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You can read the recommendations in the user guide, the technical guide or the installation guide for MOTOROLA SBG941. You'll find the answers to all your questions on the MOTOROLA SBG941 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual MOTOROLA SBG941
User guide MOTOROLA SBG941
Operating instructions MOTOROLA SBG941
Instructions for use MOTOROLA SBG941
Instruction manual MOTOROLA SBG941

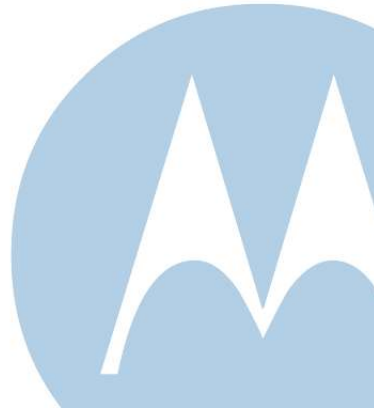


User Guide

Motorola SURFboard®

SBG941 Series Wireless Cable Modem
Gateways*

*SBG941
SBG941U
SBG941E
SBG941UE



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Manual abstract:

Retain the instructions for future reference. @@@@. To prevent fire or shock hazard, do not expose this device to rain or moisture. The device must not be exposed to dripping or splashing. Do not place objects filled with liquids, such as vases, on the device. This device was qualified under test conditions that included the use of the supplied cables between system components. To ensure regulatory and safety compliance, use only the provided power and interface cables and install them properly. Different types of cord sets may be used for connections to the main supply circuit. Use only a main line cord that complies with all applicable device safety requirements of the country of use. Installation of this device must be in accordance with national wiring codes and conform to local regulations. Operate this device only from the type of power source indicated on the device's marking label.

If you are not sure of the type of power supplied to your home, consult your dealer or local power company. Do not overload outlets or extension cords, as this can result in a risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard. Route power supply cords so that they are not likely to be walked on or pinched by items placed upon or against them.

Pay particular attention to cords where they are attached to plugs and convenience receptacles, and examine the point where they exit from the device. Place this device in a location that is close enough to an electrical outlet to accommodate the length of the power cord. Place the device to allow for easy access when disconnecting the power cord of the device from the AC wall outlet. Do not connect the plug into an extension cord, receptacle, or other outlet unless the plug can be fully inserted with no part of the blades exposed. Place this device on a stable surface.

Postpone installation until there is no risk of thunderstorm or lightning activity in the area. It is recommended that the customer install an AC surge protector in the AC outlet to which this device is connected. This is to avoid damaging the device by local lightning strikes and other electrical surges. Do not cover the device or block the airflow to the device with any other objects. Keep the device away from excessive heat and humidity and keep the device free from vibration and dust. Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways User Guide 570280-001-a ii B Wipe the device with a clean, dry cloth. Never use cleaning fluid or similar chemicals. Do not spray cleaners directly on the device or use forced air to remove dust. Do not use this product near water: for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool. Upon completion of any service or repairs to this device, ask the service technician to perform safety checks to determine that the device is in safe operating condition.

Do not open the device. Do not perform any servicing other than that contained in the installation and troubleshooting instructions. Refer all servicing to qualified service personnel. This device should not be used in an environment that exceeds 40° C. SAVE THESE INSTRUCTIONS Note to CATV System Installer: This reminder is provided to call the CATV system installer's attention to Section 820.93 of the National Electric Code, which provides guidelines for proper grounding and, in particular, specifies that the coaxial cable shield shall be connected to the grounding system of the building, as close to the point of cable entry as practical. WIRELESS LAN INFORMATION This device is a wireless network product that uses Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency-Division Multiple Access (OFDMA) radio technologies. The device is designed to be interoperable with any other wireless DSSS and OFDMA products that comply with: The IEEE 802.11 Standard on Wireless LANs (Revision B and Revision G), as defined and approved by the Institute of Electrical and Electronics Engineers. The Wireless Fidelity (Wi-Fi) certification as defined by the Wireless Ethernet Compatibility Alliance (WECA).

RESTRICTIONS ON THE USE OF WIRELESS DEVICES In some situations or environments, the use of wireless devices may be restricted by the proprietor of the building or responsible representatives of the organization. For example, using wireless equipment in any environment where the risk of interference to other devices or services is perceived or identified as harmful. If you are uncertain of the applicable policy for the use of wireless equipment in a specific organization or environment, you are encouraged to ask for authorization to use the device prior to turning on the equipment. The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of the devices included with this product, or the substitution or attachment of connecting cables and equipment other than specified by the manufacturer. Correction of the interference caused by such unauthorized modification, substitution, or attachment is the responsibility of the user.

The manufacturer and its authorized resellers or distributors are not liable for any damage or violation of government regulations that may arise from failing to comply with these guidelines. SECURITY WARNING: This device allows you to create a wireless network. Wireless network connections may be accessible by unauthorized users. For more information on how to protect your network, see Setting Up Your Wireless LAN or visit the Motorola website. Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways User Guide 570280-001-a iii B FCC STATEMENTS FCC INTERFERENCE STATEMENT 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 environment. 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 device 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 device and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.



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· Consult the dealer or an experienced radio/TV technician for help. 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. FCC CAUTION: Any changes or modifications not expressly approved by Motorola for compliance could void the user's authority to operate the equipment.

FCC RADIATION EXPOSURE STATEMENT This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with the FCC RF exposure compliance requirements, the separation distance between the antenna and any person's body (including hands, wrists, feet, and ankles) must be at least 20 cm (8 inches). This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destinations. The firmware setting is not accessible by the end user. **INDUSTRY CANADA (IC) STATEMENT** This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: · This Device May Not Cause Interference, and · This Device Must Accept Any Interference, Including Interference That May Cause Undesired Operation of the Device. This device is designed to operate with two internal antennas as part of the printed wiring board. The top facing antenna has a maximum gain of 2dBi and the front facing antenna has a maximum gain of 4dBi. To reduce potential radio interference to other users, the antenna types and their gains were so chosen that the equivalent isotropically radiated power (e. i. r. p) is not more than that permitted for successful communications. This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

IC RADIATION EXPOSURE STATEMENT IMPORTANT NOTE: This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm (8 inches) between the radiator and your body. Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a iv B Caring for the Environment by Recycling When you see this symbol on a Motorola product, do not dispose of the product with residential or commercial waste. Recycling your Motorola Equipment Please do not dispose of this product with your residential or commercial waste. Some countries or regions, such as the European Union, have set up systems to collect and recycle electrical and electronic waste items.

Contact your local authorities for information about practices established for your region. If collection systems are not available, call Motorola Customer Service for assistance. Please visit www.motorola.com/recycle for instructions on recycling. International Declaration of Conformity We, Motorola, Inc., 101 Tournament Drive, Horsham, PA 19044, U.S.A., declare under our sole responsibility that the SBG941 SURFboard Wireless Cable Modem Gateway Series to which this declaration relates is in conformity with one or more of the following standards: EN60950-1 EN61000-3-2 EN 300 328 EN61000-3-3 EN 301 489-1/-17 EN50385 The following provisions of the Directive(s) of the Council of the European Union: · EMC Directive 2004/108/EC · Low Voltage Directive 2006/95/EC · R&TTE 1999/5/EC Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a v B Contents Safety and Regulatory Information Introduction Inside the Box.

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..... 8 Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a viii B 1 Introduction The Motorola SBG941 Wireless Cable Modem Gateway can be used in households with one or more computers capable of wireless and/or wired connectivity. This guide provides product overview and setup information for the SBG941.

It also provides instructions for installing the cable modem and configuring the wireless, Ethernet, router, DHCP, and security settings. Note: All references to the SBG941 used throughout this guide also apply to the SBG941U, SBG941E, and SBG941UE, unless noted otherwise. All SBG941U references also apply to the SBG941UE unless noted otherwise. Inside the Box Before installing the SBG941, verify that the following items are included in the box. If you

obtained the modem from your service provider, some of the included items may be different.

*Item Power supply Description Provides power via an AC electrical outlet 10/100Base-T Ethernet cable Software License & Regulatory Card SBG941U
Installation CDROM SBG941 Install Sheet Standard Cat 5, or higher, cable for connecting to the network Contains software license, warranty, and safety
information for the SBG941 Contains the SBG941U Installation Assistant, and this user guide Included with SBG941U models only.*



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Provides basic information for setting up the SBG941 Introduction · Inside the Box Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 1 B You will need a 75-ohm coaxial cable with F-type connectors to connect the SBG941 to the nearest cable outlet. If a TV is connected to the cable outlet, you may need a 5 to 900 MHz RF splitter and two additional coaxial cables to use the TV and SBG941. Note: This product is also designed for IT power systems with phase to phase voltage 230VAC input. Minimum System Requirements The SBG941 is compatible with the following operating systems: . . . Windows XP Service Pack 2 or later Windows Vista Service Pack 1 or later MAC 10.

4 Contact Information For information about Motorola consumer cable products, education, and support, visit the Motorola support website at: <http://broadband.motorola.com/consumers/support> 9 Introduction · Minimum System Requirements Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 2 B 2 Front Panel Overview Product Overview The SBG941 front panel contains indicator lights and the WPS button, which is used to configure a Wi-Fi Protected Security (WPS)-enabled device so that it automatically connects to the SBG941 wireless network. The SBG941 front panel LED indicators provide the following status information for power, communications, and errors: LED 1 POWER 2 RECEIVE 3 SEND 4 ONLINE 5 LINK Flashing Not applicable -- LED does not flash Scanning for a downstream (receive) channel connection Scanning for an upstream (send) channel connection Scanning for Internet connection Not applicable -- LED does not flash On Green: Power is properly connected Green: Downstream channel is connected Green: Upstream channel is connected Green: Startup process completed Green: A device is connected to the Ethernet (10Base-T) or Fast Ethernet (100Base-T), and/or USB port. Product Overview · Front Panel Overview Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 3 B 6 WIRELESS Green: Wi-Fi enabled with encrypted wireless data activity. Long/short flash indicates mobile pairing in progress. Amber: Wi-Fi enabled with unencrypted wireless data activity. Not applicable -- LED does not flash Green: Wireless pairing successfully established between the SBG941 and another Wi-Fi enabled device on your network -- printer, PDA, laptop, etc. Amber: Mobile pairing was successful. LED turns green after five minutes.

Green: WPS button is pressed and Wi-Fi Protected Security is activated. LED will remain on until WPS button is released. 7 WPS START Rear Panel Overview Both the SBG941 and SBG941U (shown above) rear panels contain the following cabling port and connectors: Item 1 ETHERNET 1234 Description Ethernet-ports: Activity LED -- Green LED defines the activity of the Ethernet connector · LED is ON -- Indicates a 100Base-T negotiated data rate · LED is FLASHING -- Indicates activity is detected on the port · LED is OFF -- Indicates the unit is not powered or there is no 100BaseT Ethernet connection Product Overview · Rear Panel Overview Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 4 B ETHERNET 1234 (continued) 10/100 LED -- Indicates the connection data rate · Green LED is ON -- Indicates a 100Base-T data connection · Amber LED is ON -- Indicates a 10Base-T negotiated data rate · Amber LED is FLASHING -- Indicates there is activity on the Ethernet connection when in 10Base-T rate · Amber LED is OFF-- Indicates the device is not powered on or there is no 10Base-T connection For Windows only, used for connecting a PC to the SBG941U. You cannot connect a Macintosh or UNIX® computer to the USB port on the SBG941U. Front panel LINK LED will turn ON when a USB device is connected and a link is established USB connector is available on SBG941U models only. Coaxial cable connector Resets the cable modem which may take

from five to 30 minutes +12VDC power connector 2 USB 3 4 5 CABLE RESET POWER MAC Label Overview The SBG941 Media Access Control (MAC) label contains the MAC address which is a unique, 48-bit value that identifies each Ethernet network device. To receive data service, you need to provide the MAC address marked HFC MAC ID to your Internet Service provider. Product Overview · MAC Label Overview Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 5 B 3 CAUTION Installing the Modem This section provides information on setting up and installing the SBG941 wireless gateway. For information on the WLAN setup, see Setting Up Your Wireless LAN. This product is for indoor use only. Do not route the USB and/or Ethernet cable(s) outside of the building. Exposure of the cables to lightning could create a safety hazard and damage the product. Cabling the SBG941 Before starting, power on your computer and check that the SBG941 is unplugged. 1. Connect the coaxial cable to the cable outlet or splitter.

2. Connect the other end of the coaxial cable to the cable connector on the modem. Hand-tighten the connectors to avoid damaging them. 3. Plug the power cord into the Power port on the modem.

4. Plug the other end of the power cord into an electrical wall outlet. The first time you plug in the modem, allow 5 to 30 minutes to find and lock on the appropriate communications channels. 5. Connect the Ethernet cable to the Ethernet port on the computer. 6. Connect the other end of the Ethernet cable to the Ethernet port on the modem. Figure 1 Cabling the SBG941 Installing the Modem · Cabling the SBG941 Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 6 B 7. Check that the LEDs on the front panel cycle through the following sequence: Table 1 SBG941 LED Activity During Startup LED POWER RECEIVE SEND ONLINE Description Turns on when AC power is connected to the modem. Indicates that the power is connected properly.

Flashes while scanning for the downstream receive channel. Changes to solid green when the receive channel is locked. Flashes while scanning for the upstream send channel. Changes to solid green when the send channel is locked. Flashes during the modem registration and configuration. Changes to solid green when the modem is registered. Cabling the SBG941U CAUTION Before plugging in the USB cable on the SBG941U, load the SBG941U Installation CD-ROM in the CD-ROM drive. Do not connect the Ethernet and USB cables on the same computer at any time. Before starting, power on your computer and check that the SBG941U power cord is unplugged. 1.

Load and run the SBG941U Installation CD-ROM and install the applicable USB driver. 2. Connect one end of the coaxial cable to the cable outlet or splitter. 3.



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Connect the other end of the coaxial cable to the cable connector on the modem.

Hand-tighten the connectors to avoid damaging them. 4. Plug the power cord into the power port on the modem. 5. Plug the other end of the power cord into an electrical wall outlet.

The first time you plug in the modem, allow it 5- to 30 minutes to find and lock on the appropriate communications channels. 6. Connect the USB or Ethernet cable to the appropriate port on your computer. 7. Connect the other end of the USB or Ethernet cable to the appropriate port on the modem. 8. Check that the LEDs on the front panel cycle through the proper sequence, see Table 1 SBG941 LED Activity During Startup. Installing the Modem · Cabling the SBG941U Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 7 B Figure 2 Cabling the SBG941U Connecting to the Internet After installing the modem, check that you can connect to the Internet. You can retrieve an IP address for your computer's network interface using one of the following options: · Retrieve the statically-defined IP address and DNS address Automatically retrieve the IP address using the Network DHCP server The modem provides a DHCP server on its LAN. Motorola recommends that you configure your LAN to obtain the IPs for the LAN and DNS server automatically.

Make sure all computers on your LAN are configured for TCP/IP. After configuring TCP/IP on your computer, you should verify the IP address. Note: For UNIX or Linux systems, follow the instructions in the applicable user documentation. Configuring TCP/IP in Windows XP 1. Open the Control Panel. 2. Double-click Network Connections to list the Dial-up and LAN or High-Speed Internet connections. 3. Right-click the network connection for your network interface. Installing the Modem · Connecting to the Internet Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 8 B 4.

Select Properties from the drop-down menu to display the Local Area Connection Properties window. Be sure Internet Protocol (TCP/IP) is checked. 5. Select Internet Protocol (TCP/IP) and click Properties to display the Internet Protocol (TCP/IP) Properties window. 6.

Select Obtain an IP address automatically and Obtain DNS server address automatically. 7. Click OK to save the TCP/IP settings and exit the TCP/IP Properties window. 8. Close the Local Area Connection Properties window and then exit the Control Panel.

9. When you complete the TCP/IP configuration, go to Verifying the IP Address in Windows XP. Configuring TCP/IP in Windows Vista 1. Open the Control Panel. 2. Double-click Network and Internet to display the Network and Internet window. 3. Double-click Network and Sharing Center to display the Network and Sharing Center window. 4. Click Manage network connections to display the LAN or High-Speed Internet connections window.

5. Right-click the network connection for your network interface. 6. Select Properties to display the Local Area Connection Properties window. Vista may prompt you to allow access to the Network Properties Options. If you see the prompt, User Account Control -- Windows needs your permission to continue, click Continue. 7. Select Internet Protocol Version 4 or 6 (TCP/IPv4 or v6) and click Properties to display the Internet Protocol Properties window. 8. Select Obtain an IP address automatically and Obtain DNS server address automatically.

9. Click OK to save the TCP/IP settings and close the Internet Protocol Version 4 (TCP/IPv4) Properties window. 10. Click OK to close the Local Area Connection Properties window. 11.

Close the remaining windows and exit the Control Panel. 12. When you complete the TCP/IP configuration, go to Verifying the IP Address in Windows Vista. Installing the Modem · Connecting to the Internet Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 9 B Verifying the IP Address in Windows XP To check the IP address: 1. On the Windows Desktop, click Start.

2. Select Run. The Run window is displayed. 3. Type cmd and click OK. 4. Type ipconfig and press ENTER to display your IP configuration. If an Autoconfiguration IP address is displayed, that indicates possible broadband network problems or an improper connection between your computer and the SBG941. The Autoconfiguration IP address, ranging from 169.254.

0.0 to 169.254.255.255, is reserved for Automatic Private IP Addressing (APIPA). This can occur if the modem is configured to automatically obtain an IP address from a Dynamic Host Configuration Protocol (DHCP) server. When Auto-configuration is enabled, Windows will automatically assign an IP address if the cable modem gateway is unable to obtain one. Because this automatically assigned IP address is not valid, you will not be able to access the Internet using the cable modem gateway. Check the following: · Your cable connections Whether you can see cable-TV channels on your television After successfully verifying your cable connections and proper cable-TV operation, you can renew your IP address. Verifying the IP Address in Windows Vista Do the following to verify the IP address: 1.

On the Windows Desktop, click Start. 2. Click All Programs. 3. Click Accessories.

4. Click Run to display the Run window. 5. Type cmd and click OK to open a command prompt window. 6.

Type ipconfig and press ENTER to display the IP Configuration. If an Auto-configuration IP address is displayed, that indicates possible broadband network problems or an improper connection between your computer and the SBG941. The Auto-configuration IP address, ranging from 169.254.0.0 to 169.254.255.255, is reserved for Automatic Private IP Addressing (APIPA). Installing the Modem · Connecting to the Internet Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 10 B Renewing Your IP Address in Windows XP or Windows Vista 1.

Open a command prompt window. A. From the Windows Taskbar, click Start to open the Start menu. B. Select Run to open the Run window. C. Type cmd in the Open entry box and click OK. 2. Type ipconfig /renew and press ENTER. A valid IP address should appear indicating that Internet access is available.

3. Type exit and press ENTER to close the command prompt window. If, after performing this procedure, your computer cannot access the Internet, call your cable provider for help. Setting Up a Wi-Fi Network Do the following to set up a Wi-Fi network using the WPS button on the modem: 1. If necessary, power on the modem.

2. Power on the WPS-enabled devices you want to have access to the network, such as a PC or router. The Wi-Fi network will automatically detect the WPS devices. 3. Press WPS button on the modem.

4. If applicable, press WPS button on the other WPS devices. Wall Mounting the Modem If you choose to wall mount the modem, do the following before starting: · · · · Locate the unit as specified by the local or national codes governing residential or business cable TV and communications services.



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Follow all local standards for installing a network interface unit/network interface device (NIU/NID). Make sure the AC power plug is disconnected from the wall outlet and all cables are removed from the back of the modem before starting the installation. Determine if you are mounting the modem horizontally or vertically. Use M3.5 x 38 mm (#6 x 1½ inch) screws with a flat underside and maximum screw head diameter of 9.0 mm to mount the modem. See the screw mounting dimensions below to properly mount the modem: *Installing the Modem · Setting Up a Wi-Fi Network Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 11 B* If possible, mount the modem to concrete, masonry, a wooden stud, or some other solid wall material.

Use anchors if necessary (for example, if you must mount the unit on drywall). CAUTION Before drilling holes, check the structure for potential damage to water, gas, or electrical lines. 1. Drill the holes to a depth of at least 1½ inches (3.8 cm). There must be .10 inches (2.5 mm) between the wall and the underside of the screw head. 2. After mounting, reconnect the coaxial cable and re-plug the power cord. 3. Properly route the cables to avoid any safety hazards. Wall Mounting Template You can print the following page to use as a wall mounting template. After mounting the modem, do the following: 1. Reconnect the coaxial cable input and Ethernet connection. 2. Plug the power cord into the +12VDC Power connector on the modem and the electrical outlet. 3. Arrange the cables appropriately to prevent any safety hazards. *Installing the Modem · Wall Mounting the Modem Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 12 B 4.*

00" (10.20 cm) *Installing the Modem · Wall Mounting the Modem Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 13 4.00" (10.20 cm) B 4 Basic Configuration* For more advanced configuration information, see *Connecting to the Internet and Setting Up Your Wireless LAN*. For normal operation, you do not need to change most default settings. The following caution statements summarize the issues you must be aware of: CAUTION To prevent unauthorized configuration, change the default password immediately when you first configure the SBG941. See *Changing the SBG941 Default Password*. Firewalls are not foolproof. Choose the most secure firewall policy you can. See *Firewall Pages*.

2 *Starting the SBG941 Configuration Manager (CMGR) Note: Do not attempt to configure the SBG941 over a wireless connection. Use the SBG941 Configuration Manager (CMGR) to change and view settings on your SBG941. If the modem was obtained as part of a service package, your service provider may have alternative configuration methods. If you cannot access any of the SBG941 HTML pages, please contact your service provider. 1. Open the web browser on a computer connected to the modem over an Ethernet connection. 2. In the Address or Location field of your browser, type http://192.168.0.1 and press ENTER. 3. Type admin in the Username field (this field is case-sensitive). 4. Type motorola in the Password field (this field is case-sensitive). Basic Configuration · Starting the SBG941 Configuration Manager (CMGR) Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 14 B 5. Click Login to display the SBG941 Status Connection page. The Status Connection page provides the following status information on the network connection of the SBG941: RF Downstream Channel, which uses lower cable frequencies to transmit data RF Upstream Channel, which uses higher cable frequencies to receive data 6. Click the Refresh button in your web browser any time you want to refresh the information on this page. If you have any problems starting the SBG941 Configuration Manager (CMGR), see *Troubleshooting for more information.**

Changing the SBG941 Default Password From the SBG941 Status page, click Security submenu option to change the default password. Complete each field, then click Apply when done to save your changes. . . . For the password change username, type a new user name. The password is case-sensitive. For the current username password, type your old password. *Basic Configuration · Changing the SBG941 Default Password Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 15 B · Select Yes or No to reset the user name and password to the default factory settings. Note: You must login with the default user name, admin, and password, motorola, after applying this change. All entries are case-sensitive. SBG941 Menu Options Bar The SBG941 Menu Options bar is displayed along the top of the SBG941 Configuration Manager window. When a menu option is selected, a top-level page for that option is displayed.*

Configuration Manager Menu Options Bar Menu Option Pages Status Function Provides information about the SBG941 hardware and software, MAC address, cable modem IP address, serial number, and related information. Additional pages provide diagnostic tools and allow you to change your SBG941 user name and password. Views and configures SBG941 IP-related configuration data, including Network Configuration, WAN Connection Type, DHCP, and DDNS. The Backup option allows you to save your SBG941 configuration on your computer. Configures and monitors how the SBG941 routes IP traffic Configures and monitors the SBG941 firewall *Basic Advanced Firewall Basic Configuration · SBG941 Menu Options Bar Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 16 B Parental Control* Wireless Logout Configures and monitors the SBG941 parental control feature Configures and monitors SBG941 wireless networking features Exits the SBG941 Configuration Manager CAUTION To prevent unauthorized configuration, immediately change the default password when you first configure your Motorola SBG941. *Getting Help* To retrieve help information for any menu option, click help on that page. You can use the Windows scroll bar to view additional items on the help screens. See the sample Firewall help page shown below. *Basic Configuration · Getting Help Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 17 B Gaming Configuration Guidelines* The following provides information about configuring the SBG941 firewall and DMZ for gaming. *Configuring the Firewall for Gaming* By default, the SBG941 firewall is enabled.

As recommended, if you keep the firewall enabled, refer to the game's documentation to ensure that the necessary ports are open for use by that game. The pre-defined SBG941 firewall policies affect Xbox LIVE® as follows: · On the Firewall Web Content Filter Page, you may need to disable Firewall Protection and IP Flood Detection.



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Configuring Port Triggers Because the SBG941 has pre-defined port triggers for games using any of the following applications, no user action is required to enable them: · · ALG for MSN MSN Games by Zone.com You may need to create custom port triggers to enable other games to operate properly. To create custom port triggers, see the Advanced Port Triggers Page.

Configuring a Gaming DMZ Host CAUTION The gaming DMZ host is not protected by the firewall. It is open to communication or hacking from any computer on the Internet. Consider carefully before configuring a device to be in the DMZ. Some games and game devices require: · · The use of random ports The forwarding of unsolicited traffic For example, to connect a PlayStation®2 for PS2® online gaming, designate it as the gaming DMZ host because the ports required vary from game to game. For these games, Motorola recommends configuring the gaming computer or device as a gaming DMZ device. Basic Configuration · Gaming Configuration Guidelines Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 18 B To configure a gaming DMZ device, on the Basic DHCP Page: 1. Reserve a private IP address for the computer or game device MAC address. 2. Designate the device as a DMZ device. You can reserve IP addresses for multiple devices, but only one device at a time can be designated as the gaming DMZ. Exiting the SBG941 Configuration Manager To logoff and close the SBG941 Configuration Manager, click Logout on the SBG941 Menu Options bar. Basic Configuration · Exiting the SBG941 Configuration Manager Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 19 B 5 Status Pages The SBG941 Status pages provide information about the SBG941 hardware and software, MAC address, cable modem IP address, serial number, and related information. You can also monitor your cable system connection. Additional pages provide diagnostic tools and allow you to change your SBG941 user name and password. You can click any Status submenu option to view or change the status information for that option.

Status Software Page This page displays information about the hardware version, software version, MAC address, cable modem IP address, serial number, system "up" time, and network registration status. Status Pages · Status Software Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 20 B Status Connection Page This page provides the HFC and IP network connectivity status of the SBG941 cable modem. You can click the Refresh button in your web browser to refresh the information on this page at any time. Field Descriptions for the Status Connection Page Field Startup Procedure Downstream Channel Description Startup status information about the cable modem. Status information about the RF downstream channels, including downstream channel frequency and downstream signal power and modulation. Status information about the RF upstream channels, including upstream channel ID and upstream signal power and modulation. Upstream Channel Status Pages · Status Connection Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 21 B Status Security Page This page allows you to define administrator access privileges by changing your SBG941 user name and password. It also allows you to reset your user name and password to the default setting. Field Descriptions for the Status Security Page Field Password Change Username New Password Re-Enter New Password Current Username Password Restore Factory Defaults Description Type a new user name Type a new password. The password is case-sensitive.

Type the new password again. The password is casesensitive. Type your old password Select Yes or No to reset the user name and password to the default factory settings After restoring the factory defaults, you must login using the default user name, admin, and password, motorola. Status Pages · Status Security Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 22 B Status Diagnostics Page This page provides the following diagnostic tools for troubleshooting IP connectivity problems: · · Ping (LAN) Traceroute (WAN) Ping Utility Ping (Packet InterNet Groper) allows you to check connectivity between the SBG941 and other devices on the SBG941 LAN. This utility sends a small packet of data and then waits for a reply.

When you Ping a computer IP address and receive a reply, it confirms that the computer is connected to the SBG941. Testing Network Connectivity with the SBG941 To check connectivity between the SBG941 and other devices on the SBG941 LAN, perform the following test: 1. Select Ping from the Select Utility drop-down list. 2. Enter the IP address of the computer you want to Ping in the Target field.

3. Enter the data packet size in bytes in the Ping Size field. 4. Enter the number of ping attempts in the No. of Pings field. 5. Enter the time (in milliseconds) between Ping send operations in the Ping Interval field. 6. Click Start Test to begin the Ping operation. Ping results display in the Results pane.

Status Pages · Status Diagnostics Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 23 B 7. You can click Abort Test at any time during the test to stop the Ping operation. 8. Repeat steps 2 through 6 for each device you want to ping. When done, click Clear Results to delete the Ping results in the Results pane. Traceroute Utility Traceroute allows you to map the network path from the SBG941 Configuration Manager to a public host. Selecting Traceroute from the Select Utility drop-down list presents alternate controls for the Traceroute utility. 1. Enter the IP address or Host Name of the computer you want to target for the Traceroute operation in the Target field. 2.

Enter the maximum number of hops that the Traceroute operation performs before stopping in the Max Hops field. 3. Enter the data packet size in bytes in the Data Size field. 4. Set the base UDP port number used by Traceroute in the Base Port field.

The default is 33434. If a UDP port is not available, this field can be used to specify an unused port range. 5. In the Resolve Host field, select On to list the names of hosts found during the Traceroute operation, or select Off to list only the hosts IP addresses. 6.

After entering the Traceroute parameters, click Start Test to begin the Traceroute operation. The Traceroute results will display in the Results pane. When done, click Clear Results to delete the Traceroute results in the Results pane. Status Pages · Status Diagnostics Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 24 B Status Event Log Page This page lists the critical system events in chronological order.



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A sample Event log is shown below: [Status Configuration Page](#) [Status Pages](#) · [Status Event Log Page](#) Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · [User Guide 570280-001-a 25 B 6 Basic Pages](#) The SBG941 Basic Pages allow you to view and configure SBG941 IP-related configuration data, including Network Configuration, WAN Connection Type, DHCP, and DDNS. The Backup option allows you to save a copy of your SBG941 configuration on your computer. You can click any Basic submenu option to view or change the configuration information for that option. [Basic Setup Page](#) This page allows you to configure the basic features of your SBG941 gateway related to your ISP connection. [Field Descriptions for the Basic Setup Page](#) [NAPT mode Description](#) NAPT is a special case of NAT, where many IP numbers are hidden behind a number of addresses. In contrast to the original NAT, however, this does not mean there can be only that number of connections at a time.

[Basic Pages](#) · [Basic Setup Page](#) Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · [User Guide 570280-001-a 26 B NAPT mode](#) (continued) In NAPT mode, an almost arbitrary number of connections are multiplexed using TCP port information. The number of simultaneous connections is limited by the number of addresses multiplied by the number of available TCP ports. [LAN IP Address MAC Address](#) Enter the IP address of the SBG941 on your private LAN. [Media Access Control address](#) -- a set of 12 hexadecimal digits assigned during manufacturing that uniquely identifies the hardware address of the SBG941 Access Point. [WAN IP Address](#) The public WAN IP address of your SBG941 device, which is either dynamically or statically assigned by your ISP. [Media Access Control address](#) -- a set of 12 hexadecimal digits assigned during manufacturing that uniquely identifies the hardware address of the SBG941 Access Point. [Describes how long before your Internet connection expires.](#) The WAN lease will automatically renew itself when it expires.

[Displays the exact time and date the WAN lease expires.](#) [Click to release WAN lease.](#)

[Click to renew WAN lease.](#) [DHCP or Static IP.](#) If your ISP uses DHCP, select DHCP and enter a Host Name and Domain name, if required. If your ISP uses static IP addressing, select Static IP and enter the information provided by your ISP for Static IP Address, Static IP Mask, Default Gateway, Primary DNS, and Secondary DNS. If WAN Connection Type is DHCP, enter a Host Name, if required.

If WAN Connection Type is DHCP, enter a Domain Name, if required. [Maximum Transmission Unit \(MTU\)](#) is the largest size packet or frame that can be sent. The default value is suitable for most users. @@Select No to disable the SBG941 DHCP Server. @@The default is 192.

168.0.2. @@There are 245 possible client addresses. The default is 245. @@@@Enter your DynDNS user name. Enter your DynDNS password. Enter your DDNS host name. [Lists IP information.](#) @@@@2.

@@@2. @@Select Enable to turn on this option. @@Select Enable to turn on this option. @@Select Enable to turn on this option. Allows remote access to the SBG941 Configuration Manager. @@Select Enable to turn on this option. @@Select Enable to turn on this option. @@@@Select Enable to turn on this option. @@Select Enable to turn on this option. @@To enable this feature, your cable operator may need to provide additional public IP addresses.

[IPsec PassThrough PPTP PassThrough Remote Config Management Multicast Enable UPnP Enable Rg PassThrough PassThrough Mac Addresses](#) When done, click Apply to save your changes. [Advanced Pages](#) · [Advanced Options Page](#) Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · [User Guide 570280-001-a 32 B Advanced IP Filtering Page](#) This page allows you to define which local PCs will be denied access to the SBG941 WAN. You can configure IP address filters to block Internet traffic to specific network devices on the LAN by entering starting and ending IP address ranges. Note: Only enter the LSB (Least-significant byte) of the IP address; the upper bytes of the IP address are set automatically from the IP address for the SBG941 Configuration Manager. [Field Descriptions for the Advanced IP Filtering Page](#) [Field Start Address Description](#) Enter the starting IP address range of the computers for which you want to deny access to the SBG941 WAN.

Only enter the least significant byte of the IP address. Enter the ending IP address range of the computers you want to deny access to the SBG941 WAN. Only enter the least significant byte of the IP address. [Activates the IP address filter, when selected.](#) [Select Enabled for each range of IP addresses you want to deny access to the SBG941 WAN.](#)

[End Address Enabled](#) When done, click Apply to activate and save your settings. [Advanced Pages](#) · [Advanced IP Filtering Page](#) Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · [User Guide 570280-001-a 33 B Advanced MAC Filtering Page](#) This page allows you to define up to twenty Media Access Control (MAC) address filters to prevent PCs from sending outgoing TCP/UDP traffic to the WAN via their MAC addresses. This is useful because the MAC address of a specific NIC card never changes, unlike its IP address, which can be assigned via the DHCP server or hard-coded to various addresses over time. [Field Descriptions for the Advanced MAC Filtering Page](#) [Field MAC Addresses Description](#) Media Access Control address -- a unique set of 12 hexadecimal digits assigned to a PC during manufacturing. [Setting a MAC Address Filter 1.](#) Enter the MAC address in the MAC Addresses field for the PC you want to block. 2. [Click Add MAC Address.](#) 3. [Repeat above steps for up to twenty MAC addresses.](#)

[Advanced Pages](#) · [Advanced MAC Filtering Page](#) Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · [User Guide 570280-001-a 34 B Advanced Port Filtering Page](#) This page allows you to define port filters to prevent all devices from sending outgoing TCP/UDP traffic to the WAN on specific IP port numbers. By specifying a starting and ending port range, you can determine what TCP/UDP traffic is allowed out to the WAN on a per-port basis. Note: The specified port ranges are blocked for ALL PCs, and this setting is not IP address or MAC address specific. For example, to block all PCs on the private LAN from accessing HTTP sites (or "web surfing"), set the "Start Port" to 80, "End Port" to 80, "Protocol" to TCP, select Enabled, and then click Apply. [Field Descriptions for the Advanced Port Filtering Page](#) [Field Start Port End Port Protocol Enabled Description](#) Enter the starting port number. Enter the ending port number. Select TCP, UDP, or Both from the drop-down list. Select for each port that you want to activate the IP port filters. [Advanced Pages](#) · [Advanced Port Filtering Page](#) Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · [User Guide 570280-001-a 35 B Advanced Port Forwarding Page](#) This page allows you to run a publicly accessible server on the LAN by specifying the mapping of TCP/UDP ports to a local PC.



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This enables incoming requests on specific port numbers to reach web servers, FTP servers, mail servers, etc. so that they can be accessible from the public Internet. A table of commonly used Port numbers is also displayed on the page for your convenience. The ports used by some common applications are: HTTP: 80 FTP: 20, 21 Secure Shell: 22 Telnet: 23 SMTP e-mail: 25 SNMP: 161 To map a port, you must enter the range of port numbers that should be forwarded locally and the IP address to which traffic to those ports should be sent. If only a single port specification is desired, enter the same port number in the "start" and "end" locations for that IP address. *Advanced Pages · Advanced Port Forwarding Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 36 B Advanced Port Triggers Page* This page allows you to configure dynamic triggers to specific devices on the LAN.

This allows for special applications that require specific port numbers with bi-directional traffic to function properly. Applications such as video conferencing, gaming, and some messaging program features may require these special settings. The Advanced Port Triggers are similar to Advanced Port Forwarding except that they are not static ports held open all the time. When the Configuration Manager detects outgoing data on a specific IP port number set in the "Trigger Range," the resulting ports set in the "Target Range" are opened for incoming (sometimes referred to as bi-directional ports) data. If no outgoing traffic is detected on the "Trigger Range" ports for 10 minutes, the "Target Range" ports will close.

This is a safer method for opening specific ports for special applications (e.g. video conferencing programs, interactive gaming, file transfer in chat programs, etc.) because they are dynamically triggered and not held open constantly or erroneously left open via the router administrator and exposed for potential hackers to discover. *Field Descriptions for the Advanced Port Triggers Page* Field Trigger Range Start Port Description The starting port number of the Port Trigger range. *Advanced Pages · Advanced Port Triggers Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 37 B End Port* The ending port number of the Port Trigger range. Target Range Start Port End Port Protocol Enable The starting port number of the Port Trigger range. The ending port number of the Port Trigger range. Select TCP, UDP, or Both from the drop-down list. Select to activate the IP port triggers.

Advanced DMZ Host Page This page allows you to specify the default recipient of WAN traffic that NAT is unable to translate to a known local PC. The DMZ (De-militarized Zone) hosting (also commonly referred to as "Exposed Host") can also be described as a computer or small sub-network that is located outside the firewall between the trusted internal private LAN and the untrusted public Internet. It prevents direct access by outside users to private data. For example, you can set up a web server on a DMZ computer to enable outside users to access your website without exposing confidential data on your network.

A DMZ can also be useful to play interactive games that may have a problem running through a firewall. You can leave a computer used for gaming only exposed to the Internet while protecting the rest of your network. For more information, see *Gaming Configuration Guidelines. Setting Up the DMZ Host 1.*

Enter the computer's IP address. 2.

Click Apply to activate the selected computer as the DMZ host. *Advanced Pages · Advanced DMZ Host Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 38 B Advanced Routing Information Protocol Setup Page* This page allows you to configure Routing Information Protocol (RIP) parameters related to authentication, destination IP address/subnet mask, and reporting intervals. RIP automatically identifies and uses the best known and quickest route to any given destination address. To help reduce network congestion and delays, the Advanced RIP setup is used in WAN networks to identify and use the best known and quickest route to given destination addresses. RIP is a protocol that requires negotiation from both sides of the network (i.

e., CMRG and CMTS). The ISP would normally set this up to match their CMTS settings with the configuration in the CMRG. Note: RIP messaging will only be sent upstream when running in Static IP Addressing mode on the Basic Setup page. You must enable Static IP Addressing and then set the WAN IP network information! *Field Descriptions for the Advanced RIP Setup Page* Field RIP Enable Description Enables or disables the RIP protocol.

This protocol helps the router dynamically adapt to the changes in the network. RIP is obsolete since newer routing protocols, such as OSPF and ISIS, have been introduced. If enabled, a plain text password or a shared key authentication is added to the RIP packet in order for the CPE and the wireless router to authenticate each other. *RIP Authentication Advanced Pages · Advanced Routing Information Protocol Setup Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 39 B RIP Authentication Key* Used to encrypt the plain text password that is enclosed in each RIP packet. If you are using the shared key authentication in RIP, you will need to provide a key. An unsigned 8-bit field in the RIP packet. This field identifies the key used to create the authentication data for the RIP packet, and it also indicates the authentication algorithm. Determines how long before a RIP packet is sent to the CPE. Location where the RIP packet is sent to update the routing table in your CPE. Specifies which CPE you want to receive the RIP packet.

RIP Authentication Key ID RIP Reporting Interval RIP Destination IP Address RIP Destination IP Subnet Mask Advanced Pages · Advanced Routing Information Protocol Setup Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 40 B 8 Firewall Pages The SBG941 Firewall Pages allow you to configure the SBG941 firewall filters and firewall alert notifications. The SBG941 firewall protects the SBG941 LAN from undesired attacks and other intrusions from the Internet. It provides an advanced, integrated stateful-inspection firewall supporting intrusion detection, session tracking, and denial-of-service attack prevention. The firewall: . . . Maintains state data for every TCP/IP session on the OSI network and transport layers. Monitors all incoming and outgoing packets, applies the firewall policy to each one, and screens for improper packets and intrusion attempts. Provides comprehensive logging for all: User authentications Rejected internal and external connection requests Session creation and termination Outside attacks (intrusion detection) You can configure the firewall filters to set rules for port usage.



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For information about choosing a predefined firewall policy template, see the Firewall Pages. You can click any Firewall submenu option to view or change the firewall configuration information for that option. For information about how the firewall can affect gaming, see Gaming Configuration Guidelines. The predefined policies provide outbound Internet access for computers on the SBG941 LAN.

The SBG941 firewall uses stateful-inspection to allow inbound responses when there already is an outbound session running that corresponds to the data flow. For example, if you use a web browser, outbound HTTP connections are permitted on port 80. Inbound responses from the Internet are allowed because an outbound session is established. When required, you can configure the SBG941 firewall to allow inbound packets without first establishing an outbound session. You also need to configure a port forwarding entry on the Advanced Port Forwarding Page or a DMZ client on the Advanced DMZ Host Page. Firewall Pages · Advanced Routing Information Protocol Setup Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 41 B Firewall Web Content Filter Page This page allows you to configure the firewall by enabling or disabling various Web filters related to blocking or exclusively allowing different types of data through the Configuration Manager from the WAN to the LAN. Java Applets, Cookies, ActiveX controls, popup windows, and Proxies can be blocked from this page. Firewall Protection turns on the Stateful Packet Inspection (SPI) firewall features. Block Fragmented IP packets prevent all fragmented IP packets from passing through the firewall. Port Scan Detection detects and blocks port scan activity originating on both the LAN and WAN.

IP Flood Detection detects and blocks packet floods originating on both the LAN and WAN. Select each Web filter you want to enable for the firewall and then click Apply. The Web filters activate without having to reboot the SBG941 Configuration Manager. Note: At least one Web filter or feature must be enabled for the firewall to be active. Make sure the firewall is not disabled. Firewall Pages · Firewall Web Content Filter Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 42 B Firewall Local Log Page This page allows you to set up how to send notification of the firewall event log in either of the following formats: · Individual e-mail alerts sent out automatically each time the firewall is under attack Local log is stored within the modem and displayed in table form on the Local Log page Field Descriptions for the Firewall Local Log Page Field Contact Email Address SMTP Server Name Description Your email address. Name of the e-mail (Simple Mail Transfer Protocol) server. The firewall page needs your email server name to send a firewall log to your email address. You can obtain the SMTP server name from your Internet service provider. Enable or disable e-mailing firewall alerts.

E-mail Alerts Firewall Pages · Firewall Local Log Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 43 B Firewall Remote Log Page This page allows you to send firewall attack reports out to a standard SysLog server so many instances can be logged over a long period of time. You can select individual attack or configuration items to send to the SysLog server so that only the items of interest will be monitored. You can log permitted connections, blocked connections, known Internet attack types, and CMRG configuration events. The SysLog server must be on the same network as the Private LAN behind the Configuration Manager (typically 192.168.0.x). To activate the SysLog monitoring feature, check all desired event types to monitor and enter the last byte of the IP address of the SysLog server. Normally, the IP address of this SysLog server is hard-coded so that the address always agrees with the entry on this page. Field Description for the Firewall Remote Log Page Field Permitted Connections Blocked Connections Known Internet Attacks Product Configuration Events To SysLog server at 192.

168.0. Description Select for the server to e-mail you logs of who is connecting to your network. Select for the server to e-mail you logs of who is blocked from connecting to your network. Select for the server to e-mail you logs of known Internet attacks against your network.

Select for the server to e-mail you logs of the basic product configuration events logs. Enter the last digits from 10 to 254 of your SysLog server's IP address. When done, click Apply. Firewall Pages · Firewall Remote Log Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 44 B 9 Parental Control Pages The SBG941 Parental Control Pages allow you to configure access restrictions to a specific device connected to the SBG941 LAN. You can click any Parental Control submenu option to view or change the configuration information for that option.

Parental Control User Setup Page Each user is linked to a specified time access rule, content filtering rule, and login password to get to the filtered content. You may also specify a user as a "trusted user," which means that person will have access to all Internet content regardless of the filters that you define. You can use the Trusted User checkbox as a simple override to grant a user full access, while storing all of the filtering settings for easy availability. You can also enable Internet session duration timers, which set a limited amount of time for Internet access from the rules you select. Each user must enter their password the first time to access the Internet. In addition, there is a password inactivity timer. If there is no Internet access for the specified time in minutes, the user must login again. Parental Control Pages · Parental Control User Setup Page Motorola SURFboard SBG941 Series Wireless Cable Modem Gateways · User Guide 570280-001-a 45 B Field Descriptions for the Parental Control User Setup Page Field Add User User Settings Description Adds a user to set the parental controls for a specific user. Select the user for whom you want to modify access restrictions. Select Enable to select the user.

Click Remove User to delete the user from Parental Controls. Enter a user password to log onto the Internet. Enter the password again for confirmation. The selected user will have full access to Internet content, thus overriding any set filters. Select Enable to override set filters without having to turn off filter settings. Used to specify which websites a selected user is allowed to access. Select White List Access Only and choose a user from the drop-down list. You can choose a rule that restricts when a selected user can use the Internet. You can set the amount of time a selected user can use the Internet.



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