

## Summary

Version 2.4

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***Traffic Generator for IP Networks (IPv4 & IPv6)***  
***LAN, MAN, WAN, WLAN, WWAN, Mobile, Satellite, PLC, etc.***

## PART 0 Overview

### 0.1. *LanTraffic V2 Key Features*

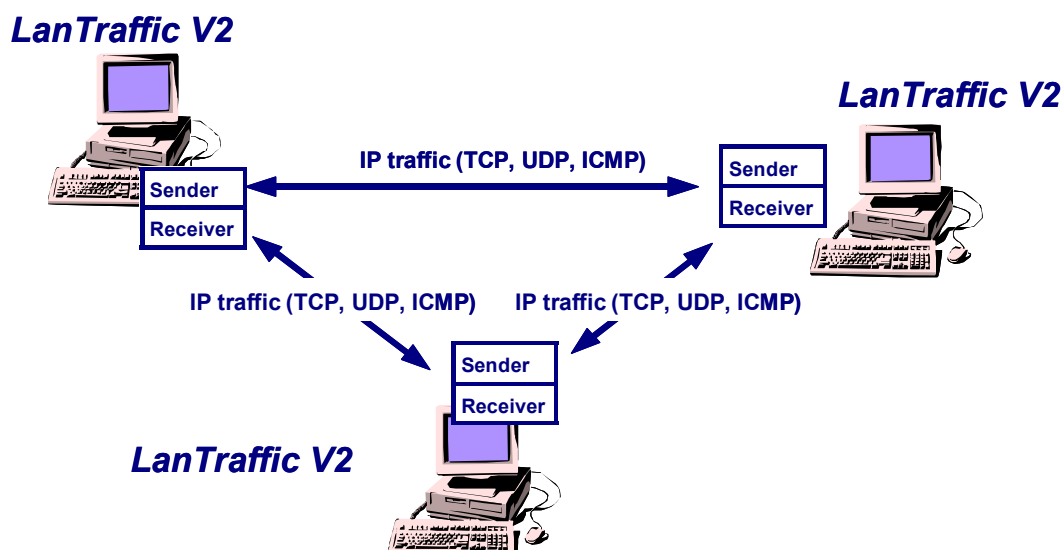
The **LanTraffic V2** software generates traffic for IP networks by using the following protocols: TCP (Transmission Control Protocol), UDP (User Datagram Protocol) or ICMP (Internet Control Message Protocol).

**LanTraffic V2** is supported on the following platforms: Windows XP Home or Professional, Windows 2000 Professional or Server, Windows NT 4 Service Pack 6 Workstation or Server, Windows 98 or Me. It needs at least one Ethernet connection (LAN or WLAN card i.e. NIC, remote access...).

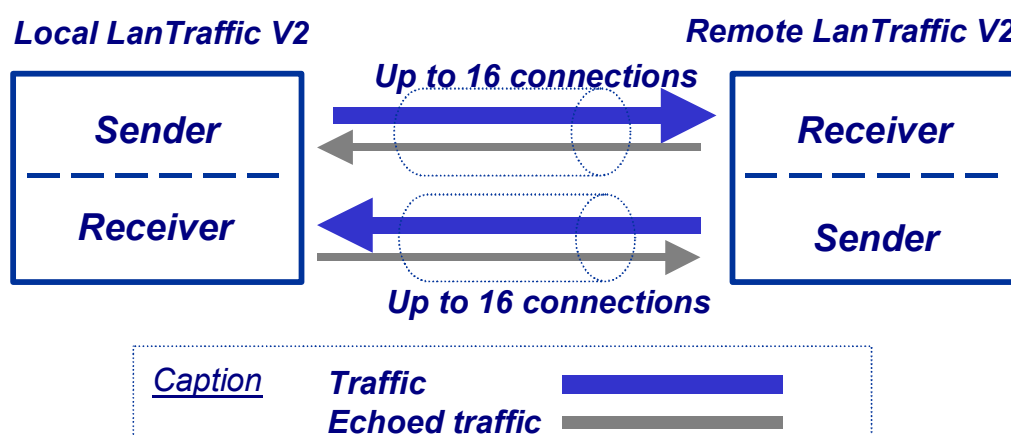
The minimum screen resolution is 1024 x 768 and the DPI setting should be "Normal size (96 DPI)".

**LanTraffic V2** requires Acrobat Reader to display the software's Help file. The add-on software called **Automation Tool for LanTraffic V2** allows automating operations with **LanTraffic V2**. For instance, you can run test campaigns automatically.

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



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



- The **Sender** generates up to 16 simultaneous UDP and/or TCP connections. Connections can be established in two different testing modes:
  - ⇒ **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.

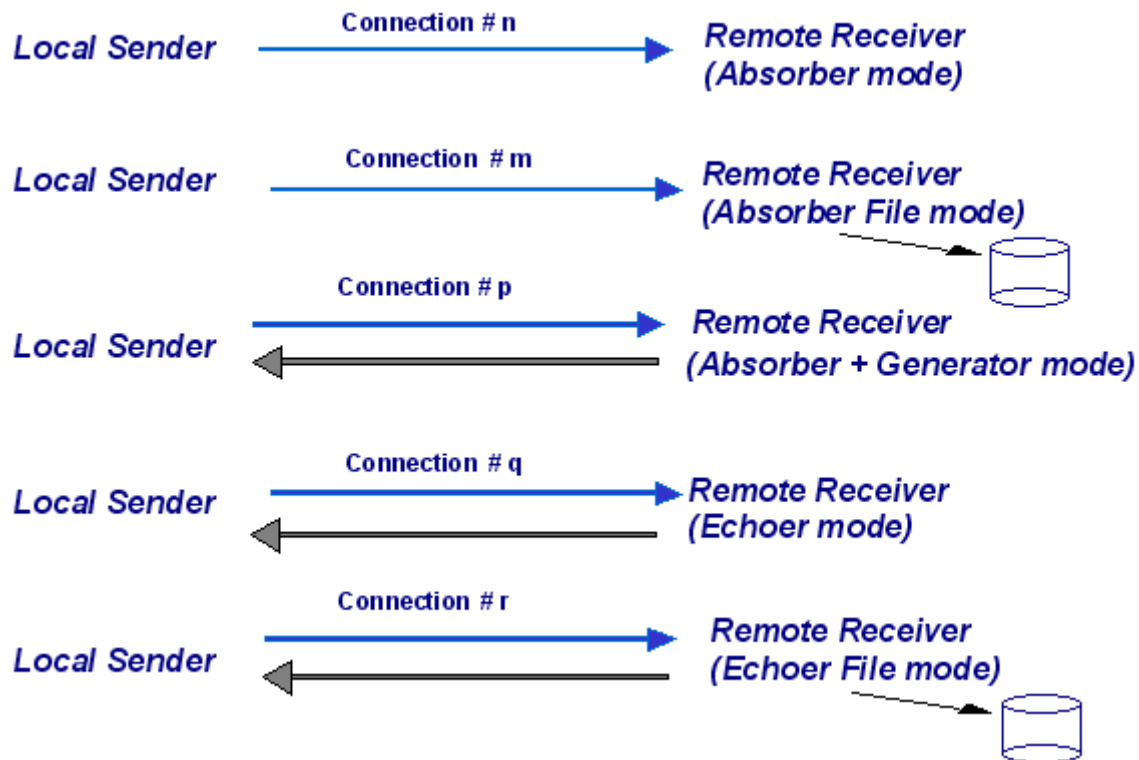
- ⇒ **Automatic Mode:** select one mathematical law for connections generating (up to 16 connections) and starting time, then select a second mathematical law for data volume to be sent.
- ⇒ **Statistics:** for each connection the following statistics parameters are displayed by the **Sender** and can be saved in a file:
  - Sent throughput
  - Received throughput
  - Sent packet throughput
  - Received packet throughput
  - Sent data volume
  - Received data volume (volume of data sent by the remote)
  - Sent packets
  - Received packets (packets sent by the remote)
  - Data volume to send
  - Remaining volume (of data to send)
  - Sequence numbering errors
  - RTT Mean (Round Trip Time)
  - Jitter
- The **Sender** can also generate up to 16 simultaneous ICMP connections, but through the unitary testing mode only:
  - ⇒ **Unitary mode:** for each IP connection, you can select the traffic generator data source, specify the ToS byte (Type of Service) and the Time To Live byte (TTL).

Find below the different possibilities available with the ICMP protocol:

    - ICMP Echo request packet number and content: packet generator (fixed, random, alternated and increasing / decreasing).
    - ICMP Echo Request data size: fixed, random, alternated and increasing / decreasing.
    - ICMP Echo Reply receiving timeout: fixed, random, alternated, increasing / decreasing or use of a mathematical law.
  - ⇒ **Statistics:** for each connection the following statistics parameters are displayed by the **Sender** and can be saved in a file:
    - Sent ICMP requests (Tx Packets)
    - Received ICMP replies (Rx Packets, responses sent by the target remote)
    - Sequence numbering errors
    - RTT Mean (Round Trip Time)

- The **Receiver** receives traffic (up to 16 simultaneous connections) and operates five different working modes: Absorber, Absorber File, Absorber + Generator, Echoer and Echoer File.

⇒ Each Receiver's connection can be set up according to one of the following five modes:



*Note: in this document, we will consider that the local machine is used for sending traffic and the remote one is used for receiving traffic.*

⇒ **Statistics:** for each connection the following statistics parameters are displayed by the **Receiver part** and can be saved in a file:

- Sent throughput
- Received throughput
- Sent packet throughput
- Received packet throughput
- Sent data volume
- Received data volume (volume of data sent by the remote)
- Sent packets
- Received packets (packets sent by the remote)
- Data volume to send
- Remaining volume (of data to send)
- Sequence numbering errors
- Data not echoed
- Jitter

## Multicast feature



**LanTraffic V2** is able to generate and receive Unicast and Multicast IP traffic (IPv4 and IPv6). The multicast feature is used for the UDP protocol only.

- **Multicast & IPV4:** 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 239.255.255.255 do not generate IGMP JOIN /LEAVE messages.
- **Multicast & IPv6:** IPv6 multicast addresses are defined in "IP Version 6 Addressing Architecture" [RFC2373].  
This defines fixed and variable scope multicast addresses.  
IPv6 multicast addresses are distinguished from unicast addresses by the value of the high-order octet of the addresses: a value of 0xFF (binary 11111111) identifies an address as a multicast address; any other value identifies an address as a unicast address (FE80::/10 are Link local addresses, FEC0::/10 are Site Local addresses where FF00::/8 are Multicast addresses).  
Multicast addresses from FF01:: through FF0F:: are reserved.  
The complete list of Reserved IPv6 multicast addresses can be found in "IPv6 Multicast Address Assignments" [RFC 2375].  
The ICMPv6 messages are used to convey IPv6 Multicast addresses resolution.

## IP version selection (Windows XP and later)

Please note that **LanTraffic V2** supports IPv6 for Windows XP and later versions (i.e. 2003 Server) but doesn't support IPv6 for Windows 2000.

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 packet to avoid fragmentation is **1440** bytes whereas it is 1460 bytes in TCP 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.

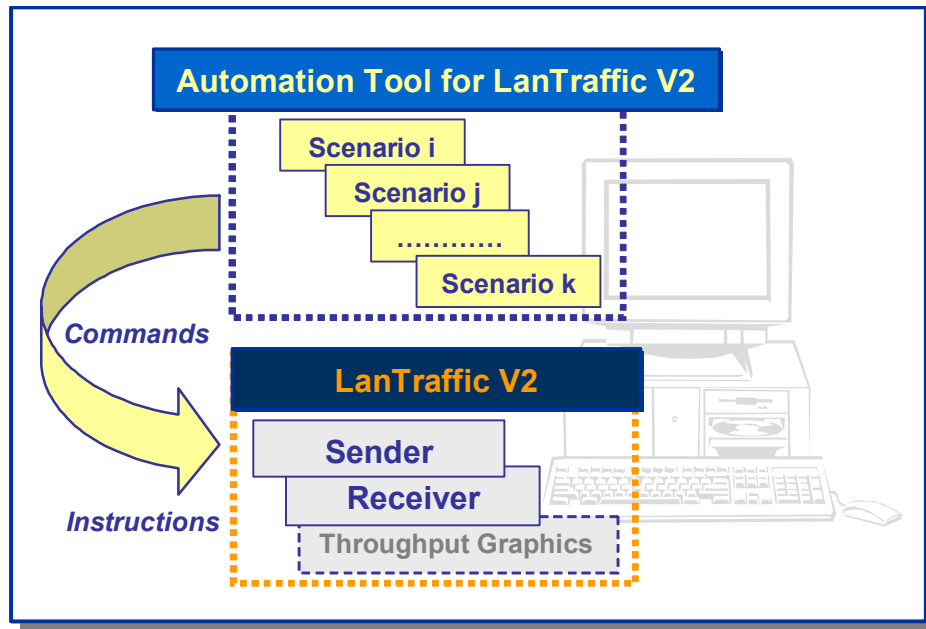
The **LanTraffic V2** software is able to generate and receive Unicast and Multicast IP traffic on a selected interface, giving the user a deeper control where data are exchanged and makes multiple routes definition easier.

## Statistics values

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

## 0.2. The Automation Tool for LanTraffic V2

The add-on software **Automation Tool for LanTraffic V2** allows you to edit scenarios, carry out scenarios, set the **LanTraffic V2** parameters and pilot **LanTraffic V2** automatically on the same PC.



A scenario is a succession of **commands** and **instructions**.

A **command** is used to set parameters and/or activate a function of **LanTraffic V2**. For example the **Set and Start connection(s)** command helps to set parameters for IP connections and to start the traffic on these connections. With such command you specify the IP address, port number, protocol, packet size, inter packet delay, duration, etc. and you start the traffic generation for these connections.

An **instruction** is used by the Automation Tool to create an internal process. For example, the **Wait Date/Time** instruction suspends the scenario execution up to the specified date and time before to continue.

By using the **Automation Tool for LanTraffic V2** you can:

- Set automatically the parameters of the **LanTraffic V2** software,
- Start and stop IP connections based on timers,
- Execute the scheduled operations in accordance with your own timing,
- Make repetitive tests operations automatically,
- Simplify the tests reproduction,
- And more...

## **PART 1 What's new in LanTraffic V2 Version 2.4**

This part is a general overview of new features and main improvements of **LanTraffic V2** version 2.4. You will find some important information on how to upgrade your software from previous versions.

Details regarding features and corrections included in the different versions of **LanTraffic V2** can be found in the version.txt file located in the installation directory (by default: C:\Program Files\LanTraffic V2).

To upgrade your software from 2.2 or 2.3 to 2.4 version, please refer to paragraph 1.2.

To upgrade your software from 2.1 version and older to 2.4 version, please refer to paragraph 1.3.

### **1.1. New features and improvements included in the version 2.4**

#### **⇒ LanTraffic V2 (Version 2.4)**

- First time users: Getting Started information
- Automatic choice of the IP Version (IPv4 or IPv6) depending on the specified IP address (IP or Host Name)
- IPv6: File Downloading is now available
- Accuracy increased of the refresh statistics process
- **LanTraffic V2** is now able to do ICMP request generation on the Sender Part
- The source port used to generate data is now user-defined

*The contexts created with versions 2.0.12 and higher are reused automatically. When saved, they become the new 2.4 context file format.*

#### **⇒ Automation Tool for LanTraffic V2 (Version 1.3)**

- The Automation Tool is now able to launch an external application for a new scenario command.
- The time reference to interpret date/time (local or UTC) placed in the Automation Tool is now user-defined.
- New feature for the "Wait" command: the time can now be defined without having to enter a date.
- The Automation Tool can be stopped or started to execute a scenario, from the DOS console.

*The scenarios created with older versions are reused automatically. When saved, they become the new 1.3 scenario file format.*

## ***1.2. Upgrading from Version 2.2 or 2.3***

There is no need to uninstall **LanTraffic V2** version 2.3 or 2.2 before upgrading to version 2.4. The installation procedure will detect and update the previous version automatically.

The installation of the **LanTraffic V2** version 2.4 over the **LanTraffic V2** version 2.3 or 2.2 will replace the following application and documentations files:

- LanTrafficV2.exe and Aut\_LTV2.exe,
- "Read Me First.pdf", "LanTraffic V2 User Guide.pdf" and "Automation Tool for LanTraffic V2 User Guide.pdf".

The license scheme is maintained during the upgrade process. If an unlimited license is available, **LanTraffic V2** version 2.4 is ready for unlimited use. If you are using a trial version, the number of remaining days remains the same and will continue to decrease up to the final date.

**LanTraffic V2** version 2.4 requires Acrobat Reader: see paragraph 1.4 for more details.

## ***1.3. Upgrading from Versions 2.1 and older***

There is no need to uninstall **LanTraffic V2** version 2.1 and older before upgrading to version 2.4. The installation procedure will detect and update the previous version automatically.

The license scheme is maintained during the upgrade process. If an unlimited license is available, **LanTraffic V2** version 2.4 is ready for unlimited use. If you are using a trial version, the number of remaining days remains the same and will continue to decrease up to the final date.

**LanTraffic V2** version 2.4 requires Acrobat Reader: see paragraph 1.4 for more details.

## ***1.4. Acrobat Reader version compatibility***

To access the **LanTraffic V2's** help file, Acrobat Reader is required.

**LanTraffic V2** supports Acrobat Reader version from 4.01 to 7.0 that have been tested successfully.

If the Acrobat reader version you are using is too old, you can find the latest version on the **LanTraffic V2's** CD-ROM or download it straight from the Acrobat reader's website: [www.adobe.com](http://www.adobe.com).



## PART 2 Install LanTraffic V2

**LanTraffic V2** requires less than 15 MB of free disk-space. The default settings folder is C:\Program files\LanTrafficV2.

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



*\* To run LanTraffic V2 your computer screen resolution must be at least 1024 X 768 and the DPI setting should be set up with the "Normal size (96 DPI)" value.*

*\* To install LanTraffic V2 for Windows NT, 2000 and XP, you must log on with your administrators rights.*



*We recommend that you shutdown first your anti-virus application before installing LanTraffic V2.*

*Please note that you should mask the task bar in a 1024x768 screen resolution, so you get an optimal view of the software interface.*

The default settings of **LanTraffic V2** come with a 15-day limited license. When it reaches the deadline, **LanTraffic V2** stops running. Go to PART 3 for more information about the license program.

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

### 2.1. How to install the software downloaded from the Internet



*To install LanTraffic V2 for Windows NT4, 2000 or XP, you must log on with your administrators rights.*

If you have downloaded **LanTraffic V2** trial version from our website, you have downloaded the "LanTrafficV2.zip" file including the software and the related documentation.

You must first unzip this file in a temporary directory.

Then run [Setup\\_LanTrafficV2Bundle.exe](#) from this temporary directory to launch the setup procedure and follow the instructions on the screen.

The default settings install **LanTraffic V2** in the following directory: C:\Program Files\LanTrafficV2.

The **LanTraffic V2** installation procedure installs the following files on your hard disk:

- LanTrafficV2.exe: program file
- LanTraffic V2 User Guide: PDF file (use the free version of Adobe® Acrobat® Reader® software. Available on [www.adobe.com](http://www.adobe.com)).
- Aut\_LTV2.exe: program file (Automation tool)
- Automation Tool for LanTraffic V2 User Guide: PDF file
- LanTrafficV2 license help file

- Version.txt: text file which contains information about the versions and the Registry parameters.



*All files created by **LanTraffic V2** are saved in the folder where **LanTraffic V2** has been installed.*

#### Start Menu shortcuts created:

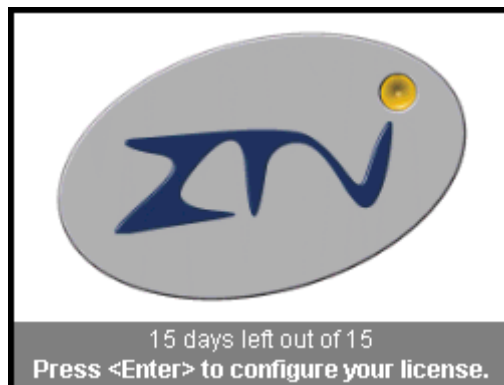
Start > Programs > **LanTraffic V2**

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



***You will need to restart your system in order to complete the installation.***

When launching a **LanTraffic V2** trial version for the first time, a message is displayed showing the remaining days of use (for example, 15 days left out of 15 in the following example):



*Please refer to PART 3 (Software License Configuration)  
to configure your unlimited license.*

## 2.2. How to install the software from the CD-ROM

The installation procedure is a standard installation program.



**To install LanTraffic V2 for Windows NT4, 2000 or XP, you must log on with your administrators rights.**

- First, insert the **LanTraffic V2** CD-ROM in your CD-ROM drive.
- Click on “Start”, “Execute” and type “CD unit>: \Setup\_LanTrafficV2Bundle.exe”. Follow the **LanTraffic V2** setup instructions to proceed with the installation. **LanTraffic V2** default settings install files in the following directory: C:\Program Files\LanTrafficV2.

### Start Menu shortcuts created:

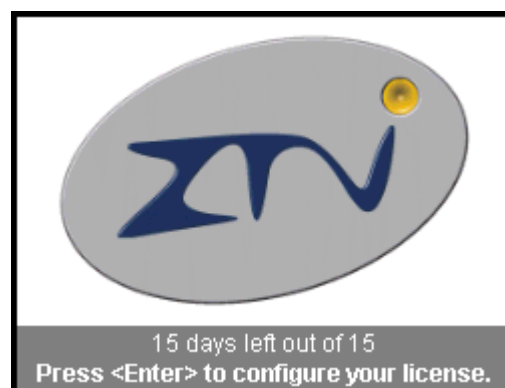
Start > Programs > **LanTraffic V2**

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



**You will need to restart your system in order to complete the installation.**

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



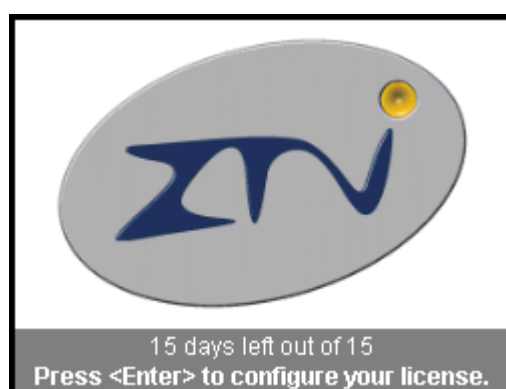
*Please refer to PART 3 (Software License Configuration) to configure your unlimited license.*

## PART 3 Software License Configuration

### 3.1. How to configure the license

*Note: This software is licensed on a per workstation basis. This means that you will need to get a separate license for each machine that you'll install it on. Each licensed copy of the software installed on a system has a unique **Site Code** which requires a 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 the software again, the license program will disable the trial period).*

If you wish to configure your license before the trial period ends, press **Enter** just after launching the software when the following message is displayed:



You will then see the following license configuration window:



At the end of the trial period when you launch **LanTraffic V2**, the same license configuration window appears, but says "Program not authorized" instead of showing the remaining days of use.



To get the **Site Key** and obtain an unlimited version, please send an email to [contact@zti-telecom.com](mailto:contact@zti-telecom.com) or [contact@zti.fr](mailto:contact@zti.fr) with the following information:

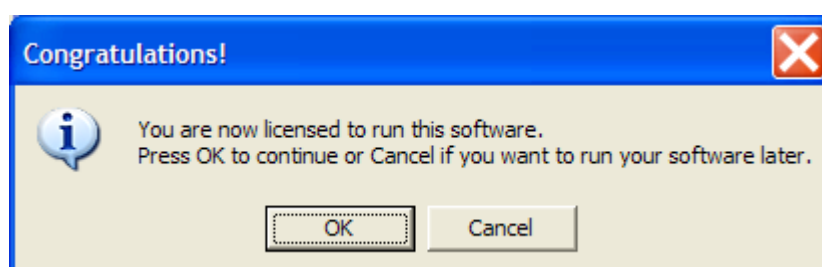
- The **Site Code** (you can copy and paste the Site Code displayed in the license window)
- The name of the software, for example: **LanTraffic V2** or the **LanTraffic V2** software bundle (including the Automation Tool for LanTraffic V2)
- The OS used
- Your company's name
- Your name and phone number
- The purchase order number and date of purchase

We will then email you the **Site Key**. You can now close the license window.

After you have received the email with the **Site Key**, open the license configuration window again by pressing the Enter key as explained before.

Copy the Site Key in and then click "Validate".

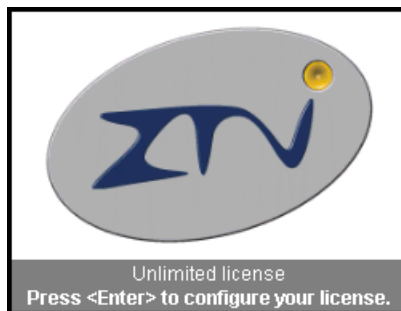
After validation of the Site Key, you will get the following message:



- ⇒ **Important:** one **Site Code** is associated with one **Site Key**, and only one. A **Site Code** is unique for each PC installed. For security reasons, as soon as you validate a **Site Key** (trial or unlimited), the license program generates a new **Site Code** automatically.
- ⇒ For any question or further information, please contact our technical support:  
Email: [support@zti-telecom.com](mailto:support@zti-telecom.com) or [support@zti.fr](mailto:support@zti.fr)  
Phone: +33 2 96 48 43 43  
Fax : +33 2 96 48 14 85



When you launch **LanTraffic V2** with an unlimited license, you will see the following window:



## 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.**

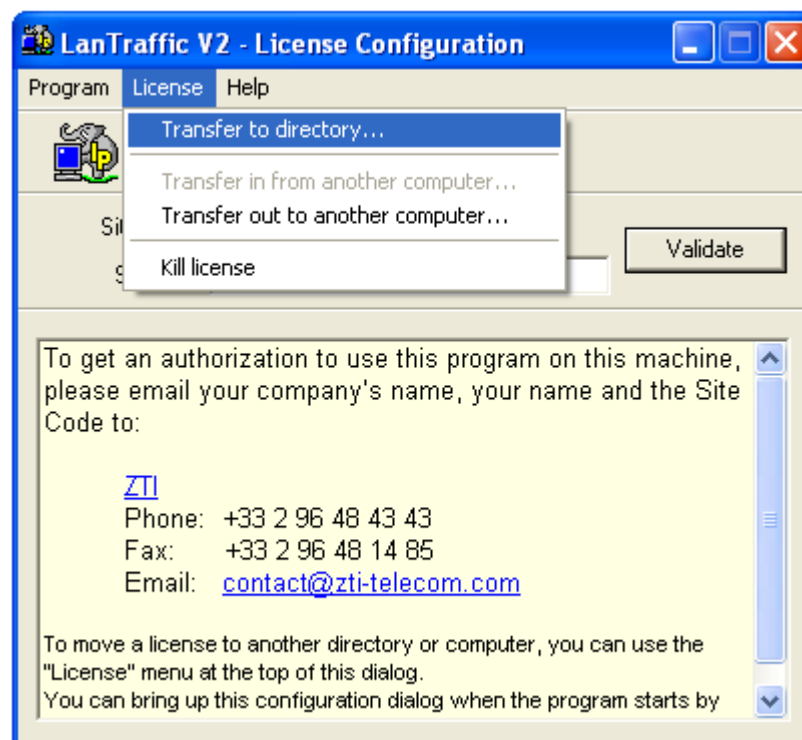
Licenses can be transferred using one of the following methods:

- ⇒ **Direct transfer:** move the license to another directory on the same PC or between two PCs of a same network.
- ⇒ **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 **LanTraffic V2** folder) to the target directory.  
*For example from "C:\Program Files\LanTrafficV2" to "C:\Temp\LanTrafficV2"*
  - Then run the program from its original directory (from "C:\Program Files\LanTrafficV2"). When the license configuration window appears, press **Enter** and select "License > Transfer to directory ..." in the license menu as shown below:



- Provide the path name of the target program (for example *C:\Program Files\LanTrafficV2\LanTrafficV2.exe*).  
The license is now transferred to the new directory.

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



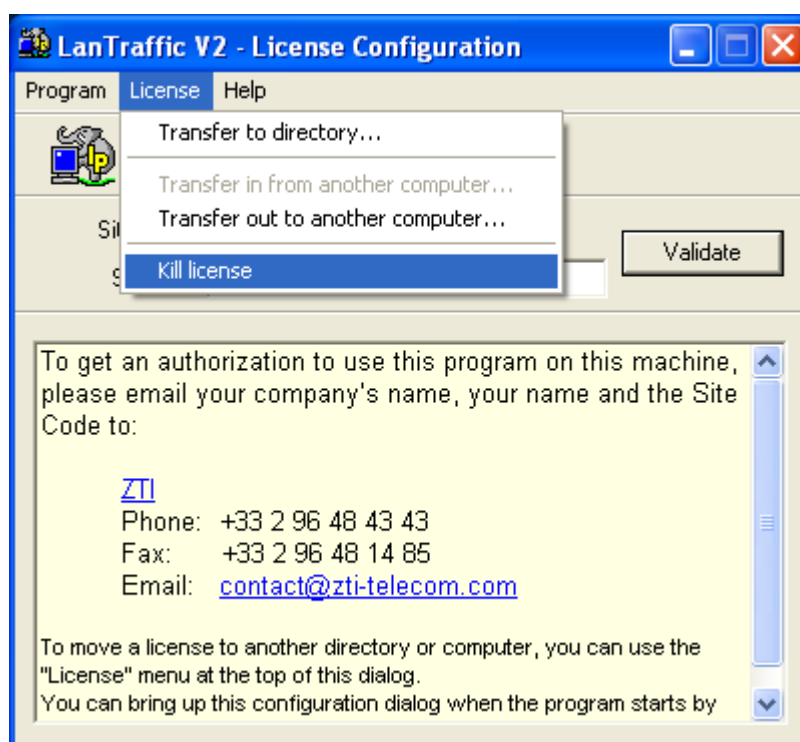
*A floppy disk or USB key is needed for this kind of transfer.*

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

- 1) First install the program on the target PC (PC # 2).
- 2) Run the software on PC # 2 and delete the trial license in order to get an unauthorized license on this PC.  
If the "Transfer in from another computer ..." item of the license menu is disabled, you must kill the license.

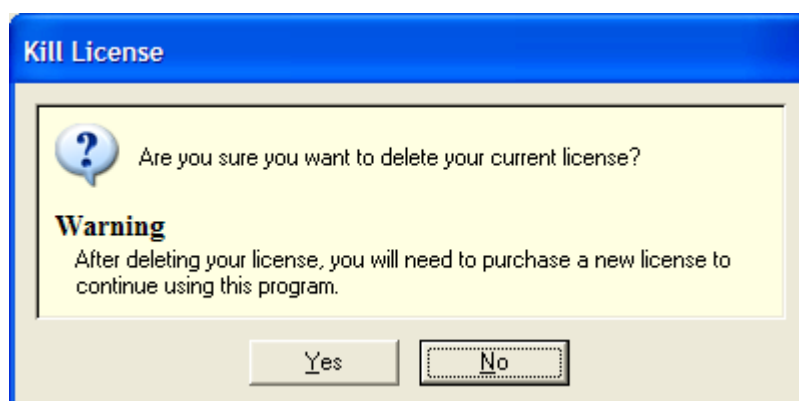
#### How to kill a license?

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

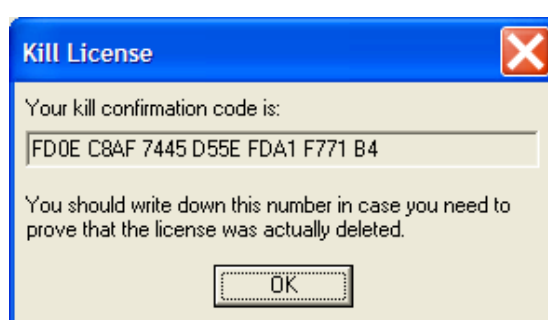




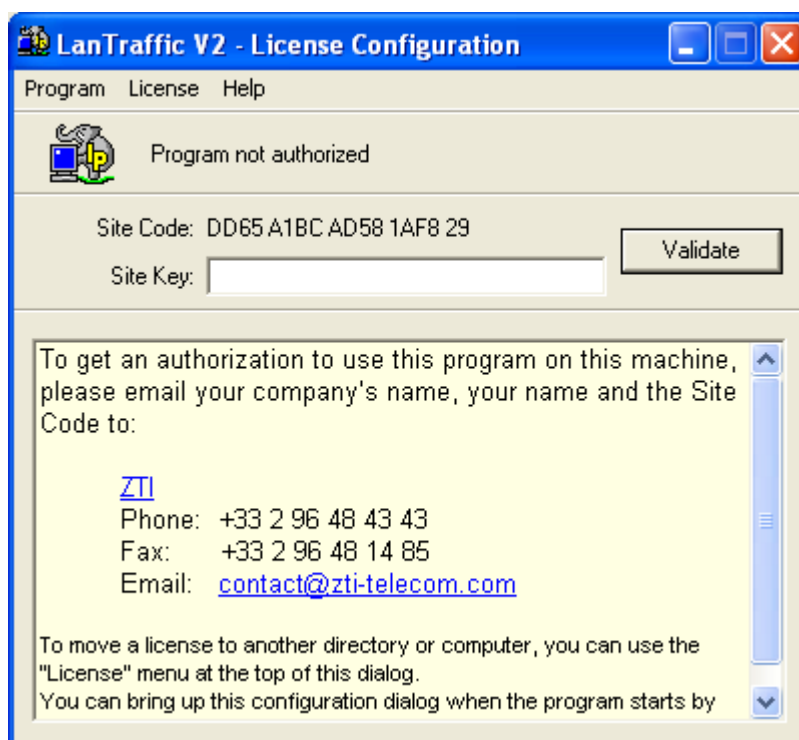
A message box will appear:



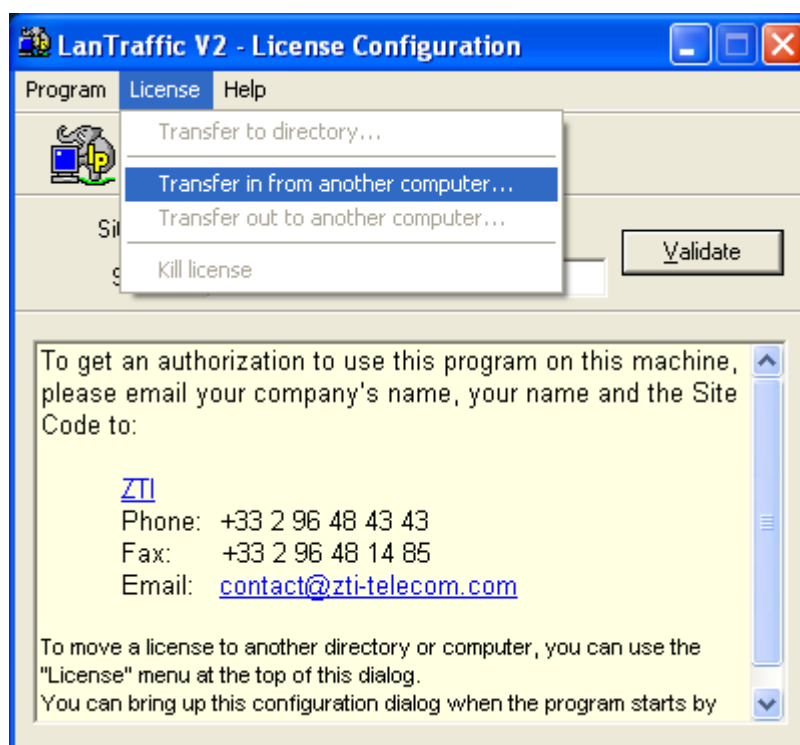
Press 'Yes' to kill the license and a confirmation code is displayed:



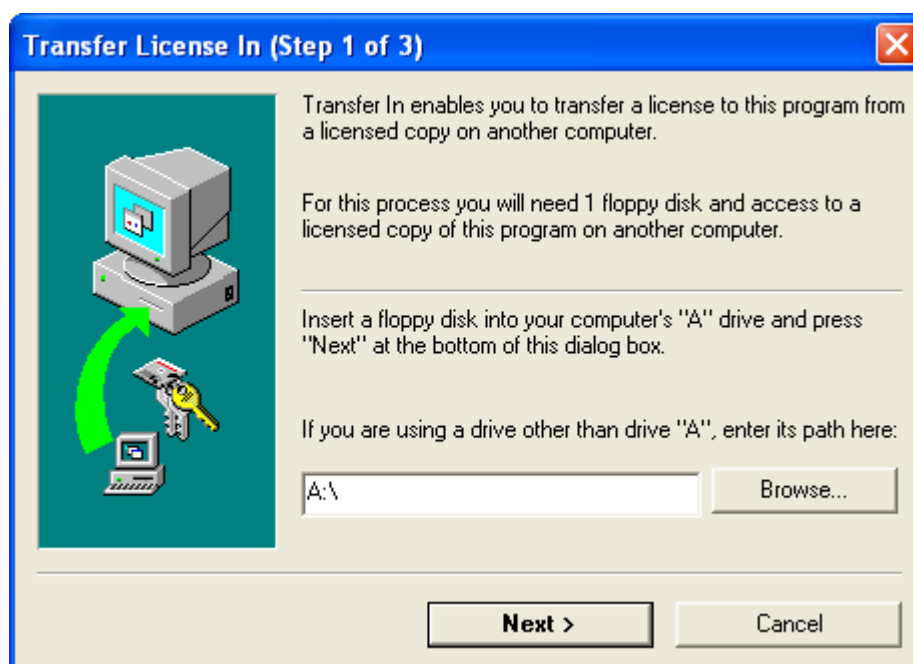
Click 'OK' and the license window displays now "Program not authorized":



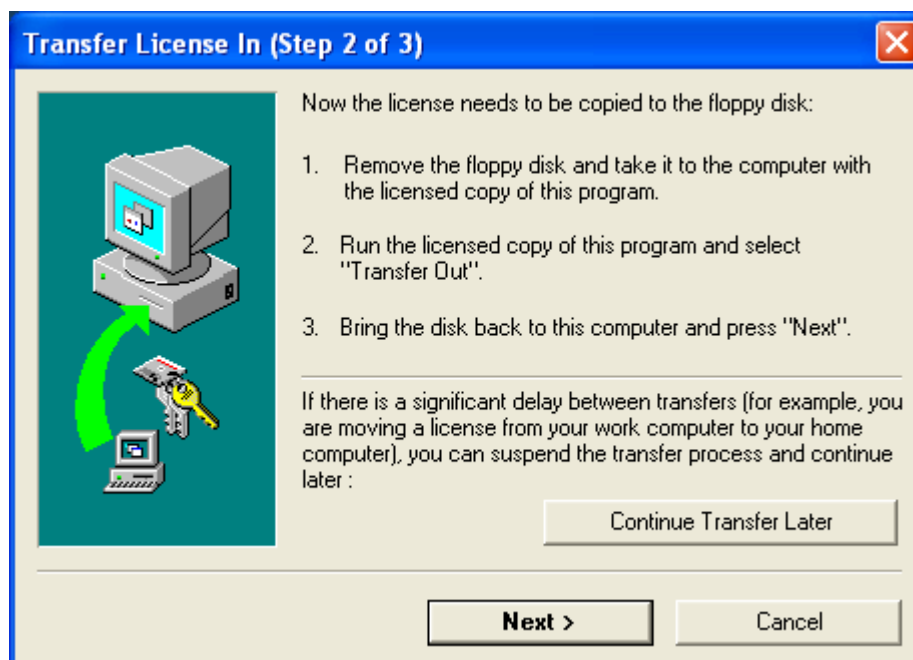
3) Select "License > Transfer in from another computer ..." from the license menu:



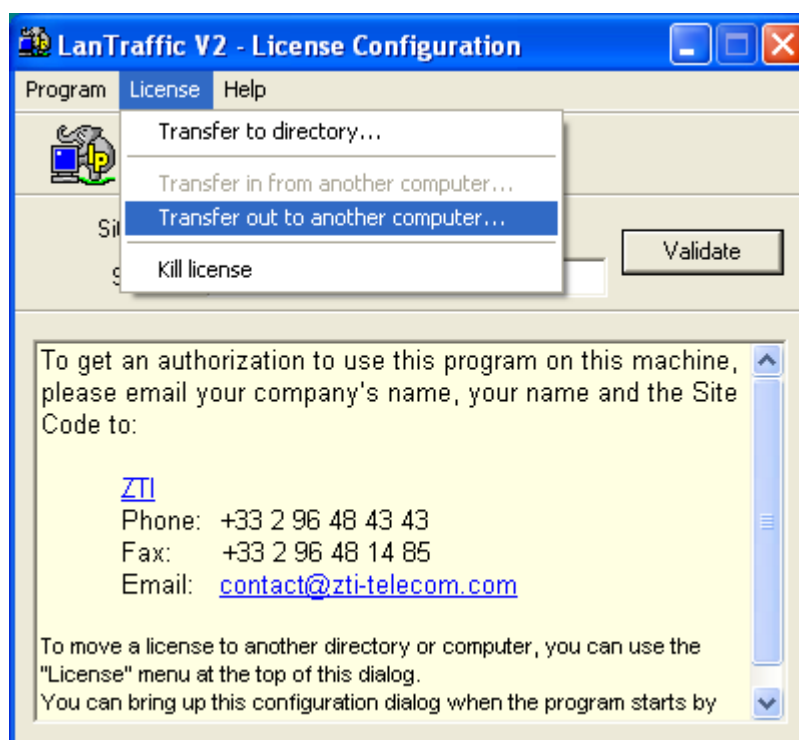
The "Transfer License In (Step 1 of 3)" window is displayed:



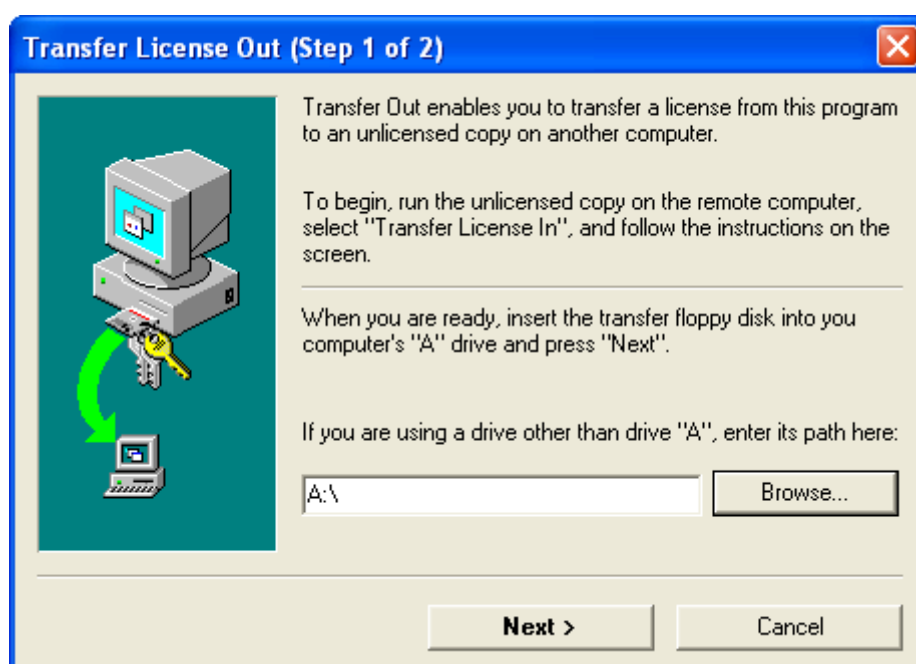
4) Insert a floppy disk or use a USB key as requested in step 1 of 3 and specify the path. Then press "Next >": the "Transfer License In (Step 2 of 3)" window is displayed:



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 "License > Transfer out to another computer ..." as shown below:



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 not available anymore on the source PC since the LanTraffic V2 software license is on a workstation basis.  
Contact us to get information on site license ([contact@zti.fr](mailto:contact@zti.fr) or [contact@zti-telecom.com](mailto:contact@zti-telecom.com)).

**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:



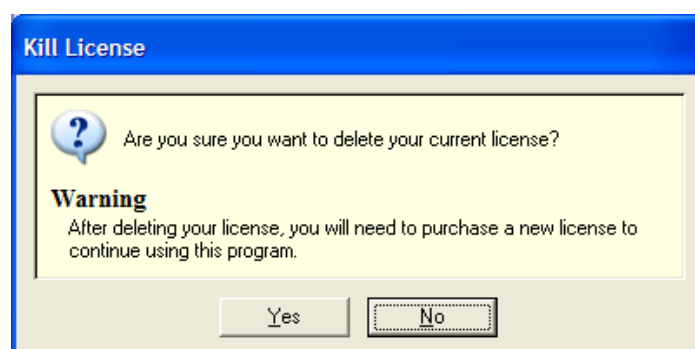
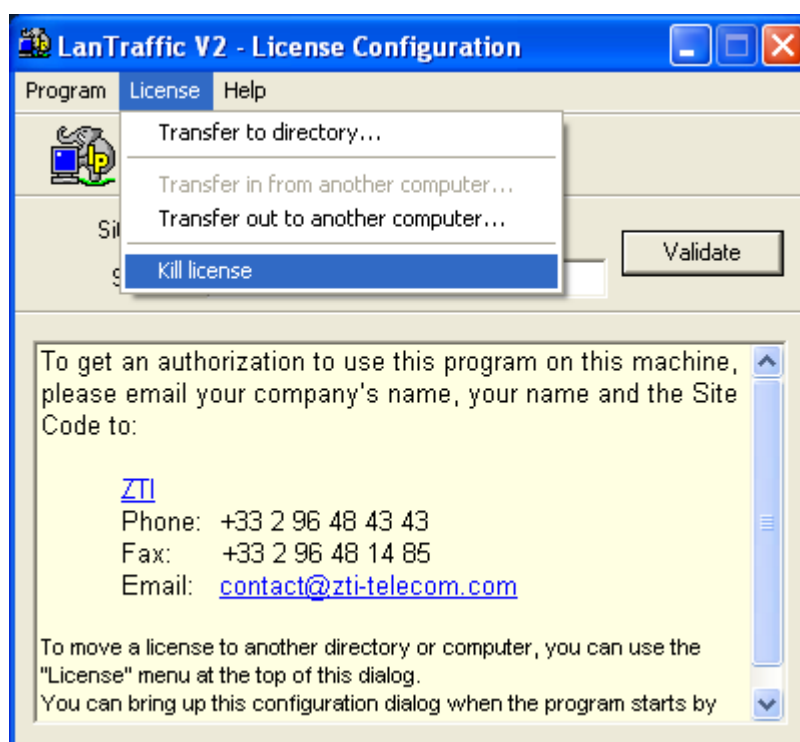
Click Finish to continue.

### 3.3. How to kill a license

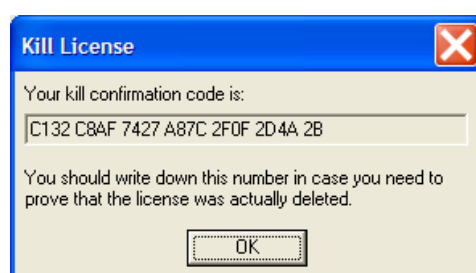
If you would like to transfer an unlimited license key onto a PC where a trial period is still active, you should first delete the active trial period. If you don't delete the active trial period, you will not be able to transfer an unlimited license.

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

- From the license configuration window, select "License > Kill License" in the license menu as shown below:



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



## PART 4 Uninstall LanTraffic V2

The uninstall procedure is a standard uninstall program.

To uninstall **LanTraffic V2** select “Uninstall LanTraffic V2” in the “Start > Programs > LanTraffic V2” menu.

## PART 5 LanTraffic V2 Getting Started

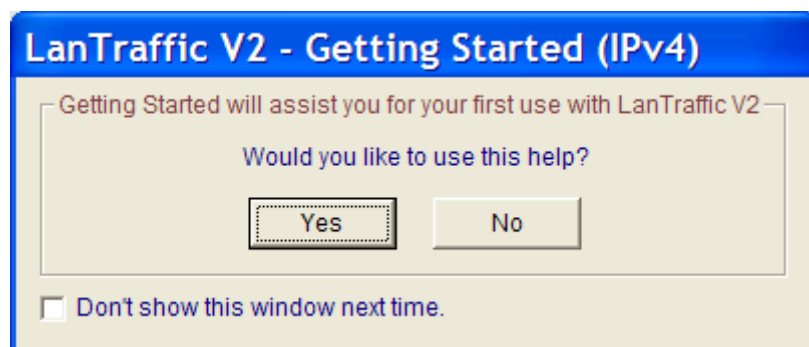


*Anti-virus or firewall applications may disrupt **LanTraffic V2** when sending or receiving data.*

*Please set up your security software before using **LanTraffic V2** (see PART 6 and PART 7).*

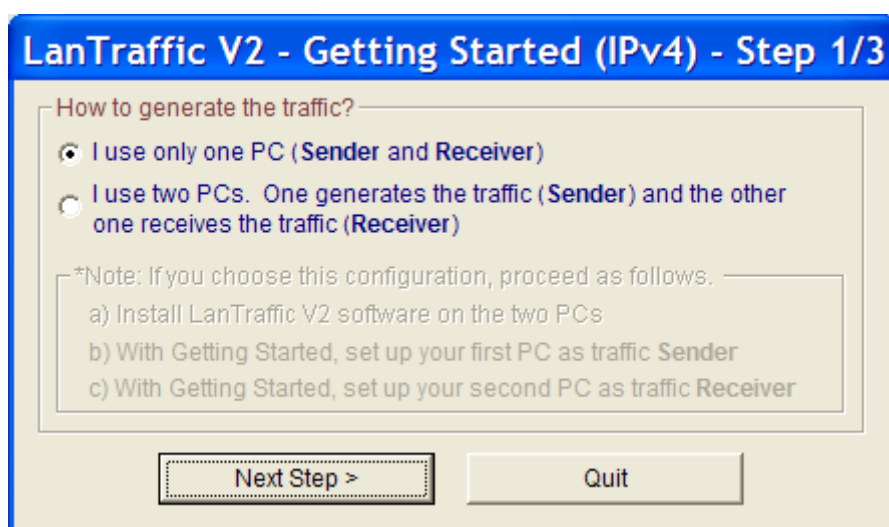
New users can use this help as an introduction to **LanTraffic V2** and generate or receive traffic with the IPv4 protocol in a few clicks.

Just after launching **LanTraffic V2**, the Getting Started Window is displayed:

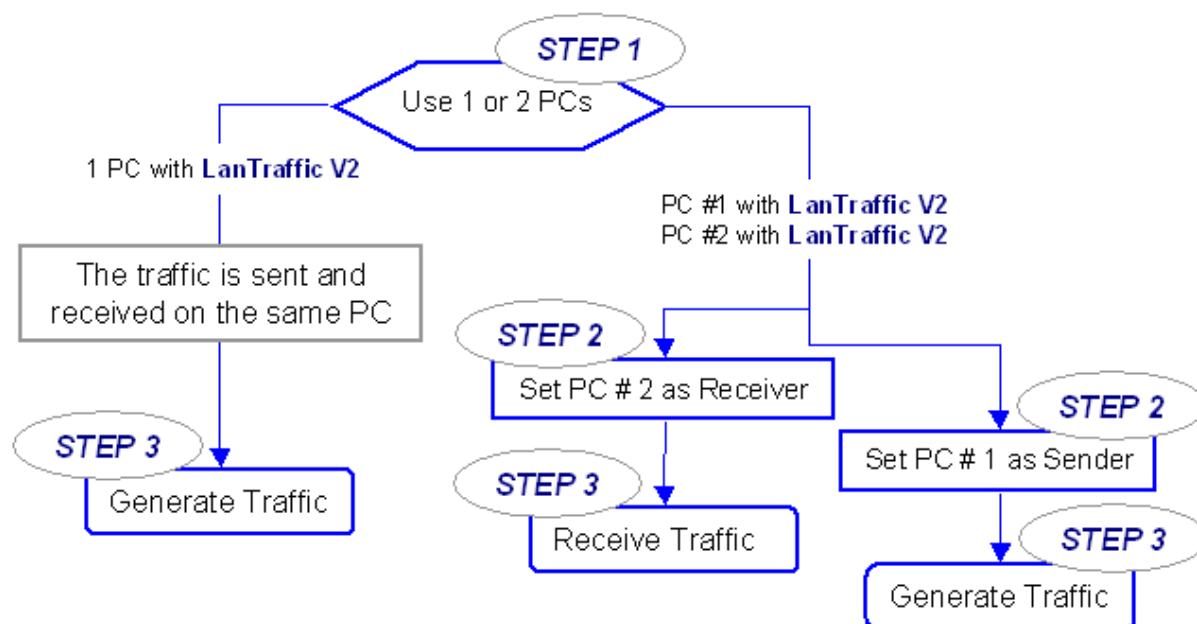


Press **No** if you don't want to use this help.

Press **Yes**, the next window will ask you if you want to use 1 or 2 PCs:



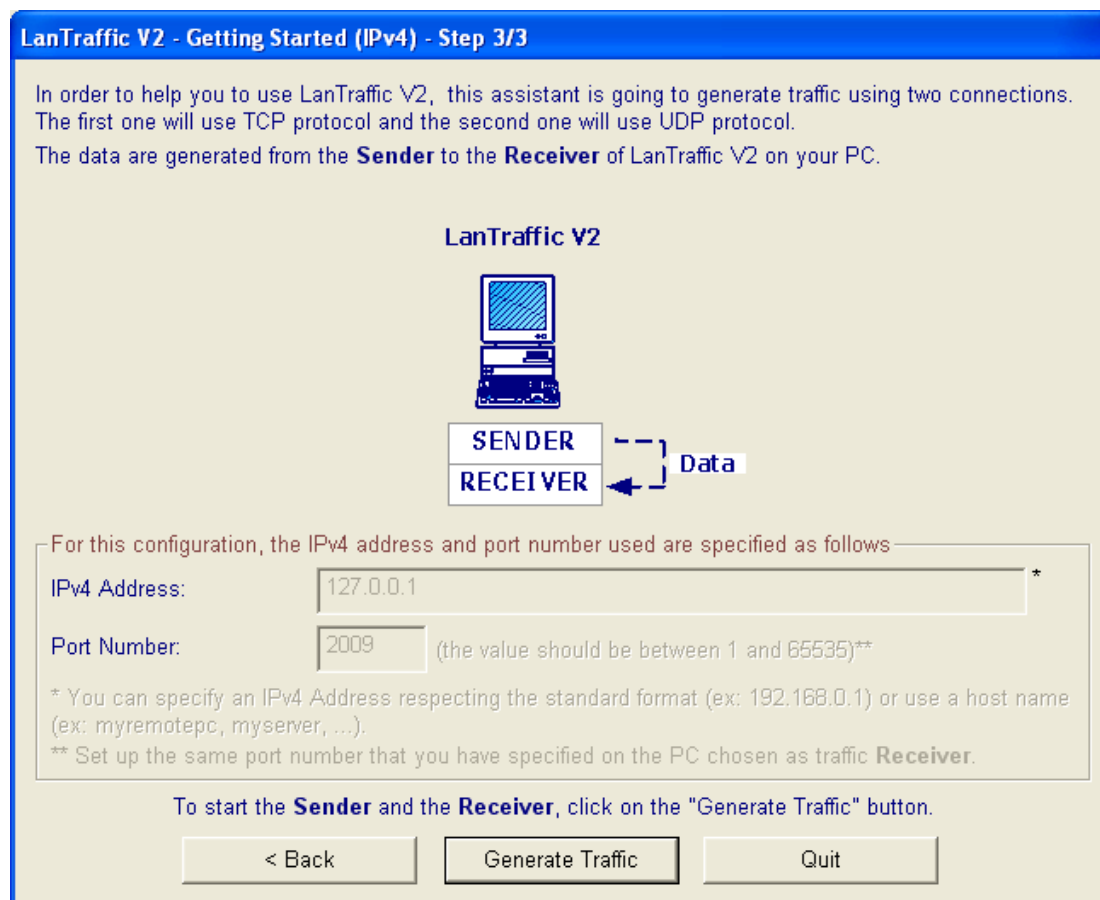
Depending on your choice to use 1 or 2 PCs, the plan below shows the steps:



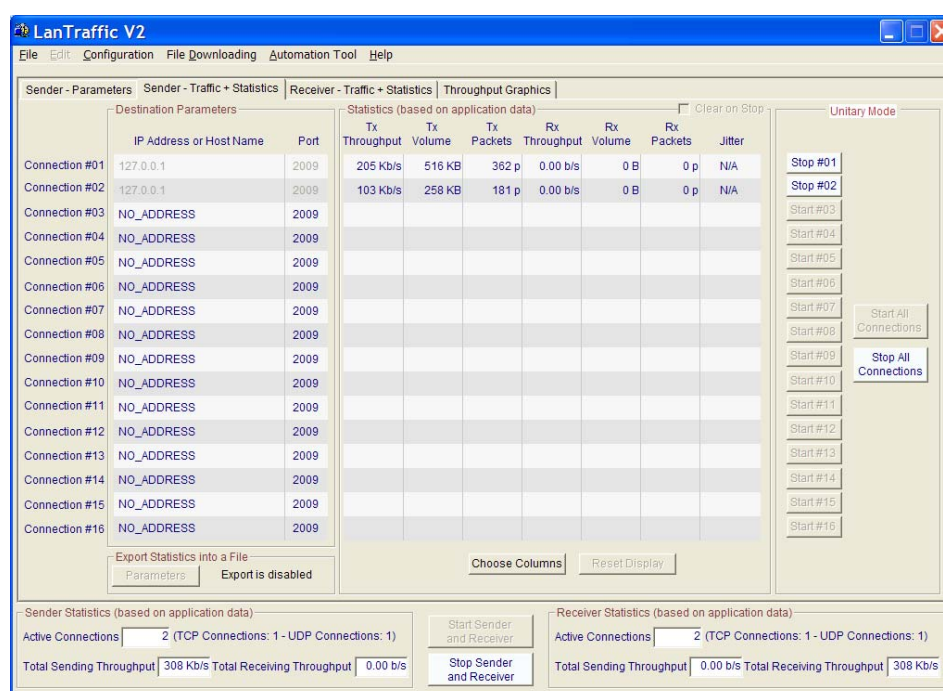


## For the use of 1 PC

The following windows are displayed.

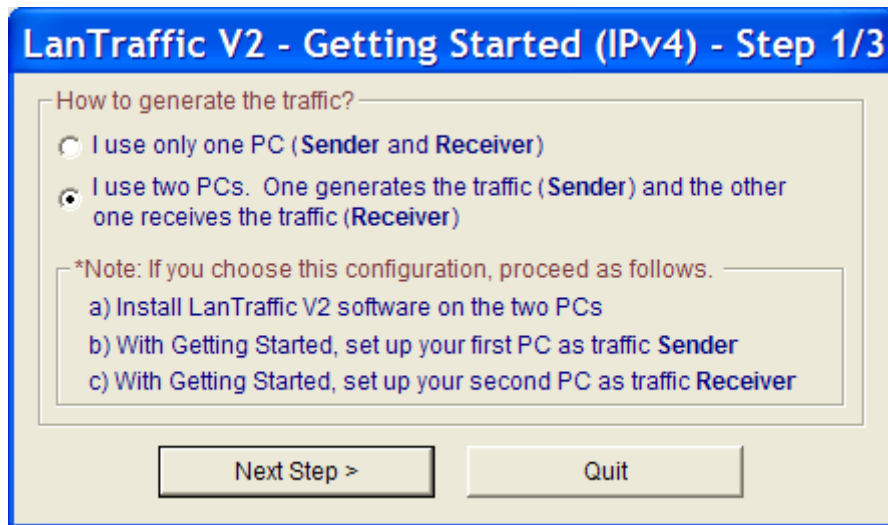


Then press the "Generate traffic" button to continue. The "Sender – Traffic + Statistics" tab of LanTraffic V2 will display the two first active connections as shown on the following window:

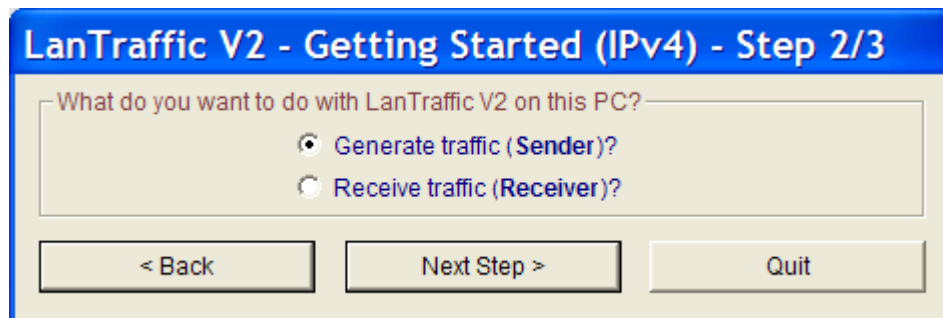


**For the use of 2 PCs**

If you select the option: **I use two PCs**, read the following instructions.  
**LanTraffic V2** must be installed on the two PCs.

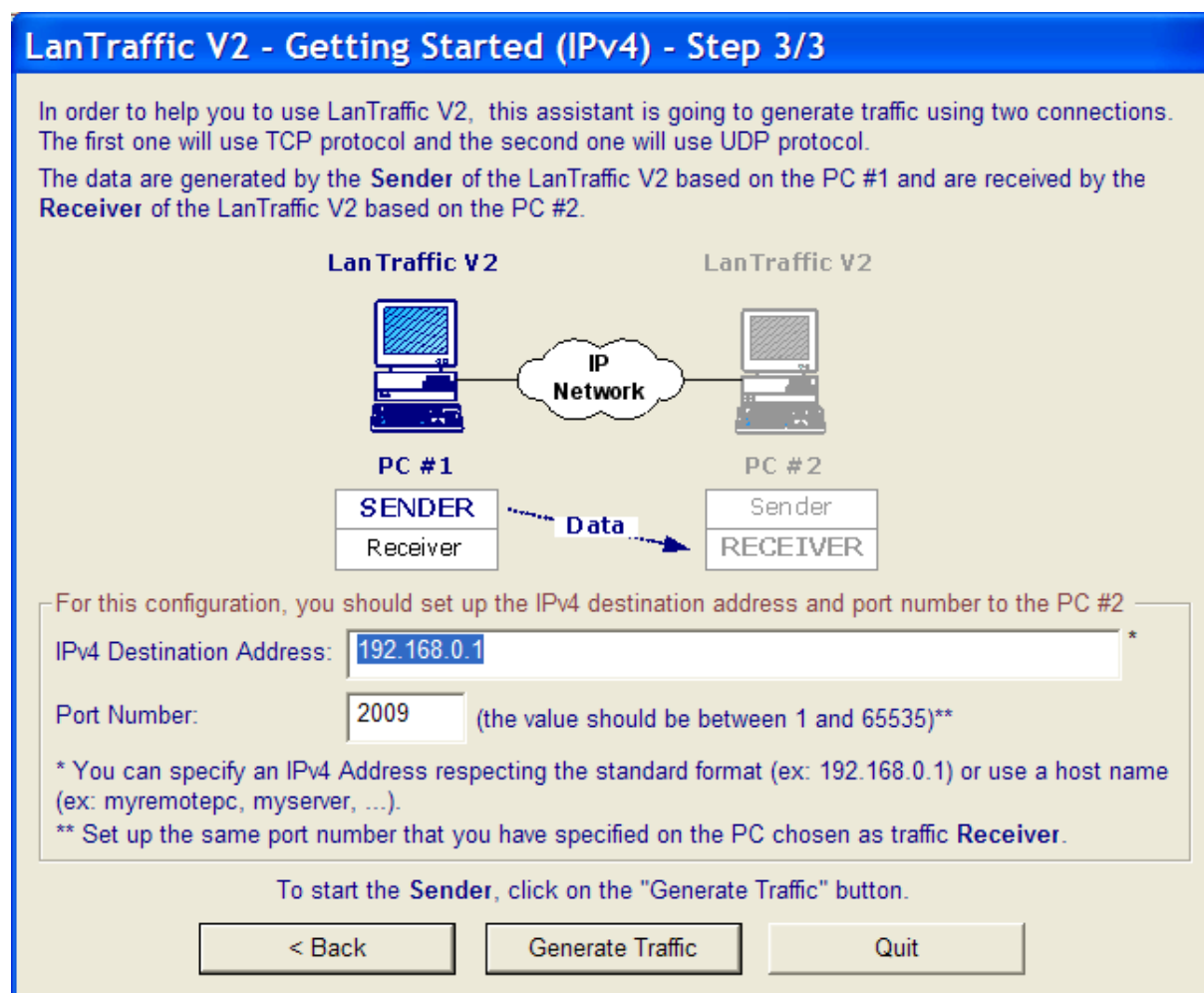


Press "Next Step >" to continue.



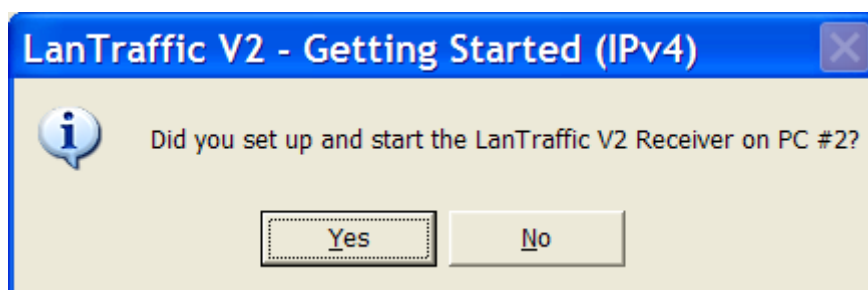
Then choose if you want to generate or receive the traffic on this PC.

If you select "Generate traffic" the following window will appear:

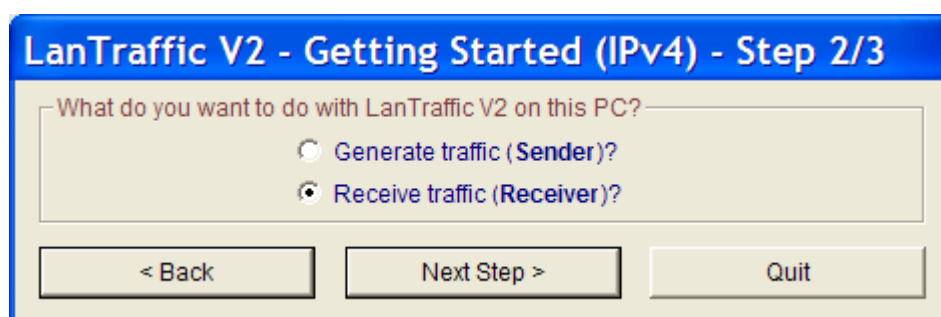


Define the IPv4 address and port number to use.

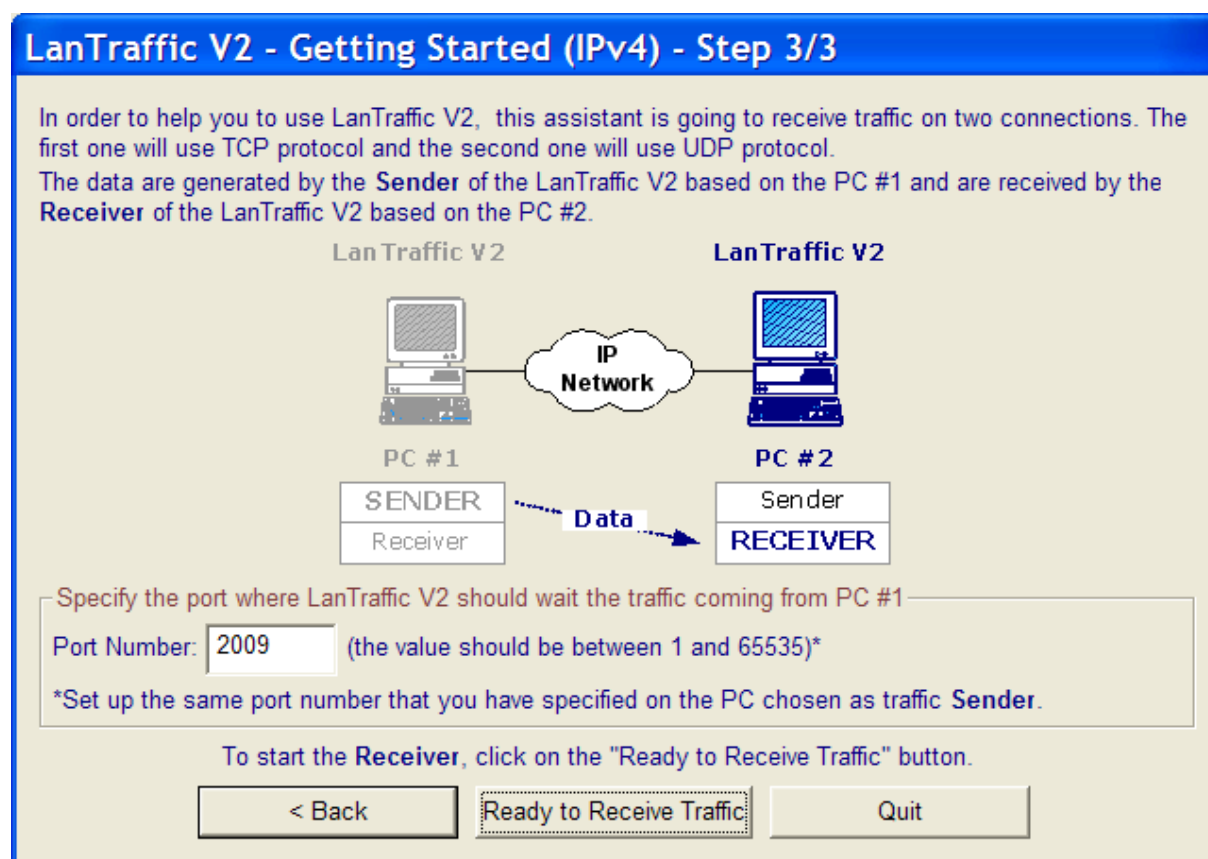
Then press the "Generate traffic" button and a warning dialog is displayed:



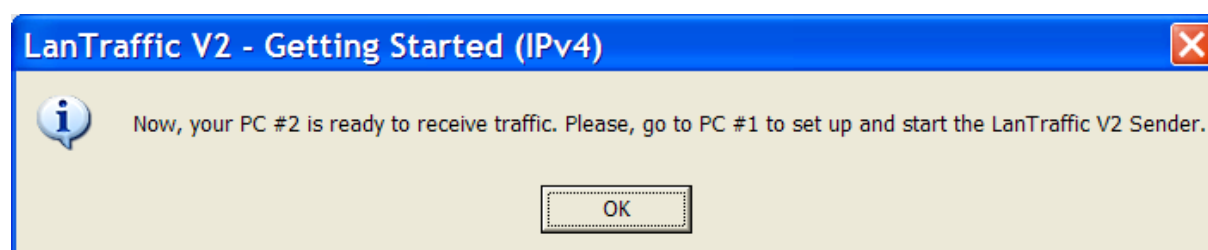
Before generating traffic towards PC # 2, the PC # 2 must be configured as Receiver.



Press "Next Step >" to continue on PC # 2.



After pressing the "Ready to Receive Traffic" button, a warning message will appear:



Press "OK" and the "Receiver – Traffic + Statistics" tab of **LanTraffic V2** is displayed on PC # 2.

Then go to PC # 1 and start the **LanTraffic V2** Sender. The "Sender – Traffic + Statistics" tab of **LanTraffic V2** displays now the two first active connections.

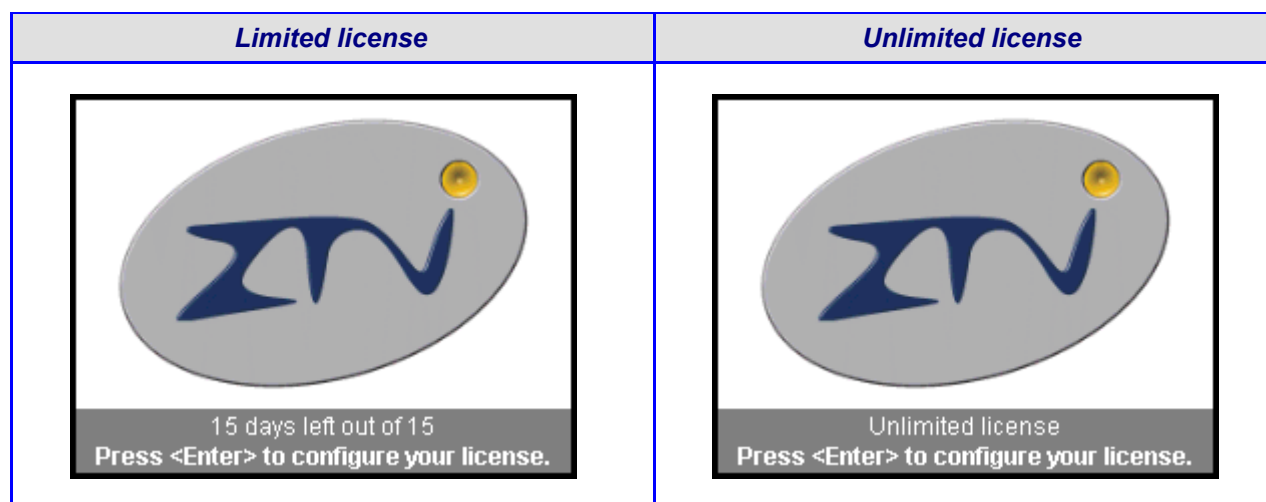
You have now 2 connections generating traffic from PC #1 to PC # 2.

## PART 6 Run LanTraffic V2

Use the Windows start menu:

Start ► All Programs ► LanTraffic V2 ►  LanTraffic V2 Click here.

*After a few seconds and depending of your license, you will get one of the following license window:*



Press **Enter** only if you need to configure your license,

If you don't, allow a few seconds for the main window of **LanTraffic V2** to open.

With Windows XP Service Pack 2, the window below may appear.

This window allows configuring the Windows Firewall settings for **LanTraffic V2**.

Click on the “Unblock” button to add **LanTraffic V2** into the authorized programs list.



## PART 7 LanTraffic V2 / Windows Firewall



*Anti-virus or firewall applications may disrupt **LanTraffic V2** from sending or receiving data. Please set up your security software before using **LanTraffic V2**.*

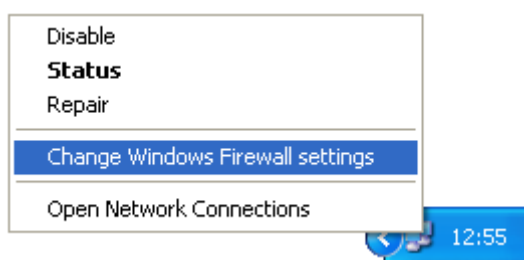
Some anti-virus configurations can stop **LanTraffic V2** working because of their security settings.

For commercial anti-virus, please refer to the related documentation to authorize **LanTraffic V2**.

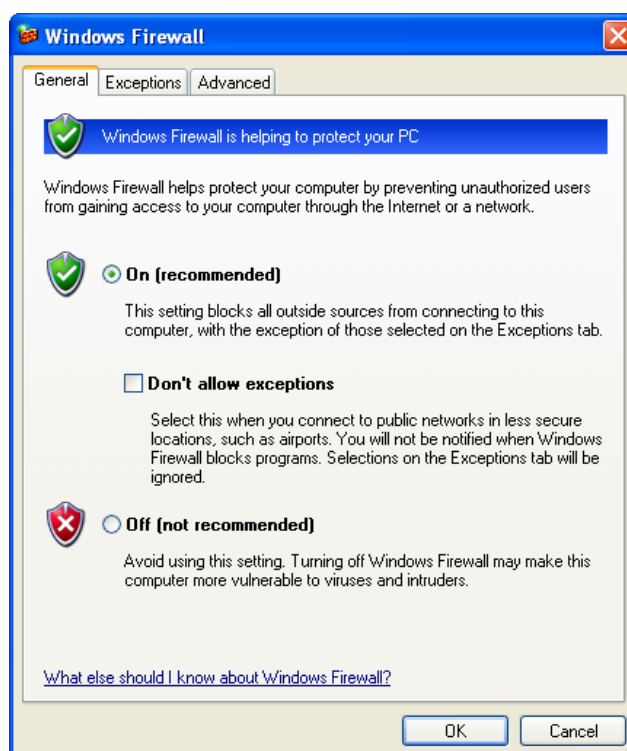
### 7.1. Configuration for UDP, TCP connections and ICMP IPv4

See below how to configure the Windows Firewall included in Windows XP Service Pack 2 to use UDP & TCP connections for IPv4 and IPv6, and the ICMP (IPv4) connections.

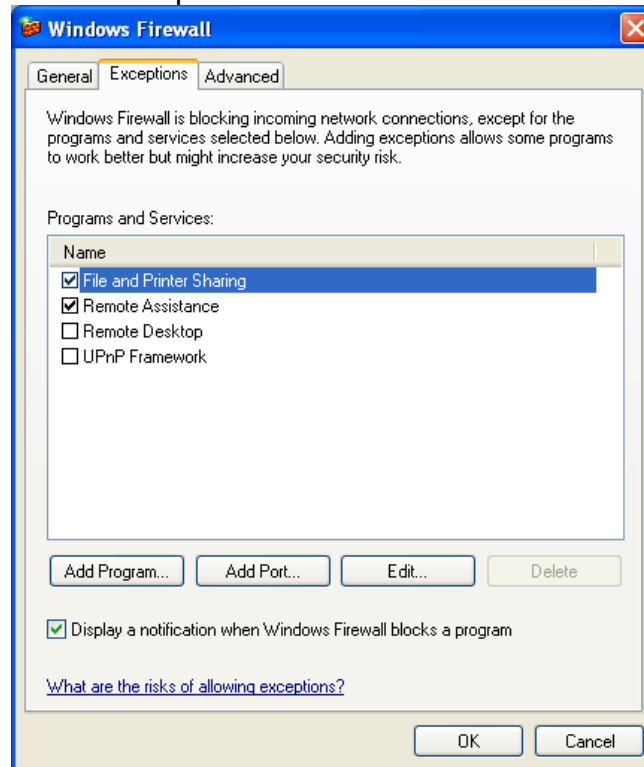
1. Open the Windows Firewall settings window by right clicking on the two computers representing the network interface that **LanTraffic V2** will use.



2. The window below appears. If the Firewall is off, there is no need to change the settings. If the Firewall is active, proceed as described below:

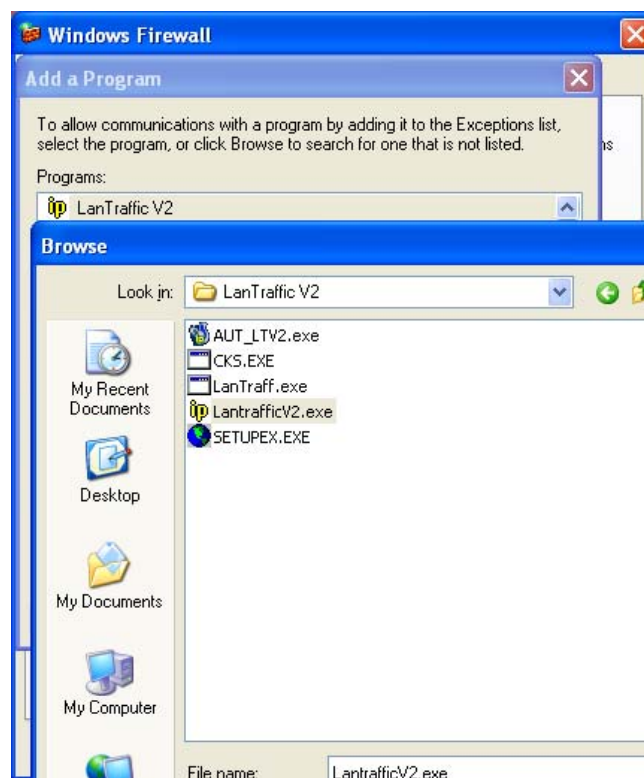


### 3. First switch on the “Exceptions” tab.

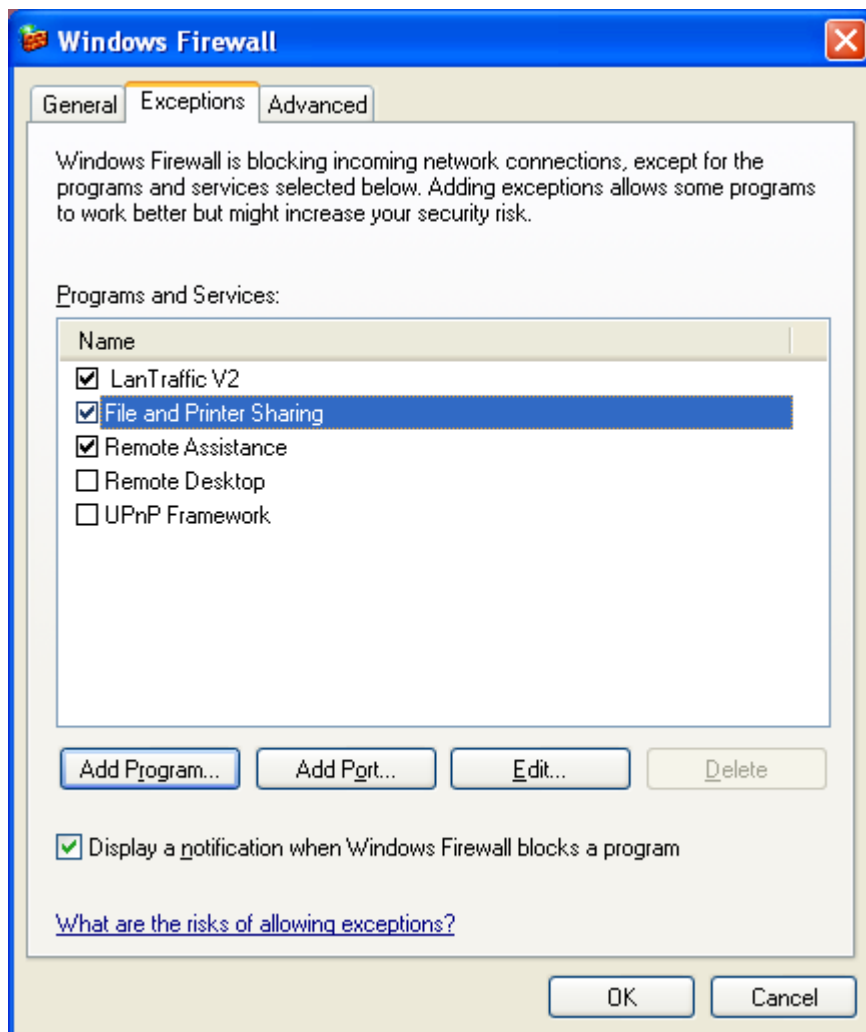


If **LanTraffic V2** is already in the list, just select it by checking the box and press “OK”.

If **LanTraffic V2** is not in the list, click on the “Add Program ...” button. Then click on the “Browse” button and add it by selecting the LanTrafficV2.exe file placed in the installation directory (default settings: “[Drive]:\Program Files\LanTrafficV2\”).



4. Then select **LanTraffic V2** into the program list and press “OK”.



Now **LanTraffic V2** is allowed to use ports, generate and receive TCP and UDP IPv4 and IPv6 traffic, including ICMP (IPv4). Click “OK” to save the new settings.



## 7.2. Configuration for ICMP IPv6 connections

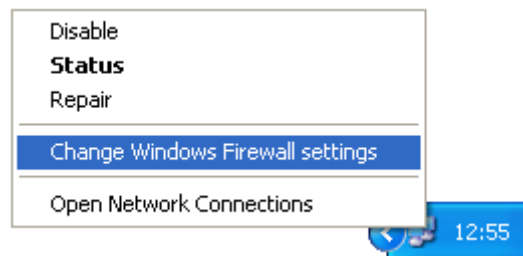


**The use of the ICMP IP V6 connection requires disabling the Windows Firewall before using LanTraffic V2.**

**By disabling the Windows Firewall, you enable the TCP, UDP and ICMP (IPv4) connections as described in the paragraph 7.1.**

See below how to disable the Windows Firewall included in Windows XP Service Pack 2 to use ICMP IPv6 connections, as well as TCP, UDP and ICMP (IPv4) connections.

1. Open the Windows Firewall settings window by right clicking on the two computers representing the network interface that **LanTraffic V2** will use.



2. The window below appears. If the Firewall is off, there is no need to change the settings. If the Firewall is active, select the **Off** option as shown. Then click OK.

