

DWG875/DWG875T - Wireless Voice Gateway

User manual



CAUTION

Disconnect power before servicing.

This device is intended for indoor operation only. Telephone jacks Line 1 and Line 2 must not be connected to outside wiring.

CAUTION

To ensure reliable operation and to prevent overheating, provide adequate ventilation for this modem and keep it away from heat sources. Do not locate near heat registers or other heat-producing equipment. Provide for free air flow around the Wireless Voice Gateway and its power supply.





This symbol means that your inoperative electronic appliance must be collected separately and not mixed with the household waste. The European Union has implemented a specific collection and recycling system for which producers' are responsible.

This appliance has been designed and manufactured with high quality materials and components that can be recycled and reused. Electrical and electronic appliances are liable to contain parts that are necessary in order for the system to work properly but which can become a health and environmental hazard if they are not handled or disposed of in the proper way. Consequently, please do not throw out your inoperative appliance with the household waste.

If you are the owner of the appliance, you must deposit it at the appropriate local collection point or leave it with the vendor when buying a new appliance.

- If you are a professional user, please follow your supplier's instructions.

- If the appliance is rented to you or left in your care, please contact your service provider. Help us protect the environment in which we live !



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device mat not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Illustrations contained in this document are for representation only.

Federal Communication Commission 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 installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one 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 thatto which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor environment.

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

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.

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NORTH AMERICAN CABLE INSTALLER:

This reminder is provided to call your attention to Article 820.93 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

PacketCable and DOCSIS compliant

The Thomson DWG875/DWG875T is a voice-capable cable modem, which provides broadband Internet access and telephone capability all in one unit! Also referred to as an Embedded Media Terminal Adapter (EMTA), this cable modem connects to cable systems using DOCSIS and PacketCable standards. (Check with your cable operator for compatibility.)

The Thomson DWG875/DWG875T offers a high-speed connection to the Internet using an Ethernet connection.

If you have subscribed to telephone service from your cable operator, you will be able to place regular phone calls using your home phone(s) and/or fax machine. The Thomson DWG875/DWG875T provides two RJ-11 connectors for your phone or home phone system, allowing one or two line service.

Operating Information

Operating Temperature:	0° to 40° C	(32° to 104° F)
Storage Temperature:	-40° to 70° C	(-40° to 158° F)
Humidity:	5% ~ 95% non-co	ondensing

If you purchased this product at a retail outlet, please read the following:

Product Information

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you need them. The numbers are located on the bottom of the product.

Model No.	_Serial No
Purchase Date:	_Dealer/Address/Phone:

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Glossary

Introduction

Wireless Voice Gateway Features

- •High Speed Data Service Solution
- •DOCSIS 3.0 cable modem
- •Giga Ethernet router with 4x Standard RJ-45 connectors for 10/100/1000Mbps. Auto-negotiation and MDIS functions
- •Wi-Fi 802.11b/g/n wireless connection
- •Wireless security: multiple SSID and WPS solution
- •Two RJ-11 Foreign Exchange Station (FXS) ports for phone and fax connections
- •Support simultaneous voice and data communications
- •Two simultaneous voice conversations in the different FXS ports with different CODEC: PCM A-law, PCM-law, G.723.1, G.729, G.729a, G.729e, G.728, G.726, BV16 and BV32
- •Echo Cancellation
- Voice Active Detection (VAD)
- •DTMF detection and generation
- •Comfort Noise Generation (CNG)
- •Support V.90 fax and modem services
- •RSA and 56 bit DES data encryption security
- •SNMP network management support
- •IPv4 and IPv6
- •Advanced security features
- •Support Web pages and private DHCP server for status monitoring
- •Clear LED display
- •Plug and Play

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What's on the CD-ROM

Insert the Wireless Voice Gateway CD-ROM into your CD-ROM drive to view troubleshooting tips, the internal diagnostics, and other valuable information.

CD-ROM Contents:

- •Electronic copy of this user's guide in additional languages (PDF format)
- •Adobe Acrobat Reader application you can load to read PDF format, if you don't have it loaded already
- •Links to Thomson web site

DOCSIS and PacketCable are trademarks of Cable Television Laboratories, Inc.

Computer Requirements

For the best possible performance from your Wireless Voice Gateway, your personal computer must meet the following minimum system requirements (note that the minimum requirements may vary by cable companies):

	IBM PC COMPATIBLE	MACINTOSH**
CPU	Pentium preferred	PowerPC or higher
System RAM	16MB (32MB preferred)	24MB (32MB preferred)
Operating System	Windows* NT / 2000 / Me / XP /	Mac OS** 7.6.1 or higher
	Vista / Windows 7, Linux	
Sound Card	Required for audio on CD-ROM	N/A
Video	VGA or better (SVGA preferred)	VGA or better (SVGA built-in preferred)
CD-ROM Drive	Required	Required
Ethernet	10BaseT, 100BaseT or 1000Mbps	10BaseT, 100BaseT or 1000Mbps
	An Ethernet card makes it possible	for your computer to pass data to and from
	the internet. You must have an Ethe	ernet card and software drivers installed in
	your computer. You will also need a	a standard Ethernet cable to connect the
	Ethernet card to your Wireless Voic	e Gateway.
Software	• A TCP/IP network protocol for	r each machine
	• Microsoft Internet Explorer 4.0 (5.0 and 4.7 or later, respective	0 or later or Netscape Navigator 4.0 or later. ely, are strongly recommended.)

* Windows is a trademark of Microsoft Corporation.

** Macintosh and the Mac OS are trademarks of Apple Computer, Inc.



Wireless Voice Gateway Overview

Front Panel

The following illustration shows the front panel of the Wireless Voice Gateway:



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The LEDs on the front panel are described in the table below (from left to right):

DWG875 /	Power	Internet			Ethernet				USB	Wireless	Tel 1	Tel 2	Battery	Description
DWG875T		DS	US	Online	1	2	3	4						
	ON On	ON 0.	ON 25 secor	ON	ON	ON	ON	ON	On	х	ON	ON	х	Power on 0.25 sec
Boot-up Operation	ON	FLASH	FLASH	FLASH	x	x	х	х	х	х	х	х	х	From power ON to system initialization complete
-	ON	ON	ON	ON	х	x	х	х	х	х	х	х	х	Following system initialization complete to (before)
	ON	FLASH	1 second OFF	OFF	х	х	х	х	х	х	х	х	х	During DS scanning and acquiring SYNC
DOCSIS Start-up	ON	ON	FLASH	OFF	х	x	х	х	х	х	х	х	х	From SYNC completed, receiving UCD to ranging completed
Operation	ON	ON	ON	FLASH	х	x	х	x	х	х	х	х	х	During DHCP, configuration file download, registration, and Baseline Privacy initialization
	ON	ON	ON	ON	Х	х	Х	Х	Х	х	х	х	х	Operational (NACO=ON)
	ON	FLASH	FLASH	OFF	х	х	х	х	х	х	х	х	х	Operational (NACO=OFF)
	FLASH	FLASH	FLASH	FLASH	FLASH	x	х	x	х	x	х	X	х	Wait registration with all DS and all US – Lights Flash sequentially from the right to left
Channel Bonding	х	х	Х	Х	OFF	x	х	x	x	x	х	Х	х	From 1 to 4 DS, from 1 to 4 LEDs are ON. From 5 to 8 DS, From 1 to 4 LEDs are flashing
Operation	OFF	х	х	х	х	х	х	х	х	х	х	х	х	From 1 to 4 US, from 1 to 4 LEDs are ON.
	FLASH	FLASH	FLASH	FLASH	FLASH	х	х	х	х	x	х	х	x	Wait registration with all DS and all US – Lights Flash sequentially from the left to right

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DWG875 /	Derver		Internet	:		Ethe	ernet		UCD	Minalasa	Tal 4	T-12	Detterry	Description			
DWG875T	Power	DS	US	Online	1	2	3	4	USB	wireless	Ter I	Terz	ваттегу	Description			
MTA	ON	ON	ON	ON	x	x	x	x	x	х	FLASH	OFF	OFF	MTA DHCP			
initialization	ON	ON	ON	ON	x	x	x	x	x	×	OFF	FLASH	OFF	MTA SNMP/TETP			
Initialization	ON	ON	ON	ON	x	x	x	x	x	x	FLASH	FLASH	OFF	RSIP for NCS/Register for SIP			
CPE Operation	ON	x	x	x	OFF ON FLASH	OFF ON FLASH	OFF ON FLASH	OFF ON FLASH	x	x	x	x	x	No Ethernet Link Ethernet Link TX/RX Ethernet Traffic			
	ON	х	х	х	х	х	х	х	х	OFF ON FLASH	х	х	х	Wireless is disable Wireless initiate success or TX/RX Wireless Traffic			
USB Operation	ON	x	х	х	х	х	х	х	OFF ON FLASH	x	х	х	х	No USB Link USB Link TX/RX USB Traffic			
AC Good Battery Good	On		<pre></pre>								ON FLASH ON	ON ON FLASH	ON	Both Lines On-Hook Tel1 Off-hook, Tel2 On-hook Tel1 On-hook, Tel2 Off-hook			
AC Good Battery Low	On			< CN	1 Normal	l Operati	on >			<cm Normal Operatio n></cm 	FLASH ON FLASH ON FLASH	FLASH ON ON FLASH	FLASH	Both Lines Off-Hook Both Lines On-Hook Tel1 Off-hook, Tel2 On-hook Tel1 On-hook, Tel2 Off-hook Both Lines Off-Hook			
AC Good Battery Bad	Flash			< CN	1 Normal	l Operati	on >				ON FLASH ON FLASH	ON ON FLASH FLASH	OFF	Both Lines On-Hook Tel1 Off-hook, Tel2 On-hook Tel1 On-hook, Tel2 Off-hook Both Lines Off-Hook			
AC Fail Battery Good	Flash				0	ff				Off	ON FLASH ON FLASH	OFF	OFF	Both Lines On-Hook Both Lines On-Hook Tel1 Off-hook, Tel2 On-hook Tel1 On-hook, Tel2 Off-hook Both Lines Off-Hook			
AC Fail Battery Low											ON FLASH ON FLASH	Off	FLASH	Both Lines On-Hook Tel1 Off-hook, Tel2 On-hook Tel1 On-hook, Tel2 Off-hook Both Lines Off-Hook			
AC Fail Battery Bad			< All	LEDs ma	ay be unli	it due to	lack of b	battery p	ower>				OFF	Both Lines On-Hook Tel1 Off-hook, Tel2 On-hook Tel1 On-hook, Tel2 Off-hook Both Lines Off-Hook			
SW Download Operation	ON	FLASH	FLASH	ON	x	Х	Х	Х	Х	х	Х	x	Х	A software download and while updating the FLASH memory			

Rear Panel



- A TEL1 & TEL2
- 2x Telephony RJ-11 connectors
- B ETHERNET 1 2 3 4: 4x Ethernet 10/100/1000 Mbps RJ-45 connectors
- C USB Host: 1x USB 2.0 Connector
- D Reset:

1x Reset or reset to factory default this Wireless Voice Gateway

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- E CABLE: 1x F-Connector for the coax cable
- F Power Connector: 1x AC Power Connector



I WPS & WiFi on/off button: 1x button with two features: to activate/disable the WiFi, to execute a WPS association



Relationship among the Devices

This illustration shows a cable company that offers DOCSIS and PacketCable-compliant voice/data services.



What the Modem Does

The Wireless Voice Gateway provides high-speed Internet access as well as cost-effective, toll-quality telephone voice and fax/modem services over residential, commercial, and education subscribers on public and private networks via an existing CATV infrastructure. It can inter-operate with the PacketCable compliant head-end equipment and provide the IP-based voice communications. The IP traffic can transfer between the Wireless Voice Gateway and DOCSIS compliant head-end equipment. The data security secures upstream and downstream communications.



What the Modem Needs to Do Its Job

- The Right Cable Company: Make sure your local cable company provides data services that use cable TV industry-standard DOCSIS compliant and PacketCable compliant technology.
- The Internet/Telephony Service Provider (ISP/TSP): Your cable company provides you access to an Internet Service Provider (ISP) and Telephony Service Provider (TSP). The ISP is your gateway to the Internet and provides you with a pipeline to access Internet content on the World Wide Web (WWW). The TSP provides you with telephony access to other modems or other telephony services over the Public Switched Telephone Network (PSTN).

Check with your cable company to make sure you have everything you need to begin; they'll know if you need to install special software or re-configure your computer to make your cable internet service work for you.



Contact Your Local Cable Company

You will need to contact your cable company to establish an Internet account before you can use your gateway. You should have the following information ready (which you will find on the sticker on the gateway):

- The serial number
- The model number
- The Cable Modem (CM) Media Access Control (MAC) address
- The Terminal Adapter (EMTA) MAC address
- Security information: Service Set IDentifier (SSID), Encryption key / passphrase (WPA2-PSK by default), channel number. Default values are indicated underneath the modem on the sticker.

Please verify the following with the cable company

- The cable service to your home supports DOCSIS compliant two-way modem access.
- Your internet account has been set up. (The Media Terminal Adapter will provide data service if the cable account is set up but no telephony service is available.)
- You have a cable outlet near your PC and it is ready for Cable Modem service.

Note: It is important to supply power to the modem at all times. Keeping your modem plugged in will keep it connected to the Internet. This means that it will always be ready whenever you need.

Important Information

Your cable company should always be consulted before installing a new cable outlet. Do not attempt any rewiring without contacting your cable company first.



Connecting the Wireless Voice Gateway to a Single Computer

This section of the manual explains how to connect your Wireless Voice Gateway to the USB or Ethernet port on your computer and install the necessary software. Please refer to Figure 1 to help you connect your Digital Cable Modem for the best possible connection.

Attaching the Cable TV Wire to the Wireless Voice Gateway

- 1. Locate the Cable TV wire. You may find it one of three ways:
 - a. Connected directly to a TV, a Cable TV converter box, or VCR. The line will be connected to the jack, which should be labeled either IN, CABLE IN, CATV, CATV IN, etc.
 - b. Connected to a wall-mounted cable outlet.
 - c. Coming out from under a baseboard heater or other location. See Figure 1 for the wiring example.

Notes: For optimum performance, be sure to connect your Wireless Voice Gateway to the first point the cable enters your home. The splitter must be rated for at least 1GHz.



Fig. 1: Basic Home Wiring

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Illustrations contained in this document are for representation only.

Important Connection Information

The Wireless Voice Gateway supports Ethernet connection.

Below are important points to remember before you connect the Wireless Voice Gateway.

- For Ethernet connections, go to page 21.
- For telephone and fax connections, go to page 23.

If you do not want to use the CD-ROM, follow instructions 1 through 4 to connect the Wireless Voice Gateway to the Ethernet port on your computer. **Instructions must be followed in the order they appear.**

- 1. Connect one end of the coaxial cable to the cable connection on the wall, and the other end to the CABLE jack on the Wireless Voice Gateway.
- 2. Attaching power cord to Wireless Voice Gateway and plug into the AC outlet.
- 3. Insert the supplied Wireless Voice Gateway CD-ROM. Wait momentarily for the CD window display.



Fig. 2: Main screen of CD

4. Close **all** open applications and dialog boxes, including the CD window.

Note: Some applications may interfere with your Wireless Voice Gateway installation.

Ethernet Connection to a Computer

Make the connection to the modem in the following sequence:

- 1. Connect one end of the coaxial cable to the cable connection on the wall, and the other end to the CABLE jack on the Wireless Voice Gateway.
- 2. Connect the plug from the AC power supply into the POWER AC ADAPTER jack on the Wireless Voice Gateway, and plug the power supply into an AC outlet.

Note: Use only the power supply that accompanied this unit. Using other adapters may damage the unit.

3. Connect one end of the Ethernet cable to an Ethernet port on the back of your computer, and the other end to the ETHERNET port on the Wireless Voice Gateway.



Fig.3: Ethernet Connection



Connecting More Than A Computer to the Wireless Voice Gateway

If you need to connect more than one computer to the Wireless Voice Gateway, simply connect the computers to an Ethernet port on the rear panel.



Fig.4: Multiple-PC Connection

Note: You may need to check with your service provider in order to connect multiple computers.



Telephone or Fax Connection

When properly connected, most telephony devices can be used with the Wireless Voice Gateway just as with a conventional telephone service. To make a normal telephone call, pick up the handset; listen for a dial tone, then dial the desired number. For services such as call waiting, use the hook switch (or FLASH button) to change calls. The following procedures describe some of the possible connection schemes for using telephony devices with the Wireless Voice Gateway.

- 1. Connect a standard phone line cord directly from the phone (fax machine, answering machine, caller ID box, etc.) to one of the LINE jacks on the Wireless Voice Gateway.
- 2. If there is a phone line in your home which is NOT connected to another telephone service provider, connect a standard phone line cord from a jack on this line to one of the LINE jacks of the Wireless Voice Gateway. Connect a standard phone line cord directly from the phone (fax machine, answering machine, caller ID box, etc.) to one of the other jacks in the house that uses that line.
- 3. If you have a multi-line telephone, connect a standard phone line cord (not an RJ-14 type line cord) from the phone to the LINE jacks on the Wireless Voice Gateway. (Other phones can be added to each line by using standard phone line splitters.



Fig. 5: Phone/Fax Connection

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Turning on the Wireless Voice Gateway

After installing the Wireless Voice Gateway and turn it on for the first time (and each time the modem is reconnected to the power), it goes through several steps before it can be used. Each of these steps is represented by a different pattern of flashing lights on the front of the modem.

Note: All indicators flash once before the initialization sequence.

If both DS and US LEDs are flashing sequentially, it means the Wireless Voice Gateway is automatically updating its system software. Please wait for the lights to stop flashing. You cannot use your modem during this time. Do not remove the power supply, switch off (on/off switch) or reset the Wireless Voice Gateway during this process.



To make sure that you can access the Internet successfully, please check the following first.

- 1. Make sure the connection (through Ethernet or USB) between the Wireless Voice Gateway and your computer is OK.
- 2. Make sure the TCP/IP protocol is set properly.
- 3. Subscribe to a Cable Company.
- 4. Make sure appropriate LEDs are turned on for normal operation as noted in the previous chapter.

Accessing the Web Configuration

The **Wireless Voice Gateway** offers local management capability through a built in HTTP server and a number of diagnostic and configuration web pages. You can configure the settings on the web page and apply them to the device.

Once your host PC is properly configured; please proceed as follows:

- 1. Start your web browser and type the private IP address of the Wireless Voice Gateway on the URL field: **192.168.0.1**.
- 2. After connecting to the device, you will be prompted to enter username and password. By default, the username is "" (empty) and the password is "**admin**".



Fig. 6 Dialogue for Login

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If you login successfully, the main page will appear.

Please Note; some of the WEB pages shown later, will differ for different software versions and per service providers instructions.

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Outline of Web Manager

The main screen will be shown as below.

mageo a boyona	Gateway VoIP Statu	is - Network - Advanced - Firewal	I - Parental Control - Wireless
	Status		
is)	Software : This page displays inform	nation on the current system software.	
ftware	Information		
a a abl a a	Standard Specification Compliant	DOCSIS 3.0	
ection	Hardware Version	1.0	
rd	Software Version	STB1.10.02	
	Cable Modern MAC Address	00:90:96:66:77:07	
S	Cable Modern Serial Number	54321000012360	
	CM certificate	Not Installed	
store			
	Status		
	System Up Time	0 days 00h:04m:24s	
	Network Access	Allowed	
	CableModem IP Address	10 10 133 33	

Fig. 7 Outline of Web Manager

- Main Menu: the hyperlinks on the top of the page, including Gateway, VoIP and several sub-menu items
- **Title**: the sidebar on the left side of the page indicates the title of this management interface, e.g., Software in this example
- **Main Window**: the current workspace of the web management, containing configuration or status information

For easy navigation, the pages are organized in groups with group in names main menu. Individual page names within each group are provided in the sidebar. So to navigate to a page, click the group hyperlink at the top, then the page title on the sidebar.

Your cable company may not support the reporting of some items of information listed on your gateway's internal web pages. In such cases, the information field appears blank. This is normal.

Warning message to change the password

At your first connection or while the password is the default one, a warning message is displayed on the top banner of each Web configuration page. We want to encourage you to change the password in order to enforce the security of your modem. Please refer to the chapter "*Password*" page 27 for more information.



Gateway - Status Web Page Group

1. Software

The information section shows the hardware and software information about your gateway.

The status section of this page shows how long your gateway has operated since last time being powered up, and some key information the Cable Modem received during the initialization process with your cable company. If Network Access shows "Allowed," then your cable company has configured your gateway to have Internet connectivity. If not, you may not have Internet access, and should contact your cable company to resolve this.

Images & beyond	Gateway VoIP Statu	is - Network - Advanced - Firew	all - Parental Control - Wireless 🧿
	Status		
	Software : This page displays inform	nation on the current system software	e
are	Information		
	Standard Specification Compliant	DOCSIS 3.0	
1	Hardware Version	1.0	
1	Software Version	STB1.10.02	
	Cable Modern MAC Address	00:90:96:66:77:07	
	Cable Modern Serial Number	54321000012360	
	CM certificate	Not Installed	
aro			
estore	Status		
	System Up Time	0 days 00h:04m:24s	
	Network Access	Allowed	
	CableModern IP Address	10.10.133.33	

Fig. 8 Gateway\Status\Software



2. Connection

This page reports current connection status containing startup procedures, downstream and upstream status, CM online information, and so on. The information can be useful to your cable company's support technician if you're having problems.

images & beyond	Gate	way	VoIP	Statu	e – Nob	work - Adu	ancer	1 - Firows	all - Daront	al Control - Wirol
	Status Connect	ion : This	; page disp	lays inf	ormation	on the statu:	s of th	ne cable m	odem's HFC	and IP network con
oftware	Startup	Procedur	e							
nnaction	Procedu	ire	State	ls	Comm	nent				
ssword	Acquire [Channel	Downstrea	m 6450 Hz	00000	Locke	d				
55W010	Connecti	vity State	OK		Opera	ational		Î		
agnostics	Boot Sta	te	OK		Opera	ational		1		
ent Log	Configura	ation File	ок		\config \CMT5	g S_Casa_ipv6	3_bas	ic.cfg		
ckup/Rectore	Security	ecurity Disabled Disabled								
icital p/ itestore	Downstr	eam Char	nnels							
	Channel	Lock Stat	us Modulat	ion Ch	iannel ID	Symbol rate	e Fred	quencv	Power	SNR
	1	Lock	ed QAM2	256	8	5360537	645	000000 Hz	-12.2 dBmV	43.9 dB
	2	Lock	ed QAM2	256	2	5360537	609	000000 Hz	-11.2 dBmV	44.7 dB
	3	Lock	ed QAM2	256	3	5360537	615	000000 Hz	-11.7 dBmV	43.0 dB
	4	Lock	ed QAM2	256	4	5360537	621	000000 Hz	-11.8 dBmV	44.2 dB
homson - 2007	5	Lock	ed QAM2	256	5	5360537	627	000000 Hz	-11.5 dBmV	43.8 dB
	6	Lock	ed QAM2	256	6	5360537	633	000000 Hz	-12.0 dBmV	44.2 dB
	7	Lock	ed QAM2	256	7	5360537	639	000000 Hz	-12.1 dBmV	42.3 dB
	8	Lock	ed QAM2	256	1	5360537	603	000000 Hz	-11.5 dBmV	44.6 dB
	Upstrea	m Channe	els							
	Channel	Lock State	us Modulat	ion Ch	iannel ID	Symbol Rat	e I	Frequency	Power	-
	1	Lock	ed QAN	132	1	5120 Ksym/	/sec 1	20600000 I	Hz 33.7 dBm	V
	2	Lock	ed QAN	132	2	5120 Ksym/	/sec	27000000 H	Hz 33.7 dBm	V
	3	Lock	ed QAN	132	3	5120 Ksym/	/sec 3	33400000 H	Hz 33.7 dBm	V
	1	Lock	ed OAN	132	4	5120 Ksym/	/sec 3	39800000 H	Hz 33 7 dBm	V

Current System Time: Mon May 31 17:44:00 2010

Fig. 9 Gateway\Status\Connection

Illustrations contained in this document are for representation only.

3. Password

Forcing end user to change the password

Upon access to the web pages on the CPE side of the router, if the user has not changed the default web password, a warning message must be displayed in the top banner of the web interface such as being visible while accessing any tabs.

This warning message informs the user that the default password must be changed:



In the second sentence, "here" is a hyperlink to the password setting page. Clicking on "here" lead to the display of the password setting page.

More information

By default, the username is empty ("") and the password is "admin".

This is set by different actions (non exhaustive list):

- at the manufactory level,
- following a reset factory on the modem,
- following a reset from the operator,
- following a change by the user who wants to come back to the default setting after using its own settings

When the current password is the default one, the user is strongly encouraged to change the default web password:

- Once the user logs in the web pages, the password setting page is displayed
- the warning message must be displayed in the top banner of the web interface
- The user can still access to all the web pages even if the password is not changed
- The warning message must be displayed on the top banner of each accessed Web page while the password is not changed
- The password warning message must be visible while accessing all tabs in a the same web page
 - The password warning message is no more displayed on the banners once the default password has been replaced by a new one.

At your first connection or while the password is the default one, a warning message is displayed on the top banner of each Web configuration page. We want to encourage you to change the password in order to enforce the security of your modem.

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The password can be a maximum of 8 characters and is case sensitive. In addition, this page can be used to restore the gateway to its original factory settings. Use this with caution, as all the settings you have made will be lost. To perform this reset, set **Restore Factory Defaults** to **Yes** and click **Apply**. This has the same effect as a factory reset using the rear panel reset switch, where you hold on the switch for 15 seconds, then release it.

Note: We are always suggesting to modify the password is implementing for Voice Wireless Gateway.

It is a basically protection to access Voice Wireless Gateway.

THOMSON					Administratic	n
images & beyond	Gateway	VoIP Statu	s - Network - A	dvanced - Firewall -	Parental Control - Wireless	0
Real Parts	Status					
	Password : This defaults to the sys	s page allows config stem.	uration of administ	tration access privilege	s and the ability to restore factory	
Software	User Name]		
Connection	Password	••••]		
Password	Re-Enter Passw	rord ••••				
Diagnostics	Restore Factory	Defaults ⊖Yes ⊙	No			
Event Log		Apply				
Backup/Restore						
© - Thomson - 2007						

Fig. 10 Gateway\Status\Password

To change the password: type the password, and re-enter it again.

If the password is accepted, you are required to re log on the web pages:



If the password is not accepted, an error message is displayed:





4. Diagnostics

This page offers basic diagnostic tools for you to utilize when connectivity problems occur. When you ping an Internet device, you send a packet to its TCP/IP stack, and it sends one back to yours. To use the ping Test, enter the information needed and press **Start Test**; the Result will be displayed in the lower part of the window. Press **Abort Test** to stop, and **Clear Results** to clear the result contents.

Note: Firewalls may cause pings to fail but still provide you TCP/IP access to selected devices behind them. Keep this in mind when pinging a device that may be behind a firewall. Ping is most useful to verify connectivity with PCs which do not have firewalls, such as the PCs on your LAN side.

THOMSON images & beyond			Administration
	Gateway VoIP	Status - Network - Advanced - Fire	wall - Parental Control - Wireless 🔍
Re.	Status		
	Diagnostics : This page pro	ovides for ping diagnostics to the LAN to hel	p with IP connectivity problems.
Software	Ping Test Pa Ping Target 192 . 168	arameters . 0 1	
Connection	Ping Size	64 bytes	
Password	No. of Pings Ping Interval	3	
Diagnostics	i ing intoriori		
Event Lee	Start Test Abort Test	Clear Results	
Event Log	Resu	llts	
Backup/Restore	Pinging 192.168.0.1 with 64 byt Reply from 192.168.0.1: bytes =	es of data:[In progress] = 64, time = 0 ms	
	To get an update of the results y	ou must REFRESH the page.	
© - Thomson - 2007			

Fig. 11 Gateway\Status\Diagnostics

5. Event Log

This page displays the contents of the SNMP event log. Press "Clear Log" button to clear the logs.



Fig. 12 Gateway\Status\Event Log



6. Backup/Restore

Backup/Restore Settings : This page allows you to save your current settings locally on your PC, or to restore settings saved previously. The file name is "GatewaySettings.bin".

THOMSON images & beyond	Administration
	Gateway VoIP Status - Network - Advanced - Firewall - Parental Control - Wireless
F .	Status
	Backup/Restore Settings : This page allows you to save your current settings locally on your PC, or restored settings previously saved.
Software	Backup
Connection	Backup
Password	Restore Settings
Diagnostics	Browse Restore
Event Log	
Backup/Restore	
@ - Thomson - 2007	
0 - monaon - 2001	Fig 13 Gateway\Status\Backup/Restore



Gateway - Network Web Page Group

1. LAN

You can activate the DHCP server function for the LAN on this page.

With this activated function,

- your cable company's DHCP server provides one IP address for your gateway,
- and your gateway's DHCP server provides IP addresses, starting at the address you set in IP Address on the LAN page, to your PCs. A DHCP server leases an IP address with an expiration time.

To change the lowest IP address that your gateway will issue to your PCs, enter it into the **IP Address** box and then click **Apply**.

IPAddress and Subnet Mask:

A private IP address and Subnet Mask for LAN sub netting.

For example 192.168.0.1./ 255.255.255.0.

DHCP Server:

- Select the check point of "Yes" or "No" to enable or disable a simple DHCP server for LAN.
- Configure the IP address numbers for the DHCP server with "lease pool start" and "lease pool end".
- Configure the IP address lease time with "lease time" for DHCP server. Default value is 604800 seconds.

THOMSON images & beyond	Please define Clici	a userna k <u>here</u> to	" Administration	
	Gateway	VoIP	Status - Network - Advanced - Fir	ewall - Parental Control - Wireless 🤉 🤉
- tia	Network LAN : This page	allows cor	figuration and status of the optional interna	DHCP server for the LAN.
LAN	Network Config	juration		
WAN	IP Address Subnet Mask	19	2.168.0.1	
Computers	MAC Address	00	:18:9b:3a:c4:4c	
DDNS	DHCP Server	(Yes ONo	
Time	Lease Pool Start Lease Pool End Lease Time	19 19 60 (Apply)	21660.254 2660.254	
© - Thomson - 2007				

Fig. 14 Gateway\Network\LAN

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2. WAN

You can configure the optional internal DHCP server for the WAN on this page. This can be required by some ISP providers.

Select different WAN Connection Type will lead to different contents. Take the WAN connection type-DHCP for example, you can release and renew the WAN lease by pressing the buttons.

You can enter a spoofed MAC address that causes your gateway networking stack to use that MAC address when communicating instead of the usual WAN MAC address, e.g., if the MAC address is *00:11:e3:df:66:95*, this spoofed MAC address could be *00:11:e3:df:66:97* or any desired MAC address.

THOMSON images & beyond	Please define a userna Click <u>here</u> to	me and password for administration change the settings	Administration
	Gateway VoIP	Status - Network - Advanced - Firewall -	Parental Control - Wireless 🧿
E.	Network		
	WAN : This page allows co	Infiguration and status of the internal DHCP client for	or the VVAN.
LAN	WAN IP Address:	10.10.141.11	
WAN	MAC Address:	00:18:9b:3a:c4:4a	
	Duration	D: 00 H: 02 M: 10 S: 00	
Computers	Expires DNS Servers	Tue Dec 15 11:30:56 2009	
DDNS	Release WA	IN LERIE REMEW WAN LERIE	
Time	WAN Con	nection Type тная	
	MTU	0	
	Host Name	(Required by some ISPs)	
	Domain Name	(Required by some ISPs)	
	Spoofed MAC Addres	S 00 : 00 : 00 : 00 : 00	
		Apply	
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Fig. 15 Gateway\Network\WAN



3. Computers

This page displays the status of the DHCP clients and current system time. You can cancel an IP address lease by selecting it in the DHCP Client Lease Info list and then clicking the Force Available button. If you do so, you may have to perform a DHCP Renew on that PC, so that it can obtain a new lease.

THOMSON	Please define a username and password for administration Click <u>here</u> to change the settings
images & beyond	Gateway VoIP Status - Network - Advanced - Firewall - Parental Control - Wireless 3
F .	Network
	Computers : This page shows the status of the DHCP clients and current system time.
LAN	DHCP Clients
WAN	MAC Address P Address Subnet Mask Duration Expires Select 0013a43b6fd3 192.168.000.010 555 255 255 000 0:07 H:00 M:00 S:00 Tue Dec 22 10:19:00 2009
Computers	Current System Time: Tue Dec 15 10:19:31 2009
DDNS	Force Available
Time	
© - Thomson - 2007	
	Fig. 16 Gateway\Network\Computers

Illustrations contained in this document are for representation only.

4. DDNS - Dynamic DNS service

This page allows to setup for Dynamic DNS server.

THOMSON	Please define a username and password for administration Click <u>here</u> to change the settings	Administration		
images & beyond	Gateway VoIP Status - Network - Advanced - Firewall - Parental Control - Wireless	Э		
	Network DDNS : This page allows setup of Dynamic DNS service.			
LAN	DDNS Service: Disabled User Name: Password:			
Computers	Host Name: IP Address: 10.10.141.11 Status: DONS cervice is not enabled			
DDNS	Apply			
Time				
© - Thomson - 2007				

Fig 17 Gateway\Network\DDNS

5. Time server

This page allows configuration and display of the system time obtained from network servers via Simple Network Time Protocol. The system has to be reset for any changes to take effect.

THOMSON	Please define a username and password for administration Click <u>here</u> to change the settings
images & beyond	Gateway VoIP Status - Network - Advanced - Firewall - Parental Control - Wireless
	Network Time : This page allows configuration and display of the system time obtained from network servers via Simple Network Time Protocol. The system has to be reset for any changes to take effect.
LAN	Enable SNTP Oyes No
WAN	Current Time Tue Dec 15 10:21:21 2009 System Start Time Mon Dec 14 17:15:06 2009
Computers	Time Server 1 deckvised
DDNS	Time Server 3 ticksclards
Time	Timezone Offset Hours 🛛 💌 Minutes 🖉 💌 Apply Reset Values
© - Thomson - 2007	
	Fig 18 Gateway\Network\Time



Gateway - Advanced Web Page Group

1. Options

This page allows you to enable/disable some features of the Wireless Voice Gateway.

THOMSON	Please define a usernar Click <u>here</u> to e	ne and password for administration change the settings	Administration		
images & beyond	Gateway VoIP	Status - Network - Advanced - Firewall -	Parental Control - Wireless		
F .	Advanced				
RUA)	Options : This page allows	configuration of advanced features of the broadba	nd gateway.		
Options	WAN Blocking	🗹 Enable			
IP Filtering	lpsec PassThrough	🗹 Enable			
MAC Filtering	PPTP PassThrough Remote Config Management	I ■ Enable			
Port Filtoring	Multicast Enable	✓ Enable			
Port Filtering	UPnP Enable	Enable			
Forwarding	NatSip Alg Enable	🗹 Enable			
Port Triggers	Apply				
DMZ Host					
RIP Setup					
@ - Thomson - 2007					

Fig. 19 Gateway\Advanced\Options

- WAN Blocking prevents others on the WAN side from being able to ping your gateway. With WAN Blocking enabled, your gateway will not respond to pings it receives, effectively "hiding" your gateway.
- **Ipsec PassThrough** enables IpSec type packets to pass WAN ⇔ LAN. IpSec (IP Security) is a security mechanism used in Virtual Private Networks (VPNs).
- **PPTP PassThrough** enables PPTP type packets to pass WAN ⇔ LAN. PPTP (Point to Point Tunneling Protocol) is another mechanism sometimes used in VPNs.
- **Remote Config Management** makes the configuration web pages in your gateway accessible from the WAN side. Note that page access is limited to only those who know the gateway access password. When accessing your gateway from a remote location, your must use HTTP port 8080 and the WAN IP address of the gateway. For example, if the WAN IP address is 157.254.5.7, you would navigate to http://157.254.5.7.8080 to reach your gateway.
- **Multicast Enable** enables multicast traffic to pass WAN ⇔ LAN. You may need to enable this to see some types of broadcast streaming and content on the Internet.
- **UPnP** Universal Plug and Play (UPnP) helps devices, such as Internet appliances and computers, access the network and connect to other devices as needed. UPnP devices can automatically

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discover the services from other registered UPnP devices on the network.

• NatSipAlg Enable the gateway implements <u>SIP</u> ALG (Application-level gateway). It is enabled by default and help in solving NAT related problems in client LAN side.

2. IP Filtering

This page enables you to enter the IP address ranges of PCs on your LAN that you don't want to have outbound access to the WAN. These PCs can still communicate with each other on your LAN, but packets designated to WAN addresses are blocked by the gateway.

THOMSON images & beyond				Administration
	Gateway	VoIP	Status - Ne	work - Advanced - Firewall - Parental Control - Wireless 🥏
F .	Advanced			
	IP Filtering : The network devices	nis page allows on the LAN.	the configura	tion of IP Address filters in order to block internet traffic to specific
Options		IP Filtering		
ID Eiltoring	Start Address	End Address	Enabled	
IP Filtering	192.168.0.0	192.168.0.0		
MAC Filtering	192.168.0.0	192.168.0.0		
Daub Eilbanin n	192.168.0.0	192.168.0.0		
Port Filtering	192.168.0.0	192.168.0.0		
Forwarding	192.168.0.0	192.168.0.0		
	192.168.0.0	192.168.0.0		
Port Triggers	192.168.0.0	192.168.0.0		
DMZ Host	192.168.0.0	192.168.0.0		
	192.168.0.0	192.168.0.0		
RIP Setup	192.168.0.0	192.168.0.0		
		Apply		
© - Thomson - 2007				v

Fig. 20 Gateway\Advanced\IP Filtering

3. MAC Filtering

This page enables you to enter the MAC address of specific PCs on your LAN that you do not wish to have outbound access to the WAN. As with IP filtering, these PCs can still communicate with each other through the gateway, but packets they send to WAN addresses are blocked.

THOMSON	Administration
images & beyond	Gateway VoIP Status - Network - Advanced - Firewall - Parental Control - Wireless 🤤
K .	Advanced
	MAC Filtering : This page allows configuration of MAC Address filters in order to block internet traffic to specific network devices on the LAN.
Options	MAC Address Filters
IP Filtering	MAC 01 00: 00: 00: 00: 00: 00: 00 MAC 02 00: 00: 00: 00: 00 MAC 02 00: 00: 00: 00: 00 MAC 02 00: 00: 00: 00: 00
MAC Filtering	MAC 0500; 00; 00; 00; 00; 00 MAC 0600; 00; 00; 00; 00
Port Filtering	MAC 09[00:100:100:100:00:00 MAC 19[00:100:100:00:00:00 MAC 11[00:100:00:00:00] MAC 10[00:00:00:00:00]
Forwarding	MAC 13 00: 00: 00: 00: 00: 00 MAC 14 00: 00: 00: 00: 00
Port Triggers	MAC 15 00: 00: 00: 00: 00: 00: 00 MAC 18 00: 00: 00: 00: 00 MAC 17 00: 00: 00: 00: 00
DMZ Host	MAC 19 00: 00: 00: 00: 00: 00 MAC 20 00: 00: 00: 00: 00
RIP Setup	Apply
© - Thomson - 2007	<u>×</u>

Fig. 21 Gateway\Advanced\MAC Filtering



4. Port Filtering

This page allows you to enter ranges of destination ports (applications) that you don't want your LAN PCs to send packets to. Any packets your LAN PCs send to these destination ports will be blocked. For example, you could block access to worldwide web browsing (http = port 80) but still allow email service (SMTP port 25 and POP-3 port 110). To enable port filtering, set Start Port and End Port for each range, and click Apply. To block only one port, set both Start and End ports with the same value.

THOMSON			1		Administration	*
images & beyond	Gateway	VoIP	Status - Network ·	- Advanced - Firewall -	- Parental Control - Wireless 🤍	
F .	Advanced					
	Port Filtering : on the LAN.	This page allo	ows configuration of p	ort filters in order to block	specific internet services to all devices	
Options	Port F	Filtering	abled			
IP Filtering	1 65535	Both 💌 🗆	lableu			
MAC Filtering	1 65535	Both 💌 🗖				
Port Filtering	1 65535 1 65535	Both 💌 🗖				
Forwarding	1 65535	Both 💌 🗆				
Port Triggers	1 65535	Both 💌 🗆				
DMZ Host	1 65535	Both				
RIP Setup	1 65535	Both 💌 🗆				
	A	oply				
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Fig. 22 Gateway\Advanced\Port Filtering



5. Forwarding

For LAN \Leftrightarrow WAN communications, the gateway normally only allows you to originate an IP connection with a PC on the WAN; it will ignore attempts of the WAN PC to originate a connection onto your PC. This protects you from malicious attacks from outsiders. However, sometimes you may wish for anyone outside to be able to originate a connection to a particular PC on your LAN if the destination port (application) matches one you specify.

This page allows you to specify up to 10 such rules. For example, to specify that outsiders should have access to an FTP server you have running at 192.168.0.5, create a rule with that address and Start Port =20 and End Port =21 (FTP port ranges) and Protocol = TCP (FTP runs over TCP and the other transport protocol, UDP), and click Apply. This will cause inbound packets that match to be forwarded to that PC rather than blocked. As these connections are not tracked, no entry is made for them in the Connection Table. The same IP address can be entered multiple times with different **ports**.

		_
THOMSON images & beyond	Administration	٦
	Gateway VoIP Status - Network - Advanced - Firewall - Parental Control - Wireless	5
Te.	Advanced	
	Forwarding : This allows for incoming requests on specific port numbers to reach web servers, FTP servers, mai servers, etc. so they can be accessible from the public internet. A table of commonly used port numbers is also provided.	I
Options		
IP Filtering	Port Forwarding Local IP Adr Start Port End Port Protocol Enabled	
MAC Filtering	192.168.0.0 0 0 Both ▼ □ 192.168.0.0 0 0 Both ▼ □	
Port Filtering	192.168.0.0 0 0 Both	
Forwarding	192.168.0.0 0 0 Both	
Port Triggers	192.168.0.0 0 0 Both -	
DMZ Host	192.168.0.0 0 0 Both	
RIP Setup	192.168.0.0 0 0 Both -	
	Apply	
© - Thomson - 2007		Y

Fig. 23 Gateway\Advanced\Forwarding



6. Port Triggers

Some Internet activities, such as interactive gaming, require that a PC on the WAN side of your gateway be able to originate connections during the game with your game playing PC on the LAN side. You could use the Advanced-Forwarding web page to construct a forwarding rule during the game, and then remove it afterwards (to restore full protection to your LAN PC) to facilitate this. Port triggering is an elegant mechanism that does this work for you, each time you play the game.

THOMSON images & beyond						Administration
	Gateway	VoIP	Stati.	us - Network -	Advanced - Firewall	- Parental Control - Wireless 🤍
Real Providence	Advanced					
	Port Triggers : special applicatio as video conferer	This page a ns that requincing, voice,	illows ci ire spec gaming	onfiguration of dyr ific port numbers 1, and some mess	namic triggers to specif with bi-directional traffi senging program featur	ic devices on the LAN. This allows for c to function properly. Applications such es may require these special settings.
Options					1	
IP Filtering	Trigger Range Start Port End Po	Port Trigg Target Ra ort Start Port	gering ange :End Po	Protocol Enable	B -	
MAC Filtering		0	0			
Port Filtering	0 0 0 0	0	0 0			
Forwarding	0 0	0	0	TCP 💌 🗖		
Port Triggers	0 0 0 0	0	0 0			
DMZ Host	0 0	0	0			
RIP Setup		0	0 0 0			
	· ·	Appl	У		1	
© - Thomson - 2007						~

Fig. 24 Gateway\Advanced\Port Triggers

Port Triggering works as follows. Imagine you want to play a particular game with PCs somewhere on the Internet. You make one time effort to set up a Port Trigger for that game, by entering into **Trigger Range** the range of destination ports your game will be sending to, and entering into **Target Range** the range of destination ports the other player (on the WAN side) will be sending to (ports your PC's game receives on). Application programs like games publish this information in user manuals. Later, each time you play the game, the gateway automatically creates the forwarding rule necessary. This rule is valid until 10 minutes after it sees game activity stop. After 10 minutes, the rule becomes inactive until the next matched outgoing traffic arrives.

For example, suppose you specify Trigger Range from 6660 to 6670 and Target Range from 113 to 113. An outbound packet arrives at the gateway with your game-playing PC source IP address 192.168.0.10, destination port 666 over TCP/IP. This destination port is within the Trigger destined for port 113 to your game-playing PC at 192.168.0.10.

You can specify up to 10 port ranges on which to trigger.

7. DMZ Host

Use this page to designate one PC on your LAN that should be left accessible to all PCs from the WAN side, for all ports. For example, if you put an HTTP server on this machine, anyone will be able to access that HTTP server by using your gateway IP address as the destination. A setting of "0" indicates NO DMZ PC. "Host" is another Internet term for a PC connected to the Internet.

THOMSON	Administration
images & beyond	Gateway VoIP Status - Network - Advanced - Firewall - Parental Control - Wireless J
te.	Advanced
	DMZ Host (Exposed Host) : This page allows configuration of a specific network device to be exposed or visible directly to the WAN (public internet). This may be used when problem applications do not work with port triggers. Entering a "0" means there are no exposed hosts.
Options	
IP Filtering	DMZ Address 192.168.0.0 Apply
MAC Filtering	
Port Filtering	
Forwarding	
Port Triggers	
DMZ Host	
RIP Setup	
© - Thomson - 2007	×

Fig. 25 Gateway\Advanced\DMZ Host

