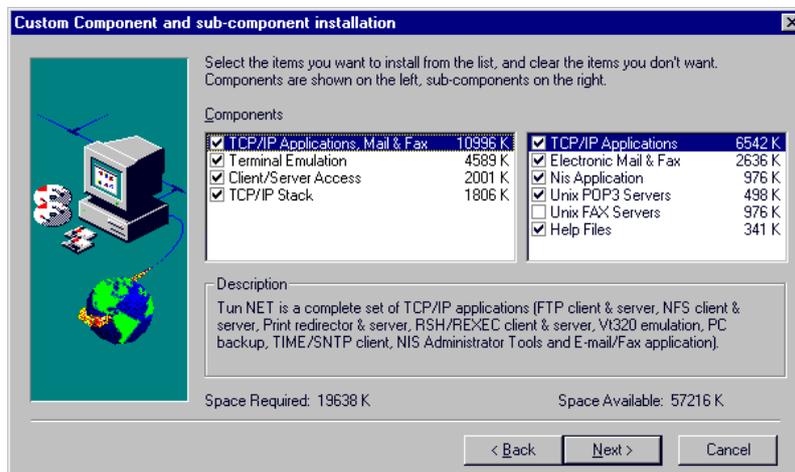
In Windows 3.x, the default directory for the installation of **Tun PLUS** is C:\TUN.

In Windows 95, the default directory is C:\Program Files\TUN.

This may be changed by pressing the button **Browse...**

When you have made your choice, click on the button **Next**.

4. If you have chosen the custom of installation, the following dialog box will appear:





In Windows 95, the option **TCP/IP Stack** is not available, since **Tun PLUS** uses Microsoft's TCP/IP stack.

Select the check boxes corresponding to the components or subcomponents you wish to install.

TCP/IP Applications(Tun NET)

This component include the following subcomponents :

- TCP/IP Applications: NFS Client and NFS Server, Printer sharing and redirection, FTP Client and FTP Server, VT320 Terminal Emulation, Remote command execution and server, Remote backup, Wall and Walld, Time, TFTP.
- Electronic Mail and Fax: e-mail application with integrated fax, compatible MIME, and OLE2 under Windows 95.
- NIS Application : NIS browser for centralized resources management and use.
- UNIX POP3 Servers : POP3 server for e-mail.
- UNIX Fax Servers : fax servers.
- Help Files : TCP/IP applications on-line help.

If your company's UNIX host does not possess a POP3 server for electronic mail, select the check box **Unix POP3 Servers**. This will copy the file POP3.TAR onto the hard disk of your PC so that it may be later installed on your UNIX server, according to the instructions in the **Tun NET** manual.

If you have not installed the fax server on your UNIX server yet, select the check box **Unix FAX Servers**. This will copy the file TUNFAX.TAR onto the hard disk of your PC, from where it may be later installed on your UNIX server according to the instructions in the **Tun NET** manual.

Terminal Emulation(Tun EMUL)

This component includes the following subcomponents:

- Asynchronous Emulator: top-rank asynchronous emulator (21 possible emulations).
- Synchronous Emulator: 5250 emulator (for the IBM AS/400), 3270 emulator (for IBM mainframes).
- Help Files : Terminal Emulation on-line help.

Client/Server Access(Tun SQL)

This component includes the following subcomponents:

- ODBC Driver: **Tun SQL** ODBC driver allows access to UNIX DBMSs such as Oracle version 7, Informix versions 5 and 7, Sybase version 10, DB2/6000 version 3.1 and Progress version 6.
- Databases Revamping Tool: the database revamping tool creates virtual tables more adapted to the needs of the end-user; the **Tun SQL** ODBC driver lets the user access the redefined database.
- ODBC Driver Manager: basic ODBC components usually supplied by Microsoft. Only install them if your machine is not already equipped with them.
- ODBC Samples: examples of use with Word, Excel and Visual Basic delivered with **Tun SQL**.
- Help Files: Client/Server Access on-line help.



TCP/IP Stack(16-bit version only - Tun KERNEL)

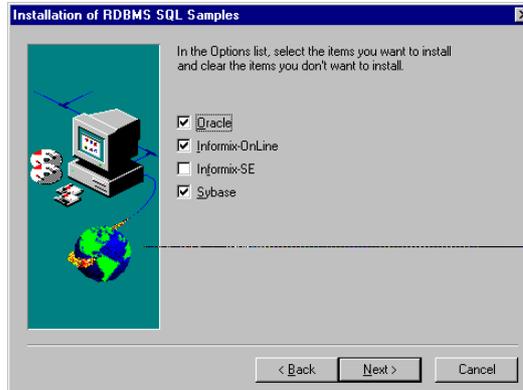
This component includes the following three subcomponents:

- TCP/IP Stack: DLLs et VxD drivers for TCP/IP stack.
- Network Card Driver: Packet Driver, NDIS Driver.
- Help Files: on-line help for the TCP/IP stack.

For more information on this component, please consult the manual **Tun KERNEL**.

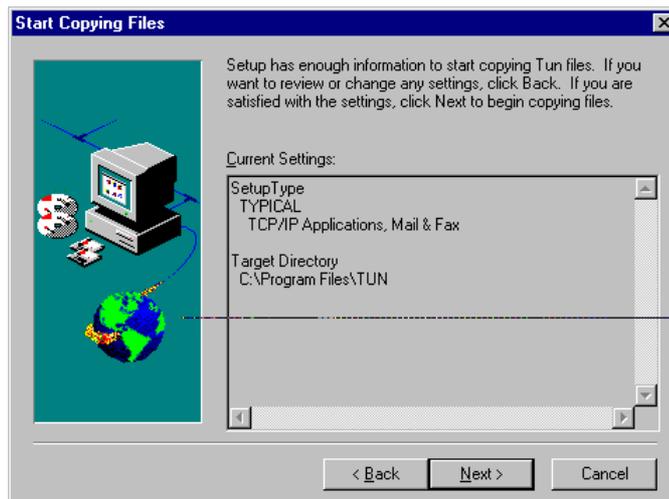
Click on the button **N**ext to proceed with the installation.

If you requested the installation of the examples, a new dialog box will be displayed. Select the DBMS (Oracle, Informix On-Line, Informix SE, Sybase) for which you wish to install the examples:



Note: All the examples will be transferred to the hard disk. Only the icons for the chosen examples are created.

5. The following window will appear.

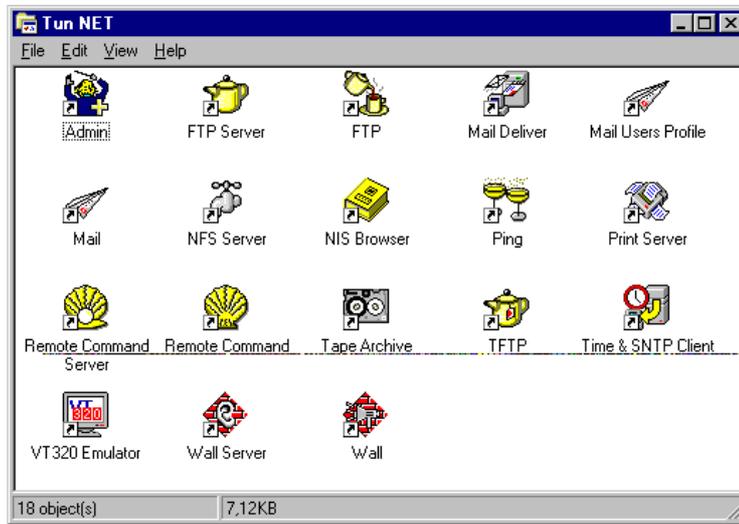


Then click the button **N**ext if you are satisfied with the installation options.

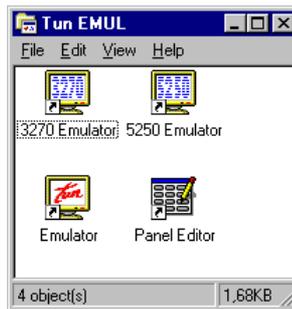


6. At the end of the installation process, if you requested the installation of the TCP/IP stacks, a window will appear proposing the immediate configuration of **Tun KERNEL**. If you agree to this option, the installation procedure switches immediately to the **Tun KERNEL** configuration screens as described in the chapter **Setting up the TCP/IP Kernel** in the **Tun KERNEL** manual. If you refuse this option, it will be possible to return to it later by clicking on the **Administrator** icon in the **Tun KERNEL** or **Tun NET** groups under the Windows Program Manager.
7. The following directories are created (unless you have specifically chosen not to install the relevant modules).

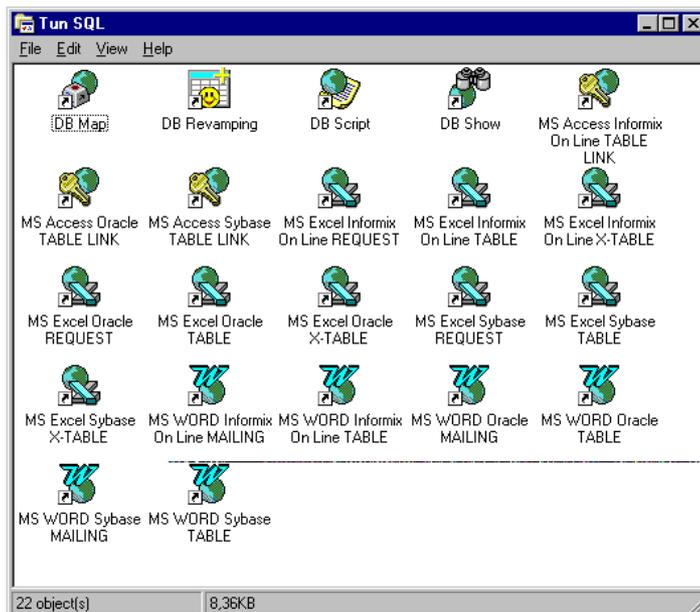
Tun NET



Tun EMUL

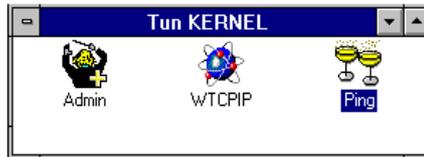


Tun SQL





For an installation under Windows 3.x, you should be able to see the new **Tun KERNEL** group with the following icons (if you chose to install it):



8. To install the product Netscape, insert the disk Netscape Disk 1 into the A: drive of your PC and type the following command:

A:\SETUP.EXE

Since the installation procedure has no special options, simply follow the instructions on the screen.

9. The installation process has now finished.

DIRECTORIES INSTALLED

The installation procedure creates the following directories in the installation directory (\TUN by default under Windows 3.x, or \Program Files\TUN\ under Windows 95):

Directory	Program
KERNELW*	Tun KERNEL
TCPW	Tun NET
MAIL	Mail & fax application in Tun NET
EMUL	Tun EMUL
SQL	Tun SQL
COMMON	Directory common to all the components

* : only under Windows 3.x if you have asked for **Tun KERNEL** installation.

For each product proposed in **Tun PLUS**, please consult the corresponding manual if you would like to see the detailed list of installed files.

The program **Netscape** is installed in the directory of your choice.

INSTALLATION OF THE POP3 SERVER UNDER UNIX

For the e-mail application in **Tun NET** to be able to receive messages from a UNIX user directly on the PC where it is installed, the UNIX machine must have a POP3 server program installed. Generally speaking, the server program is not supplied as standard with UNIX machines. To compensate for this, **Tun PLUS** includes a pre-compiled freeware program for the most common UNIX machines (AIX, SunOS, HP-UX, and SCO). The server is included in the **Tun PLUS** installation procedure in the file POP3.TAR.

To install the server, follow the instructions given in the **Tun NET** manual in the chapter entitled **Server Configuration (LAN)**

INSTALLATION OF THE FAX SERVER UNDER UNIX

In addition to handling Internet messages, the **Tun NET** e-mail application also includes the capability of sending and receiving faxes via a UNIX server.

This facility is only possible if the program **tunfax** has already been installed on the UNIX machine.

Tunfax is a program that has been specifically developed by ESKER for inclusion in its e-mail package. It has been pre-compiled for the most common UNIX machines. The server is included in the **Tun PLUS** installation procedure in the file FAX.TAR.

To install the server, refer to the instructions given in the **Tun NET** manual in the chapter entitled **Server Configuration (LAN)**

INSTALLATION OF DATABASE SERVERS UNDER UNIX

Tun SQL is a "middleware" program which enables Windows applications to communicate with remote databases installed on UNIX hosts. **Tun SQL** uses ODBC functionality.

In order to use **Tun SQL**, a specific program (server) has to be installed on the UNIX machine(s). The server program has been developed by ESKER and is available, already compiled, for the most common UNIX machines and the most popular databases. Although the server is not included on the **Tun PLUS** installation disks, it may be acquired free of charge by returning the order form included in the **Tun PLUS** package.

To install the server, refer to the instructions given in the **Tun SQL** manual in the chapter entitled **Installation under UNIX**

INSTALLING THE FILE TRANSFER MODULE UNDER UNIX

The asynchronous emulation program supplied with **Tun PLUS (emulwin)** permits the transfer of files between UNIX and PCs running Windows during an active **telnet** or **RS232** session. This function will only work if the program **rtunplus** has been installed on your UNIX machine.

Rtunplus has been specifically developed by ESKER for this purpose. It is delivered in the form of source code or in a pre-compiled form for the most common UNIX machines. The server is included in the installation procedure of **Tun PLUS** and is also contained in source code form in the file RTUNPLUS.C.

To install **rtunplus**, refer to the instructions given in the **Tun EMUL** manual in the chapter entitled **Installation**.