

VistaLINK[®] PRO Web Graphics

Instruction Manual

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REVISION HISTORY

<u>REVISION</u>	<u>DESCRIPTION</u>	<u>DATE</u>
1.0	First Release	Dec 07
1.1	Updated component check list	Apr 08

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1. INTRODUCTION

1.1. OVERVIEW

VistaLINK[®] Pro (VLPRO) WebGraphics software provides newly advanced monitoring capabilities for the VLPRO monitoring suite. The WebGraphics program enables the viewing of alarms and views from any window stations with a web browser (with Java applets enabled). With the proper routing (and possibly fire walling), users can have easy access to facilities VistaLINK[®] setup from any place through Internet.



NOTE: The WebGraphics Client is used only to monitor Alarms generated by the devices; configuration is not possible.

1.2. WEB CLIENT FEATURE/RESTRICTIONS

Due to restrictions on the WebGraphics Client not all functionality in a standard Graphics Client will be available in the WebGraphics client.

1.2.1. Views/Pages

- Users will be able to load views only from system pages or the *Navigation Tree*, created by other clients.
- Design mode is disabled.
- No local page control will be available.
- Dynamic page functionality will be enabled.
- View links between pages will be enabled.
- Page creation and deletion will be disabled but the WebGraphics Client will respond to these actions when generated by other clients instantly.

1.2.2. Configurations Controls/WebGraphics Clients/Streams/Launches

- The types of components that can be dropped on a graphics view will not be enabled in the WebGraphics Client.
- Placeholder objects will be available as in standard Graphics clients.
- These types of components will still be updated in terms of adding/deleting and moving on a graphics view.

1.2.3. Custom Icons/Clocks/Vectors/Hardware/Services

- The types of components that can be dropped on a graphics view will be enabled in the WebGraphics Client.
- Hardware and Services will display their current severity/alarm state in the same manner as the Graphics client.

1.2.4. Alarm / Configuration Functionality

- Normal functionality of the present Web client has configuration functionality disabled. The same will be the case for the WebGraphics Client.

- Alarm functionality will be enabled in the WebGraphics Client to the same level as in the Graphics Client.

1.3. THEORY OF OPERATION

The VistaLINK® Web Graphics consists of two entities that make up the whole system to look and feel like the graphics client. This is setup in a client/server fashion to facilitate communication to the VistaLINK® server. When choosing the installation locations, you are deciding where to reside the backend location.

There are basically 3 components:

- Web Browser - front end
- Web Server (http Server) - backend
- WebGraphics Gateway - backend

The front end, in its most simplistic form, consists of a web page that is delivered by the web server, which holds the upper half. The upper half communicates bi-directionally to the bottom half, not the http server. The purpose of the http server is to deliver the control program (upper half) to the user through http or the web browser.

Step 1: Web Browser makes a request to get vistalink.com

Step 2: Web Server Returns with Applet

Step 3: Applet communicates bi-directionally with graphics Gateway

Step 4: Client Loads applet after downloading

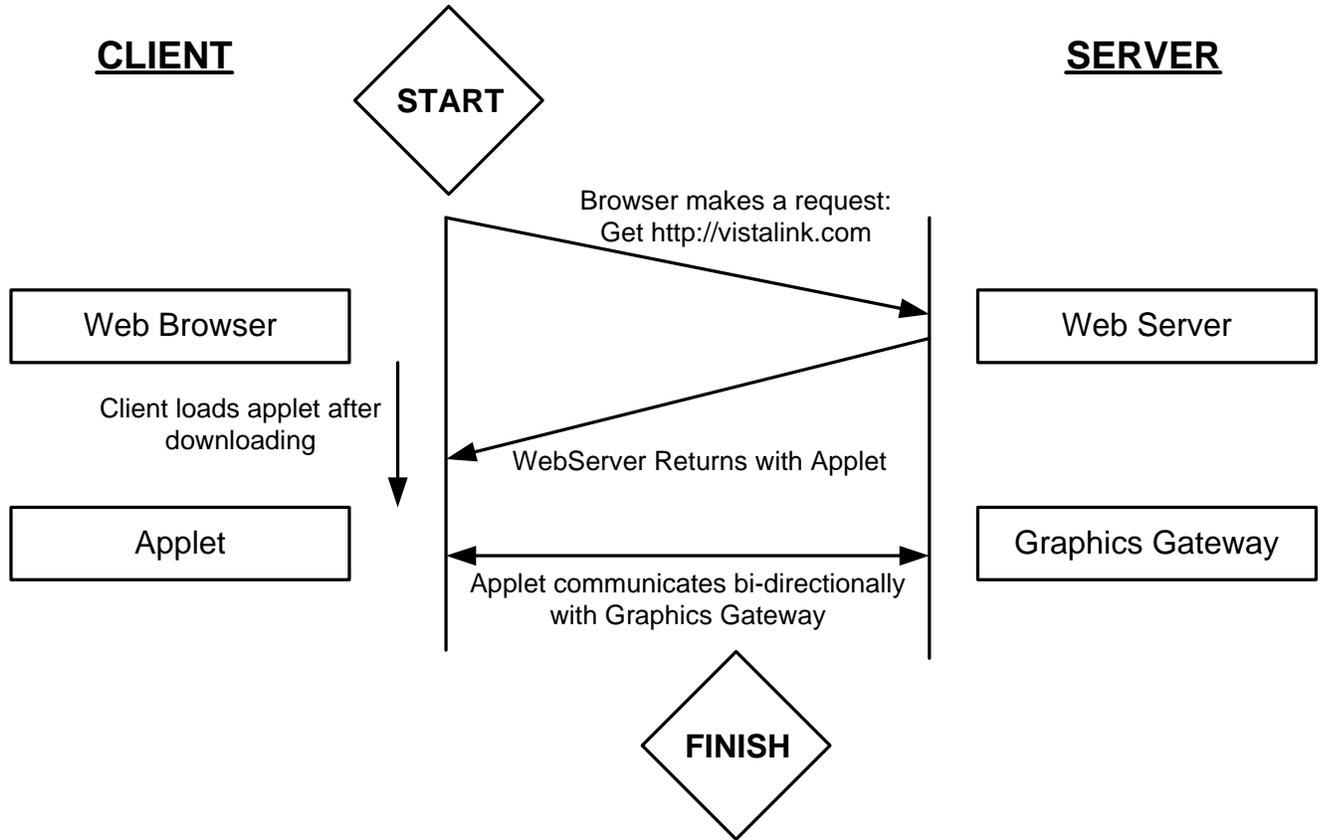


Figure 1-1: Operation Flow

The backend location (server) is not expected to change or power down. The front end (client), however, is expected to change locations or even be turned on and off. The backend can reside on the same machine as the VistaLINK[®] server or on a separate machine for distribution of services. In a simplistic form it is better to have the Graphics Gateway on the same machine as the VistaLINK[®] server.

In more complex networks where incoming Internet traffic is isolated close to your Internet gateway, this may be a problem. If this is the case, it is recommended that a separate machine is setup to facilitate the graphics gateway. Please do not move your VistaLINK[®] server to accommodate this. Moving your VistaLINK[®] server to a heavy traffic area, for example close to your Internet gateway, will risk missed traps from your agents. If traps are lost when they are sent to your VistaLINK[®] server, problems may go unnoticed until it is too late. If this is the case, your whole setup will be defeated

If the Graphics Gateway is located outside of the VistaLINK[®] server, it must then be able to reach it on the network. The communication between the VistaLINK[®] Server and Graphics Gateway is a unicast, orientated connection. The connection is reliable and nothing is left out in a heavily congested or problematic area. Figure 1-2 displays the famous topology known as a screened subnet architecture where the Graphics Gateway and Web Server would be very adequate.

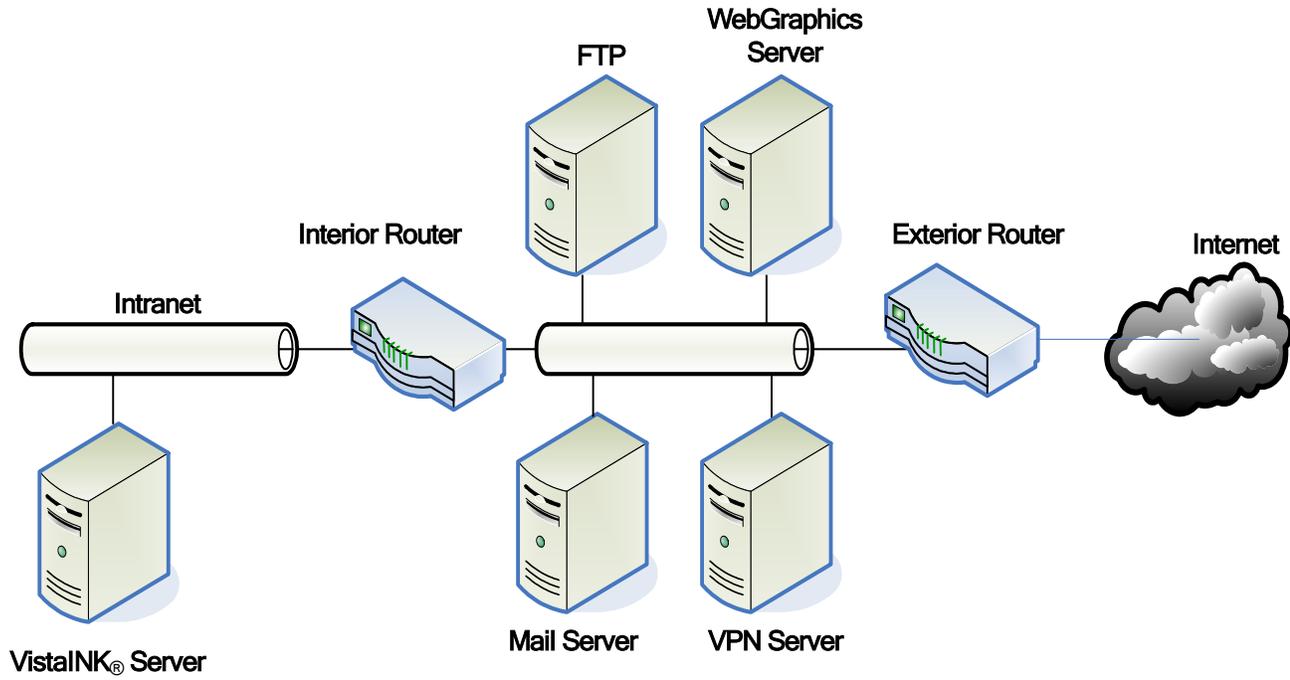


Figure 1-2: Screen Subnet Architecture

2. INSTALLATION OF THE VLPRO WEBGRAPHICS CLIENT

2.1. COMPONENT CHECKLIST

To start working with the VLPro WebGraphics, your machine must meet the following requirements.

- Pentium 4 (2.0 GHz or higher)
- 1 GB RAM (minimum)
- 10/100 Ethernet Adapter
- SXGA (1280x1024) Screen Resolution
- CD-ROM
- Windows 2000, XP, Server 2003, Vista O/S
- Evertz Monitoring Toolkit CD-ROM
- VLPRO WebGraphics Client Install Software
- VLPRO License (The server should have license for *Plus Web Clients*)
- A functioning install of VLProServer and Clients(s)

2.2. INSTALLING FOR WEBGRAPHICS CLIENT SOFTWARE

The VLPRO WebGraphics Client server is shipped via a CD that is included with your VLPRO monitoring package. Access the CD and insert it into a computer CD ROM, which meets the requirements listed in section 2.1. The WebGraphics Client server may be installed on a separate or the same PC as the VistaLINK[®] Server computer. Regardless of its location, the system that it is installed on must be able to run the WebGraphics Client server constantly. Double click on the WebGraphics Client server executable file to launch the installation process.

2.2.1. WebGraphics Client Installer Welcome Screen

After the installer finishes extracting its contents, the install script starts with a note that mentions to shut down any programs that may be running.

Once you have shut down any running programs, select the 'Next' button.

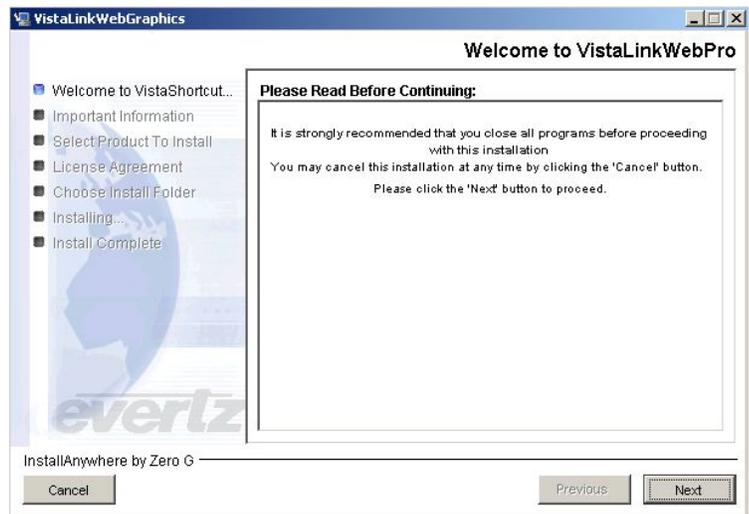


Figure 2-1: WebPro Installer Screen

2.2.2. Important Information Screen

An *Important Information* screen will appear. Once you have read and understood the information and guidelines described in this section you may select the *Next* button to continue the installation process.

Review the *License Agreement* to determine if you are able to accept the terms and agreements that are outlined.

Use the bottom radial buttons to make your selection. Select “Next” to proceed to the next menu if you have accepted the *Terms & Conditions*.

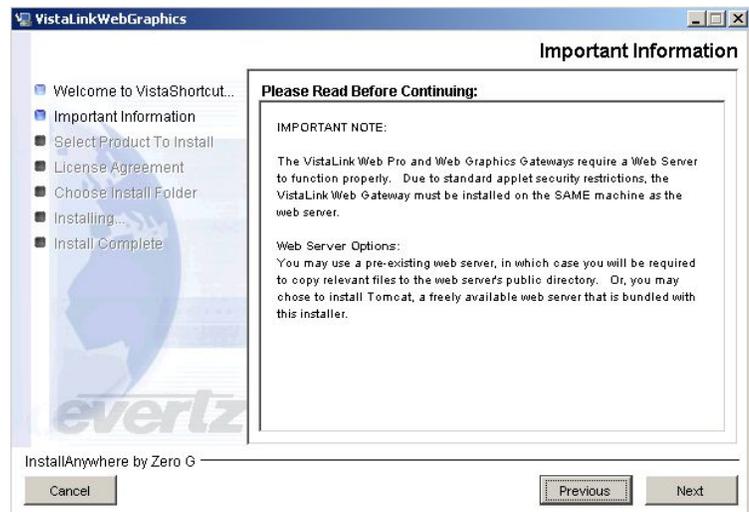


Figure 2-2: Important Information Screen

2.2.3. Select the Product to Install

The next screen will prompt you to select the desired product to install.

If you will be using an external WebServer, select the:

VistaLinkWebGraphicsGateway option.

To install the WebServer (tomcat) that came with the install, select the:

VistaLinkWebGraphicsGateway With Tomcat option. This is the recommended option.

Once the appropriate option is selected, click the *Next* button to proceed with the installation process.



Figure 2-3: Selecting Product to Install

2.2.4. Select the Installation Folder

From the installation folder menu, a custom installation path can be made with either the text box or the 'Choose...' button. (Default location is recommended)

A note is provided about existing WebGraphics Client server installations. If the 'Installation Folder' path contains an existing WebGraphics Client server installation, the install script will overwrite it.

Select the 'Install' button when ready to install the application.

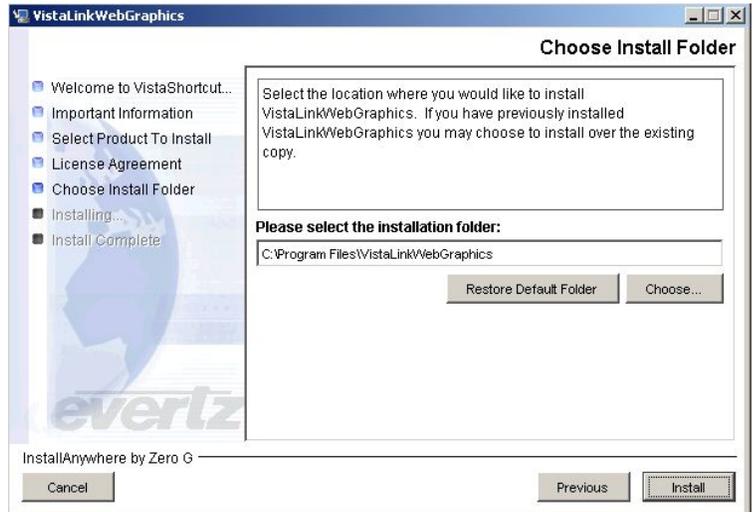


Figure 2-4: Choose Installer

2.2.5. Installation Complete

Once the VistaLinkWebGraphics has been successfully installed, select the 'Done' button to quit the installer.

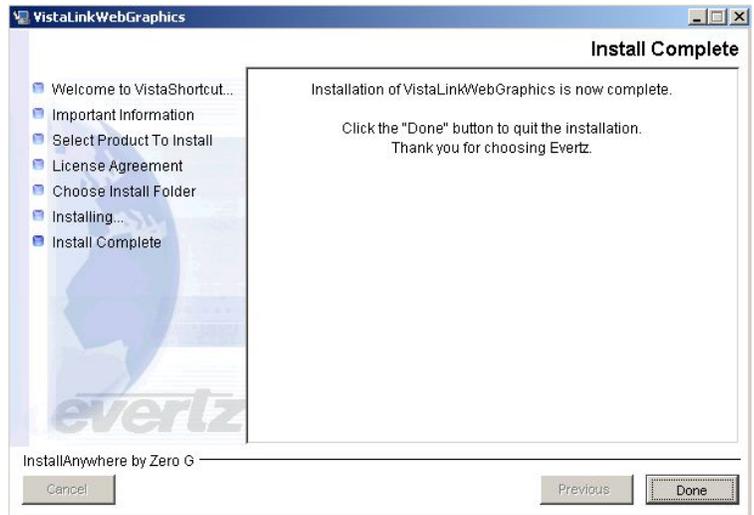


Figure 2-5: Install Complete Screen

2.2.6. Starting the Web Server (Tomcat)

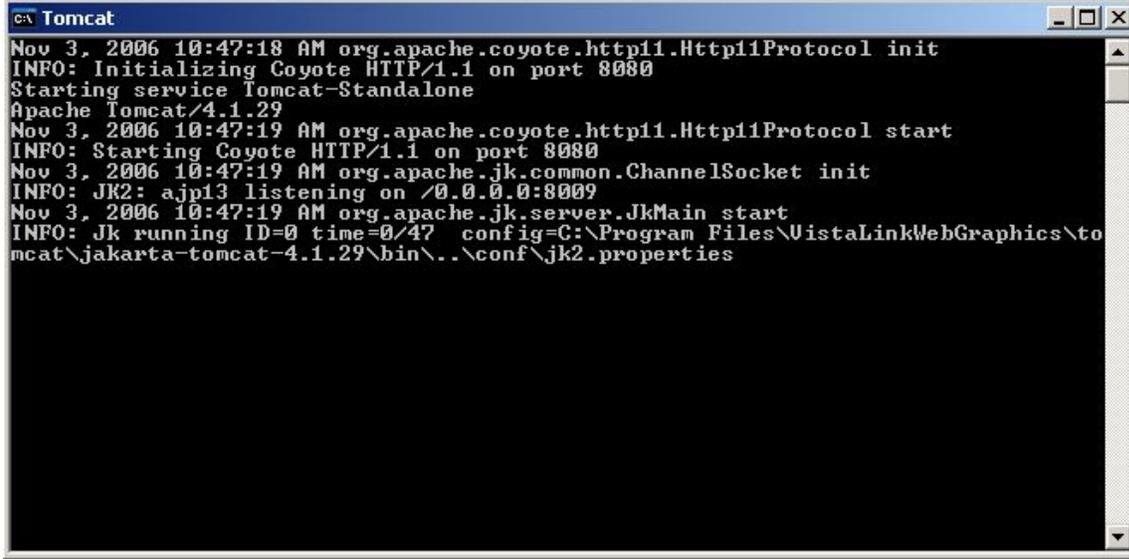
To launch the Tomcat application, navigate to:

Start > Programs > VistaLinkWebGraphics > Start Tomcat



Figure 2-6: Accessing Tomcat

Figure 2-7 is taken from a running Tomcat application.



```
c:\ Tomcat
Nov 3, 2006 10:47:18 AM org.apache.coyote.http11.Http11Protocol init
INFO: Initializing Coyote HTTP/1.1 on port 8080
Starting service Tomcat-Standalone
Apache Tomcat/4.1.29
Nov 3, 2006 10:47:19 AM org.apache.coyote.http11.Http11Protocol start
INFO: Starting Coyote HTTP/1.1 on port 8080
Nov 3, 2006 10:47:19 AM org.apache.jk.common.ChannelSocket init
INFO: JK2: ajp13 listening on /0.0.0.0:8009
Nov 3, 2006 10:47:19 AM org.apache.jk.server.JkMain start
INFO: Jk running ID=0 time=0/47 config=C:\Program Files\VistaLinkWebGraphics\tomcat\jakarta-tomcat-4.1.29\bin\..\conf\jk2.properties
```

Figure 2-7: Tomcat Screen

3. WEB GATEWAY CONFIGURATION EDITOR

If you have opted to use an external Web Server start your server accordingly.

3.1. WEB GATEWAY CONFIGURATION (SERVER)

To Start Gateway Configuration, navigate to *Start > Programs > VistaLinkWebGraphics>Gateway Configuration*

Once the Configuration Editor appears, click the key lock button to switch the editor into edit mode. Select the 'Server' Tab at the top and enter the IP address of the Alarm Server, as shown in Figure 3-1.

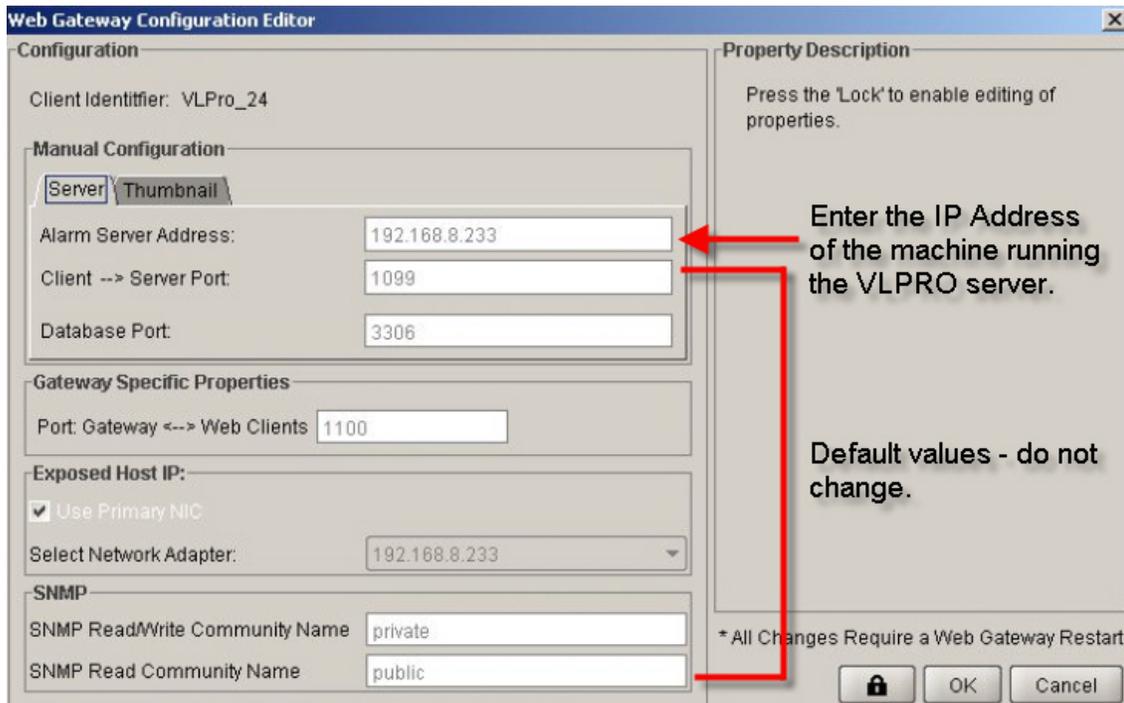


Figure 3-1: Web Gateway 'Server' Tab

3.2. WEB GATEWAY CONFIGURATION (THUMBNAIL)

To configure the Web Gateway Thumbnail, select the 'Thumbnail' Tab at the top of the *Configuration Editor*. Click on Add, enter the IP address of the Thumbnail Server. Select the *OK* button to save the configuration.



Note: This option is for optional TSERVER Thumbnail Server, if ordered.

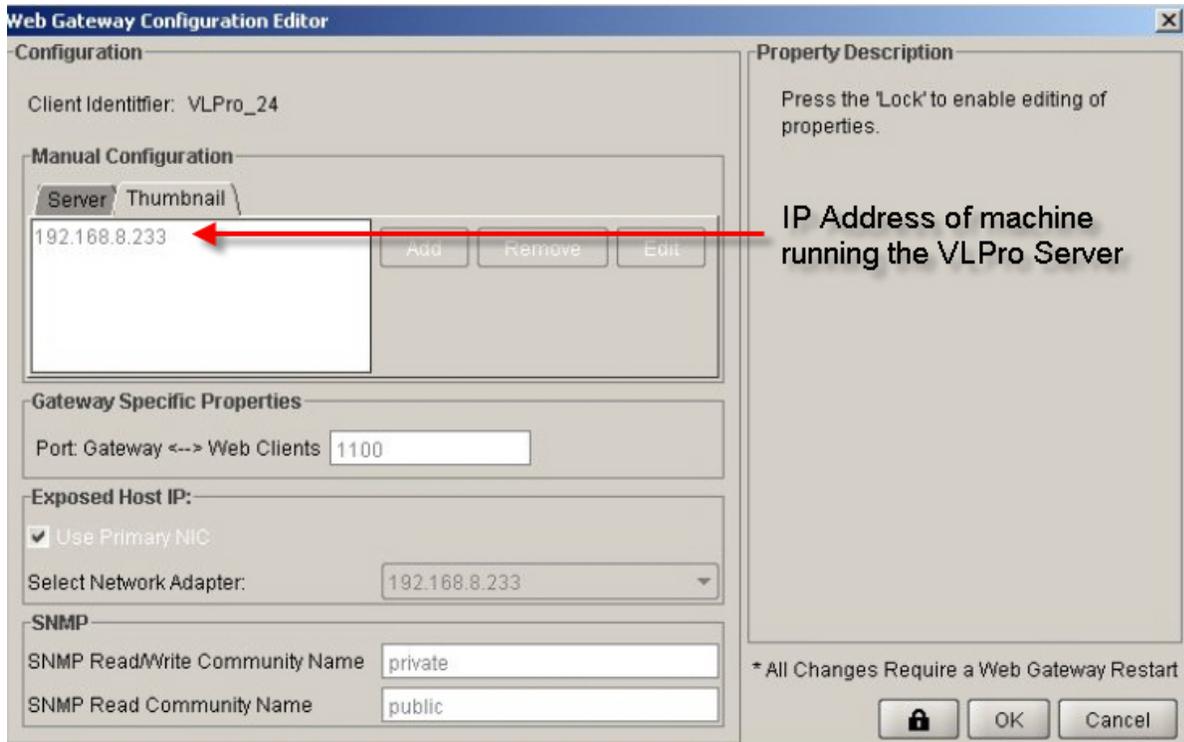


Figure 3-2: Web Gateway 'Thumbnail' Tab

3.3. STARTING THE WEB GATEWAY

To launch the Web Gateway, go to:

Start > Programs > VistaLinkWebGraphics > VistaLinkWebGraphicsGateway



Figure 3-3: Accessing the Web Graphics Gateway

3.4. WEB GATEWAY RUNNING

Once the user has launched the Web Graphics Gateway program, a screen similar to Figure 3-4 will appear.

There are currently no logged in Clients in this screen.



Figure 3-4: Web Client Logins

Figure 3-5 displays that the administrator Client Login.

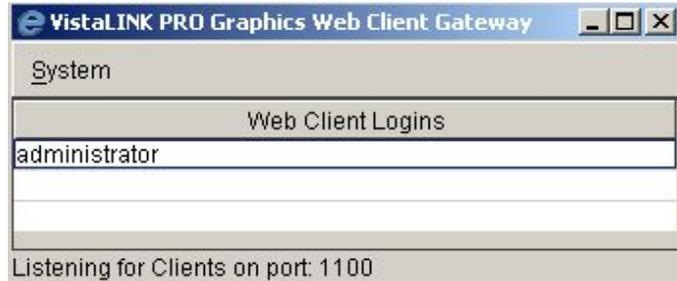


Figure 3-5: Administrator Web Client Login

4. CLIENT LOGIN THROUGH WEB BROWSER

For a client to login to the Web Graphics gateway using a web browser, perform the following steps:

1. Launch a web browser.
2. Type the following in the address filed:
“http://xxx.xxx.xxx.xxx:8080/webgraphics/vistalink.html”

(Enter the IP Address of your VLPro Server)

4.1. CLIENT LOGIN THROUGH INTERNET EXPLORER

3. A screen similar to the one in Figure 4-1 will appear.

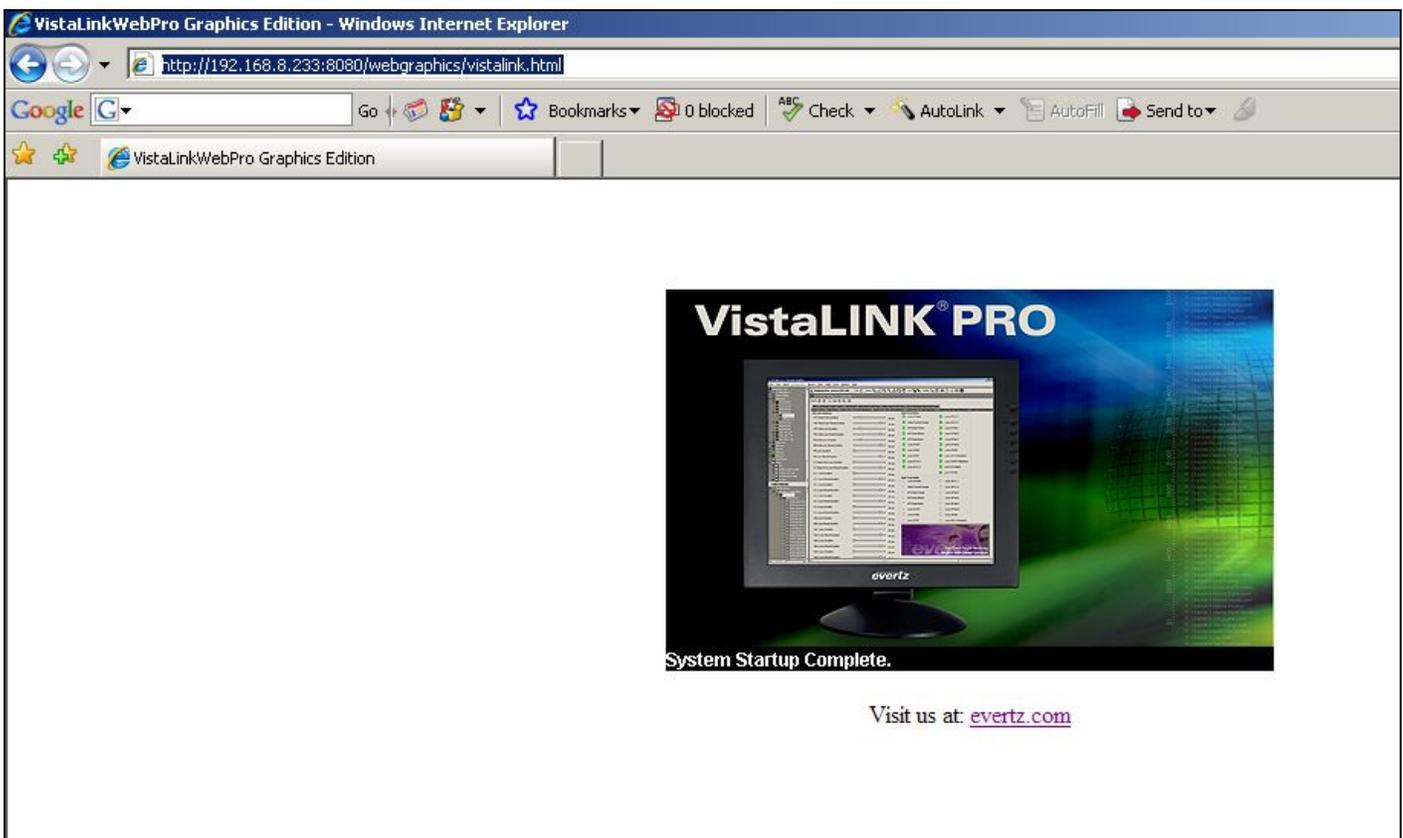


Figure 4-1: Login via Internet

4. The applet will start running and present you with a login screen.

4.2. CLIENT LOGIN SCREEN

5. A screen similar to the one in Figure 4-2 will appear.

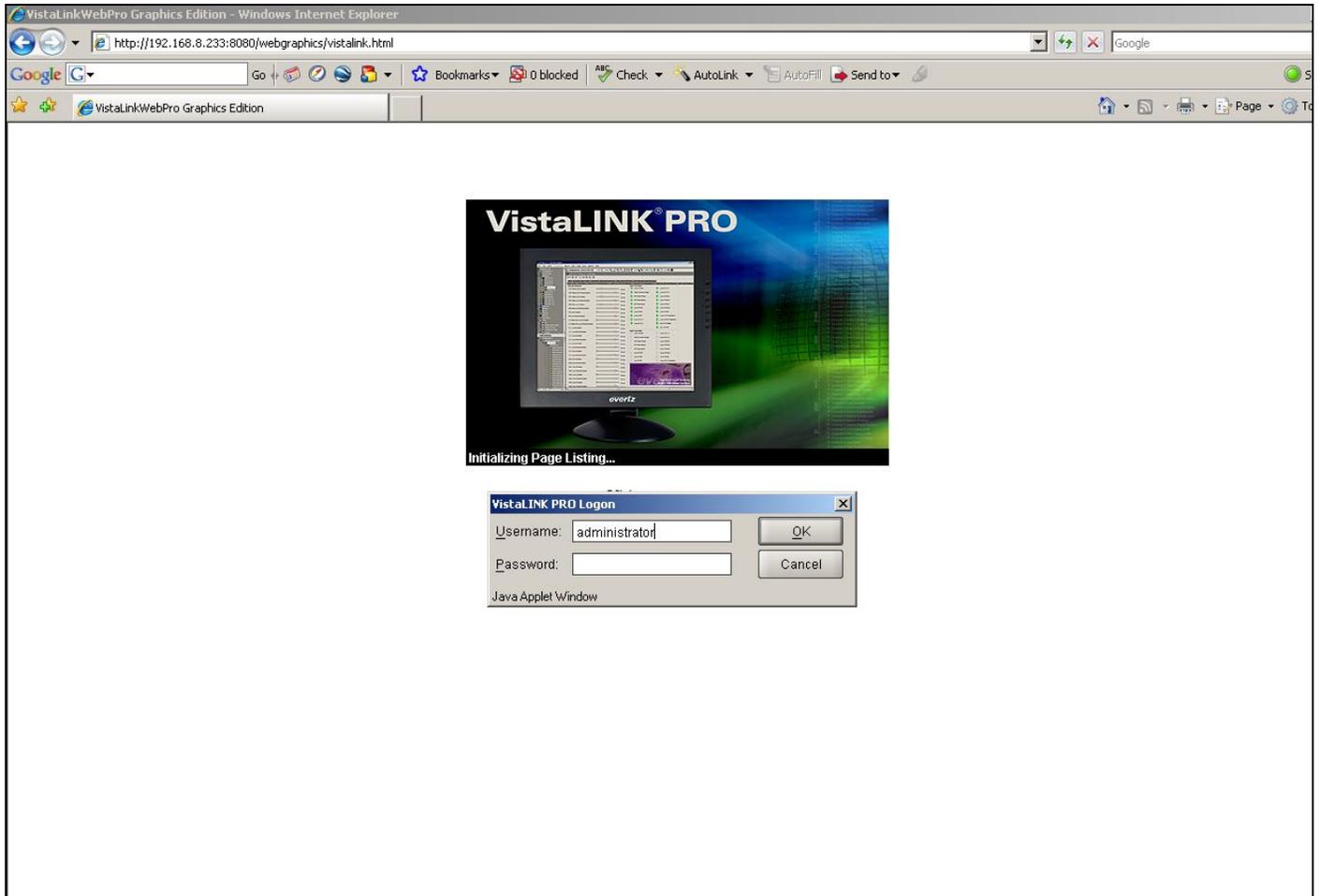


Figure 4-2: Client Login Screen

6. To login, simply type your username and password. The default login is:

Username: administrator

Password: (blank)

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