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Part A: Overview

"LanTraffic V2" is a connection and data generation tool for IP networks. Data flows use TCP (Transmission Control Protocol) or UDP protocol (User Datagram Protocol), which is used by mailing exchanges, file transfer and World Wide Web transmission. "LanTraffic V2" needs at least two PCs running on Windows XP Home or Professional, Windows 2000 Professional or Server, Windows NT 4 Service Pack 6 Workstation or Server, Windows 98 or Me.

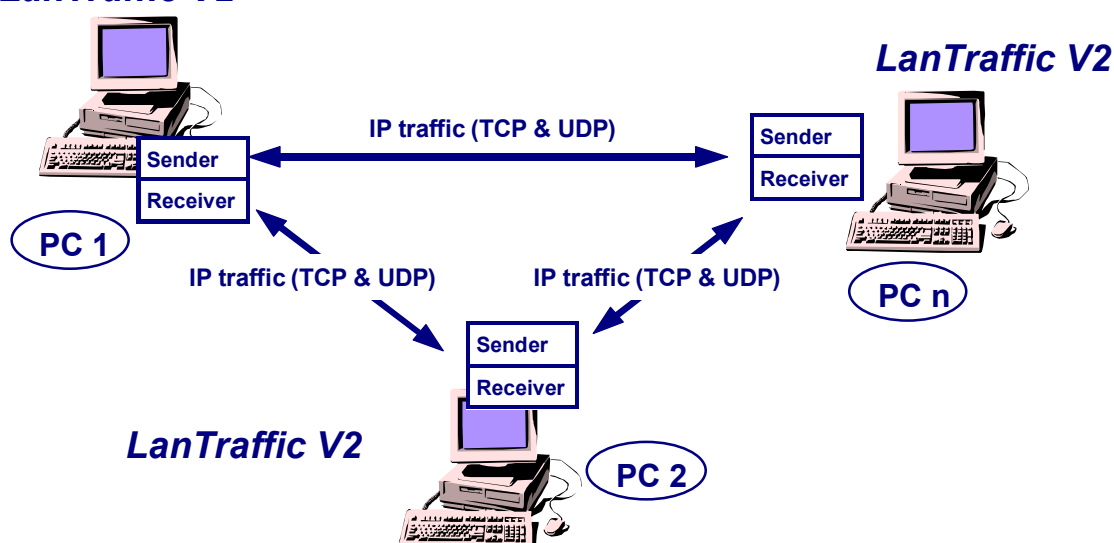
Screen resolution must be at least 1024 x 768.

Each PC shall have at least one Ethernet connection (LAN card i.e. NIC, remote access...).

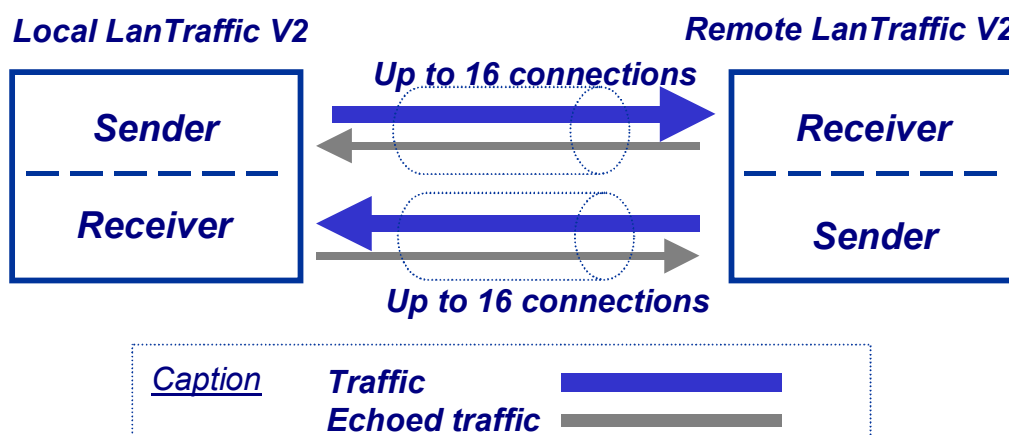
Acrobat Reader is needed to display the Help.

Various testing configurations can be implemented using more than two PCs. "LanTraffic V2" establishes TCP or UDP connections between PCs through the IP network.

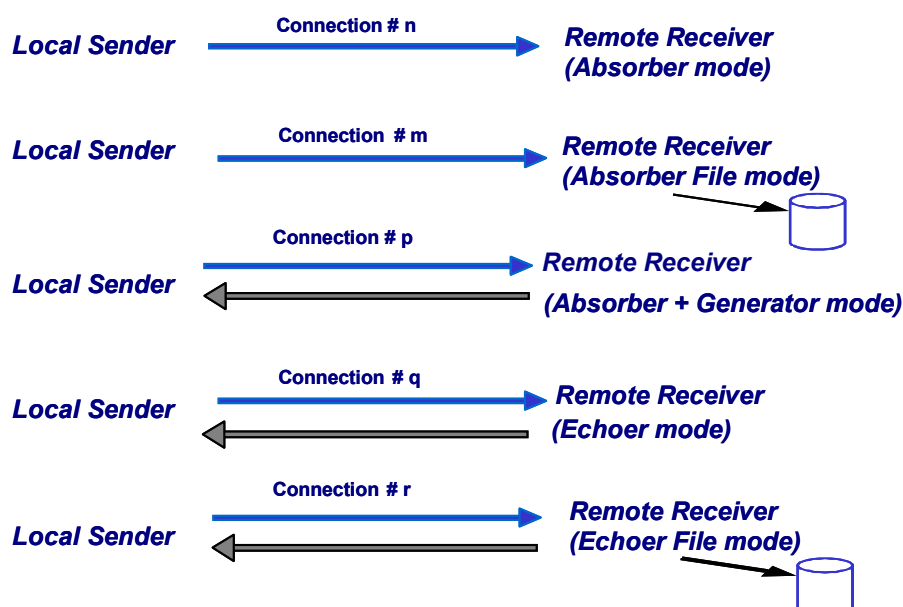
LanTraffic V2



The "LanTraffic V2" testing tool is composed of a **Sender** part and a **Receiver** part.



- The **Sender part** generates up to 16 simultaneous connections. Connections can be generated following two different testing modes:
 - ⇒ In the unitary mode you can select the traffic generator data source and configure packets size and inter-packet delay for each connection. "LanTraffic V2" offers three different data sources:
 - Automatic data generator by using mathematical laws,
 - Packets generator: many parameters can be defined (number of packets to send, inter packet delay, packet contents, ...)
 - File: selection of a file to send.
 - ⇒ In the automatic mode you select one mathematical law for connections generation starting time and another mathematical law for data volume to send to generate up to 16 connections.
- The **Receiver part** receives traffic (up to 16 simultaneous connections) and operates following different working modes: Absorber, Absorber file, Absorber + Generator, Echoer, Echoer File.



Multicast feature



The "LanTraffic V2" software is able to generate and receive Unicast and Multicast IP traffic. The multicast feature is used only for the UDP protocol. Used only with UDP protocol, IPv4 addresses from 224.0.0.0 to 239.255.255.255 are MULTICAST IP addresses.

These addresses can be used to generate multicast IP traffic (define the multicast IP address in the Sender part) or to receive multicast IP traffic (define the multicast IP address in the Receiver part).

For information: these IPv4 addresses 224.0.0.0 to 224.255.255.255 don't generate IGMP JOIN /LEAVE messages

IP version selection (Windows XP and later)

Microsoft has included the IPv6 protocol stack in Windows XP. IPv6 is not commercially available with older Windows version. A research - partial - implementation was available for Windows 2000. Microsoft does not support it. ZTI doesn't offer the use of the Windows 2000 IPv6 stack with "LanTraffic V2".

IPv6 is not installed by default: it should be added on the network interface you want to use.

"LanTraffic V2" supports the IPv6 numerical address format (128 bits long) as well as canonical addresses. The IPv6 multicast is available with "LanTraffic V2", in accordance to RFC 2373 where a multicast IPv6 address starts with FF.

With IPv6, the maximum size of the TCP packet is **1440** bytes whereas it is 1460 bytes with IPv4.

Interface selection

The interface selection of a LAN card (NIC), a virtual NIC such as an IP tunneling protocol or a remote access is useful to control the data traffic hardware route.

The "LanTraffic V2" software is able to generate and receive Unicast and Multicast IP traffic on a selected interface, giving the user a deeper control where data are exchanged with and to reduce ambiguity when multiple routes are defined.

Statistics values

Statistics values presented by 'LanTraffic V2' are computed at the Application level. They don't include the protocol header, the IP header nor data link header and/or trailer.

Part B: install, uninstall and license configuration

The "LanTraffic V2" software needs less than of ten megabytes free disk-space. By default, the setup folder will be C:\Program files\LanTrafficV2.

The "Automation Tool for LanTraffic V2" add-on software is automatically installed with the "LanTraffic V2" software.



**** To run "LanTraffic V2" your computer's screen resolution must be configured on 1024 X 768 (at least).***

**** For Windows NT, 2000 and XP you must be logged on with administrator privileges.***



It is advisable to first close anti-virus application before installing "LanTraffic V2". Please note that you should mask the task bar in a 1024x768 screen resolution, so you could have an optimal view of the software interface.

The "LanTraffic V2" software is configured by default with a 15-day limited license. When the time limit expires, "LanTraffic V2" will cease to run. See paragraph III below for more information about the license program.

The installation procedure is a standard installation program for Windows 98, Me, NT4, 2000 and XP.

1. Install from a downloaded trial version



The installation procedure under Windows NT4, 2000 or XP requires to be logged on with administrator privileges.

If you have downloaded the "LanTraffic V2" software trial version from our website, you have downloaded the file "Setup_LanTrafficV2Bundle.exe".

Run "Setup_LanTrafficV2Bundle" and follow the "LanTraffic V2" setup instructions to proceed with the installation.

By default, the "LanTraffic V2" software will be installed in the following directory: C:\Program Files\LanTrafficV2

The "LanTraffic V2" installation procedure will install the following files on your disk, in particular:

- LanTrafficV2.exe: program file
- LanTraffic V2 User Guide: PDF format. (You can use for example the free Adobe® Acrobat® Reader® software. See www.adobe.com).
- Aut_LTV2.exe: program file (Automation tool)
- Automation Tool for LanTraffic V2 User Guide: PDF format
- LanTrafficV2 license help file
- Version.txt: text file, which contains information about versions and Registry commands.



All files created by "LanTraffic V2" will be saved in the folder where "LanTraffic V2" has been installed.

Start Menu shortcuts created:Start > Programs > **LanTraffic V2**

- ⇒ **LanTraffic V2** (click to run the software)
- ⇒ **LanTrafficV2 User Guide** (PDF format)
- ⇒ **Automation Tool for LanTrafficV2** (click to run the software)
- ⇒ **Automation Tool for LanTrafficV2 User Guide** (PDF format)
- ⇒ **License help**
- ⇒ **Uninstall LanTrafficV2**

With a “LanTraffic V2” trial version, when you run it for the first time, a message is displayed showing remaining days of use (for example, 15 days left out of 15 in the following example):



Please refer to the third paragraph to configure your license.

2. Install “LanTraffic V2” from the CD-ROM

The installation procedure is a standard installation program.



The installation procedure under Windows NT4, 2000 or XP requires to be logged on with administrator privileges.

- First, insert the “LanTraffic V2” CD-ROM on disk drive.
- Click on “Start”, “Execute” and type “CD unit>: \Setup_LanTrafficV2Bundle.exe”. Follow the “LanTraffic V2” setup instructions to proceed with the installation. By default, the “LanTraffic V2” software will be installed in the following directory:
C:\Program Files\LanTrafficV2.

Start Menu shortcuts created:Start > Programs > **LanTraffic V2**

- ⇒ **LanTraffic V2** (click to run the software)
- ⇒ **LanTrafficV2 User Guide** (PDF format)
- ⇒ **Automation Tool for LanTrafficV2** (click to run the software)
- ⇒ **Automation Tool for LanTrafficV2 User Guide** (PDF format)
- ⇒ **License help**
- ⇒ **Uninstall LanTrafficV2**

When you launch “LanTraffic V2” for the first time, a message is displayed showing remaining days of use, even if you have bought an unlimited license (for example, 15 days left out of 15 in the following example):



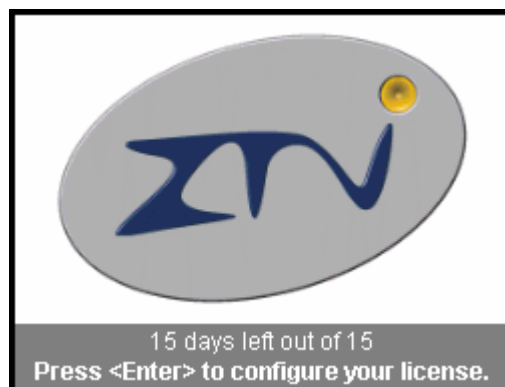
Please refer to the next paragraph to configure your unlimited license.

3. License Configuration

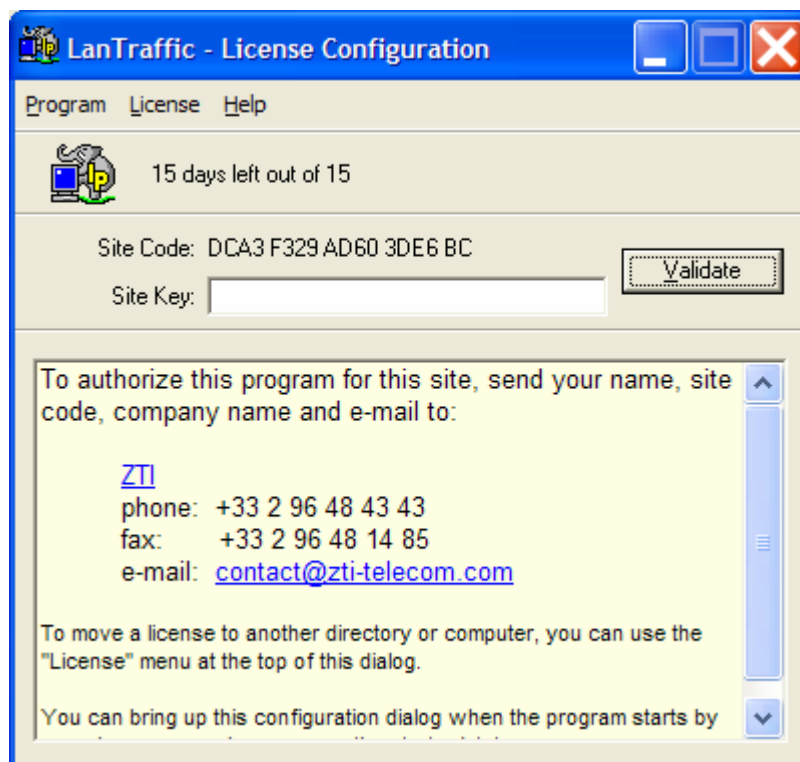
3.1 To configure a license

Note: This software is licensed on a per workstation basis. You will need to have a separate license for each machine that you install it on. Each licensed copy of the software installed on a system has a unique Site Code which requires the corresponding unique Site Key to be entered before the tool is operational (except for a trial version: a duration of 15 days is automatically enabled at the first installation of the software. If you try to install again the software, the license program disables the trial period).

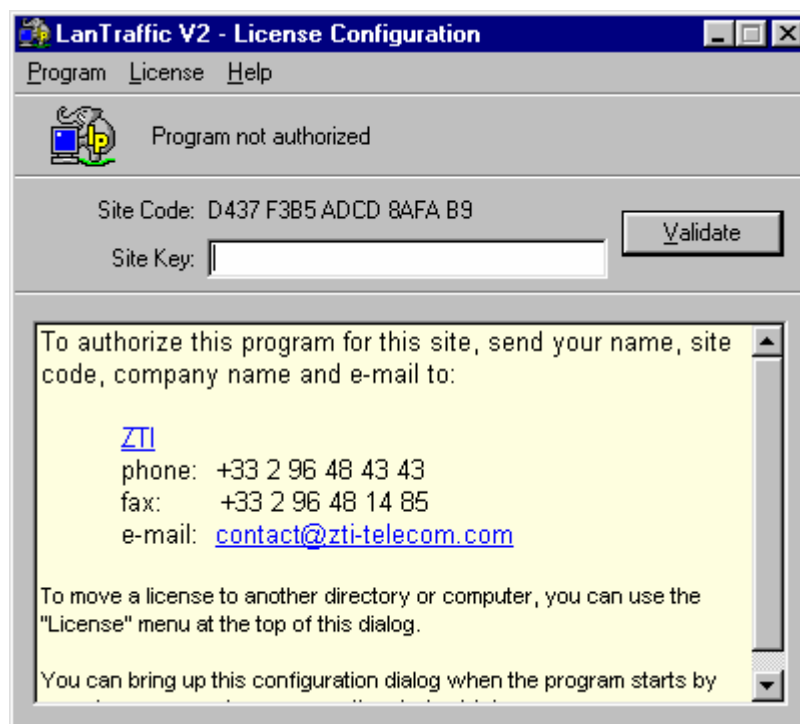
If you wish to configure your license before trial period end, please press **Enter** when the following message is displayed:



Therefore, you will obtain the license configuration dialog as follows:



At the end of the trial period when you launch "LanTraffic V2", the same license configuration dialog appears, with a specific mention instead of the remaining days of use: "Program not authorized".

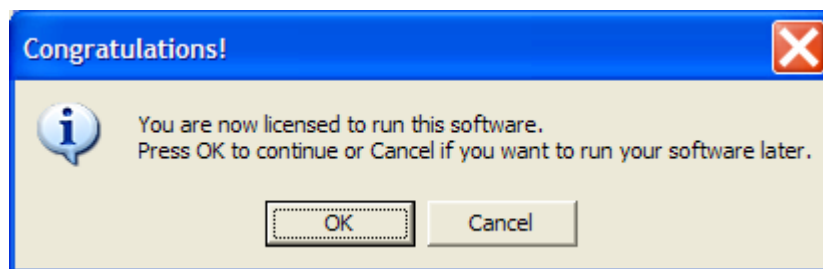


To get the 'Site Key' and obtain an unlimited version, please send your name, 'Site Code' (specific to your installation), company name, e-mail and preferred method of payment (if you haven't bought the "LanTraffic V2" software yet) to: contact@zti-telecom.com or contact@zti.fr.

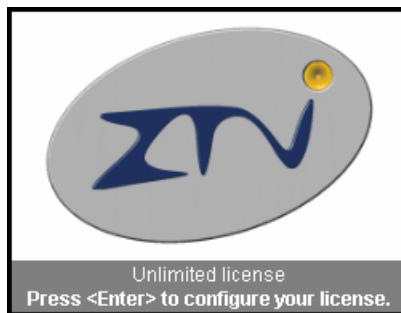
We will send you your 'Site Key' once we receive the payment.

If you have already bought the license, please email your Site Code and we will email you back the Site Key.

After you have entered your Site Key, you get the following message:



You will see the following dialog when you launch "LanTraffic V2" if you have an unlimited license:



3.2 License Transfers



***A license transfer is not a duplication of any type.
Please contact ZTI or your authorized distributor for site license information
and for several licenses purchase.***

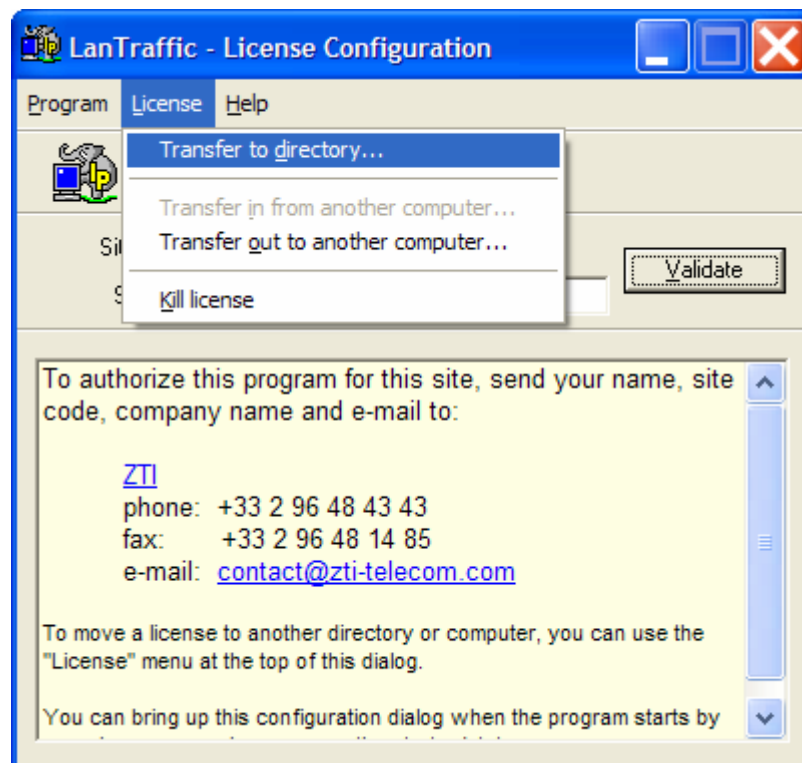
Licenses can be transferred using one of the following methods:

- ⇒ **Direct transfer:** move the license to another directory on the same PC or between two networked PCs.
- ⇒ **Transfer by media:** move the license from a source PC to a target PC by using a floppy disk or USB key.

3.2.1 Direct Transfer: move the license from one local directory to another


This transfer mechanism must be used to move a license in two cases:

- from a source to a target directory of the same PC
 - from a source to a target directory of networked PCs
- First, copy the program (copy the folder “LanTraffic V2”) to the target directory.
For example from “C:\Program Files\LanTrafficV2” to “C:\Temp\LanTrafficV2”
 - Then run the program in the original directory (from “C:\Program Files\LanTrafficV2”). When the license configuration window appears, press **Enter** and select in the menu “License > Transfer to directory ...”, as shown below:



- Provide the path name of the target program (for example *C:\Program Files\LanTrafficV2\LanTrafficV2.exe*).
The program copy now has the license awarded the original.

3.2.2 Transfer by media (floppy disk or USB key) from a source PC to a target PC

 A floppy disk or USB key is needed for this kind of transfer.

To transfer the license from the source PC (PC #1) to the target PC (PC #2), proceed as described in the following points.

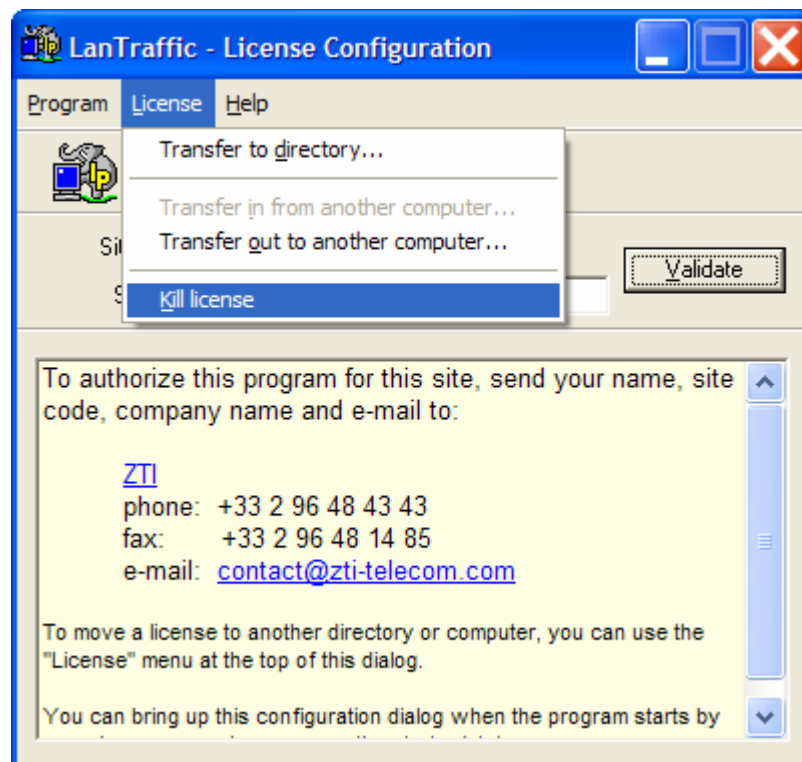
Point 1: First install the program on the target PC (PC # 2).

Point 2: Run the software on PC # 2 and kill the trial license in order to have an unauthorized license on this PC.

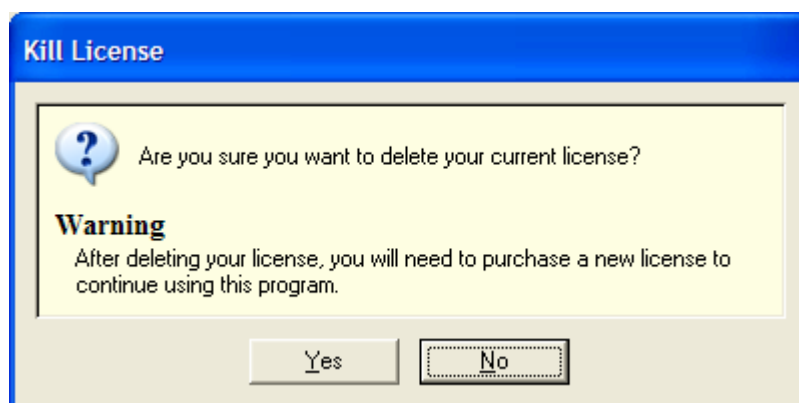
You need to kill the license if the "Transfer in from another computer ..." item of the license menu is disabled.

To kill the license, please proceed as follows.

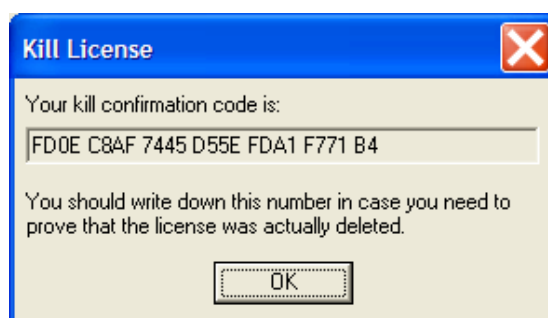
When the license configuration window appears, press **Enter** and select in the menu "License > Kill license".



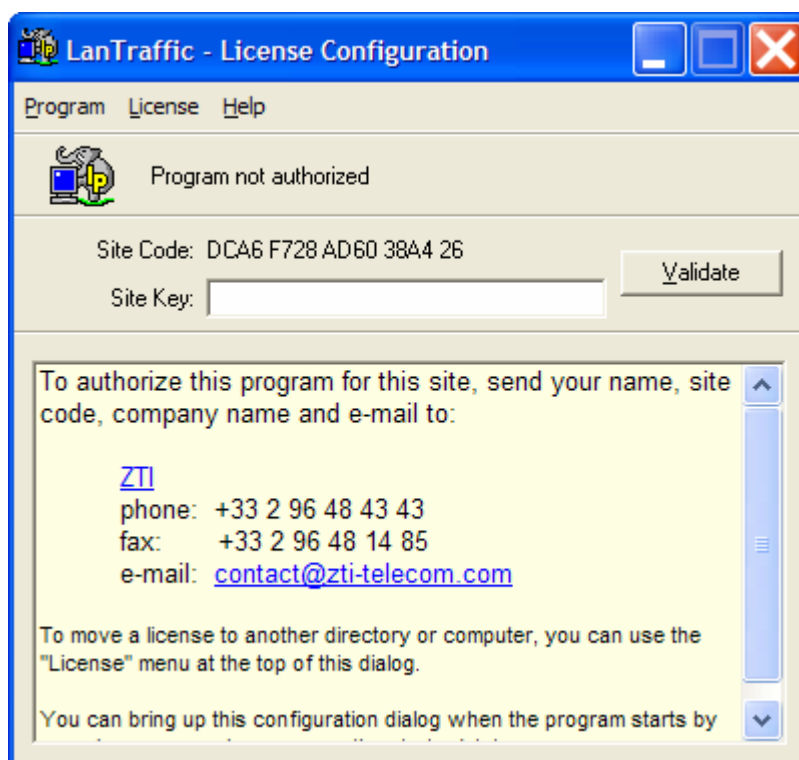
A message box appears, press 'Yes' to kill the license.



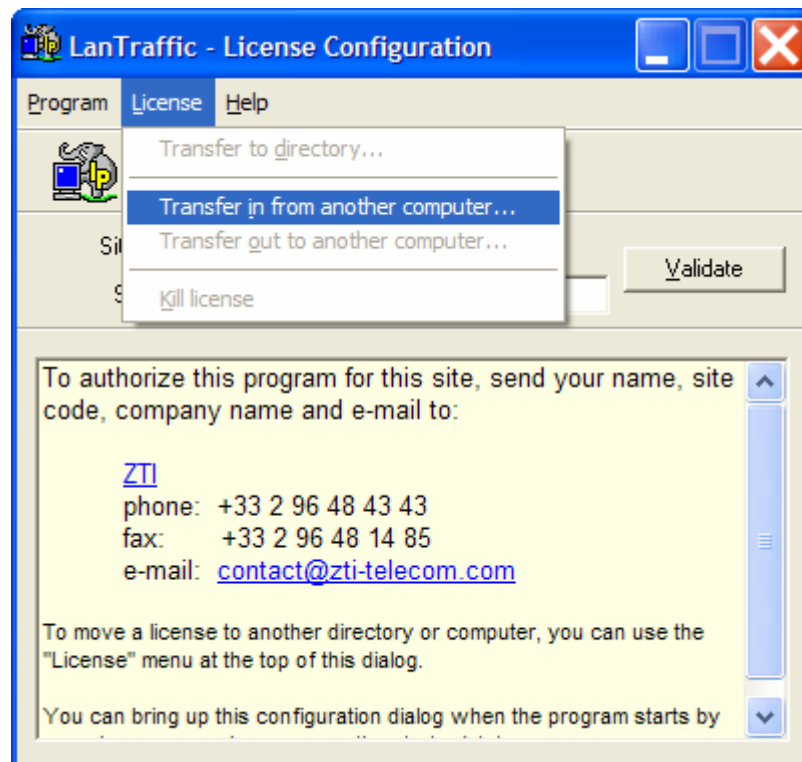
And a kill confirmation code is displayed.



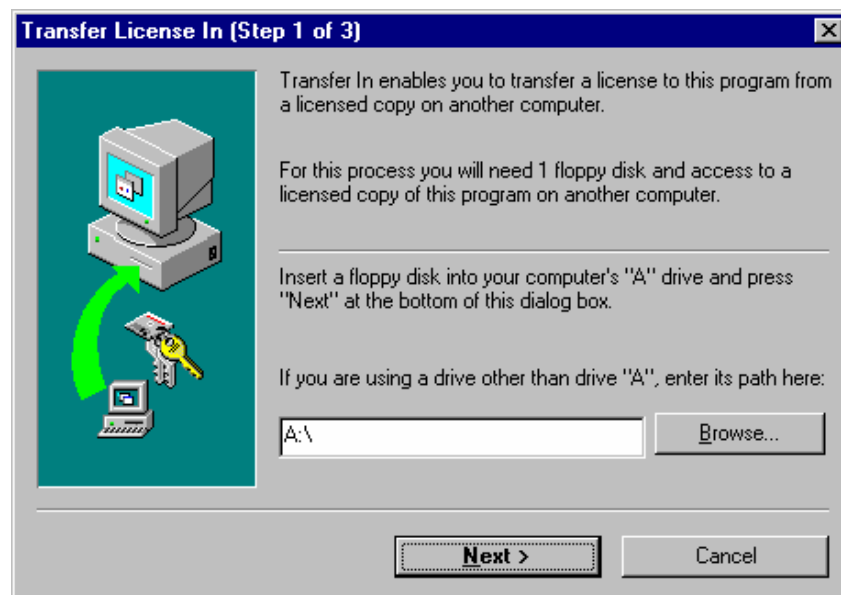
The license window displays now "Program not authorized" as following:



Point 3: select in the license menu, the item: "License > Transfer in from another computer ..."

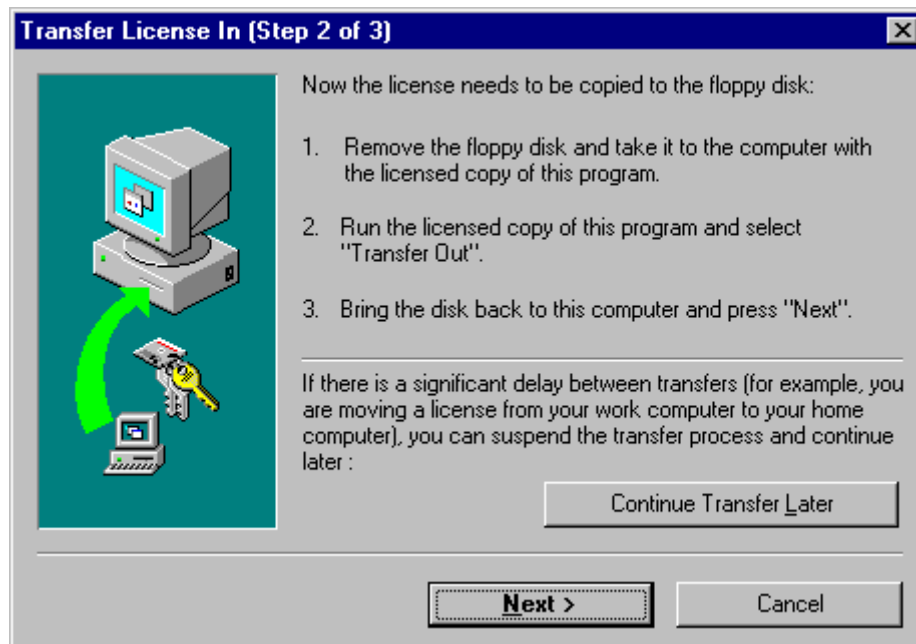


and the "Transfer License In (Step 1 of 3)" window is displayed:

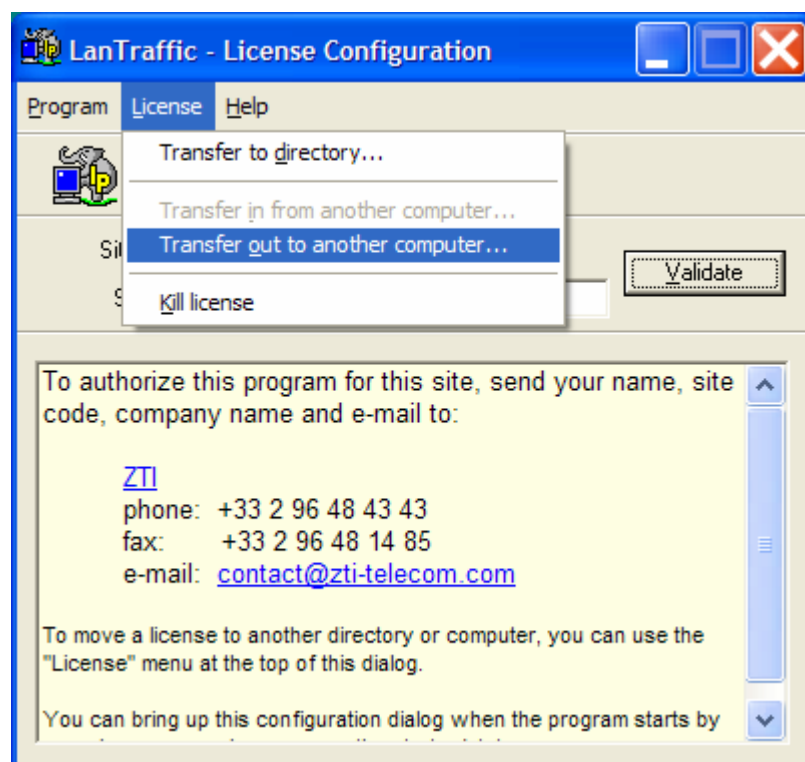


Point 4: Insert a floppy disk or use a USB key as requested in step 1 of 3 and specify the path.

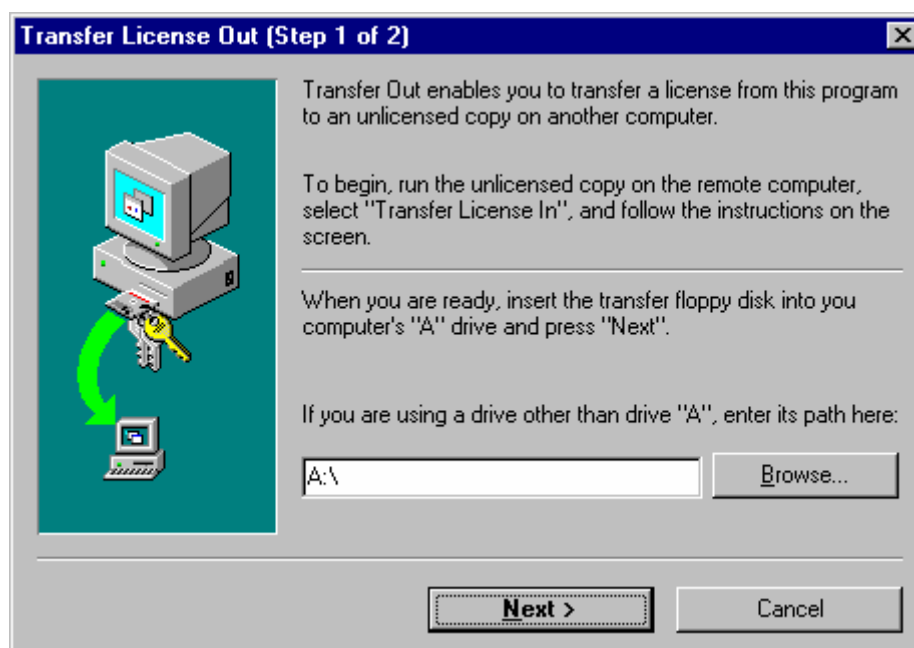
Then press "Next >" and the "Transfer License In (Step 2 of 3)" window is displayed:



Point 5: go to the source PC (PC #1) and insert the media (floppy disk or USB key). Then start the program on PC #1. When the license configuration window appears, press **Enter** and select in the menu "License > Transfer out to another computer ..." as shown below:

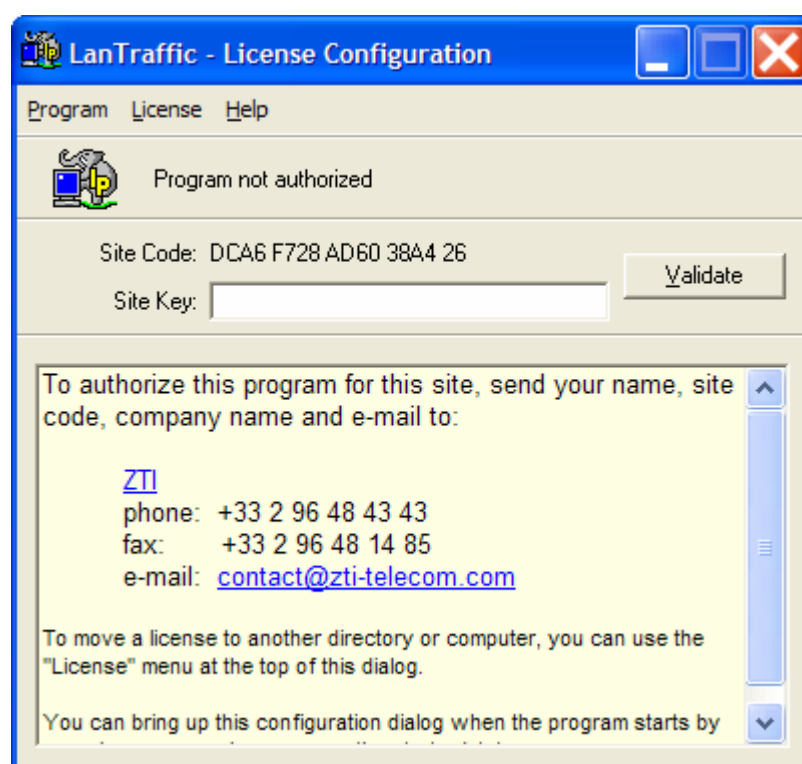


Then the following window is displayed:



Input the media path (floppy disk or USB key) and then press "Next >".

When the license is put on the media, you get the "Program not authorized" message:



You can check that the license is no more available on the source PC since the LanTraffic V2 software license is on a per workstation basis. Contact us to get information on site license (contact@zti.fr or contact@zti-telecom.com).

Point 6: Remove the media from PC #1 and return to PC #2.

Click the 'Next' button on the step 2 of 3 of the "Transfer license in" window (on PC #2) to complete the transfer.

The unlimited license key is now transferred from the source PC to the target PC, and you get the following message:



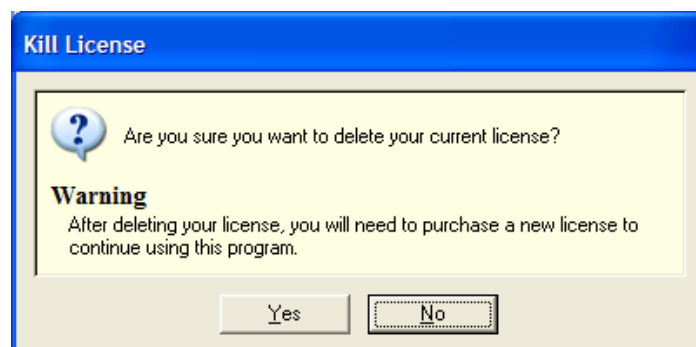
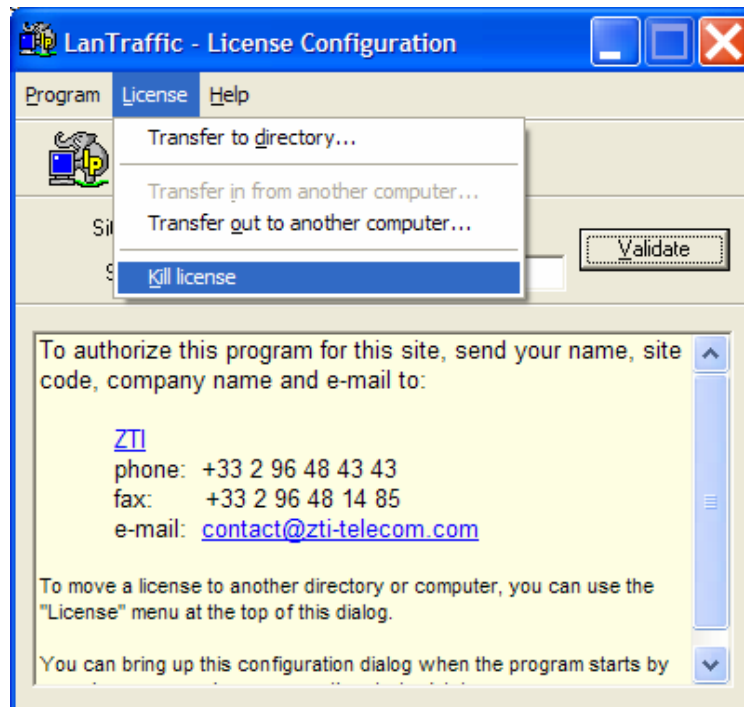
Click Finish to continue.

3.3 Kill a license

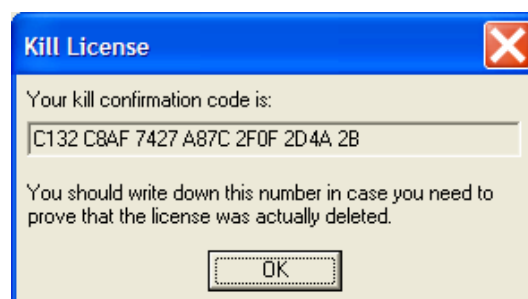
If you would like to transfer an unlimited license key onto a PC where a trial period is still active, you should first kill the active trial period. If you don't kill the active trial period, you will not be able to transfer an unlimited license.

To kill the trial license, you should proceed as follows:

- On the license configuration window, select in the menu "License > Kill License" as shown below. A message box appears, press OK.



- Press 'Yes' and then your license is now killed. Please, write down the kill confirmation code. This code may be requested by ZTI.



4. Uninstall “LanTraffic V2”

The uninstall procedure is a standard uninstall program.
In the “Start > Programs > LanTraffic V2” menu, select “Uninstall LanTraffic V2”.

You must then delete all remaining files in the directory: C:\Program Files\LanTrafficV2.

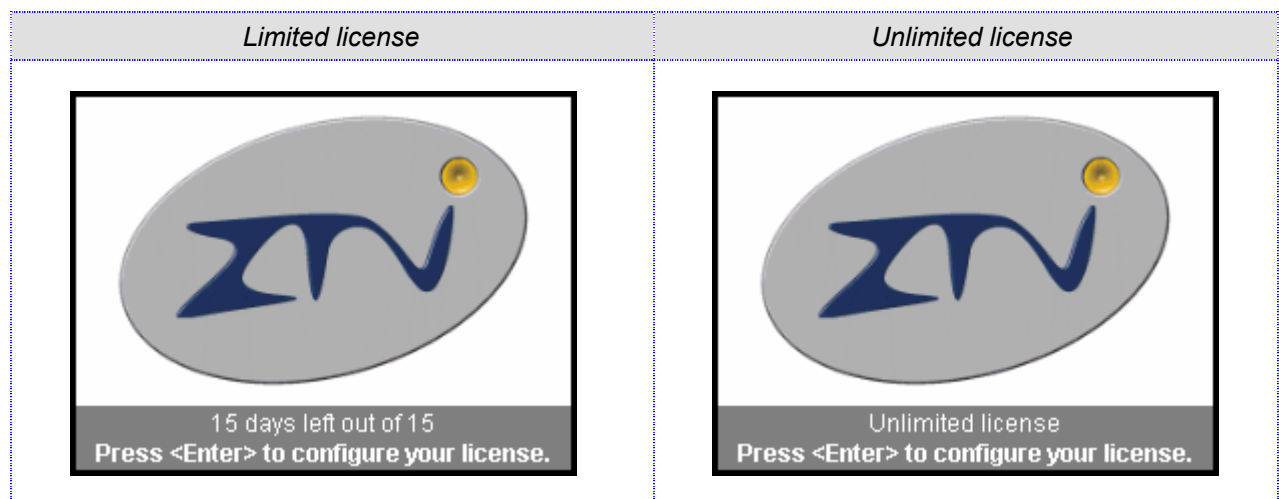
Part C: Run "LanTraffic V2"

By using the taskbar:

Start ► All Programs ► LanTraffic V2 ►  and click.

Then the software is launched.

After a while and depending of your license, you will get the following license window:



Press **Enter** only if you need to configure your license,
else do nothing to run “LanTraffic V2”.