The Ultimate Home Broadband Security appliance.

User Guide

Introduction

Congratulations on the purchase of your Eli Broadband Internet Security Appliance from ELI, Inc.!

Based on the same technologies employed by corporations around the globe, Eli delivers all of the features necessary to make the Internet a safe computing environment for the broadband user. Eli combines a broadband modem and wireless router with a full-featured firewall and best-of-breed anti-virus, spam and content filtering solutions. Eli's managed approach is what makes the difference, though: all configuration and updates to the system are maintained by the Eli team - not you!

Now, not only can you enjoy lightning-speed Internet access from all your PCs, and share data on your internal network, you will be protected from a host of Internet threats by the best-of-breed stealth firewall implemented on Eli, hiding you from hackers and other malicious intruders.

And, if you are a DSL or cable modem user, you can scrap both your modem and router – Eli replaces them both!

Features

Full-Featured Firewall

Provides Network and Application Layer Security – Eli employs a stateful packet inspection firewall with the same technologies that large corporations use to protect your entire network.

Anti-Virus

Gateway-based Anti-Virus protects everything behind the Firewall – Eli can protect the computers on your home network from known viruses with a best-of-breed solution that is kept automatically up-to-date with the most current definitions.

Spam Control

Blacklist support and flexible spam handling – Prevents a large majority of spam from reaching your in-box, and blocks the majority of spam at the gateway saving valuable time and money.

Content Filtering

Gateway-based URL blocking - The content filter solution provides a large database where users can choose from a wide range of content categories stored on a network-based server.

DSL/Cable Modem, Wireless Gateway and 4-Port Switch

Fully integrated wireless and wired Gateway – Eli combines DSL or Cable modem or WAN port with an 802.11G wireless gateway and 4-Port switch to offer users the greatest number of connectivity options without the need for expensive additional hardware.

Fully Managed

Automatic, ongoing updates – All services and policies are fully managed and maintained. Choose your settings on the easy-to-use web interface, and let us take care of all updates and management. This guarantees peace of mind without the need for an in-home IT administration department.

Getting to know Eli

Eli's ports, including all cables connections, are located on the rear panel of the unit.

Back panel

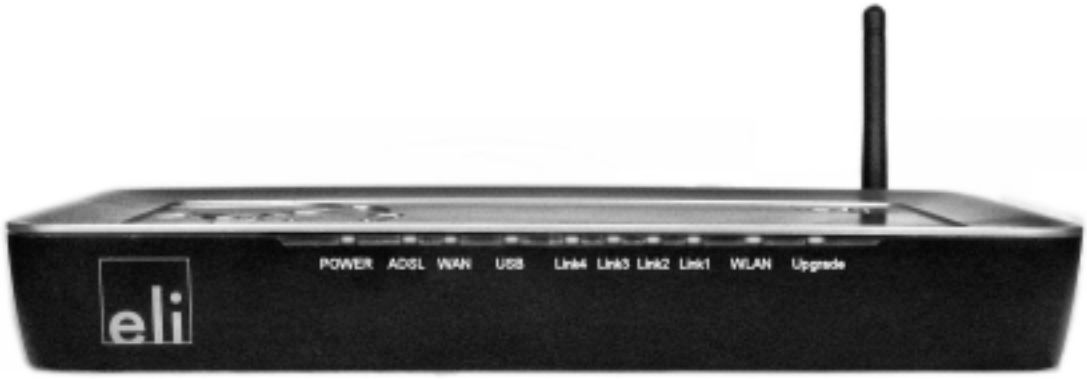
Eli's ports and switches

Standby	**On**	Enables traffic to flow through WAN (Wide Area Network – the Internet) port
	Off	Disables all traffic through WAN port
WAN SW	**Eth**	Sets WAN port to be used as a 10/100 MBit port. Use this setting if you plan to use Eli behind a router or cable modem.
	ADSL	Set WAN port to be used as a DSL modem port. Use this setting if you plan to replace your existing DSL modem with Eli.
Reset		Reset switch. Reboots Eli. Use a pen or other small tool to depress the recessed reset button.
LAN 1-4		These 4 LAN (Local Area Network) ports connect to network devices, such as PCs, print servers and remote hard drives. Use a *straight* Ethernet network cable to connect your PC to one of these ports.
USB	**Device**	Use as a network adapter (future expansion)
	Host	Use to hook a printer to use over the network.
WAN	**Eth / ADSL**	Connect this port with a *straight* Ethernet network cable to your router if you plan to use Eli behind a router.
	ADSL	Connect this port with a telephone cable to your telephone jack if you plan to replace your DSL modem with Eli.
Power	**Port**	The Power port is where you will connect the power adapter. Be sure to connect the power cord to the power adapter before plugging it in.
	Switch	Power switch to switch on Eli.

Some networking terms explained

WAN – Wide Area Network. A **WAN** is a network that crosses greater geographical distances, such as the Internet or a connection to the Internet.

LAN – Local Area Network. A **LAN** is a geographically confined network, such as a



Front panel

The LED Indicators

Power	*Green.*	Comes on when you switch on Eli.
ADSL	*Green.*	**On** when the **WAN SW** switch on the back panel is set to **ADSL**. **Off** when the **WAN SW** switch on the back panel is set to **Eth**.
WAN	*Green.*	**On** when the **Standby** switch on the back panel is set to **on**. **Off** when the **Standby** switch on the back panel is set to **off**.
USB	*Green.*	**On** when one of the USB ports has an active device connected to it.
Link 4	*Green.*	**On** when Port 4 has an active PC connected to it. **Blinking** when data is being transferred over this port.
Link 3	*Green.*	On when Port 3 has an active PC connected to it. **Blinking** when data is being transferred over this port.
Link 2	*Green.*	On when Port 2 has an active PC connected to it. **Blinking** when data is being transferred over this port.
Link 1	*Green.*	On when Port 1 has an active PC connected to it. **Blinking** when data is being transferred over this port.
WLAN	*Green.*	On when there is an active WLAN connection. **Blinking** when data is being transferred over this port.
Upgrade	*Green.*	**On** when there is an upgrade in progress. There is no connection to the Internet when an upgrade is in progress. ***Do not switch off Eli while an upgrade is in progress!*** If the upgrade light is on for longer than 10 minutes, please call the helpdesk.

Installing Eli

Eli can be setup in a few easy steps:

1. Connect your PCs to Eli and connect Eli to either your telephone jack or your router.
2. Configure your PCs to connect to Eli by entering the information provided to you by your ISP to connect to the Internet.
3. Once connected to the Internet, configure your personal security settings for Eli.

1. Hook up Eli.

a) **To replace your DSL modem with Eli:** ´

i. Make sure the switch **WAN SW** is set to **ADSL**.

ii. Connect the RJ-11 telephone cable from your phone jack to the **WAN** port labeled **ADSL** on Eli's rear panel.

To connect Eli to a cable modem:

i. Make sure the switch **WAN SW** is set to **Eth**.

ii. Connect Eli to your cable modem using a *straight* RJ-45 network cable between the **WAN** port labeled **Eth / ADSL** and to your cable modem.

To connect Eli *directly* to a router:

iii. Make sure the switch **WAN SW** is set to **Eth**.

iv. Connect Eli *directly* to your router using a *straight* RJ-45 network cable between the **WAN** port labeled **Eth / ADSL** and to your router.

b) Connect one end of a *straight* RJ-45 network cable to one of the 4 **LAN** ports on the back of Eli and the other end to the network adapter port of your PC.

c) If you want to connect more than one PC, repeat this step for your other PCs. You can connect up to 4 PCs to the internal switch on Eli.

d) Connect the power adapter to the **Power** port on the rear panel of Eli, then plug the power adapter into a power outlet.

e) Switch on Eli.

f) The **Power** LED on the front panel will light up green as soon as the power is switched on.

Eli's hardware installation is now complete!

You can now continue by setting up your Internet connection for Eli.

2. Set up your internet connection.

Now that your PCs will connect to the Internet via Eli, Eli will provide them with individual IP addresses. You will now configure your PCs to accept the IP addresses that Eli will provide.

To use Eli, make sure that a network adapter has been successfully installed in each PC.

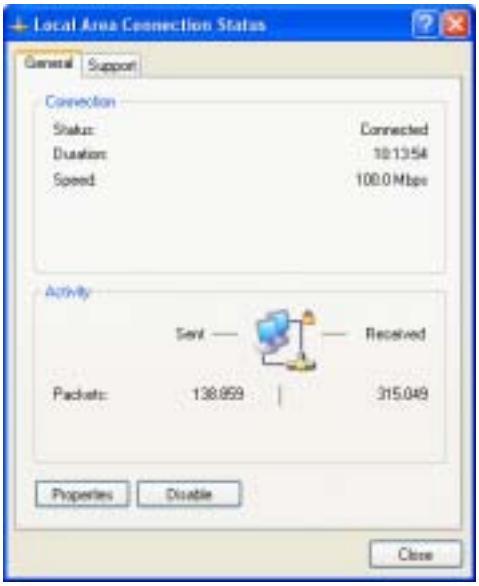
These instructions apply only to Windows 2000 and Windows XP. For other operating systems, please see the manual that came with your system and check for setting up DHCP.

a) Click the **Start** button and select **Control Panel**.

b) Double-click on the **Network** icon. The following window opens:

Double-click on **Local Area Connection**.

In the **Local Area Connection Status** window click on **Properties**.



c) In the **Local Area Connection Properties** window select the TCP/IP protocol line, then click on **Properties**.

d) In the **Internet Protocol (TCP/IP) Properties** window make sure that **Obtain an IP address automatically** and **Obtain DNS server address automatically** are selected.

Click **OK**.

e) Click **OK** in the **Local Area Connection Properties** window.

Click **Close** in the **Local Area Connection Status** window.

Close the **Network Connections** window.

You have now successfully configured your PC!

If you want to use additional PCs to connect to the Internet with Eli, repeat these steps with each of the PCs.

3. Configure Eli

Once you have configured your PC to connect to Eli, you can configure your connection to the Internet.

Please make sure you have your Internet connection information provided by your ISP ready. You can enter them into the table below for convenience.

First, determine how you need to connect to the Internet. For this, please review the connction information provided your ISP.

Here are some general guidelines:

If you use a **DSL** connection, you are most likely connecting to the Internet over **PPPoE**.

If you are using a **cable modem** with Eli, you are most likely using **DHCP** (Dynamic Host Configuration Protocol – you are dynamically having an IP address assigned to you) to connect to the Internet.

If you are using a **router** to connect to the Internet, you have a **set IP address** provided by your ISP.

I connect to the Internet over:

☐ DSL ☐ Cable ☐ Eli is connected to a router.

DSL: PPPoE Configuration

Username _____

Password _____

Router: set IP address configuration

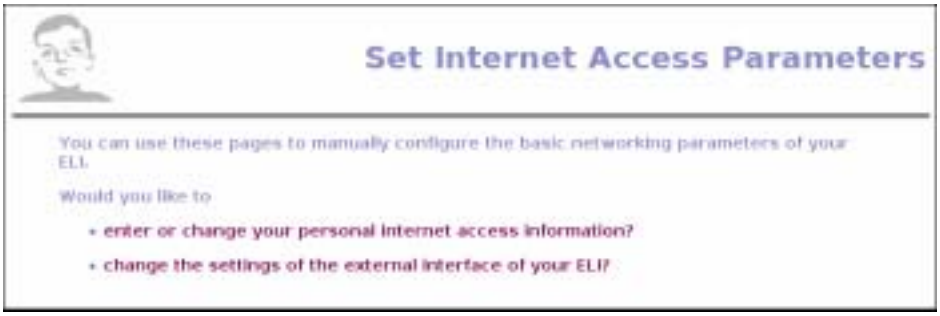
IP Address _____

Network Mask _____

Default Route _____

To configure Eli, open your browser and enter **http://192.168.1.1** into the address bar (Internet Explorer) or location bar (Netscape Navigator).

If you are setting up Eli for the first time, the following screen will appear:



Depending on your type of Internet connection, follow one of the steps outlined below.

a. Using PPPoE with Eli

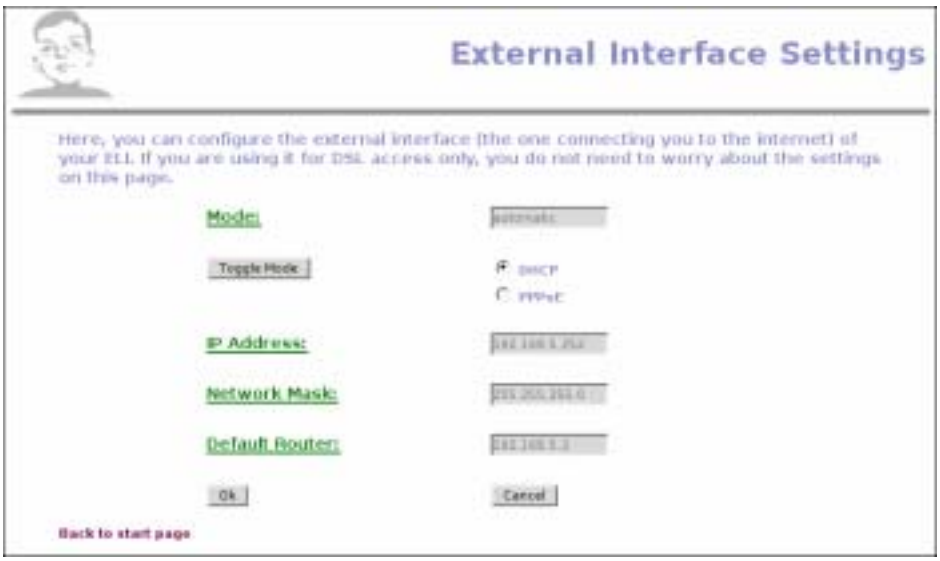
To enter your PPPoE information, click on **enter or change your personal internet access information**.

On the following screen, enter your username and password provided by your ISP. Re-enter your password to verify.

Click **OK**.

Click on change the settings of the external interface of your Eli and check if the radio button PPPoE is selected. If not, click **Toggle Mode** to select it.

Click **OK**.



You can now access the Internet using Eli!

b. Using DHCP with Eli

To use DHCP with Eli, click on **change the settings of the external interface of your Eli**.

On the following screen, make sure that the radio button **DHCP** is selected. If not, click **Toggle Mode** to select it.

Click **OK**.

You can now access the Internet using Eli!

c. Using a static IP address with Eli

To use a static IP address with Eli, click on **change the settings of the external interface of your Eli**.

On the following screen, click on Mode. The mode will change from automatic to manual. You can now enter your IP address information into the fields **IP Address**, **Network Mask**, and **Default Router**.

Click **OK**.

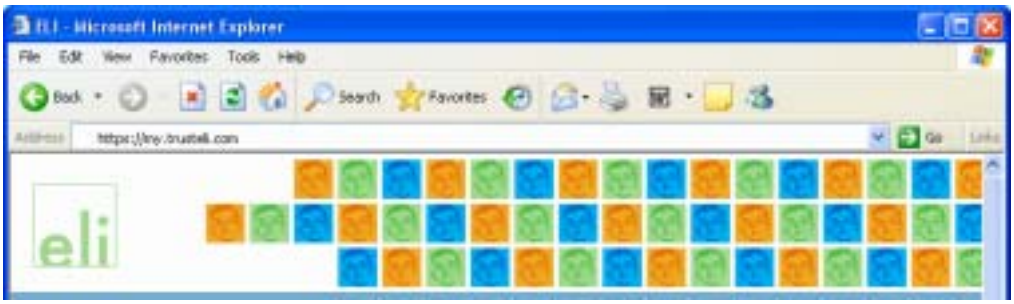
You can now access the Internet using Eli!

You can now use Eli to surf the Internet.

You are protected from attackers on the Internet. However, to take advantage of the additional features of Eli and enhance your protection and your Internet experience, see the next chapters, **Change the configuration of Eli**.

Change the configuration of Eli

To configure Eli, open your browser and enter **http://my.trusteli.com** into the address bar.



Enter your username and password on the screen.

Once you successfully logged in, you get the following welcome screen.

The menu on the left gives you access to all configuration options for Eli:

General	Logout, Change your password.
Router	Configure your WLAN and VPN settings.
Email	Set up your Virus and Spam protection.
Firewall	Choose your security policy.
Parental Control	Choose the URL filtering categories you want blocked.

You are now ready to configure Eli.

The menu options in detail

General

In this section you can change your password and log out of **my.trusteli.com**.

Click on **General**.

You are now in the General section of your configuration settings.

Logout

To log out, click on **Logout**. You will be automatically logged out of **my.trusteli.com**.

Profile

To change your password, click on **Profile**.

Enter your new password, and retype it. Click on **Save**.

Your password has been changed to your new password.

Router

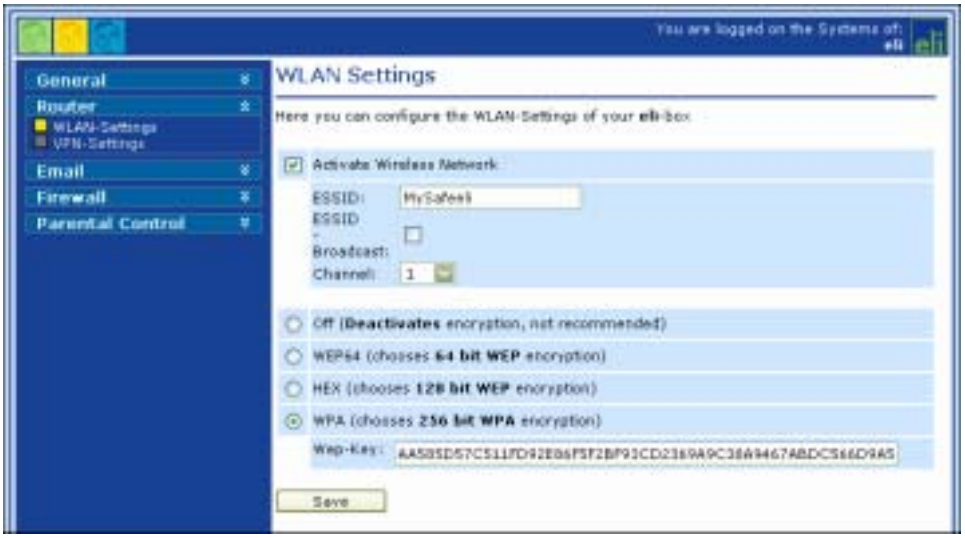
In this section you can configure your Wireless LAN (WLAN) options and set up a secure connection to another Eli over the Internet by creating a VPN (Virtual Private Network).

Click on **Router** in the menu on the left. The menu will expand to show the following options: **WLAN-Settings** and **VPN-Settings**.

You are now in the router configuration section of your configuration settings.

WLAN-Settings

To configure your Wireless LAN settings, click on **WLAN** in the menu on the left. The following screen appears:



To activate your WLAN, check the checkbox **Activate Wireless Network**.

Then enter an **ESSID** for your WLAN, essentially giving it a name.

Do not check **ESSID-Broadcast** if you do not want to broadcast your ESSID.

Choose an encryption level for your WLAN. The WEP Key will be created automatically.

Some additional information on wireless networks

What is an ESSID?

The **ESSID** (Extended Service Set Identification) is the identifying name of a wireless network, or the name of your network.

The ESSID is sometimes just called SSID.

When you setup another wireless device that you want to use in your wireless network, you need to specify your ESSID to make sure it logs into your network and not any other wireless network that might be available.

Why should I not broadcast my ESSID?

You should consider not using the ESSID broadcast.

This is a function allows the wireless access point to announce its name and details, making the configuration of clients significantly easier if not completely automatic; it also makes it less difficult for others to use your resources.

It is highly recommended that you change the ESSID to something other than the manufacturer default and to something not predictable like your street name or number.

What is a WEP Key?

WEP (wired equivalent privacy) is an optional encryption method used in wireless networks. It is used to encrypt traffic between the nodes in a wireless network to protect your privacy. You can choose different levels of encryption. To ensure the highest level of security, we recommend using **WPA** (256bit) encryption.

Note: We strongly recommend using encryption in a wireless network!

If you do not encrypt the traffic in your WLAN, anyone can sniff the traffic in your network without joining it. He/she can then see all the information that goes across it, without you even knowing!

When you have finished configuring your wireless network, click **Save**.

Your settings will be saved to Eli.

You can now configure your wireless clients to use your wireless network.

For instructions on how to configure a Windows XP PC, please see page X in this manual.

VPN-Settings

To configure a VPN between this Eli and another Eli you manage, click on **VPN-Settings**. The following screen appears:

To start setting up your VPN, check the checkbox **Activate VPN Support**.

Then click **[Create VPN]**.

The following screen appears:

Enter a name and a description for your network.

Click **Create**.

The following screen appears:

To add another Eli to your VPN, follow these steps:

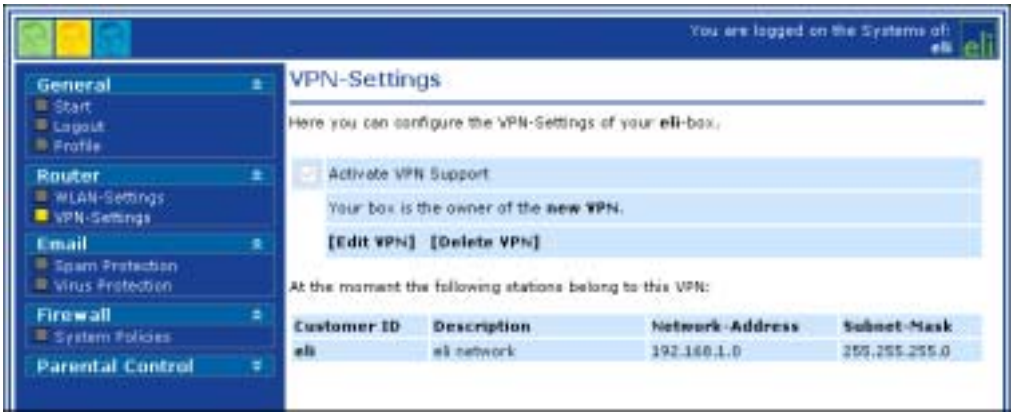
1. Enter the **Customer ID** for the other Eli.
2. Enter the **Password**.
3. Enter a **Description** for this Eli. The name must not contain any spaces.
4. Click **Add**.

The Eli is added to your VPN.

Repeat these steps for each Eli you want to add.

When you are done adding Elis to your VPN, click **Back**.

The following screen appears:



To add more Elis to your VPN, click on **[Edit VPN]**.

To delete your VPN, click on **[Delete VPN]**.

If you click on **[Delete VPN]**, the following screen appears:

Click **Delete** to proceed or **Cancel** to cancel.

The following screen appears:

You can now create a new VPN.

Email

In this section you can configure your email protection settings. These include setting up a spam filter on Eli and configuring Eli to scan your emails and email attachments for viruses.

If a virus is found, Eli will notify you and send you the header of the message. The mail and any attachments will be deleted.

Click on **Email**.

The menu expands to show the following options: **Spam Protection** and **Virus Protection**.

You are now in the Email section of your configuration settings.

Spam Protection

To configure your spam filter options, click on **Spam Protection**. The following screen appears:

Choose one of the following options:

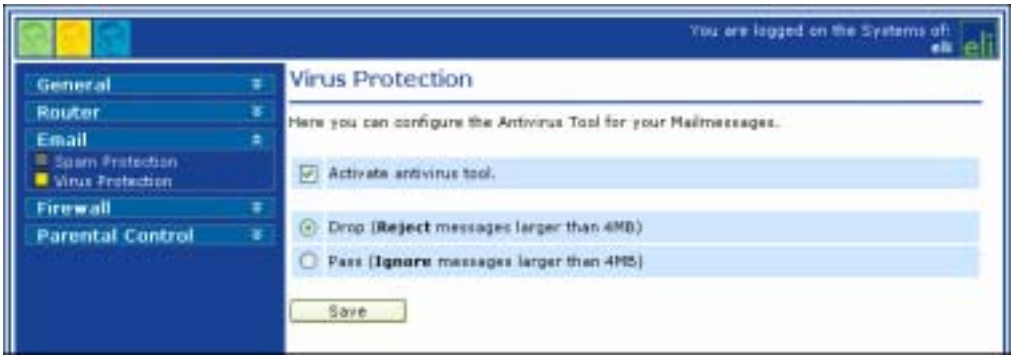
Off	This setting will deactivate the Spam filter. All spam will be delivered to your mailbox.
Mark	Inserts a header into each spam mail that marks it as spam.
Drop	Any spam mail will be automatically deleted.
Bounce	Any spam mail will be sent back to the sender.
Forward	All spam mail will be forwarded to the email address you specify. You can then view the mail in this mailbox.

Once you choose an option, click **Save**. Your settings will be saved.

Virus Protection

With virus protection turned on, all incoming and outgoing email (including attachments) will be automatically scanned for viruses.

To configure your virus scanning options, click on **Virus Protection**. The following screen appears:



Check the checkbox **Activate antivirus tool** to activate virus scanning on Eli.

Choose one of the following options for attachments larger than 4 MB:

Drop	Any message that has an attachment larger than 4 MB will be rejected.
Pass	Any message that has an attachment larger than 4 MB will not be scanned.

Once you choose an option, click **Save**. Your settings will be saved.

Firewall

In this section you can configure your firewall policy settings. You have a choice of five policies that reflect different user needs.

Each policy will open a number of ports on Eli to allow you to access the Internet. You will be completely hidden behind Eli, invisible to anyone on the Internet who might be looking for a way to do harm.

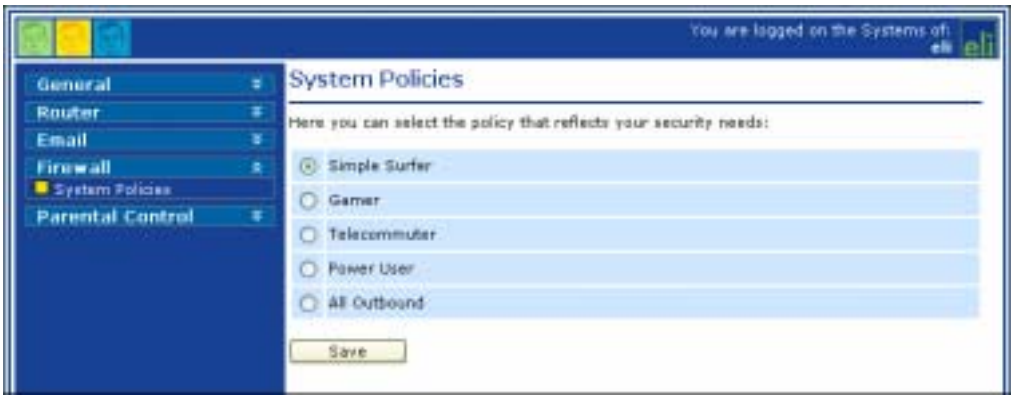
All security policies block traffic from entering your private network except for packages sent in response to a request initiated by you. The policies differ in number and types of services they allow.

None of the policies permit the implementation of a server behind Eli.

Click on **Firewall**.

The menu expands to show the following option: **System Policies**.

You are now in the firewall policy section of your configuration settings.



Choose the policy that reflects your surfing habits.

Tip: If you hover over a policy name, a pop-up with more information will appear.

Simple Surfer	Allows surfing the Internet plus sending and receiving emails. Under most circumstances, this is sufficient for typical office work. This is the most secure setting. ***Note:*** Only downloads over HTTP are allowed with this policy!
Gamer	In addition to **Simple Surfer**, this policy allows most popular network games and simulations.
Telecommuter	In addition to **Simple Surfer**, this policy allows the use of VoIP und VPNs from your desktop.
Power User	Allows complete access to the World Wide Web, VoIP, Mail, File-Transfer, VPN, and most popular network games.
All Outbound	All ports to the Internet are open. This is the most insecure setting! ***Note:*** This policy poses a security risk as it allows any Spyware, Trojans, etc. to send data to the Internet!

Note: The default policy is **All Outbound**.

Select a policy and click **Save**. Your settings will be saved.

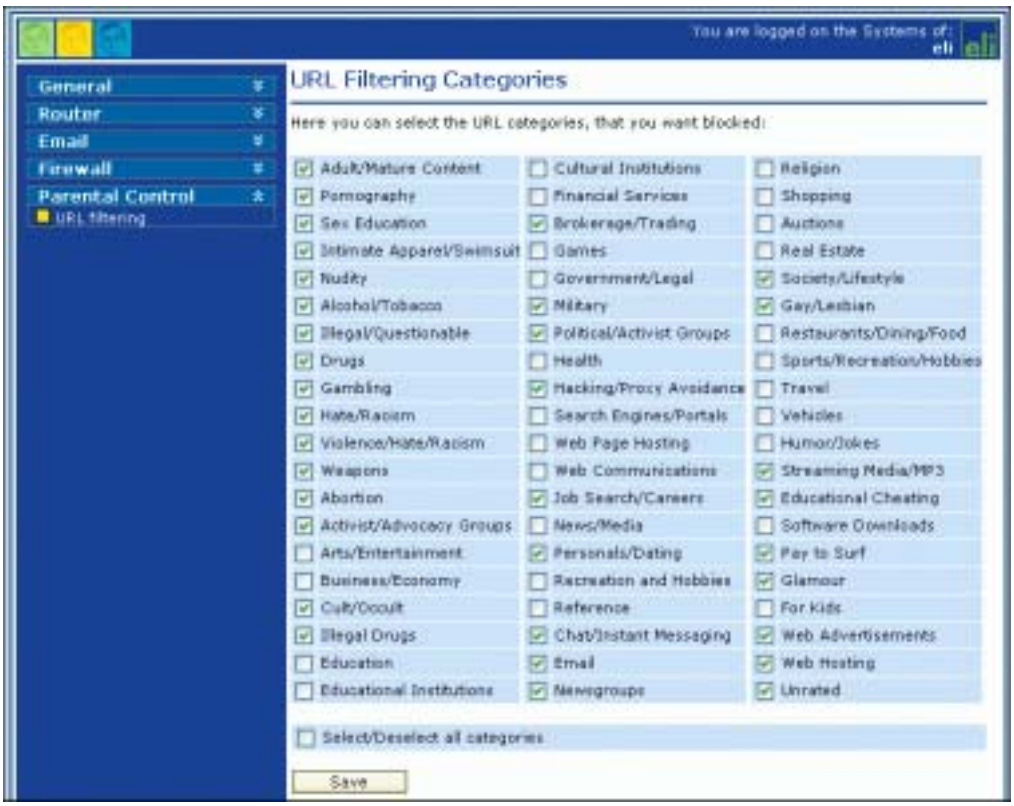
Parental Control

In this section you can configure your URL filtering settings. You have a choice of 60 different content categories to which you can block access.

Click on **Parental Control**.

The menu expands to show the following option: **URL Filtering**.

You are now in the URL filtering section of your configuration settings.



Select the categories you want to block. When you are done, click **Save**. Your settings will be saved.

When you have finished your configuration, click on **Logout** in the menu on the left You will be logged out of the configuration system.

Tip: If you don't see **Logout** in the menu on the left, click on **General** to expand the menu.

Setting up a wireless network with Eli

You can use Eli to set up a wireless network at home and give Internet access to wireless devices in your home.

Configuring Eli as a wireless network access point

Step 1: Configure Eli

For a detailed description of the WLAN configuration on Eli, refer to page X in this manual.

1. Open your browser and enter https://my.trusteli.com in the address bar.
2. Enter your username and password to access the configuration settings.
3. In the menu on the left, select **Router** and then **WLAN-Settings**.
4. Check the checkbox **Activate Wireless Network**, and enter an ESSID, if you want.
5. Choose an encryption level and note the WEP key that Eli creates.

> ***Tip:*** To note your key electronically so you can easily port it to other PCs, highlight the key in your browser window, right-click on it and choose **Copy** in the context menu.
>
> Open Notepad (click on **Start**, then choose **Accessories**, and **Notepad**)and choose **Edit**, **Paste** to paste the key into Notepad. From here, you can save it as a text file, and paste it into any form where you need to enter the key.

Configure your wireless PC

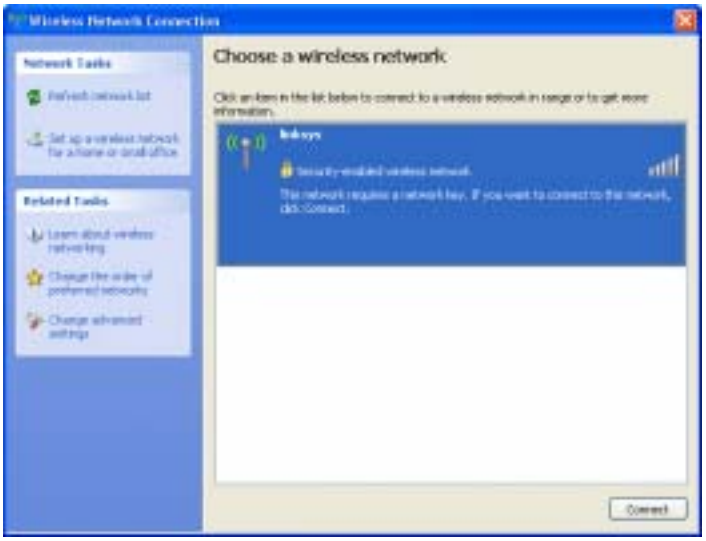
The following steps describe how to setup a wireless connection on a Windows XP PC. For other devices, please check the manual that came with the device.

> Make sure that your wireless network adapter is properly configured and active.

1. Click the **Start** button and select **Control Panel**.
2. Double-click on the **Network** icon. The following window opens:

3. Double-click on **Wireless Network Connection**.

4. In the ensuing **Wireless Network Connection** window, select **Set up a wireless network for a home or small office** from the left menu.



5. The Wireless Network Wizard window opens.

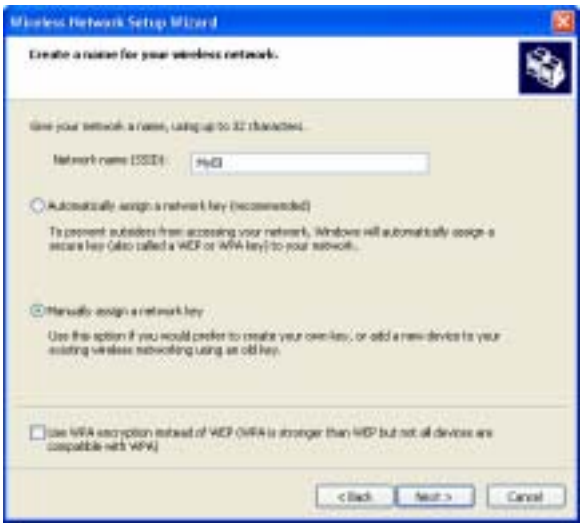
   Click **Next**.

6. In the next window, select **Set up a new wireless network**.

   Click **Next**.

7. In the ensuing window, enter the ESSID you entered on your Eli, if you have entered one. Select **Manually assign a network key**.

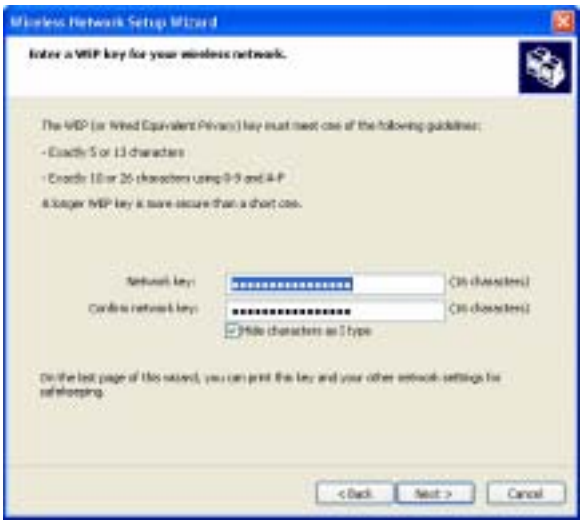
   Click **Next**.



8. In the next window, enter the key that Eli generated for you when you set up the wireless network on Eli. You can copy and paste it from Notepad if you saved the key in a text file.

   Re-enter the key to make sure that you did not mistype it. You can uncheck the checkbox **Hide characters as I type** to make entering the key easier.

   Click **Next**.



9. In the next window, you can choose whether you want to save your configuration to an USB device or a text file to reuse on another device that you want to connect to your wireless network.

   Choose one option.

   Click **Next**.

10. The ensuing window is the final window of the Wizard.

    After saving your configuration, you can close this window.

You have now successfully configured your PC.

Repeat the steps above on all additional PCs that you want to connect to your wireless network.

Contacting Technical Support

Eli Technical Support over the Telephone:

Addr: 15000 Commerce Parkway, Suite U Mount Laurel, New Jersey 08054

Phone: +1-856-222-4222

Fax: +1-856-222-0102

E-mail: rsmith@trusteli.com

Eli Technical Support over the Internet: *http://www.trusteli.com*.

Warranty

The identification of the product:

Product Name:Eli-ADSL

Model:ADF-WG-A53
ADF-WG-B53
ADF-WG-A54
ADF-WG-B54

FCC Regulatory information / Disclaimers:The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
IMPORTANT NOTE (CO-LOCATION): FCC RF Radiation Exposure Statement: This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

Regulatory statement (R&TTE / WLAN IEEE 802.11b & 802.11g): European standards dictate maximum radiated transmit power of 100mW EIRP and frequency range 2.400-2.4835GHz; In France, the equipment must be restricted to the 2.4465-2.4835GHz frequency range and must be restricted to indoor use.
CE Declaration of Conformity: For the following equipment:

CE0984

Is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility (89/336/EEC), Low-voltage Directive (73/23/EEC) and the Amendment Directive (93/68/EEC), the procedures given in European Council Directive 99/5/EC and 89/3360EEC.

The equipment was passed. The test was performed according to the following European standards:

- Emission: ETSI EN 300 328 V.1.4.1: 2003
- Immunity: ETSI EN 301 489-17 V.1.2.1: 2002
- Safety: EN60950-1: 2001
- Human Exposure: EN 50371: 2002

Safety Information

In order to maintain compliance with the FCC RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use only with supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
---Reorient or relocate the receiving antenna.
---Increase the separation between the equipment and receiver.
---Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
---Consult the dealer or an experienced radio/TV technician for help.

The identification of the product:

Product Name	: ELI-ADSL - 54Mbps Wireless ADSL Firewall Router
Model	: ADF-WG-A53 / ADF-WG-B53 / ADF-WG-A54 / ADF-WG-B54

Technical Support in the US:
ELECTRONIC LIFESTYLE INTEGRATION, INC.

Address	:	15000 Commerce Parkway, Suite U Mount Laurel, New Jersey 08054
Telephone	:	1-856-222-0890 (24x7)
Email	:	support@trusteli.com