9. You can filter access to various services accessed over the Internet, such as FTP or telnet. (You can block up to three applications per policy.)

From the Applications list, select the application you want to block. Then click the **>>** button to move it to the Blocked List. To remove an application from the Blocked List, select it and click the **<<** button.

10. If the application you want to block is not listed or you want to edit a service's settings, enter the application's name in the *Application Name* field. Enter its range in the **Port Range** fields. Select its protocol from the *Protocol* drop-down menu. Then click **Add**.

To modify a service, select it from the Application list. Change its name, port range, and/or protocol setting. Then click **Modify**.

To delete a service, select it from the Application list. Then click **Delete**.

11. Click **Save Settings** to save the policy's settings. To cancel the policy's settings, click **Cancel Changes**.

Applications and Gaming > Single Port Forwarding

The *Single Port Forwarding* screen allows you to customize port services for common applications on this screen.

When users send these types of requests to your network via the Internet, the Valet will forward those requests to the appropriate servers (computers). Before using forwarding, you should assign static IP addresses to the designated servers (use the DHCP Reservation feature on the *Basic Setup* screen, refer to **DHCP Reservation**, **page 16** for more details).
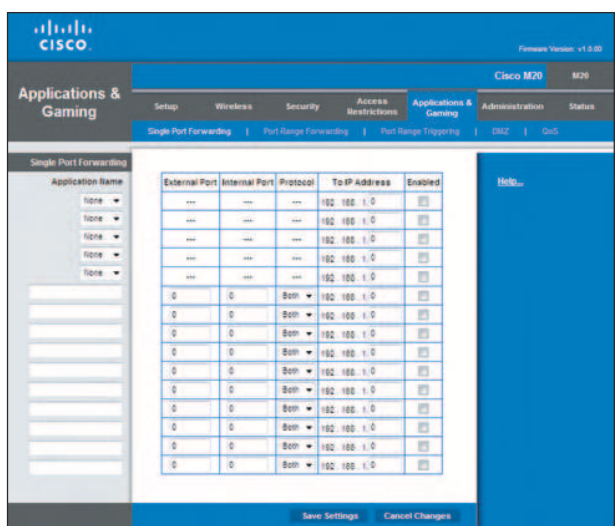
Applications and Gaming > Single Port Forwarding

Single Port Forwarding

Common applications are available for the first five entries. Select the appropriate application. Then enter the IP address of the server that should receive these requests. Select **Enabled** to activate this entry.

For additional applications, complete the following fields:

Application Name Enter the name you wish to give the application. Each name can be up to 12 characters.

External Port Enter the external port number used by the server or Internet application. Check with the Internet application documentation for more information.

Internal Port Enter the internal port number used by the server or Internet application. Check with the Internet application documentation for more information.

Protocol Select the protocol used for this application, either **TCP** or **UDP**, or **Both**.

To IP Address For each application, enter the IP address of the PC that should receive the requests. If you assigned a static IP address to the PC, then you can click **DHCP Reservation** on the *Basic Setup* screen to look up its static IP address (refer to **DHCP Reservation**, **page 16** for more details).

Enabled For each application, select **Enabled** to enable port forwarding.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to cancel your changes.

Applications and Gaming > Port Range Forwarding

The *Port Range Forwarding* screen allows you to set up public services on your network, such as web servers, FTP servers, e-mail servers, or other specialized Internet applications. (Specialized Internet applications are any applications that use Internet access to perform functions such as videoconferencing or online gaming. Some Internet applications may not require any forwarding.)

When users send these types of requests to your network via the Internet, the Valet will forward those requests to the appropriate servers (computers). Before using forwarding, you should assign static IP addresses to the designated servers (use the DHCP Reservation feature on the *Basic Setup* screen, refer to **DHCP Reservation**, **page 16** for more details).

If you need to forward all ports to one computer, click the **DMZ** tab.
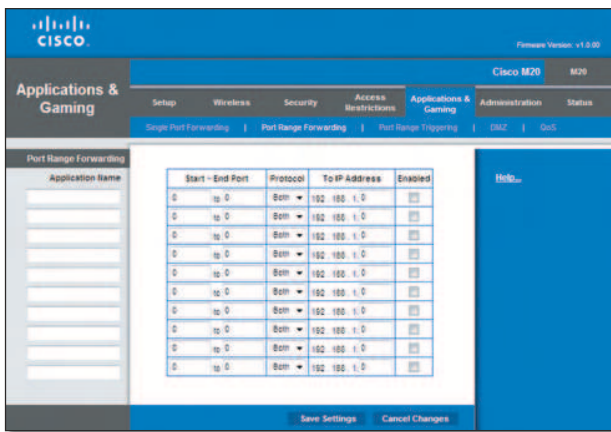
Applications and Gaming > Port Range Forwarding

Port Range Forwarding

To forward a port, enter the information on each line for the criteria required.

Application Name In this field, enter the name you wish to give the application. Each name can be up to 12 characters.

Start~End Port Enter the number or range of port(s) used by the server or Internet applications. Check with the Internet application documentation for more information.

**Protocol** Select the protocol used for this application, either **TCP** or **UDP**, or **Both**.

To IP Address For each application, enter the IP address of the PC running the specific application. If you assigned a static IP address to the PC, then you can click **DHCP Reservation** on the *Basic Setup* screen to look up its static IP address (refer to **DHCP Reservation**, **page 16** for more details).

Enabled Select **Enabled** to enable port forwarding for the applications you have defined.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to cancel your changes.

Applications & Gaming > Port Range Triggering

The *Port Range Triggering* screen allows the Valet to watch outgoing data for specific port numbers. The IP address of the computer that sends the matching data is remembered by the Valet, so that when the requested data returns through the Valet, the data is pulled back to the proper computer by way of IP address and port mapping rules.
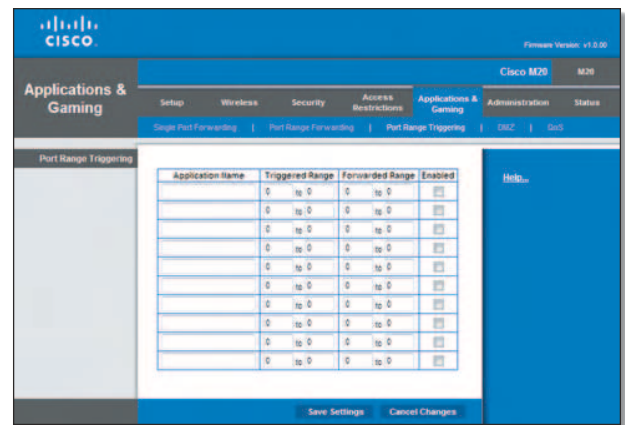
Port Range Triggering

Applications and Gaming > Port Range Triggering

Application Name Enter the application name of the trigger.

Triggered Range For each application, enter the starting and ending port numbers of the triggered port number range. Check with the Internet application documentation for the port number(s) needed.

Forwarded Range For each application, enter the starting and ending port numbers of the forwarded port number range. Check with the Internet application documentation for the port number(s) needed.

Enabled Select **Enabled** to enable port triggering for the applications you have defined.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to cancel your changes.

Applications and Gaming > DMZ

The DMZ feature allows one network computer to be exposed to the Internet for use of a special-purpose service such as Internet gaming or videoconferencing. DMZ hosting forwards all the ports at the same time to one PC. The Port Range Forwarding feature is more secure because it only opens the ports you want to have opened, while DMZ hosting opens all the ports of one computer, exposing the computer to the Internet.
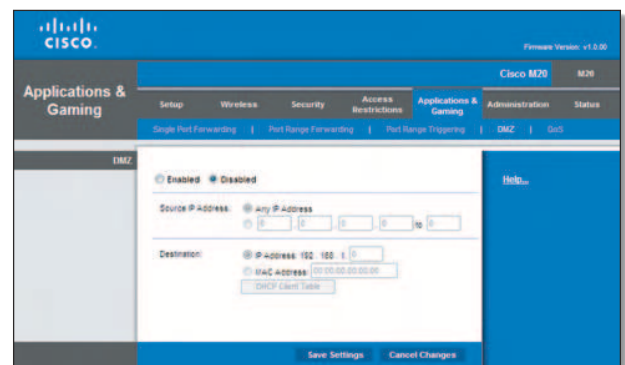

Applications and Gaming > DMZ

DMZ

Any PC whose port is being forwarded must have its DHCP client function disabled and should have a new static IP address assigned to it because its IP address may change when using the DHCP function.

Enabled/Disabled To disable DMZ hosting, select **Disabled**. To expose one PC, select **Enabled**. Then configure the following settings:

Source IP Address If you want any IP address to be the source, select **Any IP Address**. If you want to specify an IP address or range of IP addresses as the designated source, select and complete the IP address range fields.

Destination If you want to specify the DMZ host by IP address, select **IP Address** and enter the IP address in the field provided. If you want to specify the DMZ host by MAC address, select **MAC Address** and enter the MAC address in the field provided. To retrieve this information, click **DHCP Client Table**.
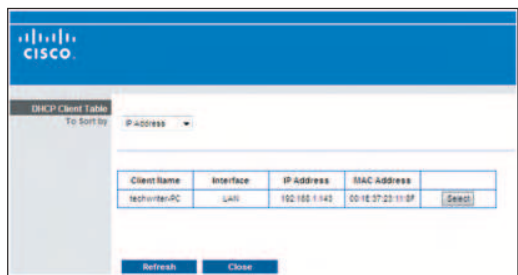

DMZ > DHCP Client Table

DHCP Client Table

The DHCP Client Table lists computers and other devices that have been assigned IP addresses by the Valet. The list can be sorted by Client Name, Interface, IP Address, MAC Address, and Expired Time (how much time is left for the current IP address). To select a DHCP client, click **Select**. To retrieve the most up-to-date information, click **Refresh**. To exit this screen and return to the *DMZ* screen, click **Close**.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to cancel your changes.

Applications and Gaming > QoS

Quality of Service (QoS) ensures better service to high-priority types of network traffic, which may involve demanding, real-time applications, such as videoconferencing.
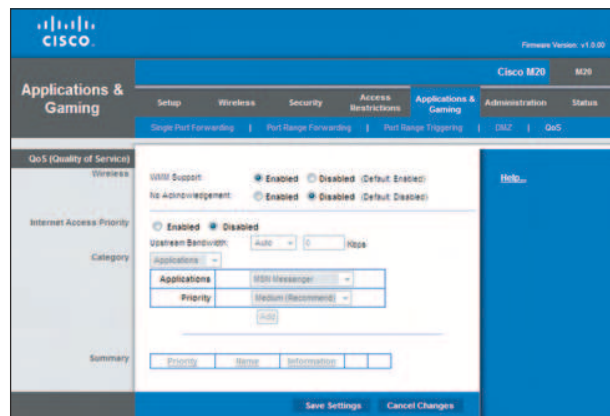
Applications and Gaming > QoS

QoS (Quality of Service)

Wireless

You can configure the WMM Support and No Acknowledgement settings in this section.

WMM Support If you have other devices that support Wi-Fi Multimedia (WMM) on your network, keep the default, **Enabled**. Otherwise, select **Disabled**.

No Acknowledgement If you want to disable the Valet's Acknowledgement feature, so the Valet will not re-send data if an error occurs, then select **Enabled**. Otherwise, keep the default, **Disabled**.

Internet Access Priority

In this section, you can set the bandwidth priority for a variety of applications and devices. There are four levels priority: High, Medium, Normal, or Low. When you set priority, do not set all applications to High, because this will defeat the purpose of allocating the available bandwidth. If you want to select below normal bandwidth, select Low. Depending on the application, a few attempts may be needed to set the appropriate bandwidth priority.

Enabled/Disabled To use the QoS policies you have set, select, **Enabled**. Otherwise, keep the default **Disabled**.

Upstream Bandwidth Select **Auto** or **Manual** from the drop-down menu. Manual allows you to specify the maximum outgoing bandwidth that applications can utilize.

Category

You can define the Internet access priority level for as many categories as you want. The *Summary* section will display all of the priority selections that you enter. Select from the following categories:

*   **Applications** Allows you to assign the bandwidth priority level for a pre-defined application (selected from the list) or add a new application and port settings and then prioritize it.

*   **Online Games** Allows you to assign a priority level for a pre-defined game selection that you can select from the list or add the settings for a game that isn't listed and select the priority level.

*   **MAC Address** This option lets you prioritize network traffic based on the device that is accessing the network. For example, if you want your gaming console to have higher priority accessing the Internet than your computer, you can define that here based on their MAC addresses.

*   **Ethernet Port** This option allows you to prioritize traffic connected to a specific Ethernet port. For example, you can prioritize Internet access for the computer connected to port 1.

*   **Voice Device** Voice devices demand a higher level of Internet prioritization. If you have a voice device or devices on your network that you want to prioritize, you can enter their MAC address using this option.

Proceed to the instructions for your selection.

Applications

Applications Select the appropriate application. If you select Add a New Application, follow the Add a New Application instructions.

Priority Select the appropriate priority: **High**, **Medium**, **Normal**, or **Low**.

Click **Add** to save your changes. Your new entry will appear in the Summary list.

Add a New Application

QoS > Add a New Application

Enter a Name Enter any name to indicate the name of the entry.

Port Range Enter the port range that the application will be using. For example, if you want to allocate bandwidth for FTP, you can enter 21-21. If you need services for an application that uses from 1000 to 1250, you enter 1000-1250 as your settings. You can have up to three ranges to define for this bandwidth allocation. Port numbers can range from 1 to 65535. Check your application's documentation for details on the service ports used.

Select the protocol **TCP** or **UDP**, or select **Both**.

Priority Select the appropriate priority: **High**, **Medium (Recommend)**, **Normal**, or **Low**.

Click **Add** to save your changes. Your new entry will appear in the Summary list.

Online Games

QoS > Online Games

Games Select a game from the drop-down list of pre-defined game settings. If the game that you are playing is not listed, select **Add a New Game**. When you select *Add a New Game*, you will need to enter the name of the game, the port range, and the priority level for the game. Refer to the documentation for the game or the game manufacturer's website to find the necessary port information.

Priority Select the appropriate priority: **High**, **Medium (Recommend)**, **Normal**, or **Low**.

Click **Add** to save your changes. Your new entry will appear in the Summary list.

MAC Address

QoS > MAC Address

Enter a Name Enter a name for your device.

MAC Address Enter the MAC address of your device.

Priority Select the appropriate priority: **High**, **Medium (Recommend)**, **Normal**, or **Low**.

Click **Add** to save your changes. Your new entry will appear in the Summary list.

Ethernet Port

QoS > Ethernet Port

Ethernet Select the appropriate Ethernet port.

Priority Select the appropriate priority: **High**, **Medium (Recommend)**, **Normal**, or **Low**.

Click **Add** to save your changes. Your new entry will appear in the Summary list.

Voice Device

QoS > Voice Device

Enter a Name Enter a name for your voice device.

MAC Address Enter the MAC address of your voice device.

Priority Select the appropriate priority: **High (Recommend)**, **Medium**, **Normal**, or **Low**.

Click **Add** to save your changes. Your new entry will appear in the Summary list.

Summary

This lists the QoS entries you have created for your applications and devices.

Priority This column displays the bandwidth priority of High, Medium, Normal, or Low.

Name This column displays the application, device, or port name.

Information This column displays the port range or MAC address entered for your entry. If a pre-configured application or game was selected, there will be no valid entry shown in this section.

Remove Click this button to remove an entry.

Edit Click this button to make changes.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to cancel your changes.

Administration > Management

The *Administration > Management* screen allows the network's administrator to manage specific Valet functions for access and security.

Administration > Management

Management

Router Access

To ensure the Valet's security, you will be asked for your password when you access the Valet's browser-based utility. The default is **admin**.

Router Password Enter a new password for the Valet.

Re-enter to confirm Enter the password again to confirm.

Web Access

Web Utility Access HTTP (HyperText Transport Protocol) is the communications protocol used to connect to servers on the World Wide Web. HTTPS uses SSL (Secure Socket Layer) to encrypt data transmitted for higher security. Select **HTTP** or **HTTPS**. **HTTP** is the default.

Web Utility Access via Wireless If you are using the Valet in a public domain where you are giving wireless access to your guests, you can disable wireless access to the Valet's browser-based utility. You will only be able to access the utility via a wired connection if you disable the setting. Keep the default, **Enabled**, to allow wireless access to the utility, or select **Disabled** to block wireless access to the utility.

Remote Access

Remote Management To permit remote access of the Valet, from outside the local network, select **Enabled**. Otherwise, keep the default, **Disabled**.

Web Utility Access HTTP (HyperText Transport Protocol) is the communications protocol used to connect to servers on the World Wide Web. HTTPS uses SSL (Secured Socket Layer) to encrypt data transmitted for higher security. Select **HTTP** or **HTTPS**. **HTTP** is the default.

Remote Upgrade If you want to be able to upgrade the Valet firmware remotely, from outside the local network, select **Enabled**. (You must have the Remote Management feature enabled as well.) Otherwise, keep the default, **Disabled**.

Allowed Remote IP Address If you want to be able to access the Valet from any external IP address, select **Any IP Address**. If you want to specify an external IP address or range of IP addresses, then select the second option and complete the fields provided.

Remote Management Port Enter the port number that will be open to outside access.

> **NOTE:** When you are in a remote location and wish to manage the Valet, enter **http://<Internet_IP_address>:port** or **https://<Internet_IP_address>:port**, depending on whether you use HTTP or HTTPS. Enter the Valet's specific Internet IP address in place of <Internet_IP_address>, and enter the Remote Management Port number in place of the word port.

UPnP

Universal Plug and Play (UPnP) allows computers to automatically configure the Valet for various Internet applications, such as gaming and videoconferencing.

UPnP If you want to use UPnP, keep the default setting, **Enabled**. Otherwise, select **Disabled**.

Allow Users to Configure Keep the default, **Enabled**, if you want to be able to make manual changes to the Valet while using the UPnP feature. Otherwise, select **Disabled**.

Allow Users to Disable Internet Access Select **Enabled**, if you want to be able to prohibit any and all Internet connections. Otherwise, keep the default setting, **Disabled**.

Backup and Restore

Backup Configurations To back up the Valet's configuration settings, click this button and follow the on-screen instructions.

Restore Configurations To restore the Valet's configuration settings, click this button and follow the on-screen instructions. (You must have previously backed up the Valet's configuration settings.)

Click **Save Settings** to apply your changes, or click **Cancel Changes** to cancel your changes.

Administration > Log

The Valet can keep logs of all traffic for your Internet connection.
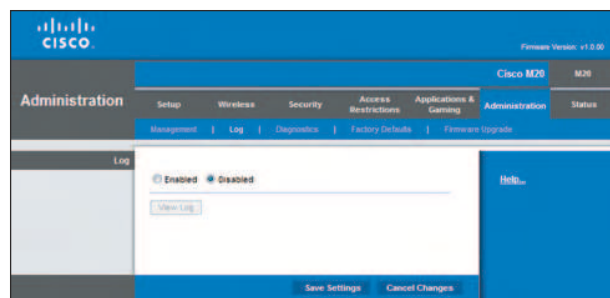
Administration > Log

Log

Log By default the logging option is **Disabled**. To monitor traffic between the network and the Internet, select **Enabled**. With logging enabled, you can choose to view temporary logs.

Click **Save Settings** to apply your changes, or click **Cancel Changes** to cancel your changes.

View Log To view the logs, click **View Log**.
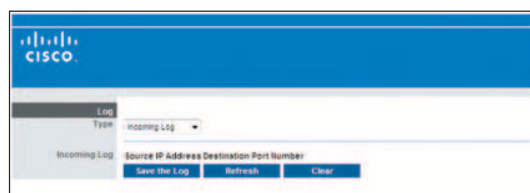

Administration > Log > View Log

Log

- **Type** Select **Incoming Log**, **Outgoing Log**, **Security Log**, or **DHCP Client Log**.

- **<Type> Log** The Incoming Log will display a temporary log of the source IP addresses and destination port numbers for the incoming Internet traffic. The Outgoing Log will display a temporary log of the local IP addresses, destination URLs/IP addresses, and service/port numbers for the outgoing Internet traffic. The Security log will display the login information for the browser-based utility. The DHCP Client Log will display the LAN DHCP server status information.

  Click **Save the Log** to save this information to a file on your PC's hard drive. Click **Refresh** to update the log. Click **Clear** to clear all the information that is displayed.

Administration > Diagnostics

The diagnostic tests (Ping and Traceroute) allow you to check the connections of your network devices, including connection to the Internet. This screen also allows you to reset the Valet.
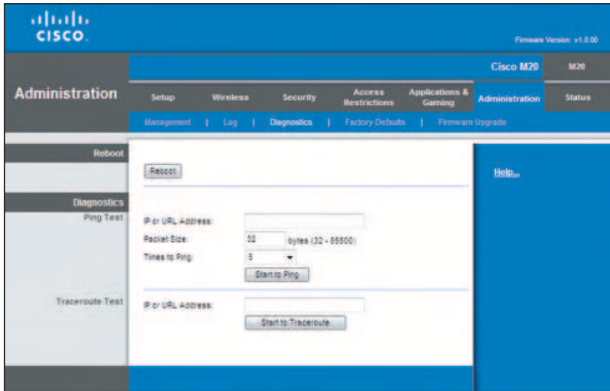
Administration > Diagnostics

Reboot

Reboot Click **Reboot** to reboot the Valet.
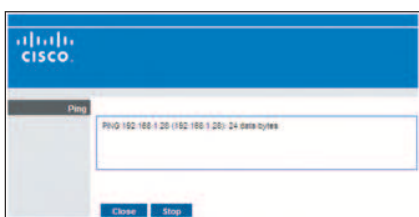
Diagnostics

Ping Test

The Ping test checks the status of a connection.

IP or URL Address Enter the address of the computer, device, or website whose connection you wish to test.

Packet Size Enter the packet size you want to use. The default is **32** bytes.

Times to Ping Enter many times you wish to test it.

Start to Ping To run the test, click this button. The *Ping Test* screen will show if the test was successful. Click **Close** to return to the *Diagnostics* screen.
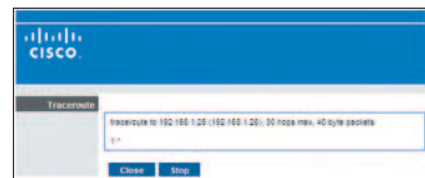

Diagnostics > Ping

Traceroute Test

The Traceroute test tests the performance of a connection.

IP or URL Address Enter the address of the computer, device, or website whose connection you wish to test.

Start to Traceroute To run the test, click this button. The *Traceroute Test* screen will show if the test was successful. Click **Close** to return to the *Diagnostics* screen.

Diagnostics > Traceroute

Administration > Factory Defaults

The *Administration > Factory Defaults* screen allows you to restore the Valet's configuration to its factory default settings.
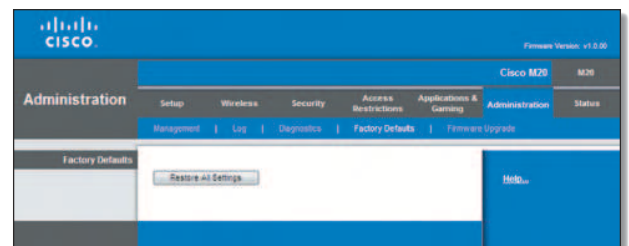
Administration > Factory Defaults

✓ **NOTE:** Do not restore the factory defaults unless you are having difficulties with the Valet and have exhausted all other troubleshooting measures. Once the Valet is reset, you will have to re-enter all of your configuration settings.

Factory Defaults

Restore All Settings To reset the Valet's settings to the default values, click this button and then follow the on-screen instructions. Any settings you have saved will be lost when the default settings are restored.

Administration > Firmware Upgrade

The *Firmware Upgrade* screen allows you to upgrade the Valet's firmware. Do not upgrade the firmware unless you are experiencing problems with the Valet or the new firmware has a feature you want to use.
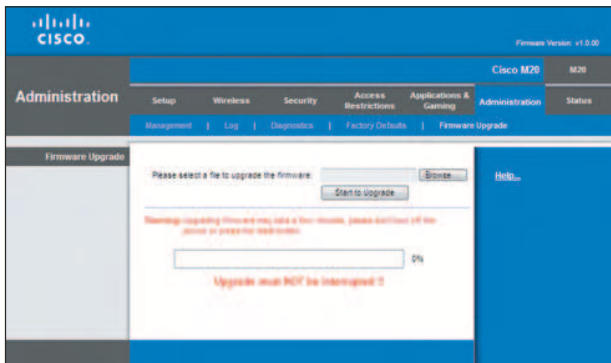
Administration > Firmware Upgrade

✓ **NOTE:** The Valet may lose the settings you have customized. Before you upgrade its firmware, write down all of your custom settings. After you upgrade its firmware, you may have to re-enter all of your configuration settings.

Firmware Upgrade

Before upgrading the firmware, download the firmware upgrade file specifically for your model from the website, **www.ciscovalet.com**.

Please select a file to upgrade the firmware Click **Browse** and select the firmware upgrade file.

Start to Upgrade After you have selected the appropriate file, click this button, and follow the on-screen instructions.

⚠ **WARNING:** Do not interrupt the upgrade process. You should not turn off the power or press the reset button during the upgrade process. Doing so may render the Valet unusable.

Status > Router

The *Router* screen displays information about the Valet and its current settings.
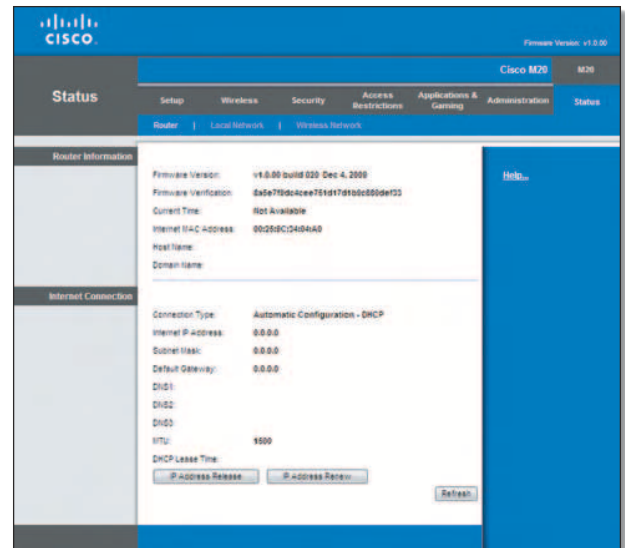
Status > Router

Router Information

Firmware Version This is the version number of the Valet's current firmware.

Firmware Verification This shows the unique identifier of the firmware.

Current Time This shows the time set on the Valet.

Internet MAC Address This is the Valet's MAC Address, as seen by your ISP.

Host Name If required by your ISP, this was entered on the *Basic Setup* screen.

Domain Name If required by your ISP, this was entered on the *Basic Setup* screen.

Internet Connection

This section shows the current network information stored in the Valet. The information varies depending on the Internet connection type selected on the *Basic Setup* screen.

Click **Refresh** to update the on-screen information.

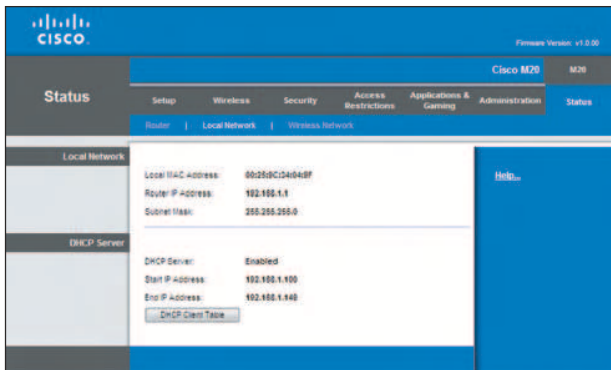## Status > Local Network

The *Local Network* screen displays information about the local, wired network.

Status > Local Network

Local Network

Local MAC Address The MAC address of the Valet's local, wired interface is displayed here.

Router IP Address This shows the Valet's IP address, as it appears on your local network.

Subnet Mask This shows the Subnet Mask of the Valet.

DHCP Server

DHCP Server The status of the Valet's DHCP server function is displayed here.

Start IP Address This displays the first available IP address that can be used by devices on your local network.

End IP Address This displays the last available IP address that can be used by devices on your local network.

DHCP Clients Table Click this button to view a list of computers and devices that are using the Valet as a DHCP server.
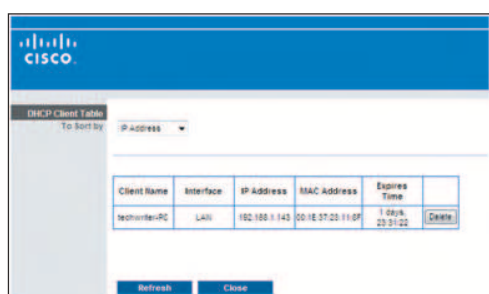
DHCP Clients Table

DHCP Client Table

The DHCP Client Table lists computers and other devices that have been assigned IP addresses by the Valet. The list can be sorted by Client Name, Interface, IP Address, MAC Address, and Expired Time (how much time is left for the current IP address). To remove a DHCP client, click **Delete**. To retrieve the most up-to-date information, click **Refresh**. To exit this screen and return to the *Local Network* screen, click **Close**.

Status > Wireless Network

The *Wireless Network* screen displays information about your wireless network.
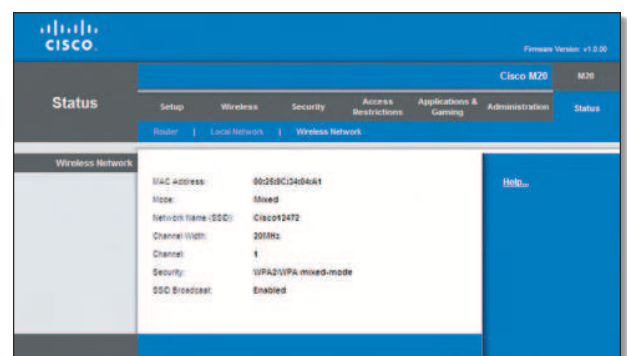
Status > Wireless

Wireless Network

MAC Address The MAC address of the Valet's local, wireless interface is displayed here.

Mode Displayed here is the wireless mode used by the network.

Network Name (SSID) Displayed here is the name of the wireless network, which is also called the SSID.

Channel Width Shown here is the Channel Width setting selected on the *Basic Wireless Settings* screen.

Channel Shown here is the Channel setting selected on the *Basic Wireless Settings* screen.

Security Displayed here is the wireless security method used by the Valet.

SSID Broadcast Displayed here is the status of the SSID Broadcast feature.

Appendix A: Troubleshooting

Your computer cannot connect to the Internet.

Follow these instructions until your computer can connect to the Internet:

- Make sure that the Valet is powered on. The Power LED should be blue and not flashing.

- If the Power LED is flashing, then power off all of your network devices, including the modem, Valet, and computers. Then power on each device in the following order:
  1. Cable or DSL modem
  2. Valet
  3. Computer

- Check the cable connections. The computer should be connected to one of the ports numbered 1-4 on the Valet, and the modem must be connected to the Internet port on the Valet.

The modem does not have an Ethernet port.

The modem is a dial-up modem for traditional dial-up service. To use the Valet, you need a cable/DSL modem and high-speed Internet connection.

You cannot use the DSL service to connect manually to the Internet.

After you have installed the Valet, it will automatically connect to your Internet Service Provider (ISP), so you no longer need to connect manually.

The DSL telephone line does not fit into the Valet's Internet port.

The Valet does not replace your modem. You still need your DSL modem in order to use the Valet. Connect the telephone line to the DSL modem, and then insert the setup CD into your computer. Click **Setup** and follow the on-screen instructions.

When you double-click the web browser, you are prompted for a username and password. If you want to get rid of the prompt, follow these instructions.

Launch the web browser and perform the following steps (these steps are specific to Internet Explorer but are similar for other browsers):

1. Select **Tools** > **Internet Options**.
2. Click the **Connections** tab.
3. Select **Never dial a connection**.
4. Click **OK**.

The Valet does not have a coaxial port for the cable connection.

The Valet does not replace your modem. You still need your cable modem in order to use the Valet. Connect your cable connection to the cable modem, and then insert the setup CD into your computer. Click **Setup** and follow the on-screen instructions.

The computer cannot connect wirelessly to the network.

Make sure the wireless network name or SSID is the same on both the computer and the Valet. If you have enabled wireless security, then make sure the same security method and key are used by both the computer and the Valet.

You need to modify the settings on the Valet.

Valet settings can be modified using the Cisco Connect software, refer to **How to Access Cisco Connect**, **page 12**. To modify the advanced settings, go to *Advanced Settings*. Refer to **Advanced Settings**, **page 12**.

In Windows XP, you do not see the Valet in the* My Network Places *screen.

In the *Network Tasks* section, click **Show icons for networked UPnP devices**. If the Valet does not appear, follow these instructions:

1. Go to **Start > Control Panel > Firewall**.
2. Click the **Exceptions** tab.
3. Select **UPnP Framework**.
4. Click **OK**.

WEB: If your questions are not addressed here, refer to our website at **www.ciscovalet.com/support**

Appendix B: Specifications

Model Name:	**valet**
Model Description:	Wireless-N Hotspot
Model Number:	M10
Standards	IEEE 802.11n, 802.11g, 802.11b, 802.3u
Ports	Internet, Fast Ethernet (1-4), Power
Buttons	Reset, Wi-Fi Protected Setup™
LEDs	Power, Internet, Wireless, Wi-Fi Protected Setup™, Ethernet (1-4)
Cabling Type	CAT 5
# of Antennas	2 (internal)
Detachable (y/n)	No
Transmitted Power	
802.11n (40MHz):	13.5 ± 1.5 dBm @ CH6, mcs15
802.11n (20MHz):	15.0 ± 1.5 dBm @ CH6, mcs0~4, mcs8~12 13.5 ± 1.5 dBm @ CH6, mcs5~7, mcs13~15
802.11g:	14.5 ± 1.5 dBm
802.11b:	16.5 ± 1.5 dBm
Receive Sensitivity	-91 dBm @ 1 Mbps -87 dBm @ 11 Mbps -71 dBm @ 54 Mbps -66 dBm @ 270 Mbps
Antenna Gain	2 dBi
UPnP able/cert	Able
Wireless Security	Wi-Fi Protected Access™ 2 (WPA2), WEP, Wireless MAC Filtering
Security key bits	Up to 128-bit encryption

Environmental

Dimensions	7.95" x 6.3" x 1.34" (202 x 160 x 34 mm)
Weight	9.9 oz (0.2806 kg)
Power	12V, 0.5A
Certification	FCC, UL/cUL, ICES-003, RSS210, CE, Wi-Fi (IEEE 802.11b/g/n), WPA2™, WMM®, Wi-Fi Protected Setup™
Operating Temp.	32 to 104°F (0 to 40°C)
Storage Temp.	-4 to 140°F (-20 to 60°C)
Operating Humidity	10 to 80% Noncondensing
Storage Humidity	5 to 90% Noncondensing

Specifications are subject to change without notice.

Model Name :	**valet**plus
Model Description:	Wireless-N Hotspot
Model Number:	M20
Standards	IEEE 802.11n, 802.11g, 802.11b, 802.3u, 802.3ab
Ports	Internet, Gigabit Ethernet (1-4), Power
Buttons	Reset, Wi-Fi Protected Setup™
LEDs	Power, Internet, Wireless, Wi-Fi Protected Setup™, Ethernet (1-4)
Cabling Type	CAT 5
# of Antennas	3 (internal)
Detachable (y/n)	No
Transmitted Power	
802.11n (40 MHz):	13.0 ± 1.5 dBm @ CH6, 25°C
802.11n (20 MHz):	15.5 ± 1.5 dBm @ CH6, 25°C
802.11g:	16.5 ± 1.5 dBm @ CH 6, 25°C
802.11b:	17.5 ± 1.5 dBm @ CH 6, 25°C
Receive Sensitivity in dBm	
	-92dBm @ 1 Mbps -87dBm @ 11 Mbps -71dBm @ 54 Mbps -66dBm @ 270 Mbps
Antenna Gain in dBi	1.5 dBi (antennas one and two) 2.2 dBi (antenna three)
UPnP able/cert	Able
Wireless Security	Wi-Fi Protected Access™ 2 (WPA2), WEP, Wireless MAC Filtering
Security key bits	Up to 128-bit encryption

Environmental

Dimensions	7.95" x 6.3" x 1.34" (202 x 160 x 34 mm)
Weight	10.9 oz (0.309 kg)
Power	12V, 1.0A
Certification	FCC, UL/cUL, ICES-003, RSS210, CE, Wi-Fi (IEEE 802.11b/g/n), WPA2™, WMM®, Wi-Fi Protected Setup™
Operating Temp.	32 to 104°F (0 to 40°C)
Storage Temp.	-4 to 140°F (-20 to 60°C)
Operating Humidity	10 to 80% Noncondensing
Storage Humidity	5 to 90% Noncondensing

Specifications are subject to change without notice.

Appendix C: Warranty Information

LIMITED WARRANTY

(U.S.A, Canada, Asia Pacific, Australia, New Zealand)

FOR CONSUMERS WHO ARE COVERED BY CONSUMER PROTECTION LAWS OR REGULATIONS IN THEIR COUNTRY OF PURCHASE OR, IF DIFFERENT, THEIR COUNTRY OF RESIDENCE, THE BENEFITS CONFERRED BY THIS WARRANTY ARE IN ADDITION TO ALL RIGHTS AND REMEDIES CONVEYED BY SUCH CONSUMER PROTECTION LAWS AND REGULATIONS. THIS WARRANTY DOES NOT EXCLUDE, LIMIT OR SUSPEND ANY RIGHTS OF CONSUMERS ARISING OUT OF NONCONFORMITY WITH A SALES CONTRACT. SOME COUNTRIES, STATES AND PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION MAY LAST, SO THE LIMITATIONS OR EXCLUSIONS DESCRIBED BELOW MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY BY COUNTRY, STATE OR PROVINCE. THIS LIMITED WARRANTY IS GOVERNED BY AND CONSTRUED UNDER THE LAWS OF THE COUNTRY IN WHICH THE PRODUCT PURCHASE TOOK PLACE.

This warranty is provided to you by Cisco Systems, Inc. or its subsidiary instead of Cisco Systems, Inc. ("Cisco"). Cisco warrants the hardware in this Cisco product against defects in materials and workmanship under normal use for the Warranty Period, which begins on the date of purchase by the original end-user purchaser and lasts for the period specified below:

- One (1) year for new product

- Ninety (90) days for refurbished product

Your exclusive remedy and Cisco's entire liability under this limited warranty will be for Cisco, at its option, to (a) repair the product with new or refurbished parts, (b) replace the product with a reasonably available equivalent new or refurbished Cisco product, or (c) refund the actual purchase price of the product less any rebates and discounts, or (d) pay the cost of repair of the product. Any repaired or replacement products will be warranted for the remainder of the original Warranty Period or thirty (30) days, whichever is longer. All products and parts that are replaced become the property of Cisco.

Cisco additionally warrants that any media on which the software may be provided will be free from defects in materials and workmanship under normal use for a period of ninety (90) days from the date of original purchase. Your exclusive remedy and Cisco's entire liability under this limited warranty will be for Cisco, at its option, to (a) replace the software media, or (b) refund the purchase price of the software media.

EXCLUSIONS AND LIMITATIONS

This limited warranty does not apply if: (a) the product assembly seal has been removed or damaged, (b) the product has been altered or modified, except by Cisco, (c) the product damage was caused by use with non-Cisco products, (d) the product has not been installed, operated, repaired, or maintained in accordance with instructions supplied by Cisco, (e) the product has been subjected to abnormal physical or electrical stress, misuse, negligence, or accident, (f) the serial number on the Product has been altered, defaced, or removed, or (g) the product is supplied or licensed for beta, evaluation, testing or demonstration purposes for which Cisco does not charge a purchase price or license fee.

EXCEPT FOR THE LIMITED WARRANTY ON MEDIA SET FORTH ABOVE AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ALL SOFTWARE AND SERVICES PROVIDED BY CISCO WITH THE PRODUCT, WHETHER FACTORY LOADED ON THE PRODUCT OR CONTAINED ON MEDIA ACCOMPANYING THE PRODUCT, IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND. Without limiting the foregoing, Cisco does not warrant that the operation of the product, software or services will be uninterrupted or error free. Also, due to the continual development of new techniques for intruding upon and attacking networks, Cisco does not warrant that the product, software or services, or any equipment, system or network on which the product, software or services are used will be free of vulnerability to intrusion or attack. The product may include or be bundled with third party software or service offerings. This limited warranty shall not apply to such third party software or service offerings. This limited warranty does not guarantee any continued availability of a third party's service for which this product's use or operation may require.

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APPLICABLE LAW, IN NO EVENT WILL CISCO'S LIABILITY EXCEED THE AMOUNT PAID BY YOU FOR THE PRODUCT. The foregoing limitations will apply even if any warranty or remedy provided under this limited warranty fails of its essential purpose.

If you live in and have purchased the product in Australia or New Zealand, the following two (2) paragraphs will apply in place of the preceding paragraph:

To the extent permitted by law, Cisco excludes liability for any lost data, revenue or profit, loss of the ability to use any third party products, software or services, and indirect or consequential loss, whether based in statute, common law (including negligence) or otherwise, arising out of or related to the use of or inability to use the product, software, or any services provided in respect of such product, software or service, even if Cisco has been advised of the possibility of such damages and Cisco limits its liability to an amount not exceeding the amount paid by you for the product.

Part V of the Trade Practices Act (1974) (C'th of Australia), corresponding consumer protection provisions of Australian State and Territory legislation and the Consumer Guarantees Act 1993 (New Zealand) (together, "Applicable Laws") imply terms and warranties which operate to protect certain Australian and New Zealand purchasers of goods and services in various circumstances. Nothing in this warranty excludes, restricts or modifies any condition, warranty, right or remedy implied or imposed by any Applicable Laws which cannot lawfully be excluded, restricted or modified.

No Cisco employee, agent or reseller is authorized to make any verbal or written modification, extension or addition to this warranty, and Cisco expressly disclaims any such change to this warranty. If any portion of this limited warranty is found to be void or unenforceable, its remaining provisions shall remain in full force and effect.

OBTAINING WARRANTY SERVICE

If you have a question about your product or experience a problem with it, please go to **www.myciscohome.com/support** where you will find a variety of online support tools and information to assist you with your product. If the product proves defective during the Warranty Period, contact Cisco Technical Support (or, if you purchased your product from a service provider, contact the service provider) for instructions on how to obtain warranty service. The telephone number for Cisco Technical Support in your area can be found by clicking the "Contact Us" link on the home page of **www.myciscohome.com**. Have your product serial number and proof of purchase on hand when calling. A DATED PROOF OF ORIGINAL PURCHASE IS REQUIRED TO PROCESS WARRANTY CLAIMS. If you are requested to return your product, you will be given a Return Materials Authorization (RMA) number. You are responsible for properly packaging and shipping your product at your cost and risk. You must include the

RMA number and a copy of your dated proof of original purchase when returning your product. Products received without a RMA number and dated proof of original purchase will be rejected. Do not include any other items with the product you are returning. Products returned for replacement must be returned to Cisco in the same country in which the original product was purchased. Defective product covered by this limited warranty will be repaired or replaced and returned to you without charge. Customers outside of the United States of America and Canada are responsible for all shipping and handling charges, custom duties, VAT and other associated taxes and charges. Repairs or replacements not covered under this limited warranty will be subject to charge at Cisco's then-current rates.

TECHNICAL SUPPORT

This limited warranty is neither a service nor a support contract. Information about Cisco's current technical support offerings and policies (including any fees for support services) can be found at **www.myciscohome.com/support**.

Please direct all inquiries to: Cisco, 120 Theory, Irvine, CA 92617

Appendix D: Regulatory Information

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This product has been tested and complies with the specifications 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 according to 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 is found 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 or devices
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. IEEE 802.11b or 802.11g operation of this product in the USA is firmware-limited to channels 1 through 11.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Safety Notices

⚠️ **WARNING:** Do not use this product near water, for example, in a wet basement or near a swimming pool.

⚠️ **WARNING:** Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

⚠️ **WARNING:** This product contains lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003 and RSS210.

Operation is subject to the following two conditions:

1. This device may not cause interference and
2. This device must accept any interference, including interference that may cause undesired operation of the device. This device has been designed to operate with an antenna having a maximum gain of 2 dBi Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

Industry Canada Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Avis d'Industrie Canada

Cet appareil numérique de la classe B est conforme aux normes NMB-003 et RSS210 du Canada.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes :

1. il ne doit pas produire de brouillage et

2. il doit accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif. Le dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximum de 2 dBi. Les règlements d'Industrie Canada interdisent strictement l'utilisation d'antennes dont le gain est supérieur à cette limite. L'impédance requise de l'antenne est de 50 ohms.

Avis d'Industrie Canada concernant l'exposition aux radiofréquences :

Ce matériel est conforme aux limites établies par IC en matière d'exposition aux radiofréquences dans un environnement non contrôlé. Ce matériel doit être installé et utilisé à une distance d'au moins 20 cm entre l'antenne et le corps de l'utilisateur.

L'émetteur ne doit pas être placé près d'une autre antenne ou d'un autre émetteur, ou fonctionner avec une autre antenne ou un autre émetteur.

Wireless Disclaimer

The maximum performance for wireless is derived from IEEE Standard 802.11 specifications. Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage. Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

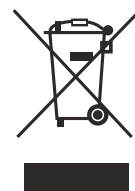## Avis de non-responsabilité concernant les appareils sans fil

Les performances maximales pour les réseaux sans fil sont tirées des spécifications de la norme IEEE 802.11. Les performances réelles peuvent varier, notamment en fonction de la capacité du réseau sans fil, du débit de la transmission de données, de la portée et de la couverture. Les performances dépendent de facteurs, conditions et variables multiples, en particulier de la distance par rapport au point d'accès, du volume du trafic réseau, des matériaux utilisés dans le bâtiment et du type de construction, du système d'exploitation et de la combinaison de produits sans fil utilisés, des interférences et de toute autre condition défavorable.

User Information for Consumer Products Covered by EU Directive 2002/96/EC on Waste Electric and Electronic Equipment (WEEE)
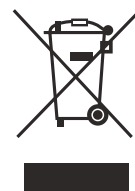
This document contains important information for users with regards to the proper disposal and recycling of Cisco products. Consumers are required to comply with this notice for all electronic products bearing the following symbol:
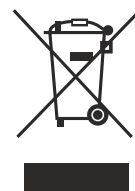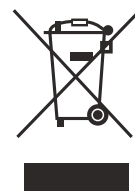

English - Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol ⌧ on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

Español (Spanish) - Información medioambiental para clientes de la Unión Europea

La Directiva 2002/96/CE de la UE exige que los equipos que lleven este símbolo ⌧ en el propio aparato y/o en su embalaje no deben eliminarse junto con otros residuos urbanos no seleccionados. El símbolo indica que el producto en cuestión debe separarse de los residuos domésticos convencionales con vistas a su eliminación. Es responsabilidad suya desechar este y cualesquiera otros aparatos eléctricos y electrónicos a través de los puntos de recogida que ponen a su disposición el gobierno y las autoridades locales. Al desechar y reciclar correctamente estos aparatos estará contribuyendo a evitar posibles consecuencias negativas para el medio ambiente y la salud de las personas. Si desea obtener información más detallada sobre la eliminación segura de su aparato usado, consulte a las autoridades locales, al servicio de recogida y eliminación de residuos de su zona o pregunte en la tienda donde adquirió el producto.

Français (French) - Informations environnementales pour les clients de l'Union européenne

La directive européenne 2002/96/CE exige que l'équipement sur lequel est apposé ce symbole ⌧ sur le produit et/ou son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter ce matériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L'élimination et le recyclage en bonne et due forme ont pour but de lutter contre l'impact néfaste potentiel de ce type de produits sur l'environnement et la santé publique. Pour plus d'informations sur le mode d'élimination de votre ancien équipement, veuillez prendre contact avec les pouvoirs publics locaux, le service de traitement des déchets, ou l'endroit où vous avez acheté le produit.

WEB: For additional information, please visit **www.myciscohome.com**

Appendix E: Software End User License Agreement

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In addition, Cisco may collect and store detailed information regarding Your network configuration and usage for the purpose of providing You technical networking support. The information is associated with You only when You provide a unique ID number to the support representative while You are receiving help. The unique ID is generated randomly on Your computer upon installation and is completely under Your control.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b. Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c. Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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