Multiplayer

Multiplayer allows you to race against real opponents, anywhere in the world, thanks to the internet or a local network. In Virtual Reality this can be done with 5 opponents, with the other training types it is possible with up to 19 opponents. It is important that the internet connection of the VR rider who starts up the server is good and fast, and that his PC is also fast.

Multiplayer License
All VR trainer (or ergotrainer with an Upgrade PC) users get a free 4 week Multiplayer trial. Then they can apply for a 6 month or 1 year license on this screen.

> The Fortius Mulitplayer and the Upgrade PC Flow come with a 1 year license.

In order to start playing you will only need to register once via the user profile that you are connected to the internet with. The serial number of your interface or handlebar computer will serve as your unique identity. Follow the instructions on the screen explaining you how to purchase a license.

Starting Multiplayer

Before you start you should choose between Internet and LAN Racing. Then you have the possibility of joining a server (participating in a race) or starting up a server (promote a race). Make your choice by ticking the right box and choose **Next**.
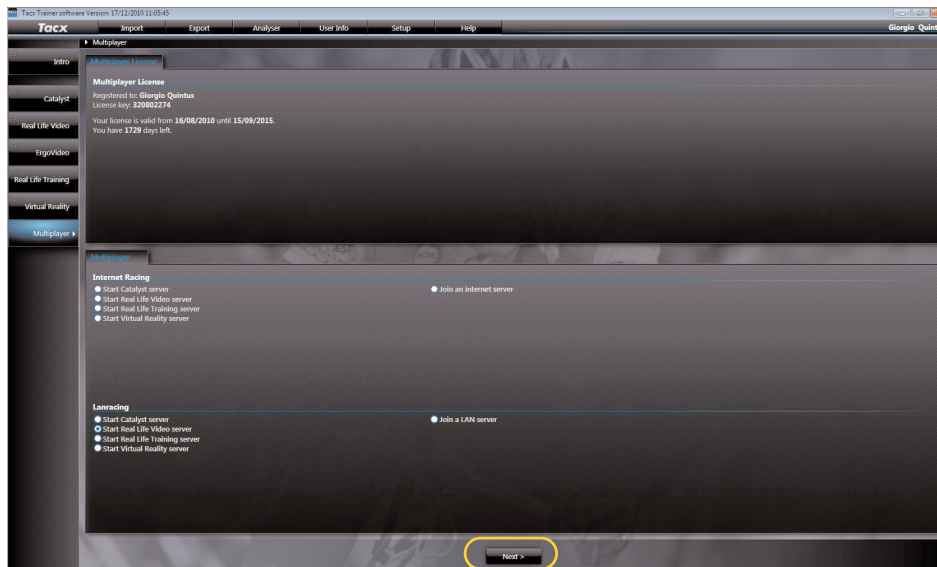

The difference between internet and LAN racing
Internet racing runs through the internet. It is important that you have a fast PC and internet connection, and your router's settings must be correct. LAN Racing is done without internet, for example in a gym with trainers lined up and connected by means of a network cable. You do not have to modify the port settings on your PC.

- More info: **Multiplayer and Bikenet › Port settings**

Participating in a race

When you join a server you can participate in a race organised by another VR rider.
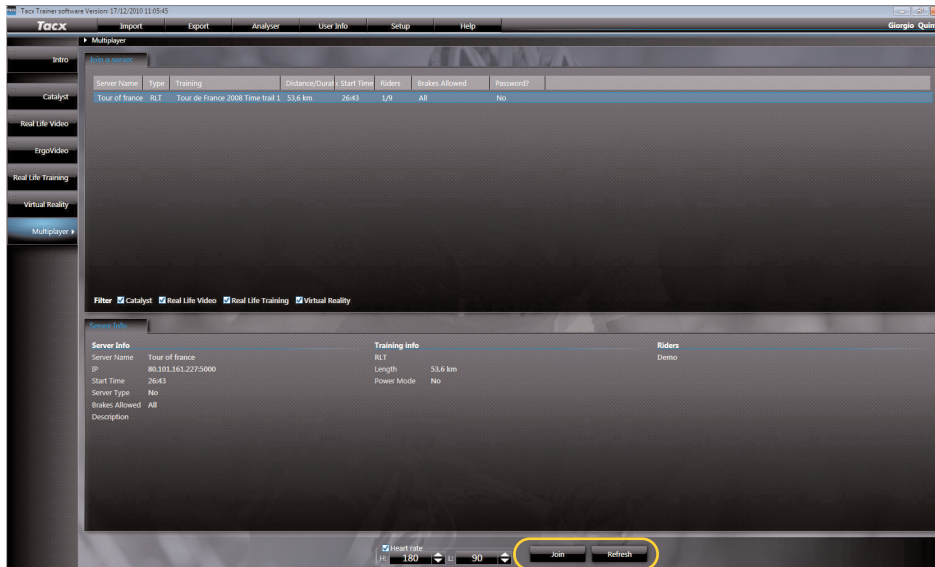
At the top you will see the races which are ready. At the bottom information regarding the server and program appears. Use the tick boxes to indicate if you want to see only the Catalyst, Real Life Video, Real Life Training or Virtual Reality races. At the top of the list you will find the race's start time, the number of riders registered for it, the eligible brake types and if the race is password protected. Click **Refresh** to refresh the server list.

Clicking on **Participate** registers you for the race about to begin. Also indicate if you wish to ride with heart rate **On** (with corresponding limits) or **Off**. After loading the terrain you can **chat** with the other riders until the race starts. When countdown gets to 0 the program will start automatically.

> A pop-up may appear after clicking on **Participate** in which the Firewall asks you if the communication is allowed. Select: allow access.

Organising a race

Select the training type you wish to organise the race for. After choosing terrain or film and course you will find a few server settings to the right that need filling in before the start.

> Only existing courses may be used for the organisation of races. It is not possible to generate a new course here.

Server Settings

|	
Server Name	Fill in the name such as it will be listed under available races, which other riders can choose from.
Start Time	Countdown setting, this indicates how much time is left before the start of the race.
Server Type	Choose Private if you do not want other people participating. After making this choice you can enter a password, so that only your friends who know the password may participate. If you choose **Public**, any VR rider may participate.
Eligible type of brake	Indicate if anyone can participate, or just people with a specific type of brake. This will level the playing field. You can choose between all brakes, or only motor brakes (Fortius).
Max. number of riders	This is the maximum number of participants in your race. You can choose from 2 to 6 riders. If you want more riders you will need a fast PC.
PowerMode	As the organiser you can also set the PowerMode in order to affect the braking force. All of the participants will then feel the increased or diminished resistance
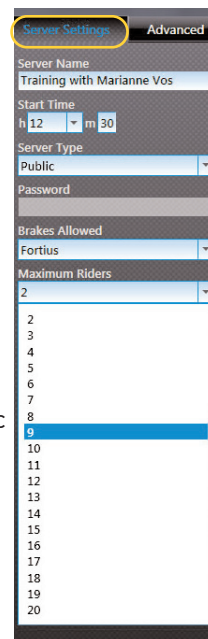
## File tab advanced

Port	This important! Enter the number 5000 under Port. The Port number for LAN is always 7328. This is the same port you have forwarded in your router. After starting up you do not need to fill this in anymore.
	• More info: **Multiplayer and Bikenet › Port settings**
Quit after 1st finish	When you click **Yes**, the race will stop as soon as the winner crosses the finish line, regardless of where the opponents are at that point.

Starting the race

Click **Start** once the server settings have been filled in. The screen below will appear. At the same time this screen will also be displayed on www.tacxvr.com so that all VR riders can see a race is about to start and that they can possibly still enter it.
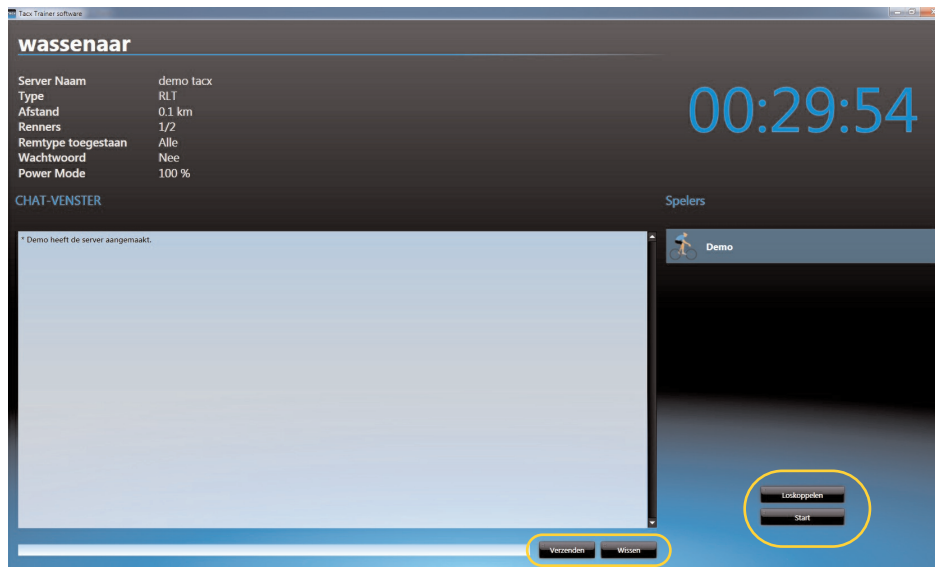
You will see a count down in the right hand top corner, it's counting down the time left before the start. Underneath you see the list of participants in the race. On the left side of the screen you have room to chat. When you click **Disengage** the race will be interrupted. The race organiser will decide when the race starts by clicking **Start**. It is possible to do this before the actual indicated Start Time.


Multiplayer at www.tacxvr.com

Port settings

When you are organising a race on the internet, you have to first adjust the port settings for your router and Firewall. A router is the hardware that establishes the connection to your internet provider. You also adjust the security settings here, to activate your wireless network for instance. In your router's manual you will find instructions for this, if you cannot find these, then maybe the following guidelines can be of help.

Router

1. First you open your router. The access is different for many routers. If you do not have a manual anymore you can also find router information on www.portforward.com. Standard access is usually obtained through Internet Explorer and IP address 192.168.1.1.

2. Go to Internet options › Gaming and select **Portforward**.

3. Always open 2 consecutive ports (e.g. 5000 and 5001) in TCP and UDP. The port number for LAN is always 7328.

4. Go to the search function in Windows in order to find the IP address and type **cmd**. Then you type **ipconfig**. This will show you the IP address. Windows Vista and 7 users take the **IPv4** address
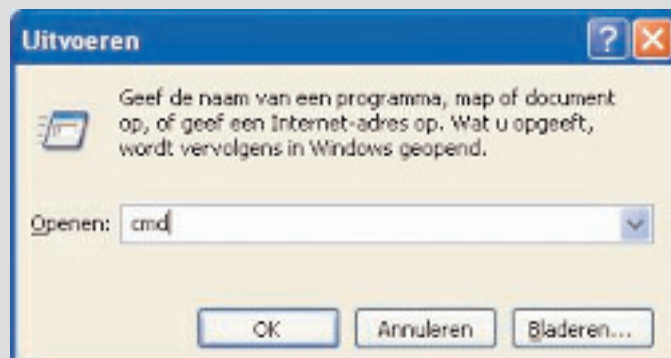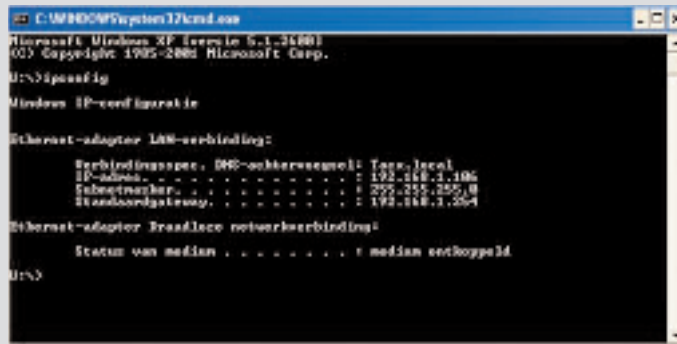
Firewall
Make sure the Firewall does not block access when the port settings are opened. Open Windows Firewall and select **Add a program**. Now click Browse and go to **C:\Program Files\Tacx\TacxTrainersoftware3\Trainersoftware.exe**.