Victoria Combo Remote Control

Victoria Combo Remote Control enables you to control your tester from any where in world. The only requirement is that the Victoria Combo and the PC are connected to TCP/IP networks either physically or using a wireless connection. This means that an engineer can test a network without leaving his desk.

This Application Note describes how to set up a Victoria Combo and a PC for remote testing.

Application Note Combo Rem Ctrl

Testing the World's Digital Networks

TrendCommunications

INTRODUCTION

Victoria Combo Remote Control enables you to set up and run tests using your tester from anywhere in the world. The tester must be connected to a TCP/IP network, and similarly you must have access to a PC connected to a TCP/IP network.

SETTING UP THE VICTORIA COMBO

To be able to use Victoria Combo with Remote Control you must connect it to a TCP/IP network. It also means that you will be able to download software updates from the Internet, transfer files from Victoria Combo to a PC or server, and connect to the Internet using Victoria Combo. Before you can use your Victoria Combo in this way you must set up networking.

You can use Victoria Combo's internal Ethernet connection or an Ethernet connection made using a card inserted in one of the two Compact Flash slots in the rear module. If you use an Ethernet card in one the Compact Flash slots you can also use wireless networking.

To set up networking:

1. Touch the main menu button, .
   The main menu is displayed.
2. From the main menu choose **Platform**, then choose **Host Configuration**, and finally **Open**.
   The **Host Configuration** window is displayed.
3. Enter the **Main Parameters** for the network server Victoria Combo is going to be connected to - **Host Name**, and **Domain**.
4. In the **Name Resolution** section enter the **DNS Primary** and **DNS Secondary Servers** and the **Search Domain**.
   DNS resolution is performed by the concatenation of the **Host Name** and **Search Domain** fields. The **Domain** field contains the usual domain used by Victoria Combo. Because Victoria is portable and may be connected to different networks, the **Domain** makes it easier to reconnect without changing the IP settings.
5. If you want these settings to apply for this session only, touch **Apply**. If you want these settings to be the default settings, touch **Reload**.
   The three possible Ethernet interfaces on Victoria Combo are listed at the bottom of the **Host Configuration** window.

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6. You can set up the Ethernet interfaces to have different settings. The buttons (...) to the right-hand side of the list are short cuts to the Ethernet options on the **Networking** menu, see below for more information.

Setting up the Internal Ethernet Connection

Victoria Combo has three ports that can be used as Ethernet interfaces:

- **Eth0**: the **Ethernet** window enables you to configure the Physical (internal) **10BaseT** (RJ45 connector);
- **Eth1**: configuration for the port for the wireless LAN 802.11 card;
- **Eth2**: configuration for the port for the wireless LAN 802.11 card.

This section describes how to set up the internal, physical Ethernet connection.

When you are setting up the connection, make sure you only choose one Ethernet port at a time (in the example below **Eth0**); the other two ports must be deselected. This is to prevent possible connection failures due to incorrect configuration.

1. Touch (...) next to **Eth0**.
2. If the network you are going to connect Victoria Combo to has a DHCP server this server will assign a dynamic IP Address to Victoria Combo. To set this up, choose **Get an IP Address from a DHCP Server** and enter a **DHCP Client Name** for Victoria Combo.
3. If there is no DCHP server on the network, choose **Specify an IP address** and enter an **IP Address**, **Network Mask**, and **Default Gateway** (if necessary).
   If there is no gateway the **Default Gateway** is set to **0.0.0.0**.
4. If you want to, you can define more than one DNS server for resolving the host name for the same Ethernet port. To do this, in **Specific Interface Resolution**, enter a **DNS** and **Search Domain**. This means that is the first **Search Domain** cannot resolve the host name, the second one is used.
5. If you want these settings to apply for this session only, touch **Apply**. If you want these settings to be the default settings, touch **Reload**.
6. To activate this Ethernet port, choose **Enable this Network Interface** in the **Status Interface** section.
7. If you want these settings to apply for this session only, touch **Apply**. If you want these settings to be the default settings, touch **Reload**.
8. The **MAC Address** of the Ethernet card is displayed at the bottom of the window.

Setting Ethernet CF Card 1 and 2

The windows for configuring the Ethernet Slot 1 and 2 have the same parameters as the **Ethernet** window described in the previous section.

1. Set up the Ethernet slot as described above.

Setting up a wireless interface

When you are setting up the Ethernet interface for slots 1 and 2 you can also set up a wireless interface:

1. In the **Networking Ethernet CF Card** window tap **Wireless**.
   The **Wireless** window is displayed.
2. Enter the **ESSID**[1] (the 802.11 Network Name)
3. Choose an operating mode, this depends on the type of network you are working on (**Ad-hoc** or **Managed**).
4. Select the **Transmission Rate** and the **Channel Frequency** from the lists.
5. As an optional security feature you can encrypt the communication by entering an **Access Key**.
   The maximum length is 64 characters.
6. If you want these settings to apply for this session only, touch **Apply**. If you want these settings to be the default settings, touch **Reload**.

1.ESSID: Extended Service Set Identifier

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SETTING UP THE PC

Before you can use Victoria Combo Remote Control you must install the Remote Control software and set up the connection between the PC and the Victoria Combo:

Installing the Remote Control Software

The files for Remote Control for Victoria Combo are included on the Trend User Information CD-ROM or can be downloaded from the Trend Communications web site - www.trendcomms.com.

1. Save the self-extracting zip file you have downloaded from the web or copied from the CD-ROM to a folder on your PC.
2. Double-click on the **.exe** file and extract the files to a folder.

   Four files are extracted:

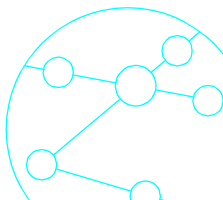
   - **ius.dat**
   - **opt.dat**
   - **setup.exe**
   - **zdata1.dsk**
3. To install the Remote Control software double-click on **setup.exe** and follow the instructions displayed on the screen

Setting up the Connection

When you have installed application, a new option called **Victoria Combo** is created in the **Start** menu of your PC. Within the **Victoria Combo** option, there is an uninstall program and a batch program (**OspreyLauncher.bat**).

1. To run Victoria Combo remote Control, choose **OspreyLauncher.bat** from the **Victoria Combo** menu.
2. Make sure that the PC and the Victoria Combo are correctly connected to a wired or wireless network, for more information *see* Setting up the Victoria Combo *on page 2*:

   - LAN connection (wired): use the Ethernet cable supplied).
   - LAN connection (wireless): use a standard Compact Flash IEEE 802.11 to establish the connection.
   - Ethernet direct connection between the Victoria Combo and your computer: use the Ethernet crossover cable supplied (the one with **red** ends).



3. To create a connection, click on **New**.
   The **Victoria Combo definition** dialog is displayed.

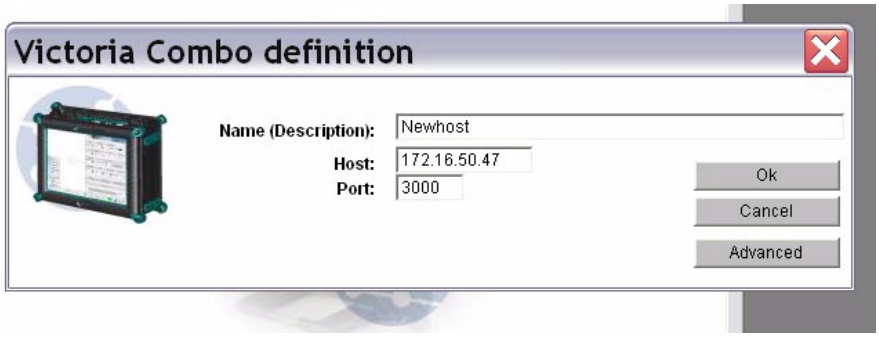


Figure 1.1 Application Launcher: Enter the IP address

4. Enter a **Name (Description)**.
5. Enter the IP address of the Ethernet port of Victoria Combo in **Host**,
6. Enter the **Port** number.
   By default this is 3000 when you connect a Victoria Combo to the same LAN that your computer is connected to. If you want to connect a Victoria Combo to a remote site through Internet, you must ask the network administrator of the LAN which Victoria Combo is connected to for an IP address to enter in **Host** and the value of the **Port**.
7. Choose **OK**.
   A description of the new connection is displayed in the Victoria Combo window.

USING VICTORIA COMBO REMOTE CONTROL

1. To connect to a Victoria Combo, choose which tester you want to connect to from the list in the Victoria Combo launcher window and then click on **Open**.
   A **Task** window is loaded from Victoria Combo and a series of Java classes is loaded. This only happens when Victoria Combo is connected for the first time or when you use a new software version. Wait until all the Java classes are downloaded from Victoria Combo to your computer.
   When the downloading process has finished, a window is automatically opened. This window is identical to the interface on Victoria Combo.
   There is an icon at the bottom right-hand corner of the window. Wait until the icon changes to a hand and the icon just beside it (a network LAN) has one green LED, and the remaining ones are dark grey. Now

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you can use the remote interface in the same way as the interface on Victoria Combo.

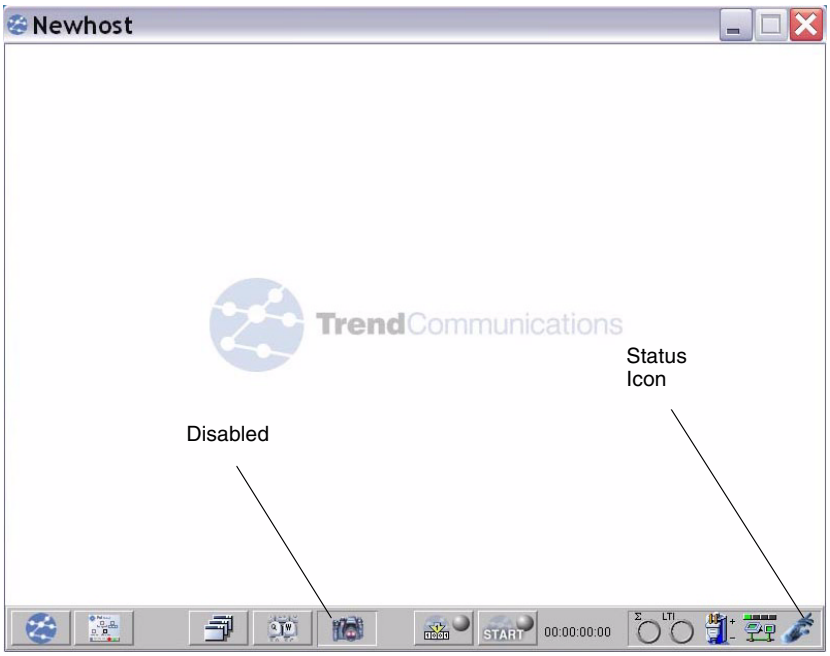

Figure 1.2 Application Launcher: Remote GUI

There are two differences between the Remote Control window and the Victoria Combo User Interface:

- The Print Screen button is disabled: You can capture the windows of Remote Control directly using your PC. This also avoids conflicts due to Victoria Combo's memory being filled by several users making screen dumps at the time.

- There is an additional status icon: this icon shows the *Role* of the user. There are three types of role:
  - **Viewer**: this user can only see what other users connected to this Victoria Combo are doing, but he cannot control the tester;
  - **Controller**: This user can both see what is displayed and control the tester;
  - **Owner**: This user is the same than the previous one, but this user can edit a message that other users can see (for example a request to be the only user that sets up the Victoria Combo).

  All these roles can be selected using Remote Control:

2. Click on the **Status** icon.
   The **Change Role** dialog is displayed as shown below:

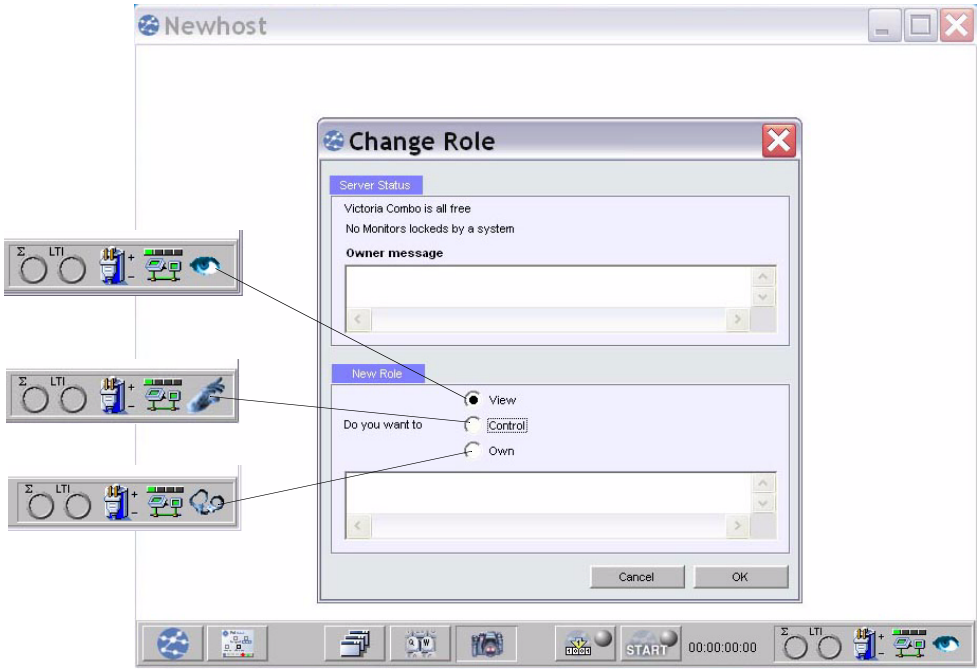

Figure 1.3 Roles

3. To change to the Owner role, select it and type a message in the text field at the bottom of the window.

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4. Choose **OK** to validate the selection.
   Other remote users of the Victoria Combo will see the message from the owner in the text field at the top of the window.

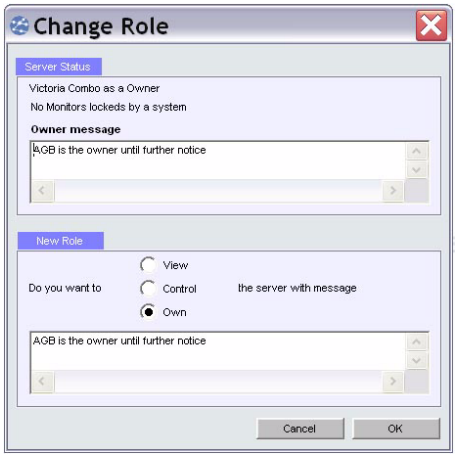
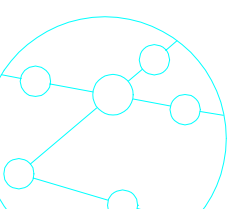


Figure 1.4 Message editing for the Owner role



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