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Network IP Address Assignment

Summary

- The Ethernet Adapter
- Reset the CPU
- Install the NPort Software
- Network IP address assignment
- Chrom-Card: setting the IP Address
- Xcalibur: setting the IP address
- ChromQuest: setting the IP address

The Ethernet Adapter

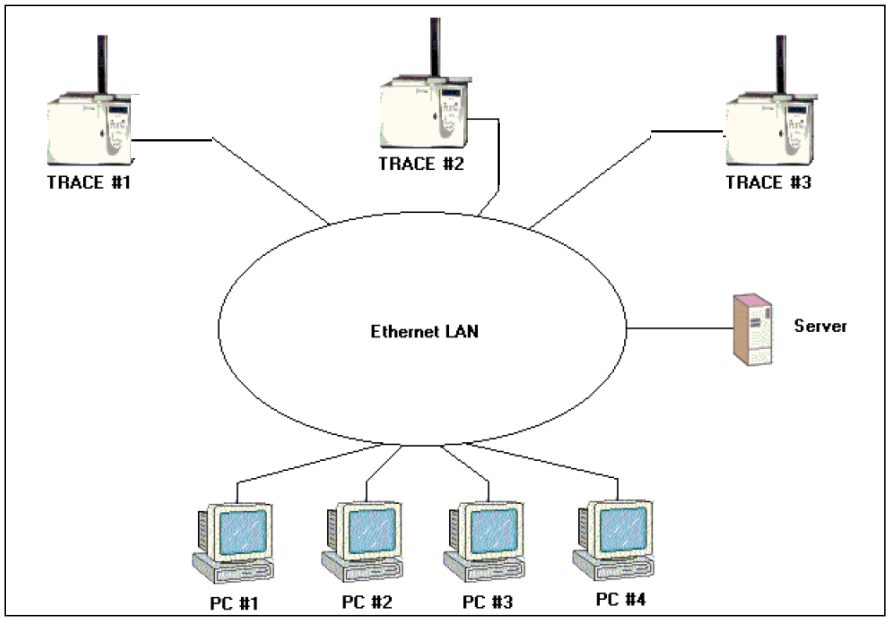

Figure 1

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In Figure 1 is an example of possible configuration of a small laboratory with 3 instruments (for example 3 Trace GCs Ultra), 4 PCs, and 1 dedicated server. Any one of the PC in the network can be used alternatively for the instrument control and data acquisition of any of the accessible instruments.

1. A single PC can control all the instruments
2. Any of the networked PCs can control alternatively any of the 3 GCs.

In both these configurations, the acquired data can be stored locally or into the networked server disk driver.

This is a limited Client/Server configuration, because once the connection is established between one of the PCs and one of the GCs, any of the other PCs would be denied to access the same instrument.

The real Client/Server would permit the two PCs, at the same time, to see the instrument status and acquisition in progress.

Reset the CPU

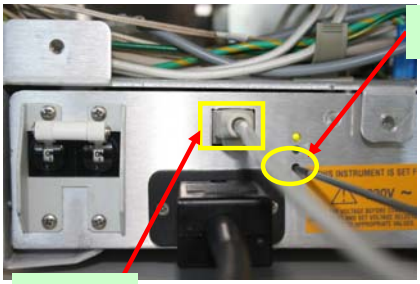

Figure 1

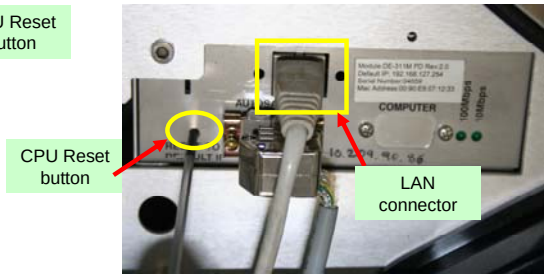

Figure 2

Figure 3

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Before starting, it is better to reset the CPU of the instrument to the default IP address:

-In Figure 1 is showed the Reset CPU button for Focus GC in the back of the instrument

-In Figure 2 that for Trace GC Ultra in the CPU slot in the top of the instrument

-In Figure 3 that for TriPlus located in the power supply device

NB: **Push the reset button for almost 10 seconds!**

Install NPort Software

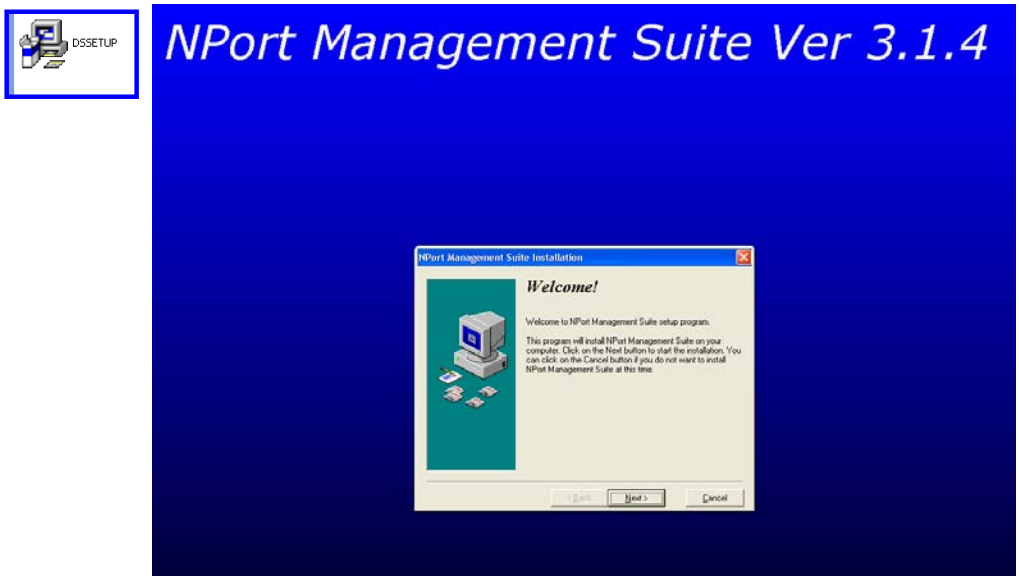

Figure 1

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The installation file for the program designed to assign the IP address to the instruments where LAN option is available is named “DSSETUP.EXE” and it is in the CD of Chrom-Card data system. (d:\Chrom-Card\Chrom-Card Trace-Focus\TRACE LAN)

In Figure 1 is the first page displayed by running the installation setup program “DSSETUP.EXE”.

Network IP address assignment

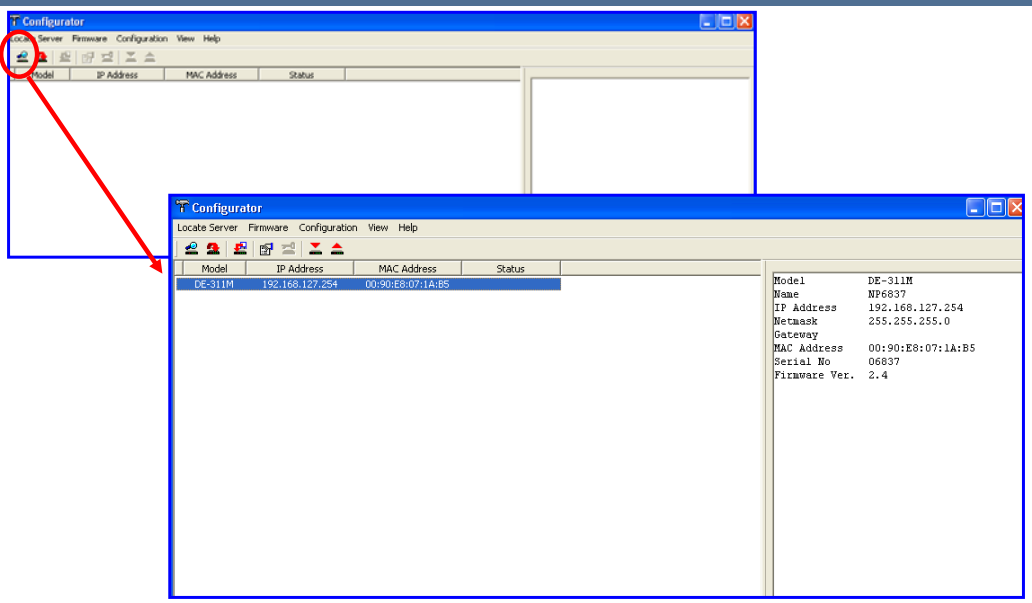

Figure 1

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Follow the detailed route installation proposed step-by-step by the installation program and, when finished, you can run the program.

From the toolbar, select “Local Server” -> “Broadcast Search” (or select the icon in the red circle) and the program automatically will search for all the instruments connected to the network (Figure1).

Network IP address assignment

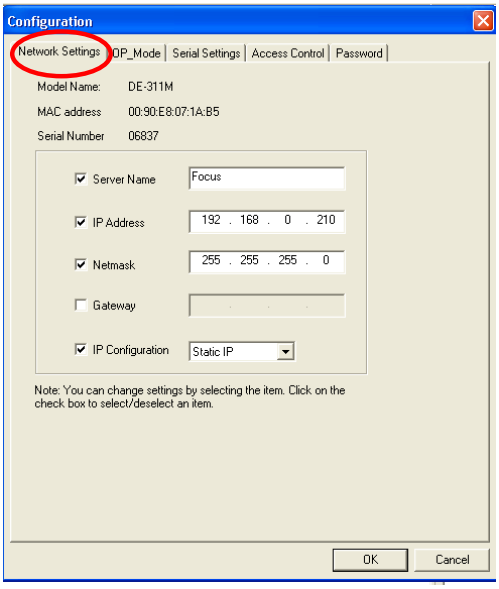

Figure 1

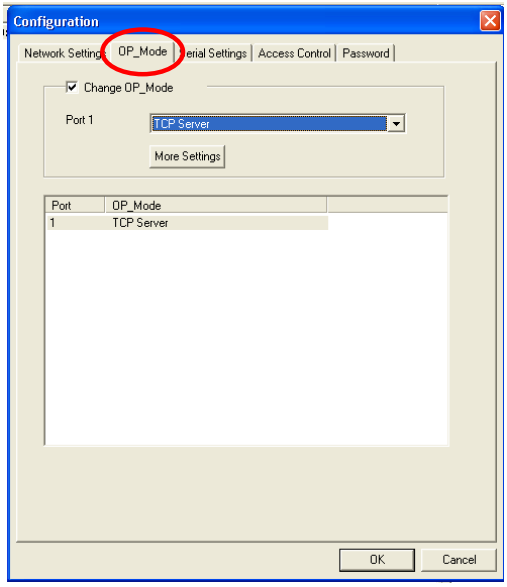

Figure 2

By double-clicking on any of the found instruments, it is possible to change the Network Settings parameters showed in Figure 1, flagging those of interest.

Tab Network Setting

-Server name: assign a name to your instrument

-IP address: give to your instrument an IP address of the same “family” (same first three groups of numbers) of the others of the network (change only the last identifying group of numbers).

-IP configuration: choose Static IP

Tab OP_Mode

Operation mode needs to be set to TCP server (Figure 2)

Network IP address assignment

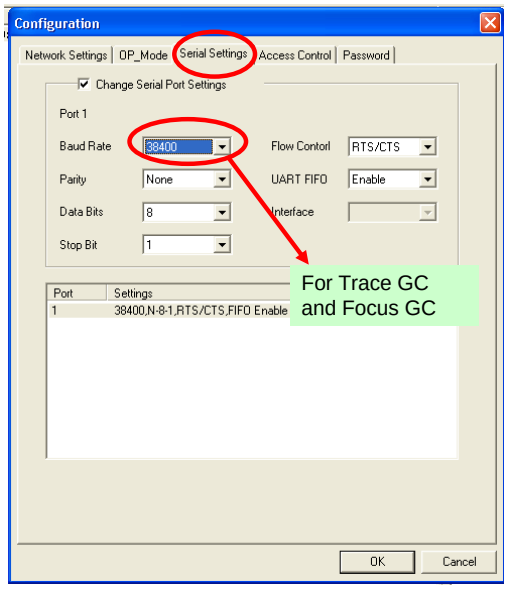

Figure 1

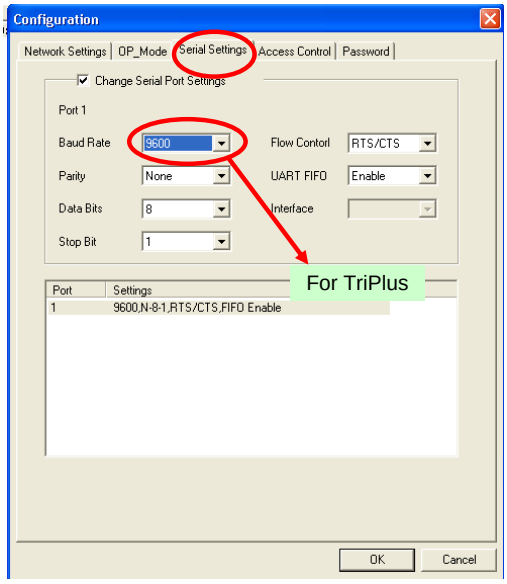

Figure 2

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Tab Serial Setting (Figure 1 and Figure 2) need to be configured as well:

-Baud rate: this is the exchange data rate between the PCs and the instrument configured. NB: For Trace GC and Focus GC the baud rate needs to be set to 38400 (Figure 1); for TriPlus to 9600 (Figure 2)!!!

-Parity: None

-Data Bits: 8

-Stop Bit: 1

-Flow Control: TRS/CTS

-UART FIFO: Enable

Network IP address assignment

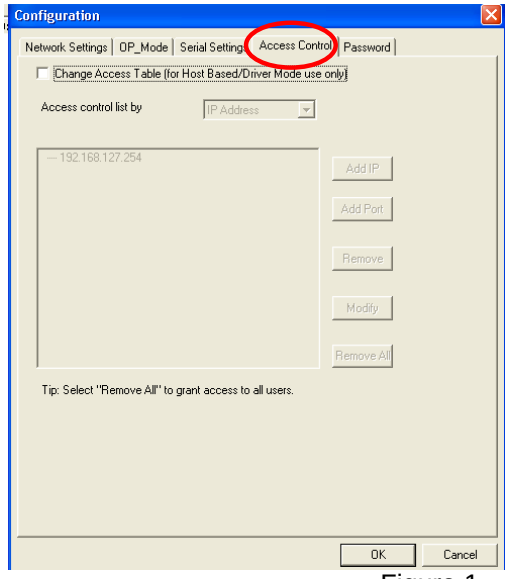

Figure 1

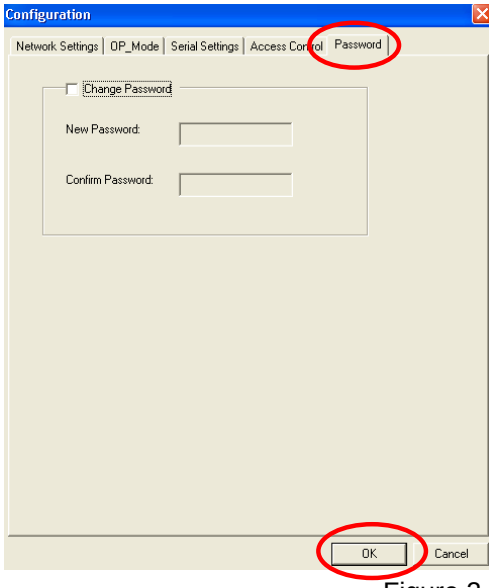

Figure 2

Tab Access Control

With Access Control (Figure 1), you can decide to grant access to all users or to limit it only to defined IP addresses of the network.

Tab Password

You can protect the access with a password (figure 2). Click “OK” to upload the new parameters.

Network IP address assignment

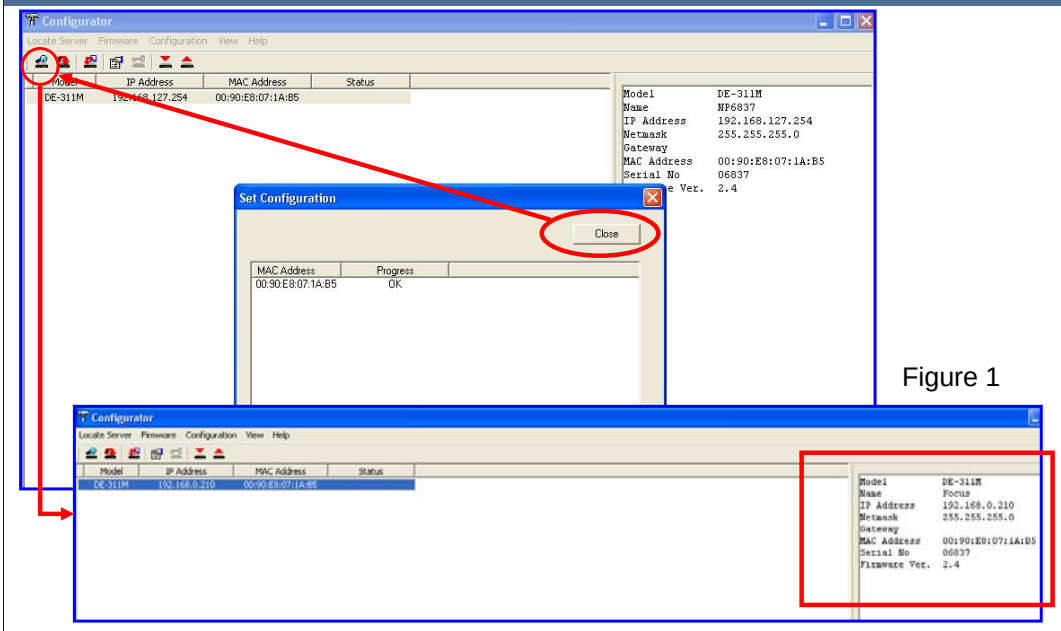

Figure 1

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Close the Set Configuration and try to launch the “Broadcast Search” another time to check the parameters set. (Figure 1)

Network IP address assignment

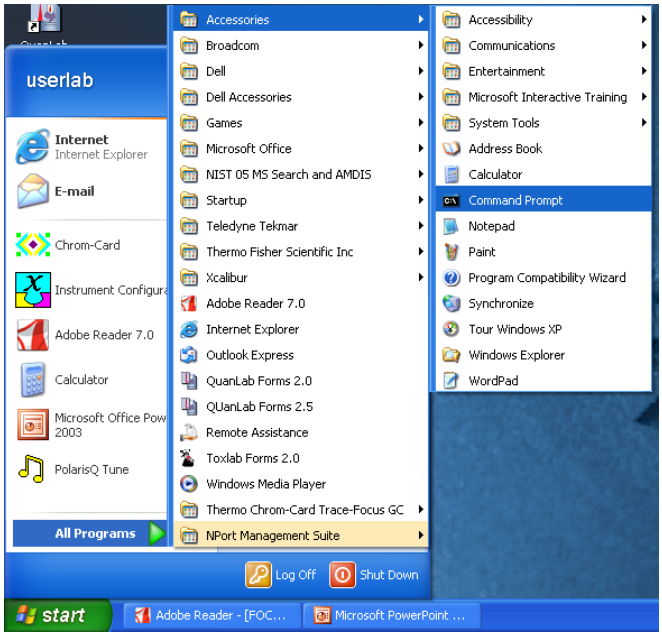

Figure 1

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Open the Command Prompt from: Start -> Accessories -> Command Prompt (Figure 1)

Network IP address assignment

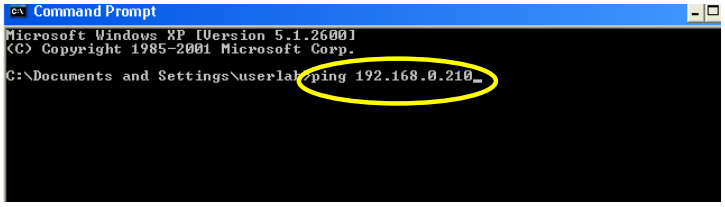

Figure 1

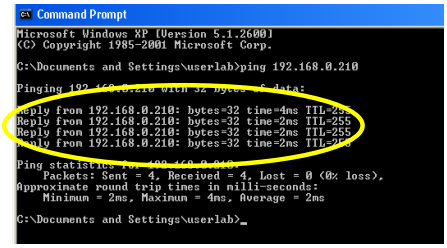

Figure 2

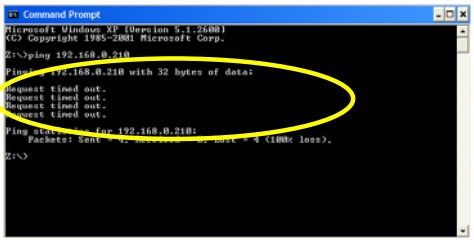

Figure 3

Write “ping”+ space, followed by the IP address assigned to the instrument and push “Enter” (Figure 1)

In Figure 2 is displayed the window that appears when the communication between the instrument and the PC is present, while in Figure 3 is displayed the window that appears hen communication between instrument and PC is not present

Network IP address assignment

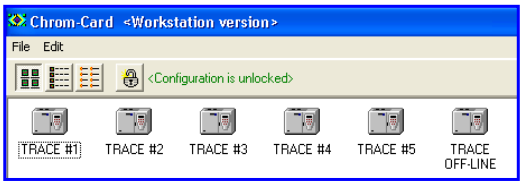

Figure 1

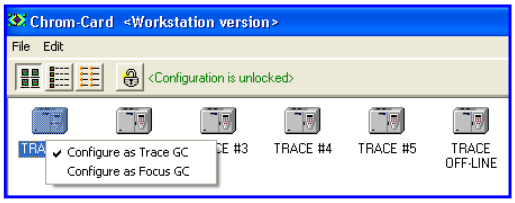

Figure 2

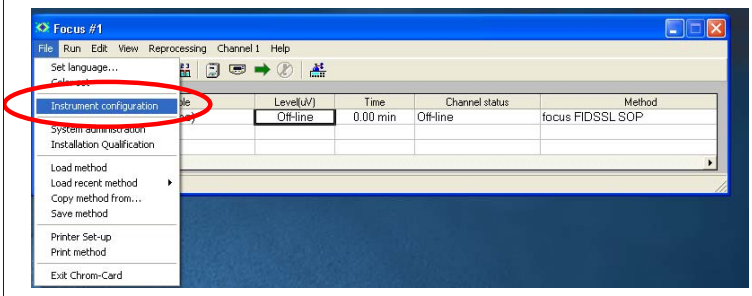

Figure 3

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Open Chrom-Card (Figure 1) and click on the right of the mouse to configure the instrument as a Trace or as a Focus GC (Figure 2)

Double click on instrument icon

From “File” menu select “Instrument Configuration” (Figure 3)

ChromCard: setting the IP address for Focus GC

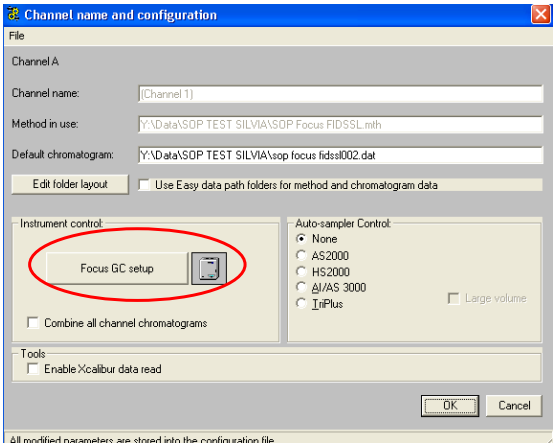

Figure 1

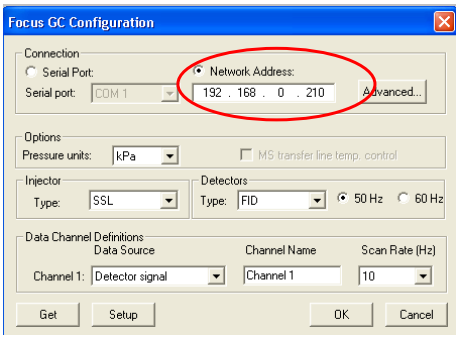

Figure 2

In Figure 1 is the window that appears. Click on Focus GC setup.

In “Connection” select Network Address and write the address previously assigned to your instrument (Figure 2). Then, click “Get” to import the configuration from the instrument. Click OK to save the parameters set.

ChromCard: setting the IP address for Trace GC Ultra

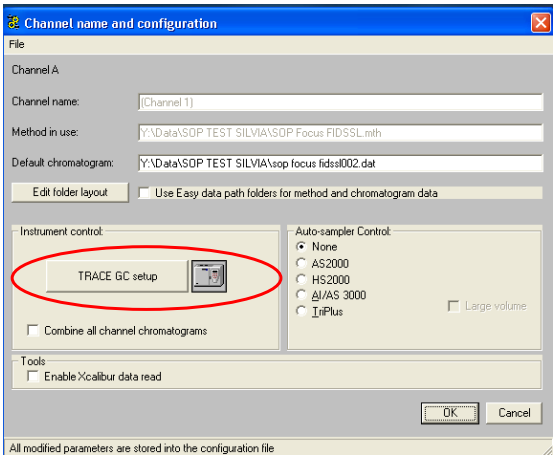

Figure 1

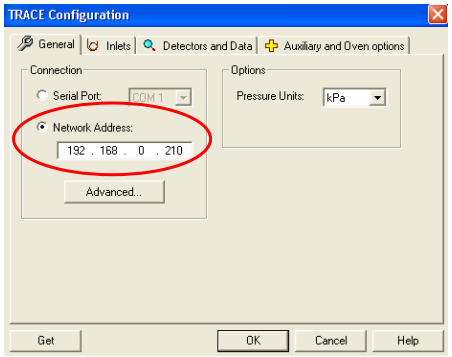

Figure 2

If you installed a Trace GC Ultra, click on “Trace GC setup”. (Figure 1)

In “Connection” select Network Address and write the address previously assigned to your instrument (Figure 2). Then, click “Get” to import the configuration from the instrument. Click OK to save the parameters set.

ChromCard: setting the IP address for TriPlus

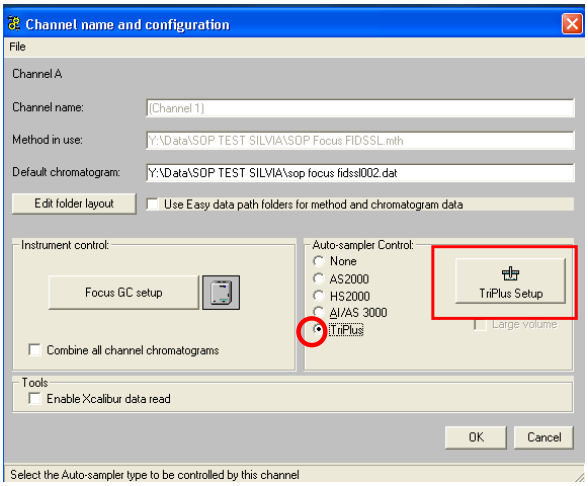

Figure 1

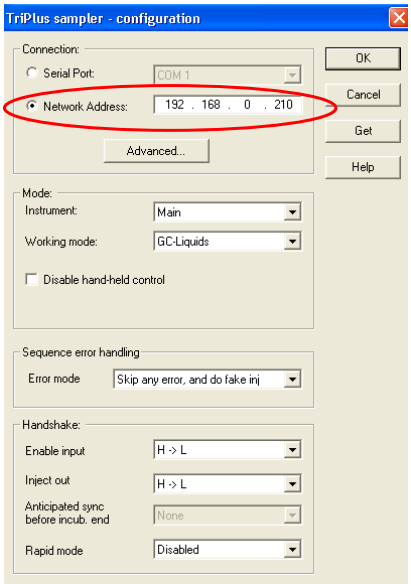

Figure 2

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To connect a TriPlus, select “TriPlus” in Auto-Sampler Control, then click on “TriPlus Setup” (Figure 1).

In “Connection” select Network Address and write the address previously assigned to your instrument (Figure 2). Then, click “Get” to import the configuration from the instrument and click OK to save the parameters set.

Xcalibur: setting the IP address
(for Focus GC and Trace GC Ultra)

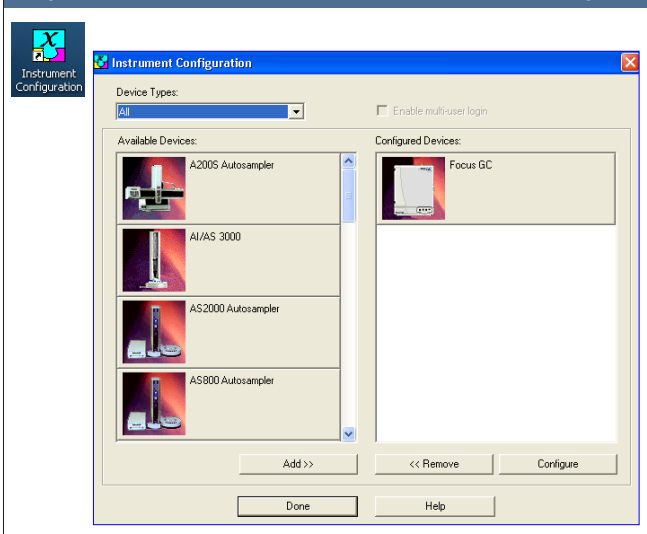

Figure 1

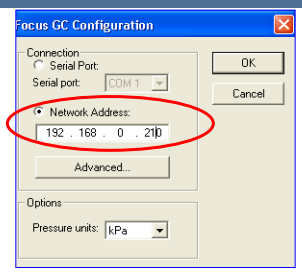

Figure 2

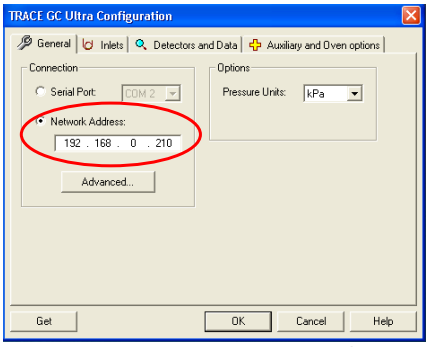

Figure 3

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Open the “Instrument Configuration” and Add the Devices to configure. Double-click the instrument icon (Focus GC or Trace GC Ultra) (Figure 1). In the window that appears, write the IP address in “Network Address” (Figure 2 for Focus GC, Figure 3 for Trace GC Ultra). Then, click “Get” to import the configuration from the instrument and click OK to save the parameters set.

Xcalibur: setting the IP address
(for TriPlus)

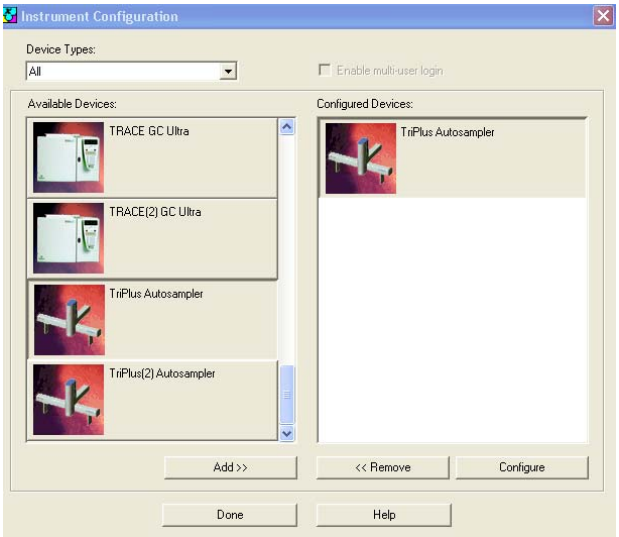

Figure 1

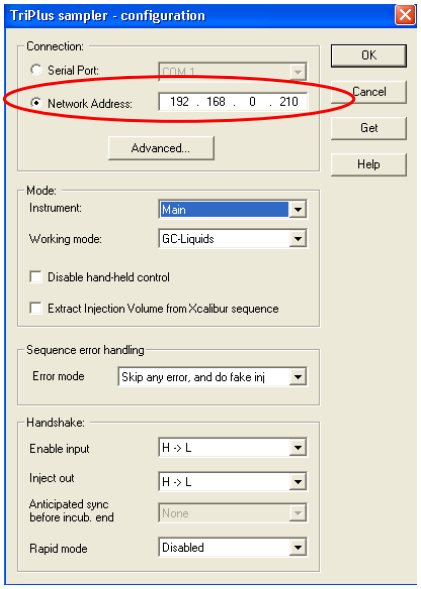

Figure 2

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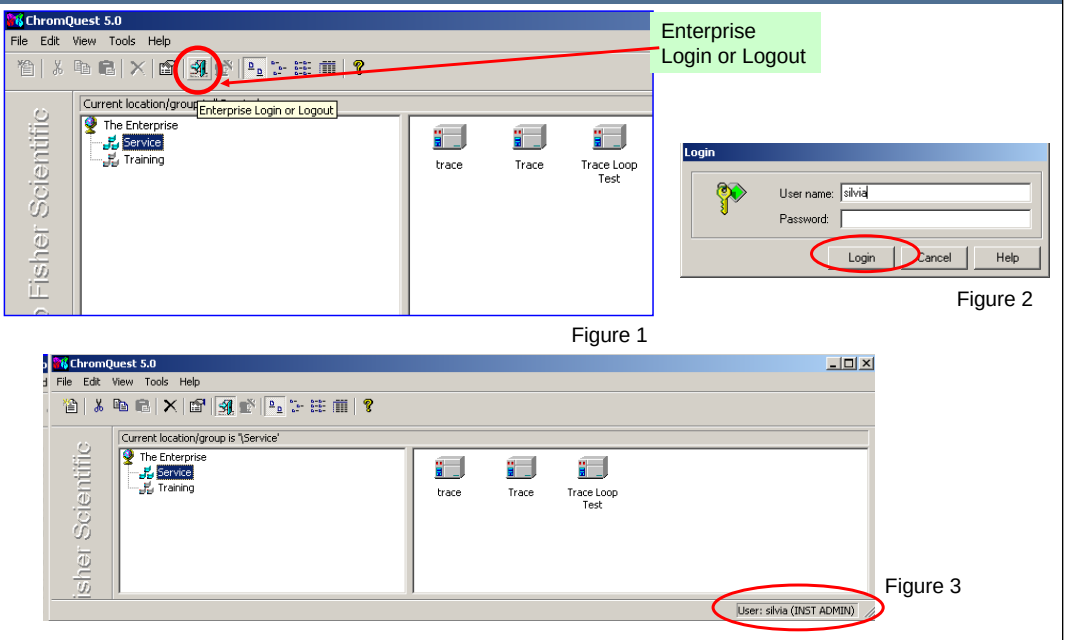
Open the “Instrument Configuration” and Add the TriPlus Autosampler and double-click the instrument icon (Figure 1).

In the window that appears, write the IP address in “Network Address” (Figure 2). Then, click “Get” to import the configuration from the instrument and click OK to save the parameters set.

ChromQuest: setting the IP address



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Click “Enterprise Login or Logout” icon (Figure 1). Write the username and click “Login” (Figure 2).

Figure 3 is the window that appears. In the left bottom it is reported the kind of user (Administrator or Instrument Administrator)

ChromQuest: setting the IP address for Trace GC Ultra

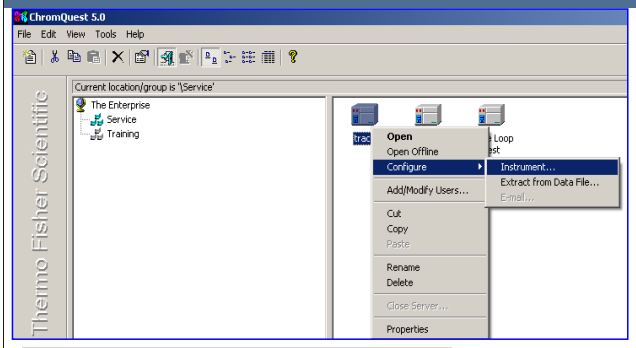

Figure 1

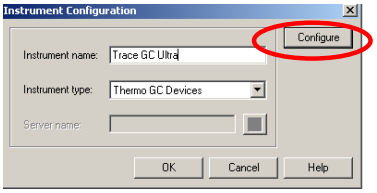

Figure 2

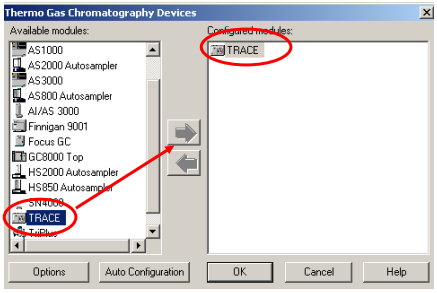

Figure 3

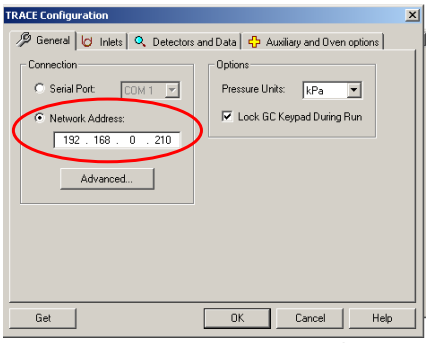

Figure 4

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Keeping the mouse on an instrument icon, click on the right button and select “Configure” -> “Instrument” (Figure 1)

Write the “Instrument name” and then in “Instrument Type” select “Thermo GC Devices”. Click on “Configure” (Figure 2)

In the next window select Trace GC on the llist on the left and click on the arrow to export it in the right list (Figure 3). Double-clicking the icon on the right list, it appears the window showed in Figure 4, where you have to set the IP address. Then, click “Get” to import the configuration from the instrument and click OK to save the parameters.

ChromQuest: setting the IP address for Focus GC

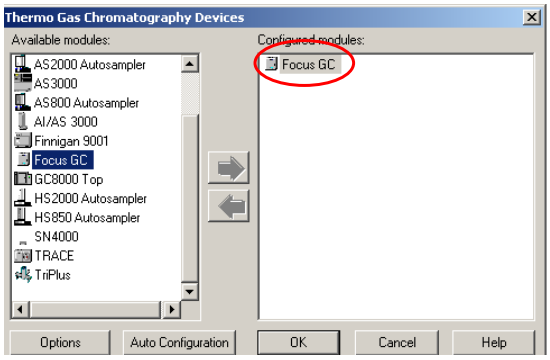

Figure 1

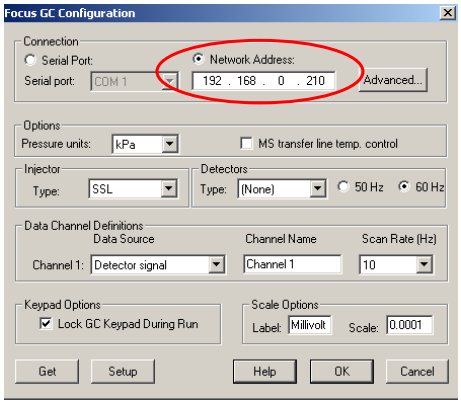

Figure 2

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These are the windows that appear in the case of a Focus GC (Figure 1 and Figure 2)

ChromQuest: setting the IP address for TriPlus

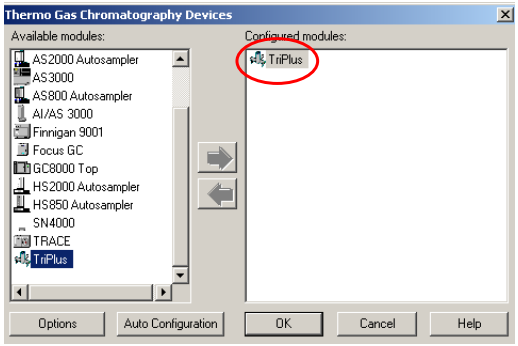

Figure 1

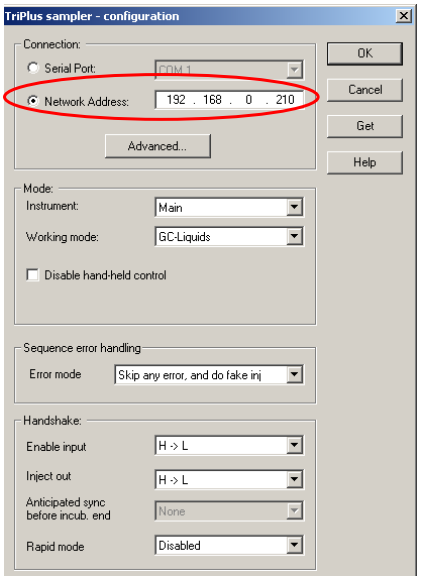

Figure 2

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These are the windows that appear in the case of a Focus GC (Figure 1 and Figure 2)