Billion 64xx - 74xx Configuration Guide



Minimum Requirements

- Active Freshtel Internet Phone account (http://www.freshtel.net)
- Broadband internet connection (256/64 kbps minimum, ADSL required for 74xx series)
- Broadband modem (for Billion 64xx only)
- Analogue Telephone with RJ-11 line (desktop or cordless)

Before You Begin

This guide will allow you to set up any Billion 74xx series VoIP modem/router or 64xx series VoIP router for use with Freshtel. These include the Billion 7401, 7402, 7404 and 6404 models.

We strongly recommend you ensure that the latest firmware update for this device has been downloaded and installed. For further information, visit the manufacturer's website at http://www.billion.com.au

If you are using the Firefly softphone on your PC with the same Freshtel number that you wish to use in your Billion, we advise you to uninstall or disable Firefly. Your Freshtel account can only be active at one point on our network at any one time, and having two identical active accounts will cause conflicts. Similarly, only register your Freshtel account on one line of the Billion, and not both lines.

If you do not yet have a Freshtel account, you should go to our website at http://www.freshtel.net and register a new account before starting to configure the Billion.

Initial Setup

Before configuration, please refer to the Billion user guide for further information on how to connect the device to your network.

If you require more advice, please contact your ISP for assistance with your ADSL connection or contact Freshtel Customer Care via Firefly on 81118111, or our landline number 1300 373 748 (1300 FRESHTEL).

Freshtel The ternet phone

Billion Configuration

Using your Internet Browser, type http://192.168.1.254, then press Enter to access the Billion's configuration webpage.

	🏉 G	oogle	- Wind	dows Inter	net Exp	olorer	
	G		G	http://192.1	68.1.254	4/	
	File	Edit	View	Favorites	Tools	Help	
			Fig	ure 1.1			
VoIP/802.11g ADSL2+ Firewall Router - Microsoft Inte File Edit View Favorites Tools Help	rnet Explorer						. Ø X
G Back • Search K Fav	orites 🧐 🖾 •	a	× 📙 🧐				
BILLION NOIP/802.11c	ADSL2+ F	irewall	Router				Powering conversions with Security
Status Quick Start Configuration Save Config to FLASH Language		Connec WebAdi User na Passwo	t to 192,168	CK			
A Done						SAVE CO	
Start 🖉 🙆 🖉 🕵 Unkitled - MixWibes Pro	🚰 VoIP/802.11g ADS	.2					🖉 Internet (🔊 🔊 👌 11:33 AM

Figure 1.2

You should see a pop-up window requesting you to enter your Username and Password (making sure you type them in lower case letters):

The default login is:

Username:	admin
Password:	admin

If you are experiencing difficulty trying to connect to the device at this point, please refer to the Billion user guide or contact Billion Technical Support for further assistance.

ATA/Router Setup

This section applies to Billion 64xx series VoIP routers only, such as the Billion 6404VGP. If you have a Billion ADSL Modem/Router, such as the Billion 7401, 7402 or 7404VGP, move on to the next page.

VolP/802.11g Broadband Firewall Router

ATA/Router Mode				
Connection				
Device Type	○ Analog Terminal Adapter(ATA)			
WAN Type	Obtain an IP Address Automatically 💌			

Figure 1.3

It is advisable to only have one router in your home network to avoid routing conflicts. If you have a Billion 6404 connected to another router or modem/router, you may wish to set the Billion 6404 to operate in Analog Terminal Adapter (ATA) mode, rather than operating in VoIP router mode.

If you are unsure whether your Billion 6404 is connected to another router, please contact Freshtel Customer Care via Firefly on 81118111, or our landline number 1300 373 748 (1300 FRESHTEL).

VoIP Configuration

For more information regarding each property and option, please refer to the Billion user manual.

SIP Setup

tatus	VoIP Wizard		
uick Start	Voice QoS		Ν
onfiguration	DSCP Marking	Premium 💌	. 17
	Setting for Phone Port 1 Sele	ct Profile 🔿	
WAN	SIP Service Provider	Freshtel / Firefly 💌	
	Phone Number	Вххххххх	
Firewall	Authentication Username	8xxxxxx	(If empty, same as Phone Number.)
	Authentication Password	******	
	Setting for Phone Port 2 Sele	ect Profile 🕞 🗌 Same as	Phone Port 1
	SIP Service Provider	FWD 💌	
	Phone Number		
PSTN Dial Plan	Authentication Username		(If empty, same as Phone Number.)
VolP Dial Plan	Authentication Password		
Ring & Tone	Caution! The VolP configurati	ion will take effect only when you	apply the changes, save configuration and restart the device.
QoS		in a succession of the	113 33 3
Virtual Server	Apply Cancel VolP	User-defined Profiles 🔿	
Time Schedule			

Figure 1.4

- 1. Click on Configuration
- 2. Click on VolP
- 3. Click on Wizard
- 4. Voice QoS
 - a. DSCP Marking
- 5. Phone Port 1
 - a. SIP Service Provider
 - b. Phone Number
 - c. Authentication Username
 - d. Authentication Password
 - 6. Click **Apply**

Do not set up Phone Port 2 or select the 'Same As Port 1' checkbox unless you have two separate Freshtel accounts. Each Freshtel account can only be active at one point on our network at any one time, and setting up two identical accounts in your Billion will cause conflicts.

Premium

Freshtel/Firefly

Your Freshtel Number

Your Freshtel Number

Your Freshtel Password

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General Setup

	General Settings		
	SIP Device Parameters Advan	cedo	N
	SIP	⊙Enable ○Disable	μζ
	Silence Suppression (VAD)	○Enable ⊙Disable	
	Echo Cancellation	⊙Enable ○Disable	
	RTP Port	5100	
	Region	Australia 💌	
	Voice QoS,	Premium 💌	
	Setting for Phone Port 1 Sy	nc Now	
	Registrar Address(or Hostname)	sip.freshtel.net	
	Registrar Port	5060	
	Expire	3600	seconds
	User Domain/Realm		(If empty, it is the same as Registrar Address.)
	Outbound Proxy Address		(If empty, it is the same as Registrar Address.)
	Outbound Proxy Port	5060	
	Setting for Phone Port 2 Sy	nc Now	
	Registrar Address(or Hostname)		
	Registrar Port	5060	
Config to FLASH	Expire	3600	seconds
	User Domain/Realm		(If empty, it is the same as Registrar Address.)
	Outbound Proxy Address		(If empty, it is the same as Registrar Address.)
	Outbound Proxy Port	5060	

Figure 1.5

- 1. Click on General Settings
- 2. Under Sip Device Parameters
- Enable a. SIP b. Silence Suppression (VAD) Disable c. Echo Cancellation Enable d. RTP Port 5100 e. Region Australia f. Voice QoS Premium 3. Setting for Phone Port 1 a. Registrar Address sip.freshtel.net b. Registrar Port 5060 c. Expire 3600 d. User Domain/Realm (leave blank) e. Outbound Proxy Address (leave blank) f. Outbound Proxy Port 5060

General Setup - Advanced





- 1. Click Advanced (next to SIP Device Parameters)
- 2. Parameters
 - a. VoIP through IP Interface ipwan
 - b. Voice Frame Size 20ms

You may wish to increase Voice Frame Size to 30ms if you have a slower Broadband connection.

Phone Port

BILLION "	VoIP/802.11g ADSL2+ Firewall Router					
Status	Phone C	onfiguration				
Guick Start	Phone Port	Phone Port				
Configuration	Index	Phone Number	Display Name	Registered		
LAN	1	В		registered	Edit 🔿	
WAN	2	В		unknown	Edit 🔿	
System	Cautio	n! The VolP configuration will take	effect only when you apply the cha	nges, save configuration and re	start the device.	

Figure 1.7

- 1. Click on Phone Port
- 2. Click on Edit (for relevant account)

3. Under Login Account Configuration

VolP/802.11g Broadband Firewall Router

Phone Port 1	
Login Account Configuration	
Phone Number	88817687
Authentication Username	88817687
Authentication Password	*****
Confirm Password	*****
Display Name	
Codec Preference	
Priority 1	G.729 💌
Priority 2	PCMU (G.711 u-Law) 💌
Priority 3	PCMA (G.711 A-Law) 💌
Priority 4	Non-used 💌
DTMF Method	RFC 2833 💌

Figure 1.8

	a.	Phone Number	Your Freshtel Number
	b.	Authentication Username	Your Freshtel Number
	c.	Authentication Password	Your Freshtel Password
	d.	Confirm Password	Your Freshtel Password
	e.	Display Name	Your Freshtel Number
4.	Сс	odec Preference	
	a.	Priority 1	G.729
	b.	Priority 2	PCMU (G.711 u-Law)
	c.	Priority 3	PCMU (G.711 a-Law)
	d.	DTMF Method	RFC2833

VolP Dial Plan

VolP/802.11g Broadband Firewall Router

VoIP Di	VoIP Dial Plan Configuration				
VolP Dial Plan					
Port	Dial Plan				
1	(x.T ##\$ *69\$ *[28]0\$ *74x.#\$ *90x.T\$ x#\$ *xxxT *xxxxT *xxxxxXT)	Edit 💽			
2	(x.T ##\$ *69\$ *[28]0\$ *74x.#\$ *90x.T\$ x#\$)	Edit 💽			

Figure 1.9

1. Select **Port 1**, and click **Edit**.

VolP/802.11g Broadband Firewall Router

VoIP Dial Plan 1				
Parameters				
	T *69 Return Call			
	🗌 *20 enable 'Don't Disturb' / *80 disable 'Don't Disturb'			
	*90x. Blind Call Transfer			
Special Digit Sequences	☑ x# Speed Dial (x: 29)			
	🗹 ## Redial			
	\square *74 <x><number># Set the number of Speed Dial Code <x> (x: 29)</x></number></x>			
	Phone number +#(pound key).Immediate Call Out Service			
Apply Test				
Dial Plan Rules List				
Rule Name				
x.T	Delete O			
*хххТ	Delete O			
*ххххТ	Delete O			
*хххххххТ	Delete O			
htt				

Figure 1.10

- 2. Click on VoIP Dial Plan
- 3. Click **Edit** for Port 1
- 4. Parameters
 - a. Enable Speed Dial
 - b. Enable Redial
 - c. Disable Return Call
 - d. Disable Don't Disturb
 - e. Disable Blind Call Transfer
 - f. Disable Set The Number Of Speed Dial Code
 - g. Disable Phone Number +#
- 5. Click on **Apply**

	Create Rule						
	Parameters						
		O Prepend unconditionally					
	O If prefix is , delete it						
	Prelix Processing	O If prefix is, replace with					
		⊙ No prefix					
	Main Digit Sequence	*xxxxxxxT @ Current Profile 💌					
	Apply Return						
	Digit Sequence Example:						
	X.	x. Any digit number between 0 and 9 in variable length. Maximum length is 16.					
	2000	Any 3 digit number only between 0 and 9. Total length is 3. No period needed (.)					
	<i>x000</i> .	Any number between 0 and 9 with variable length but no shorter than 3 digits. Maximum Length is 16.					
	123x.	Any number (0-9) starting with 123. Maximum length is 16.					
	[124]×.	Any number (0-9) starting with 1 or 2 or 4. Maximum length is 16.					
	[1-3]×.	Any number(0-9) starting with number 1 to 3. Maximum length is 16.					
	9[4-6]8×.	Any number (0-9) starting with 9, the second number between 4-6, and third number 8. Maximum length is 16.					



- 6. Main Digit Sequence
 - a. *xxxxxxx @ Current Profile
- 7. Click Apply
- 8. Click on Add
- 9. Main Digit Sequence
 - a. *xxx @ Current Profile
- 9. Click Apply
- 10. Click on Add
- 11. Main Digit Sequence
 - a. *xxxx @ Current Profile
- 12. Click Apply
- 13. Click on Add
- 14. Click Save Settings

Ring & Tone Configuration

- 1. Click on Ring & Tone
- 2. Country Specific Ring & Tone a. **Region**

Australia

- Click on Apply
 Click on Save Settings
- 5. Click on **Restart Router**. Select **Current Settings** when prompted. Your Billion will restart, and you Freshtel account will be set up.

Making Your Call

Please refer to the following examples for making calls via your handset using the Billion.

Examples

FRESHTEL Number:

1. *8000 1234

Landline Number:

- 1. 61 3 9123 4567, or
- 2. 03 9123 4567, or
- 3. 9123 4567 (with local prefix set to relevant state)

Mobile Number:

- 1. 61 412 345 678 (Drop the First Zero)
- 2. 0412 345 678 (works with and without local prefix set)

National Numbers:

- 1. 1300 number:
 - a. 61 1300 123 456, or
 - b. 1300 123 456 (with local prefix set to relevant state)
- 2. 1800 number:
 - a. 61 1800 123 456, or
 - b. 1800 123 456
- 3. 13 number:
 - a. 61 13 12 34, or
 - b. 13 12 34

International Numbers:

- 1. (Country Code) (Area Code) (Number)
 - a. Example: 44 708 12345678

Freshtel **

Setting Local Call Prefix on Your Account

- 1. Log into your account at http://www.freshtel.net
- 2. Click on My Details



Figure 1.12

3. Click on Update my personal details



Figure 1.13

Freshtel The tphone

4. Scroll down to the Prefix section, and select from one of the following options

08

03

- a. Not Specified No Prefix set
- b. **NSW, ACT** 02
- c. Queensland 07
- d. SA, WA, NT
- e. Victoria, Tasmania

🖲 Freshtel internet phone - My Acc	count - Mozilla Firefox			X
<u>File E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks	<u>T</u> ools <u>H</u> elp			$\langle \rangle$
 - -		▼ ► Google		Q
😑 Disable 🔻 🔔 Cookies 🕶 🔤 CSS 🔻 📰 F	Forms 🕶 🔳 Images 🕶 🕕 Inform	ation 🕶 🎯 Miscellaneous 🛪 🥒 Outline 🔹 👹 Resize 🕶 🥔 Tools 🔻 脑 View Source 🔹 🥔 Options 🕶	 Image: A start of the start of	٢
	Timezone			^
	Timezone	(GMT -12:00) International Date Line West		
	Prefix			
	Prefix	Not specified V		
	Status	NSW, ACT Queensland		
1	Busy	Victoria, Tasmania You can choose to redirect		

Figure 1.14

5. Click on Update My Details

Glossary

- **BIT** Binary Digit Bits are widely used as a measurement for network transmission. One hundred megabits per second means that 100 million pulses are transmitted per second.
- **Broadband** Internet Connection that has a connection speed greater than 256kbps downstream and 64kbps upstream.
- **Broadband Router** A device that provides access to the Internet for multiple computers, typically including a network switch with four or more Ethernet ports for wired connections to desktop and laptop computers.
- BYTE Binary Table Another form of measurement to determine size and speed. 1 byte is equivalent to 8 Bits, so for an internet connection of 256/64kbps (kilobits per second, kilo meaning 100 units), it is roughly equivalent to 25 Kilobytes per second (download rate) and 6 kilobytes per second (upload rate).
- **Ethernet** A type of cable which is used to interconnect network devices to allow communication between them over the medium.
- Firefly Freshtel Internet Telephone Software
- Freshtel VoIP Internet Telephone Company
- **Kbps** Kilobits Per Second is the measurement used to determine the bandwidth speed of an internet connection.
- **Mbps** Megabits Per Second A unit of measurement used to show the capacity and/or rate of speed for a particular medium in megabits.
- **MBps** Megabytes Per Second A unit of measurement used to show the capacity and/or rate of speed for a particular medium in megabytes.
- **NAT** Network Address Translation maintains and controls the separation of a public IP address to one or more private IP addresses. Commonly used for internet connection sharing via a router.
- **USB** Universal Serial Bus A "Plug-and-Play" medium used to interconnect different types of USB compatible devices to each other either via USB 1.1 (at 12Mbps maximum transfer rate), or Hi-Speed USB 2.0 (at 480Mbps maximum transfer rate).
- Wireless Broadband Same as broadband, however is a medium transmitted through radio waves set at a certain radio frequency.
- Windows XP Microsoft's current Operating System platform for PC based systems.



E-Mail: info@freshtel.net Support: 81118111 (Firefly) 1300 FRESHTEL (Landline)

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