

NETWORK

Guide



This document contains 6 pages

APPROVED

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INDEX

1	Intr	oduction	3
	1.1	Purpose	3
2	Diag	gram and Elements of a Network	3
3	How	v to KNOW the IP Address	4
4	How	v to CHANGE an IP Address	5



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1 INTRODUCTION

1.1 Purpose

The intention of this document is to describe the steps and keys to make the installation of a Network for a simulator.

2 DIAGRAM AND ELEMENTS OF A NETWORK





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NOTES:

- COMPUTER 1: it must be the most powerful

- IP Address: the IP can be automatically given by the MODEM-ROUTER or manually through the user (read next page to see your IP and how to change it).

- The unique requirement in order the computers can talk is that all the computers must have the same range IP (In this example the range is 1 for all the computers as you can see in green color; 192.168.1.101)

3 HOW TO KNOW THE IP ADDRESS

That is an example for Windows XP in an orientated way. The user can find a lot of tutorials for all the Operating Systems in internet. Anyway, all these O.S. are very similar to check.

Here's one way to know the personal IP address of your computer for Windows XP:

- 1. Go to: Start -> Run. An input box will appear with a flashing cursor.
- 2. Type: **cmd**. Click on OK or press the Enter key on your keyboard.

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			= Escri
Internet Explorer	Mis documentos		ecur
Correo electrónico	Ocumentos recientes →		Abrir:
Microsoft Office Outlook	🔗 Mis imágenes		
Bloc de notas	🥑 Mi música		
	😼 MI PC		
Adobe Reader 9	Mis sitios de red		
Microsoft Office Word 2007	Panel de control		
SC-SC Pascal 5.1	Configurar acceso y		
WinRAR	impresoras y faxes		3. A ne Here
Microsoft Office Excel 2007	🕜 Ayuda y soporte técnico		1 Droc
	<u>B</u> uscar		kevl
T <u>o</u> dos los programas 🕨	jecutar		show
	Cerrar sesión 🧿 Apagar equipo		
🛃 Inicio 👘 🖉 🙆 🚳	»		
		-	

Ejecuta	ır 🔹 🤉 🔀
-	Escriba el nombre del programa, carpeta, documento o recurso de Internet que desea que Windows abra.
Abrir:	zmd 💌
	Aceptar Cancelar Examinar

- 3. A new black color window is opened. Here type: **ipconfig**
- Press the "Enter" key on your keyboard and IP Address will be shown.

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ex C:\WINDOWS\system32\cmd.exe	- 🗆 🗙
Microsoft Windows XP [Versión 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.	▲
C:\Documents and Settings\Sismo> <mark>ipconfig</mark>	
Configuración IP de Windows	
Adaptador Ethernet Conexión de área local :	
Sufijo de conexión específica DNS : Dirección IP : 192.168.2.101 Máscara de subred : 255.255.255.0 Puerta de enlace predeterminada :	
C:\Documents and Settings\Sismo>_	
	-

4 HOW TO CHANGE AN IP ADDRESS

E.g. for Windows 7:

- 1. Go to: Start -> Control panel -> *Network and Sharing Center*-> Configuración del adaptador.
- 2. Press with the right button of the mouse on the icon of "*Local Area Connection*" and later press on General Properties.
- 3. After a window is opened. Make double click on "Internet protocol v4 (TCP/IPv4)".
- 4. Again a new window is opened. Mark the option "Use the following IP Address" in order that the zone where it will be possible to write the new IP address of the control computer is enabled (E.g: IP address **192.168.**<u>1</u>,101)

<u>Red colour</u> number is the range and must be the same in all the computers connected and <u>green number</u> is the unique one which must be change between different computers).

E.g:

192.168.1.101 (main computer 1 -> Simulator)

192.168.1.102 (computer 2)

192.168.1.151 (equipment 1)

192.168.1.152 (equipment 2)

5. As "subnet mask" to write **255.255.255.0** (recommended be always the same).

G	Ed 1 Rev 1	NETWORK		
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→ Panel de control →	Redes e Internet Conexiones de red	Buscar Conexiones de red	
Organizar Deshabilitar este d Conexión de área local Red no identificada NIC de Fast Ethernet Realti		Propiedades: Protocolo de Internet versi General Puede hacer que la configuración IP se a red es compatible con esta funcionalidad consultar con el administrador de red cue apropiada. Obtener una dirección IP automátic Usar la siguiente dirección IP: Dirección IP: Máscara de subred: Puerta de enlace predeterminada: Obtener la dirección del servidor DP	ón 4 (TCP/IPv4) signe automáticamente si la . De lo contrario, deberá ál es la configuración IP amente 192 . 168 . 1 . 101 255 . 255 . 255 . 0 IS automáticamente
	Instalar Desinstalar Pro Descripción Protocolo TCP/IP. El protocolo de red de área exte predeteminado que permite la comunicación entre redes conectadas entre sí. Aceptar	Usar las siguientes direcciones de s Servidor DNS preferido: Servidor DNS alternativo: Validar configuración al salir	ervidor DNS:

- 6. Finally, the windows will be closed when "Ok (Aceptar)" has been pressed. From this moment the change has been saved.
- Once the process has finished, both the IP address of the Board and the IP of the control computer will have the same range, in this case *range 1*. Now to accede to the configuration page of the Board will be possible.

<u>Note-1</u>: This is only an example for Windows 7 in an orientated way. The way of changing the IP for other operating systems can be found into multiple tutorials or Internet.

END OF THE DOCUMENT

	Ed 1 Rev 1	NETWORK		
C		GUIDE	GUI-FO-E-RR-10-00-X	6