

April 2007

DDR2200 Series Residential Gateway Installation and Operation Guide DRAFT 4-12-2007

Overview

Introduction

Imagine walking through your home and accessing the Internet from nearly any room. The DDR2200 series residential gateway connects to the DSL network in your home to deliver data, voice, and wired (Ethernet) or wireless gateway capabilities all from one device. You can use your residential gateway to connect to a variety of devices in the home or small office. The residential gateway supports high speed data access, VoIP services, and features that support Internet Protocol TV (IPTV) deployment.

Benefits and Features

Your residential gateway offers the following benefits and features:

- Full routing functionality. The gateway router provides the fastest data transfer speeds available between the network and the Internet for multi-user sharing. The high-performance router distributes data seamlessly to all devices in the network without a noticeable effect to performance or speed.
- True firewall capability. The gateway firewall includes both standard NAT/PAT security and Stateful Packet inspection to defend against Internet service attacks.
- High quality data, voice, and IPTV services. The gateway combines an ADSL2+ bonded modern, 4 port Ethernet switch, HPNA 3.0 bridge and router functionality with optional VOIP and WiFi into one integrated platform.

Overview

- Compact design. The gateway is compact enough to sit on a desktop and versatile enough to be wall mounted in an out of the way location. The residential gateway can also stand vertically. When placed on a desktop, the unit will allow a telephone or wireless telephone base station to be placed on top of the gateway to conserve space.
- Flexible networking. The gateway combines a variety of home networking technologies in one box: Ethernet, USB, 802,11g wireless, and HPNA.
- Ethernet. Ethernet is a network standard for data transmission using either coaxial or twisted pair cable over a LAN (local area network). The information can be transmitted at speeds of 10 to 100 Mbps. If the home or office is wired for Ethernet, use one of the four LAN interfaces on the gateway to create a broadband network.
- USB. The USB port allows you to directly connect a computer or other network capable device.
- 802.11g Wireless. The gateway includes an integrated wireless access point that allows you to roam wirelessly throughout your home or office. With the highpower wireless technology of the DDR2200, wireless "coldspots" are virtually eliminated in the home.
- HPNA. The HPNA interface allows you to easily share digital services throughout the home using the existing coaxial cable to distribute content such as video, music, and games. HPNA offers the following benefits:
 - Mutli-room DVR, Subscribes can record and share digital services simultaneously in every room.
 - Multi-room gaming. Subscribers can access games from various locations in the home and play simultaneously
 - PC to TV. Subscribers can access data and video services over the HPNA coaxial network throughout the home
- ADSL2+. Asymmetric Digital Subscriber Line (ADSL) provides high access transmission speeds for delivery of video, voice, and data services to homes over ordinary copper telephone wire.

Purpose

This document provides the information you need to install and operate the DDR2200 series residential gateway.

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Overview

Audience

This document is written for subscribers who have purchased a residential gateway and want to experience high-speed Internet and high-quality digital telephone service. Some of the screens in this document reflect more advanced functionality of the residential gateway that subscribers will not be interested in. The installers will use these advanced screens when they initially set up the residential gateway.

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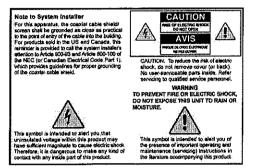
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IMPORTANT SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

Notice to Installers

The servicing instructions in this notice are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions, unless you are qualified to do so.



20070112 Systemateller 600 English

Notice?I ttention des installateurs de r廥eaux c槆廥

Les instructions relatives aux interventions d'entretien, fournies dans la primente notice, s'adressent exclusivement au personnel technique qualifié. Pour réduire les risques de chocs électriques, n'effectuer aucune intervention autre que celles diffrites dans le mode d'emploi et les instructions relatives au fonctionnement, 7 moins que vous ne soyez qualifi? pour ce faire.



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IMPORTANT SAFETY INSTRUCTIONS

Mitteilung f CATV-Techniker

Die in dieser Mitteilung aufgef rten Wartungsanweisungen sind ausschlie新ch f qualifiziertes Fachpersonal bestimmt. Um die Gefahr eines elektrischen Schlags zu reduzieren, sollten Sie keine Wartungsarbeiten durchf ren, die nicht ausdr klich in der Bedienungsanleitung aufgef rt sind, au

Mitteilung an den Systemtechniker

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Dieses Symbol weist den Banutzer auf das Vorhandensein von nicht isolerten gefährlichen Spannungen im Gerät hin, die Stromschläge verursachen Können. Ein Köntak imit den internen Tellen dieses Produktes ist mit Gefahren vertunden.



ACHTUNG: Zur Vermeidung eines Stromschlags dar die Abdackung (bzw. die Gerätertockwand) nicht entfenil werden. Das Gerät entitielt keine vom Benutze wartbaren Teile. Wertungsarbeilen dürfen nur von qualifizieren Fachpersonal durchgeführt werden.

WARNING
DAS GERÄT NICHT REGEN ODER FEUCHTIGKEIT
AUSSETZEN, UM STROMSCHLAG DOER DURCH EINEN
KURZSCHUSS VERKRACHTER BRAND ZU VERMEIDEN.



Dieses Symbol weist den Benützer derauf hin, dass die mit die sem Produkt gelieferte Dokumentation wichige Bathebs- und Wertungsarweisungen für das Gemi enfalt.

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Aviso a los instaladores de sistemas CATV

Las instrucciones de reparaci鍵 contenidas en el presente aviso son para uso exclusivo por parte de personal de mantenimiento cualificado. Con el fin de reducir el riesgo de descarga el興trica, no realice ninguna otra operaci鍵 de reparaci鍵 distinta a las contenidas en las instrucciones de funcionamiento, a menos que posea la cualificaci鍵 necesaria para hacerlo.

Note para el instalador del sistema

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Esia símbolo tiene como firi advertitis de que una tensida sin aislamiento en el interior de este producto podris es rde una megnitud sufficiente como para provocar una descargos electrica. Por consiguiente, resulta pelig



ATENCION: con el fin de reducir el riespo de descarge sistricia, no rellire le lapa (ni la partie posterior). No espiratore no finteiror componentes que puedán se reparados por el usuario. Encargue su ravisión a personal de mantesimiento caraficación.

ADVERTENCIA.
PARA EVITAR EL RIESGO DE HICENDIO O DESCARGA
ELÉCTRICA, NO EXPONGA LA UNIDAD A LA LLUVIA O
A LA HUMERODA.



Este simbolo liene como fin alertarle de la presencia de importantes: instrucciones de operación y mantenemiento (revisión) contendas en le literatura que acompaña al producto.

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IMPORTANT SAFETY INSTRUCTIONS

Read These Instructions

Keep These Instructions

Heed All Warnings

Follow All Instructions

Power Source Warning

A label on this product indicates the correct power source for this product. Operate this product only from an electrical outlet with the voltage and frequency indicated on the product label. If you are uncertain of the type of power supply to your home or business, consult your service provider or your local power company.

Ground the Product



WARNING:

Avoid electric shock and fire hazard! Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

If this product connects to coaxial cable wiring, be sure the cable system is grounded (earthed). Grounding provides some protection against voltage surges and built-up static charges.

Protect the Product from Lightning

For added protection, unplug this apparatus during lightning storms or when unused for long periods of time. In addition to disconnecting the AC power from the wall outlet, disconnect the signal inputs.

Verify the Power Source from the On/Off Power Light

When the on/off power light is not illuminated, the apparatus may still be connected to the power source. The light goes out when the apparatus is turned off, regardless of whether it is still plugged into an AC power source.

Eliminate AC Mains Overloads



WARNING:

Avoid electric shock and fire hazard! Do not overload AC mains, outlets, extension cords, or integral convenience receptacles. For products that require battery power or other power sources to operate them, refer to the operating instructions for those, products.

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IMPORTANT SAFETY INSTRUCTIONS

Prevent Power Cord Damage

Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where the cord exits from the apparatus.

Provide Ventilation and Select a Location

- Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- Do not place this apparatus on a bed, sofa, rug, or similar surface.
- Do not place this apparatus on an unstable surface.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not install this apparatus in an enclosure, such as a bookcase or rack, unless the installation provides proper ventilation.
- Do not place entertainment devices (such as VCRs or DVDs), lamps, books, vases with liquids, or other objects on top of this product.

Protect from Exposure to Moisture and Foreign Objects

Do not use this apparatus near water.



WARNING:

Avoid electric shock and fire hazard! Do not expose this product to liquids, rain, or moisture.



WARNING:

Avoid electric shock and fire hazard! Unplug this product before cleaning, Clean only with a dry cloth. Do not use a liquid cleaner or an aerosol cleaner. Do not use a magnetic/static cleaning device (dust remover) to clean this product.



WARNING:

Avoid electric shock and fire hazard! Never push objects through the openings in this product. Foreign objects can cause electrical shorts that can result in electric shock or fire.

Accessories Warning



WARNING:

Avoid electric shock and fire hazard! Only use attachments/accessories specified by your service provider or the manufacturer.

IMPORTANT SAFETY INSTRUCTIONS

Service Warnings



WARNING:

Avoid electric shock! Do not open the cover of this product. Opening or removing the cover may expose you to dangerous voltages. If you open the cover, your warranty will be void. This product contains no user-serviceable parts. Refer all servicing to qualified service personnel.

Servicing is required when the apparatus has been damaged in any way, such as a power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Check Product Safety

Upon completion of any service or repairs to this product, the service technician must perform safety checks to determine that this product is in proper operating condition.

Protect the Product when Moving It

Always disconnect the power source when moving the apparatus or connecting or disconnecting



WARNING:

Avoid personal injury and damage to this product! Use only with the cart, stand, tripod, bracket, or table specified by the manufacture or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

20070330 Modem DS

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FCC Compliance

FCC Compliance

United States FCC Compliance

This device 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 such interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the cable company or an experienced radio/television technician for help.

Any changes or modifications not expressly approved by Scientific-Atlanta, Inc., could void the user's authority to operate the equipment.

The information shown in the FCC Declaration of Conformity paragraph below is a requirement of the FCC and is intended to supply you with information regarding the FCC approval of this device. The phone numbers listed are for FCC-related questions only and not intended for questions regarding the connection or operation for this device. Please contact your cable service provider for any questions you may have regarding the operation or installation of this device.

FC Declaration of Conformity

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

DDR2200 Residential Gateway Model: DDR2200 Manufactured by: Scientific-Atlanta, Inc. 5030 Sugarloaf Parkway Lawrenceville, Georgia 30044 USA Telephone: 770-236-1077

Canada EMI Regulation

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

Cet appareil num mique de la class B est conforme ? la norme NMB-003 du Canada.

20060626 FCC Standard

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FCC Compliance

IMPORTANT NOTE

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 20cm between the radiator & your body.

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 destination. The firmware setting is not accessible by the end user.

Industry Canada Statement:

This device complies with RSS-210 of the Industry Canada 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.

IMPORTANT NOTE

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 20cm between the radiator & your body.

European Union Notice:

Radio products with the CE marking comply with the R&TTE Directive (1999/5/EC), the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN 60950-1 Information Technology Equipment Safety
- EN 300 328 Technical requirement for radio equipment
- EN 301 489-1/-17 General EMC requirements for radio equipment

Installation Requirements

Before you install your residential gateway, review the package contents that came with your device to ensure that you have all the available items as shown here.

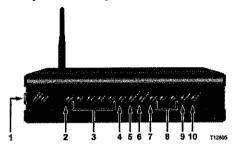
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What's On the Front Panel?

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What's On the Front Panel?

The front panel of your residential gateway provides LED status indicators that indicate the operational state of your gateway. Refer to the following diagram for a description of the front panel.



- 1 wifi-sec Allows you to automatically configure the wireless device in the home. The WIRELESS SECURITY SETUP LED shows whether automatic wireless security is on or off
- 2 POWER -- Illuminates solid green to indicate that AC power is being applied to the residential gateway
- 3 LAN1 LAN4 Illuminates solid green to indicate that an Ethernet carrier is present and blinks to indicate that Ethernet data is being transferred between the PC and the residential gateway
- 4 USB/PC—Illuminates solid green to indicate that a USB carrier is present and blinks to indicate that USB data is being transferred between the PC and the residential gateway
- 5 USB/DEVICE Illuminates solid green to indicate that a USB carrier is present and blinks to indicate that USB data is being transferred between the connected USB device and the residential gateway
- 6 WIRELESS Illuminates solid green when the wireless access point is enabled and operational and blinks to indicate that wireless data is being transferred between the PC and the residential gateway. The LED is off when the wireless access point is disabled by the user
- 7 HPNA Indicates HPNA synchronization and activity. Illuminates solid when synchronized and blinks when HPNA activity occurs
- 8 TEL 1 and TEL 2—TEL 1 illuminates solid green when telephony service is enabled. Blinks when line 1 is in use TEL2 illuminates solid green when telephony service is enabled. Blinks when line 2 is in use

What's On the Front Panel?

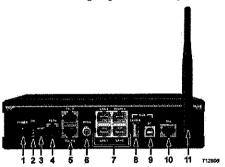
- 9 DSL—Indicates whether a DSL signal is acquired (or trained). The LED indicators mean the following status:
 - Off. Not trained.
 - Blinking. In training.
 - Solid, Trained.
- 10 INTERNET -- Indicates wide area network (WAN) traffic. The LED indicators mean the following status:
 - · Solid. IP is connected.
 - Blinking. WAN interface has activity
 - Off. No Internet connection

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What's On the Back Panel?

What's On the Back Panel?

Refer to the following diagram for a description of the back panel components.



Important! Do not connect your PC to both the Ethernet and USB ports at the same time. Your modem will not function properly if both the Ethernet and USB ports are connected to your PC at the same time.

- 1 POWER Connects the residential gateway to the AC power plug that is provided with your residential gateway
- 2 On and Off Switch-Powers the residential gateway on and off
- 3 RESET Activating this switch resets the residential gateway. Pressing this switch for more than 10 seconds resets the device to factory default values and resets the residential gateway
- 4 PSTN -- Connects to the home telephone wiring and is used as a backup to voice over IP (VOIP) service in the event of a power outage to the residential gateway
- 5 TEL 1 and TEL 2—RJ-11 telephone ports connect to home telephone wiring to conventional telephones or fax machines
- 6 HPNA—Connects to the coaxial cable wiring in the house for data and video distribution
- 7 LAN 1-LAN 3 W/LAN 4 Four RJ-45 Ethernet ports connect as follows:
 - LAN 1 through 3 connect to the Ethernet port on your PC or your home network
 - W/LAN 4 connects to the Ethernet port on your PC if used as a LAN port or
 optionally as an Ethernet wide area network (WAN) port that connects to the
 service provider network
- 8 USB Device 12 Mbps USB port connects to the USB port on your device such as a hard drive or digital camera

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What's On the Back Panel?

- 9 USB PC-12 Mbps USB port connects to the USB port on your PC
- 10 DSL-RJ-11 port connects to the DSL line from the telephone service provider
- 11 ANTENNA Receives and transmits data packets to wireless devices

Connecting the Computer to the Gateway

Connecting the Computer to the Gateway

Choose a Connection Type for the Computer

You can connect a computer to the gateway using one of the following methods:

- Ethernet Connection
- Wireless Connection
- USB Connection

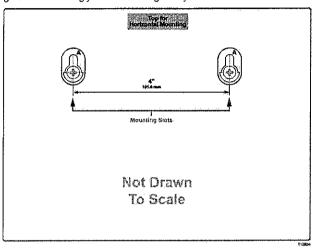
Use Proper Care When Installing the Residential Gateway in a Vertical Position

Some installations may require that you place the residential gateway in a vertical position. Be sure that the housing of the residential gateway is vertical and that the stand is extended as shown in the following illustration:



Mounting the Residential Gateway to the Wall

The following illustration shows the location and dimensions of the wall-mounting slots on the bottom of the residential gateway. Use the information on this page as a guide for mounting your residential gateway to the wall.

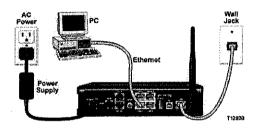


Connecting the Computer to the Gateway

Connecting the Computer with an Ethernet Connection

Complete these steps to connect the computer with an Ethernet connection.

- 1 Connect the power adapter that came with the residential gateway to the POWER port on the residential gateway and to an electrical outlet.
- 2 Power on the residential gateway. After the residential gateway has completed its startup process, the POWER LED on the front panel of the residential gateway should be green.
- 3 Connect the Ethernet cable provided with the residential gateway from any available Ethernet port (LAN 1 through LAN 4) on the gateway to the Ethernet port on the computer.
- 4 Connect the gray cable provided with the residential gateway from the DSL port on the gateway to a telephone wall jack. See Connect the DSL Interface for more information.



Connecting the Computer with a Wireless Connection

A wireless connection requires a wireless-enabled notebook or a computer with an 802.11b/g wireless network adapter installed. You can purchase a wireless adapter from your service provider.

Complete these steps to connect the computer with a wireless connection.

- 1 Connect the power adapter that came with the residential gateway to the POWER port on the residential gateway and to to an electrical outlet.
- 2 Power on the residential gateway. After the residential gateway has completed its startup process, the POWER light on the front panel of the residential gateway should be green.
- 3 Connect the gray cable provided with the residential gateway from the DSL port on the residential gateway to a telephone wall jack. See Connect the DSL Interface for more information.
- 4 Install the wireless adapter according to the manufacturer's instructions.

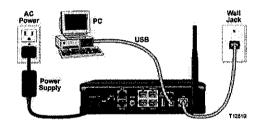


Connecting the Computer to the Gateway

Connecting the Computer with a USB Connection

Complete these steps to connect the computer with a USB connection.

- 1 Connect the power adapter that came with the residential gateway to the POWER port on the residential gateway and to to an electrical outlet.
- 2 Power on the residential gateway. After the residential gateway has completed its startup process, the POWER light on the front panel of the residential gateway should be green.
- 3 Connect the USB cable provided with the residential gateway from the USB PC port on the gateway to the USB port on the computer.
- 4 Connect the gray cable provided with the residential gateway from the DSL port on the gateway to a telephone wall jack. See Connect the DSL Interface for more information.



Connecting the Computer to the Gateway

Install the USB Driver for Windows

Complete these steps to install the USB driver for Windows.

- 1 Insert the setup CD in your computer's CD-ROM drive.
- 2 Power on the computer. If the Add Hardware Wizard displays, follow the onscreen instructions. If you are prompted to identify where to search for drivers, deselect Floppy Disk drive and check CD-ROM drive.
- 3 After the driver is installed, click Finish to complete the driver installation. Note: Microsoft Windows 98 users may be prompted to insert the Windows 98 installation CD-ROM after installing the USB drivers. After the Windows 98 updates are complete, remove the Windows 98 CD and reinsert the Setup Wizard CD into the CD-ROM before rebooting the computer.

Connecting the Computer to the Gateway

Install the USB Driver for Macintosh

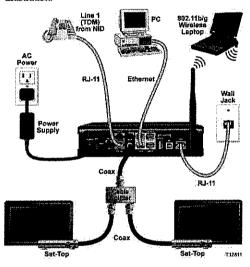
Before you make the USB connection to the gateway, you must install the gateway USB driver on the computer. Complete the following steps to install the USB driver on Macintosh computers running OS. 10.2.

Note: The residential gateway supports USB for Macintosh OS 8.6, 9.2, 10.1.4, 10.1.5, 10.2.0, 10.2.1 to 10.2.6, 10.3.3 to 10.3.9, 10.4.0, and 10.41.

- 1 With the computer powered on and the Setup Wizard CD in the CD-ROM drive, double-click the CD icon on the desktop.
- 2 Double-click the USB to begin the driver installation.
- 3 If you have set up an administrator name and password, the Authenticate screen opens.
- 4 Enter the administrator name and password, and click OK.
- 5 Follow the on-screen instructions. When the driver installation is complete, you will be prompted to restart the computer.
- 6 After the computer restarts, connect the blue USB cable that came with the gateway from the USB-PC port on the gateway to the computer's USB port.

Connecting the DSL Interface

Now that you have connected the gateway to power and you have made the LAN connections, you can connect the DSL interface as shown in the following illustration.



Connecting an IP Set-Top to the Gateway

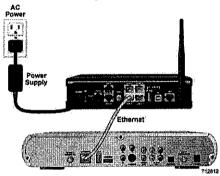
Connecting an IP Set-Top to the Gateway

For IPTV service, you must connect the residential gateway to an IP set-top. You can connect to an IP set-top using an Ethernet or coaxial connection.

Ethernet Connection

Complete the following steps to connect the residential gateway to an IP set-top through Ethernet for IPTV service.

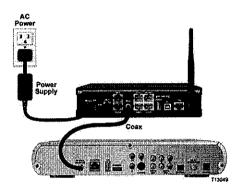
- 1 Ensure that the residential gateway is powered on.
- 2 Connect an Ethernet cable from the Ethernet port (LAN 1 through LAN 4) on the gateway to the Network port on the set-top.
- 3 Power on the IP set-top.



Coaxial Connection

Complete the following steps to connect the residential gateway to an IP set-top with coaxial cable for IPTV service.

- 1 Ensure that the residential gateway is powered on.
- Connect a coaxial cable from the HPNA port on the gateway to the TO WALL (Video In) port on the set-top.
- 3 Power on the IP set-top.



Configuring the DDR2200 Residential Gateway

Configuring the DDR2200 Residential Gateway

The user interface (UI) for the DDR2200 residential gateway contains web pages that show the current status of the residential gateway. The UI also enables advanced users to configure the residential gateway parameters such as DHCP (Dynamic Host Configuration Protocol), wireless network settings, port forwarding, and parental control, and so forth. This section provides information that you can use to configure and interact with the residential gateway through the user interface.

System Summary

The System Summary screen provides a summary of the software used by the residential gateway and indicates the current status of the DSL connection. You can use this screen to find hardware and software information and physical and IP layer information.

Path: System>Summary



Dervicie D160		The page snows summing of devoce information and current status
Model Name	DER 7360.	core it same
Serial Number :	0000-00000	, Netherland section and execute
Manufacturer-	Scientific Adarta	I.
Software Yesher:	1.0	
Hardward Version :	1.0	
MAC Address :	00:10:68:fd:73:ed	
LAN IP Address:	s the current status of your DSL comes don 192-165-1-1	
×	ve	
×	ve	
Default Gateway: Persony DNG Server: Secondary DNG	192.168.14 192.168.14	
LAN IP Address: Default Gaterray: Pennsy Dief Saver: Secondary Dief Saver:	192-165,1-1 192-168,1-1 192-168,1-1	
LAN IP Address: Defect Catering; Perchy DNG Server: Secondary DNG Server: Line Rate - Operant	192-165,1-1 192-168,1-1 192-168,1-1	
LAN IP Address: Default Gaterray: Pennsy Dief Saver: Secondary Dief Saver:	192-165,1-1 192-168,1-1 192-168,1-1	

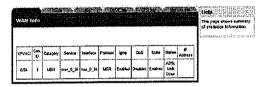
Configuring the DDR2200 Residential Gateway

WAN Information

The WAN Info screen provides information about the ADSL2+ wide area network (WAN) parameters and status. You can use this screen to check the ADSL2+ connection.

Path: System>Details>WAN

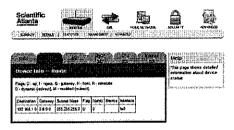




Route Information

The Device Info — Route screen shows the routing table for the residential gateway. This screen provides the gateway address for specific destination IP addresses.

Path: System>Details>Route

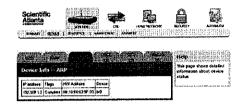


Configuring the DDR2200 Residential Gateway

ARP Information

The ARP Information screen displays the address resolution protocol (ARP) table. This table shows the IP address to MAC address translation.

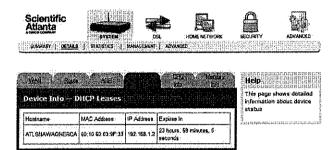
Path: System>Details>ARP



DHCP Leases

The Device Info – DHCP Leases screen displays the Dynamic Host Configuration Protocol (DHCP) table. This screen shows a mapping of services (shown by their MAC addresses) and their assigned IP addresses. The DHCP server for the residential gateway assigns these IP addresses to the devices. The screen also shows when the lease for the IP address expires.

Path: System>Details>LAN DHCP



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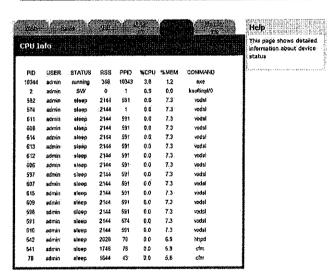
Configuring the DDR2200 Residential Gateway

CPU Information

The CPU Info screen shows detailed information about the active processes running on the residential gateway.

Path: System>Details>CPU Info

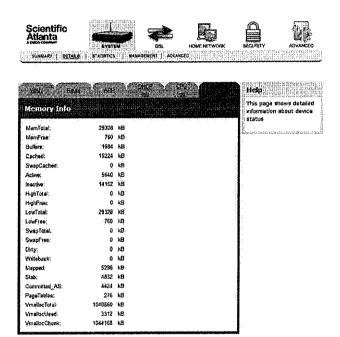




Memory Information

The Memory Info screen shows the detailed memory availability of the residential gateway.

Path: System>Details>Memory Info

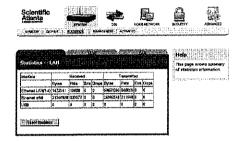


Configuring the DDR2200 Residential Gateway

LAN Statistics

The Statistics — LAN screen displays statistics for the local area network (LAN). This screen shows the number of transmitted and received packets on the LAN interface for Ethernet, USB, and wireless devices.

Path: System>Statistics>LAN



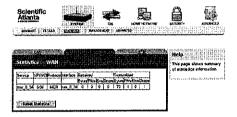
Reset Statistics

To reset the statistics, click **Reset Statistics** on the screen. This action clears the counters and sets them to zero for the packets received and transmitted on the LAN interface.

WAN Statistics

The Statistics – WAN screen displays statistics for the devices and interfaces on the wide area network (WAN). This screen shows the number of transmitted and received packets for the DSL WAN interface.

Path: System>Statistics>WAN



Reset Statistics

To reset the statistics, click **Reset Statistics** on the screen. This action clears the counters and sets them to zero for the packets received and transmitted on the WAN interface.

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Configuring the DDR2200 Residential Gateway

ATM Interface Statistics

The ATM Statistics screen displays statistics on the ATM interface. This screen shows the ATM Layer-2 statistics such as the number of ATM cells transmitted and received over the ATM interface.

Path: System>Statistics>ATM



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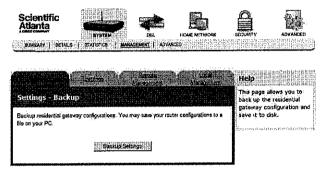
Reset Statistics

To reset the statistics, click Reset on the screen. This action clears the counters and sets them to zero for the packets received and transmitted on the ATM interface.

Settings Backup

The Settings Backup screen allows you to back up the residential gateway configuration and save it to disk.

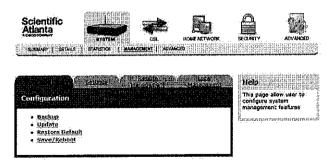
Path: System>Management>Configuration>Backup



Back Up Configuration

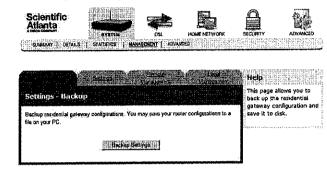
To back up the configuration for the residential gateway, complete the following steps.

- Click System on the main screen.
- 2 Click Management. The Configuration screen opens with the Configuration tab in the forefront.



Configuring the DDR2200 Residential Gateway

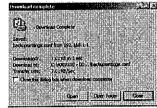
3 Click Backup. The Settings Backup screen opens.



4 Click Backup Settings. The following screen is displayed.



- 5 Click Save. The system prompts you to select a location to store the backup.
- 6 Select a location and type in a file name.
- 7 Click Save to save a backup of the configuration. The system displays a message when the download of the file is complete.

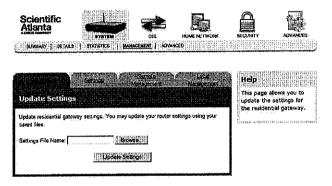


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Update Settings

The Update Settings screen allows you to update the settings for the residential gateway

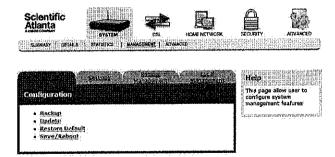
Path: System>Management>Configuration>Update



Updating Configuration Settings

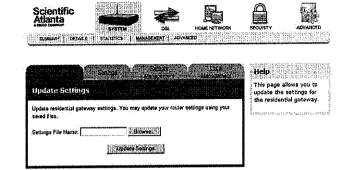
To update the configuration settings for the DDR2200, complete the following steps.

- 1 Click System on the main screen.
- 2 Click Management. The Configuration screen opens with the Configuration tab in the forefront.



Configuring the DDR2200 Residential Gateway

3 Click Update. The Tools Update Settings screen opens.

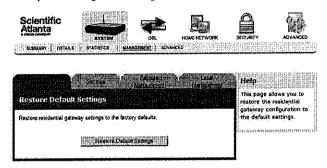


- 4 In the Settings File Name field, enter the name of the configuration file that you want to use to update your settings. You can click Browse to locate the file.
- 5 Click Update Settings to update the configuration of the residential gateway.
- 6 Wait a few minutes while the system reboots the residential gateway. The new configuration takes effect after the residential gateway reboots.

Restore Default Settings

The Restore Default Settings screen allows you to restore the residential gateway configuration to the default settings.

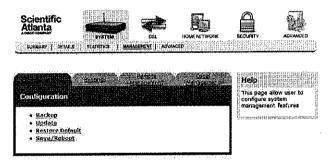
Path: System>Management>Configuration>Restore Default



Restoring the Configuration to the Default Settings

To restore the configuration to the default settings, complete the following steps.

- 1 Click System on the main screen.
- 2 Click Management. The Configuration screen opens with the Configuration tab in the forefront.



Configuring the DDR2200 Residential Gateway

3 Click Restore Default. The Tools Restore Default Settings screen opens.

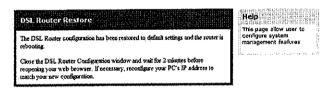




4 Click Restore Default Settings. The system displays the following prompt:



5 Click OK. The system displays the following message:

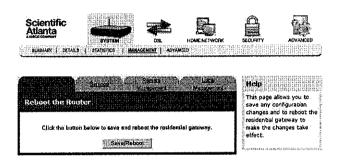


6 Follow the instructions on the the screen to restore the default settings.

Saving the Configuration for the Residential Gateway

The Reboot the Router screen allows you to save any configuration changes and to reboot the router to make the changes take effect.

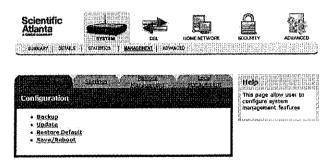
Path: System>Management>Configuration>Restore Default>Save/Reboot



Saving the Configuration and Rebooting the Residential Gateway

To save any configuration changes and to reboot the router to make the changes take effect, complete the following steps.

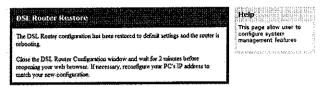
- 1 Click System on the main screen.
- 2 Click Management. The Configuration screen opens with the Configuration tab in the forefront.



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Configuring the DDR2200 Residential Gateway

3 Click Save/Reboot. The system displays the following message:



4 Follow the instructions on the the screen to save the configuration and to reboot the router. The System Summary screen opens when the DDR2200 has finished rebooting. The new settings are displayed.

Time Settings

The Time Settings screen allows you to synchronize the time for the residential gateway with the Internet time.

Path: System>Management>Settings>Internet time

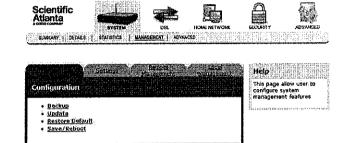
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Configuring the DDR2200 Residential Gateway

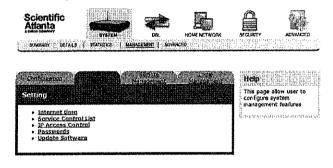
Synchronize with Internet Time

To synchronize the time for the residential gateway with the Internet time, complete the following steps.

- 1 Click System on the main screen.
- 2 Click Management. The Configuration screen opens with the Configuration tab in the forefront.

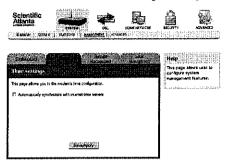


3 Click the Settings tab. The Setting screen opens.

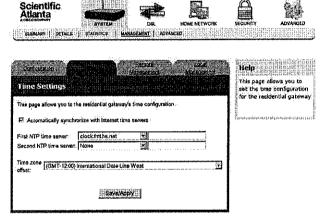


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4 Click Internet time. The Time settings screen opens.



5 Check the box Automatically synchronize with Internet time servers. The Time settings screen opens with populated fields.



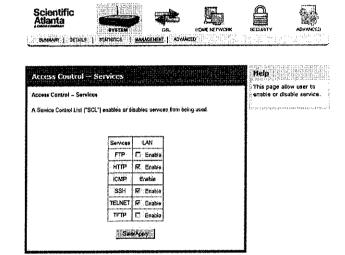
- 6 In the First NTP time server field, select a time server from the pull-down list. If you select Other, enter the name of the server in the blank field.
- 7 In the Second NTP time server field, select a time server from the pull-down list. If you select Other, enter the name of the server in the blank field.
- 8 In the Time zone offset field, select the time zone specific to your area.
- 9 Click Save/Apply.

Configuring the DDR2200 Residential Gateway

Access Control Services

The Accesss Control Services screen allows you to enable or disable services such as FTP, HTTP, ICMP on the residential gateway.

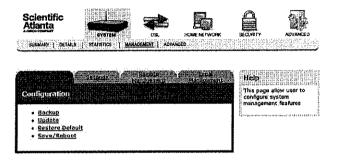
Path: System>Management>Settings>Service Control List



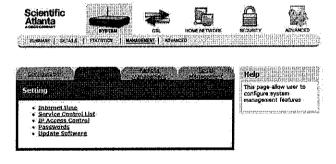
Enabling or Disabling Services

To enable or disable services on the residential gateway, complete the following steps.

- 1 Click System on the main screen.
- Click Management. The Configuration screen opens with the Configuration tab in the forefront.



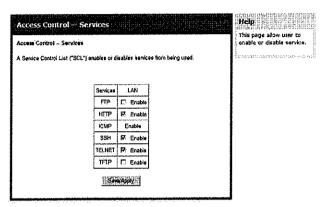
3 Click the Settings tab. The Setting screen opens.



Configuring the DDR2200 Residential Gateway

4 Click Service Control List. The Access Control Services screen opens.



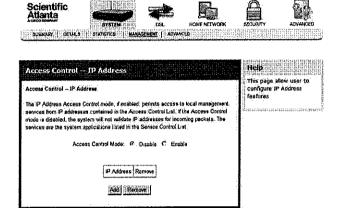


- 5 To enable or disable a service, do the following:
 - To enable a service, select the check box next to the service you want to enable. A check box with a check indicates that the service is enabled.
 - To disable a service, select the check box next to the service you want to disable. A check box without a check indicates that the service is disabled.
- 6 Click Save/Apply to enable or disable the selected services.

IP Access Control

The IP Address Access Control mode, if enabled, permits access to local management services from IP addresses contained in the Access Control List. If the Access Control mode is disabled, the system will not validate IP addresses for incoming packets. The services are the system applications listed in the Service Control List

Path: System>Management>Settings>IP Access Control



Configuring the DDR2200 Residential Gateway

Adding IP Address Access Control

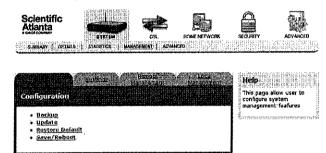
To add IP address access control, complete the following steps.

1 Click System on the main screen. The System Summary screen opens by default.

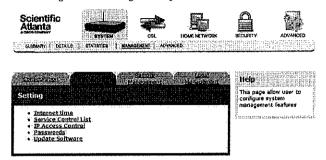




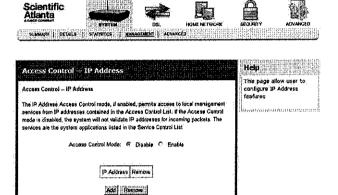
2 Click the Management tab. The Configuration screen opens.



3 Click the Settings tab. The Setting screen opens.

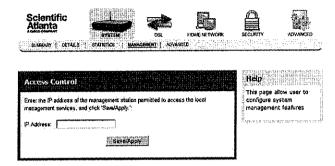


4 Click IP Access Control. The Access Control IP Address screen opens.



Configuring the DDR2200 Residential Gateway

5 Click Add. The Access Control screen opens.



- 6 In the IP Address field, enter the IP address of the management station that you want to allow access to the local management services.
- 7 Click Save/Apply to allow access for the IP address you entered.

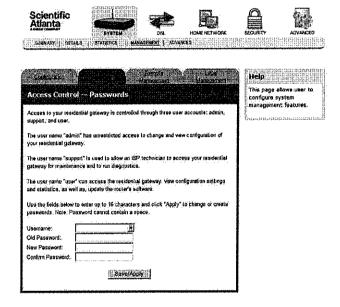
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Password Access to the Residential Gateway

Access to the residential gateway is controlled through three user accounts:

- admin. Allows unrestricted access to change and view the configuration of the residential gateway.
- support. Allows an ISP technician to access your residential gateway for maintenance and to run diagnostics
- user. Allows access to view configuration settings and statistics, as well as, to update the residential gateway's software.

Path: System>Management>Settings>Passwords

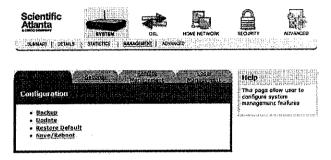


Configuring the DDR2200 Residential Gateway

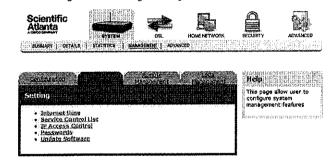
Creating Passwords

To create passwords for the residential gateway, complete the following steps.

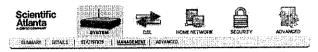
- 1 Click System on the main screen.
- 2 Click Management. The Configuration screen opens with the Configuration tab in the forefront.

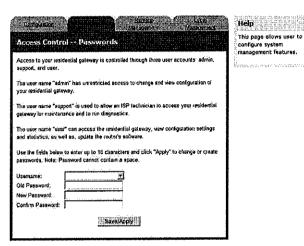


3 Click the Settings tab. The Setting screen opens.



4. Click Passwords. The Access Control Passwords screen opens.





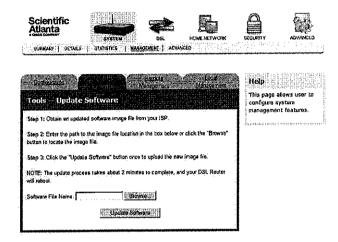
- 5 In the User Name field from the drop-down list, select the type of password you are creating: admin, support, or user.
- 6 In the Old Password field, enter the old password. The maximum character length is 16 characters, and passwords cannot contain a space.
- 7 In the New Password field, enter the new password. The maximum character length is 16 characters, and passwords cannot contain a space.
- 8 In the Confirm Password field, enter the new password again to confirm your entry.
- 9 Click Save/Apply to save the password.

Configuring the DDR2200 Residential Gateway

Software Update for the Residential Gateway

The Update Software screen allows you to update the software for the residential gateway with a new version.

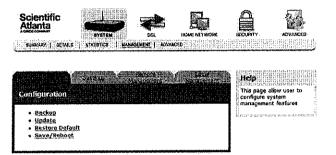
Path: System>Management>Settings>Update Software



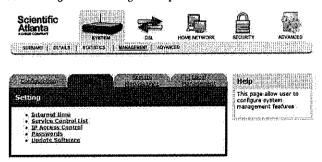
Updating the Software for the Residential Gateway

To update the software for the residential gateway, complete the following steps.

- 1 Click System on the main screen.
- 2 Click Management. The Configuration screen opens with the Configuration tab in the forefront

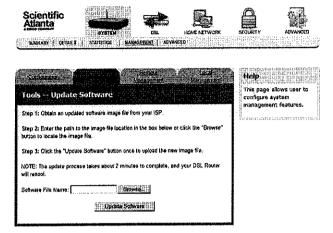


3 Click the Settings tab. The Setting screen opens.



Configuring the DDR2200 Residential Gateway

4 Click Update Software. The Update Software screen opens.



- 5 In the Software File Name field, enter the name of the updated software image that you obtained from your ISP. You can click Browse to locate the file.
- 6 Click Update Software to update the software of your residential gateway with the new version. The residential gateway loads the new software and reboots when the software upload is complete.

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Remote Management TR-069 Client

The WAN Management Protocol Technical Report-069 (TR-069) allows an autoconfiguration server (ACS) to perform auto-configuration, provisioning, collection of statistics, and diagnostics for this residential gateway.

Path: System>Management>Remote Management

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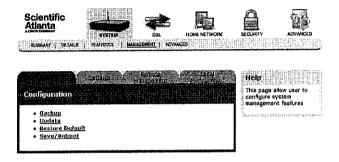
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Configuring the DDR2200 Residential Gateway

Configuring the TR-069 Client Options

For the client embedded in the residential gateway to communicate with the TR-069 server, you must configure the client so that it is recognized by the server.

- 1 Click System on the main screen.
- 2 Click Management. The Configuration screen opens with the Configuration tab in the forefront.



3 Click the Remote Management tab. The Remote Management TR-069 screen opens.

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Remote Management — TR-059 Client This page allows user to configure system **FASTAL Auragement Product TIR-059 Client This page allows user to configure system **Canagement Product TIR-059 client Configure System **Canagement Canagement Canagement Canagement Canagement **Incommon Configure Tir-059 client options **Incommon Canagement Canagement **Incommon Canagement Canagement **Incommon Canagement Canagement **Incommon C						
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Select the desired values and click "Apply" to configure the TR-669 client options tribum. © Disable © Enable Inform Interval: 300 ACS URI: ACS URI Name: Admin Serve Connection Request User Name: 30min Serve Connection Request Passeroid: 80min Serve	SAC (Aleuagement Protonol (116)	-055) allows a Auto	Configeration	Server (ACS) to		
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- 4 In the Inform field, do one of the following:
 - Click Enable to tp enable the periodic "inform" messages from the residential gateway.
 - Click Disable to disable the inform messages to the resdiential gateway.
- 5 In the Inform Interval field, enter frequency that the inform messages are sent from the residential gateway to the autoconfiguration server.
- 6 In the ACS URL field, enter the URL for the autoconfiguration server.
- 7 In the ACS User Name field, enter the user name for autoconfiguration server.
- 8 In the ACS Password field, enter the password for the autoconfiguration server.
- 9 In the Connection Request User Name field, enter the name of the connection request.
- 10 In the Connection Request Password field, enter the password for the connection request.
- 11 Click GetRPCMethods to obtain the list of remote procedural calls (RPC) supported by the autoconfiguration server.
- 12 Click Save/Apply to save the configuration changes.

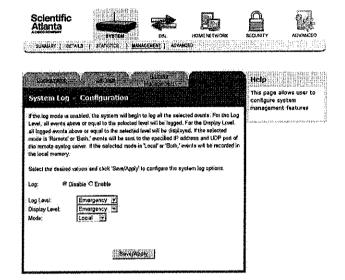
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Configuring the DDR2200 Residential Gateway

System Log Configuration

The System Log Configuration screen allows you to log all the selected events on the residential gateway. For example, a selected event is a failed login.

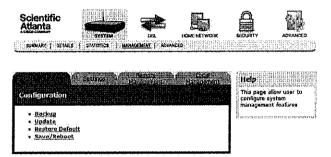
Path: System>Management>Local Management>System Log Configuration



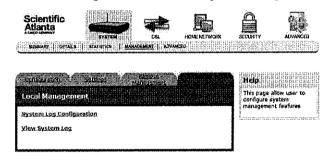
Logging Events

To log selected events, complete the following steps.

- 1 Click System on the main screen.
- 2 Click Management. The Configuration screen opens with the Configuration tab in the forefront.



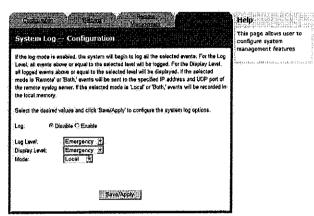
3 Click the Local Management tab. The Local Management screen opens.



Configuring the DDR2200 Residential Gateway

4 Click System Log Configuration. The System Log Configuration screen opens.





- 5 Do you want to enable the logging of events?
 - If yes, in the Log field select Enable.
 - If no, in the Log field, select Disable and click Save/Apply to turn off logging. You have completed this procedure.
- 6 In the Log Level field, select the level of events that you want to log from the following options. All events above or equal to the selected level will be logged.
 - Emergency
 - Alert
 - Critical
 - Error
 - Warning
 - Notice
 - Informational
 - Debugging

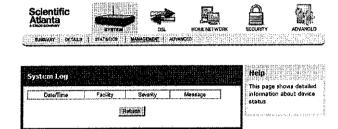
- 7 In the Display Level field, select the level of the logged events that you want to display from the following options. All logged events above or equal to the selected level will be displayed.
 - Emergency
 - Alert
 - Critical
 - Error
 - Warning
 - Notice
 - Informational
 - Debugging
- 8 Select the mode for the logging from the following options. If the selected mode is "remote" or "both," events will be sent to the specified IP address and UDP port of the remote syslog server. If the selected mode is "local" or "both," events will be recorded in the local memory.
 - Local
 - Remote
 - Both
- 9 Click Save/Apply to start logging events.

Configuring the DDR2200 Residential Gateway

Viewing System Logs

The System Log screen allows you to view the logs of activity for the residential

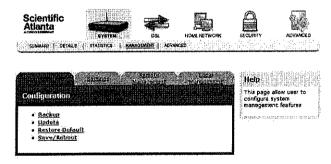
Path: System>Management>Local Management>View System Log



Viewing System Logs

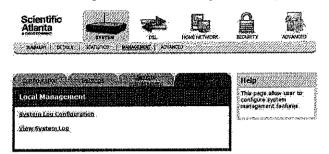
To view the system log for the residential gateway, complete the following steps.

- 1 Click System on the main screen.
- 2 Click Management. The Configuration screen opens with the Configuration tab in the forefront.

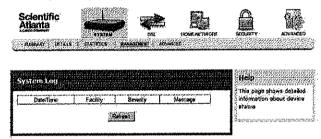


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3 Click the Local Management tab. The Local Management screen opens.



4 Click View System Log. The System Log screen opens.



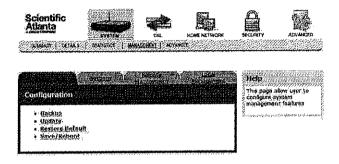
- 5 Review the log entries on the screen.
- 6 Click Refresh to refresh the system log.

Configuring the DDR2200 Residential Gateway

Disabling Logging

To disable the logging function, complete the following steps.

- 1 Click System on the main screen.
- 2 Click Management. The Configuration screen opens with the Configuration tab in the forefront.



3 Click the Local Management tab. The Local Management screen opens.





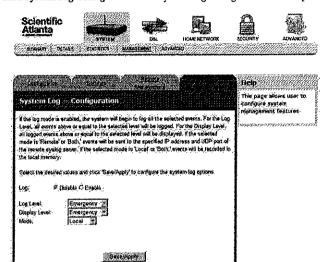




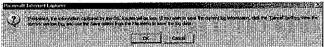


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4 Click System Log Configuration. The System Log Configuration screen opens.



- 5 In the Log field, select Disable.
- 6 Click Save/Apply. The following prompt appears alerting you that you will lose any information captured by the residential gateway:



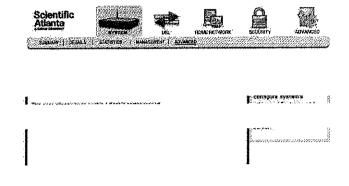
- 7 Are you sure you want to disable logging and lose the captured data?
 - If yes, click OK to turn off logging.
 - If no, click Cancel.

Configuring the DDR2200 Residential Gateway

Printer Server Settings

The Printer Server Settings screen allows you to enable or disable printer support.

Path: System>Advanced



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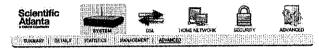
73

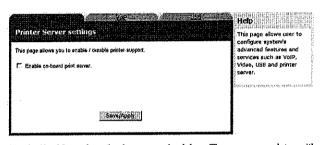
Enabling the Print Server

To enable the print server, complete the following steps.

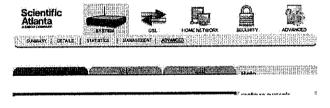
1 Click System on the main screen.

Click the **Advanced** tab. The Printer Server settings screen opens with the Printer Server tab in the forefront.





2 Select the Enable on-board print server check box. The screen populates with more fields.



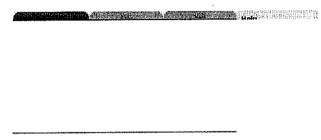
- 3 In the Printer name field, enter the name of the print server you want to enable.
- 4 In the Make and model field, enter the make and model of the printer.
- 5 Click Save/Apply to enable the print server.

Configuring the DDR2200 Residential Gateway

Disabling the Print Server

To disable the print server, complete the following steps.

- 1 Click System on the main screen.
- 2 Click the Advanced tab. The Printer Server settings screen opens with the Printer Server tab in the forefront.



- 3 De-select the Enable on-board print server check box. The screen refreshes and the fields for entering printer name, make, and mode are removed from the screen.
- 4 Click Save/Apply to disable the print server.

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DSL Summary

The DSL Summary screen shows the DSL settings, such as signal to noise ratio and output power and line coding.

Path: DSL>Summary

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ŀ	Attenuation (dB);			1	
1	0 4 1 5 1 45 1	In an		1	

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Configuring the DDR2200 Residential Gateway

DSL Statistics

The DSL Statistics screen displays statistics for devices and interfaces on the ADSL network. This screen shows the details of the physical layer of the DSL line such as the connection rate and signal to noise ratio.

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Path: DSL>Statistics



Testing the Quality of the DSL Connection

The ADSL Bit Error Rate (BER) test determines the quality of the ADSL connection. The test is done by transferring idle cells containing a known pattern and comparing the received data with this known pattern to check for any errors.

To test for quality of the DSL connection, complete the following steps.

1 From the Statistics screen under DSL, click **ADSL BER Test**. The ADSL BER Test Start screen opens.

- 2 In the Tested Time (sec) field, enter the duration of the test in seconds. Values are: 1, 5, 10. 20, 60, 120, 180, or 240 seconds.
- 3 Click Start on the ADSL BER Test Start screen to start the test.

Reset Statistics

To reset the statistics, click **Reset Statistics** on the screen. This action clears the ADSL cell counters and sets them to zero.

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Configuring the DDR2200 Residential Gateway

DSL Diagnostics

The Diagnostics screen shows the results of diagnostics tests that the residential gateway performs. The residential gateway is capable of testing your DSL connection. The individual tests are listed on the Diagnostics screen.

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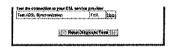
Path: DSL>Diagnostics



Running Diagnostic Tests

To run diagnostic tests for the residential gateway, complete the following steps.

- 1 Click DSL on the main screen.
- 2 Click the Diagnostics tab. The Diagnostics screen opens.



3 If a test displays a fail status, click Rerun Diagnostic Tests to make sure the fail status is consistent. If the test continues to fail, click Help and follow the troubleshooting procedures.

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Configuring the DDR2200 Residential Gateway

DSL Settings

The DSL Settings screen allows you to set the modulation for the residential gateway, select a phone line pair, and to select advanced capability of the chip set: seamless rate adaptation (SRA) and bitswap enable.

Path: DSL>Setting