

Instruction of Configuring VoIP Gateway

Register for a FreeWorld DialUp Account

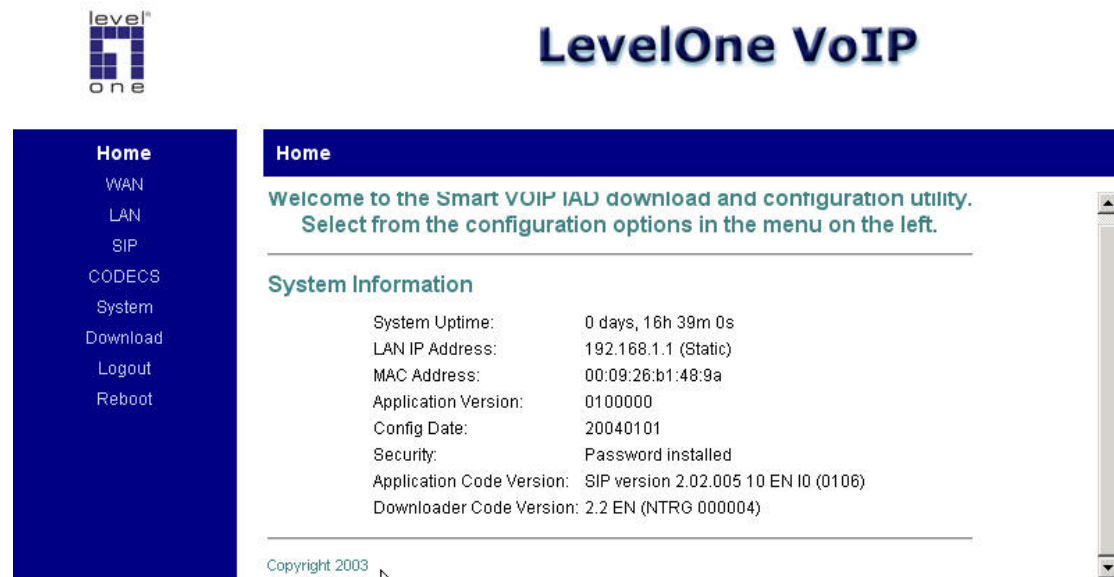
1. Logon to <http://www.freeworlddialup.com> , upper right click "Get FWD" and register for a free account.
2. After registration, you will receive a phone number (should be 6 digits long).

The screenshot shows the homepage of the FWD website. At the top left, it says "Welcome to FWD!". Below that, there's a small text "FWD : Welcome to FWD!". On the left side, there's a photo of a woman talking on a phone. To the right of the photo, there's a list of benefits: "no cost.", "no spam.", "no gimmicks.", "no limits.", and "no kidding.". In the center, there's a large heading "FWD lets you make free calls over the Internet." followed by a paragraph: "Use FWD to make real, free phone calls using your favorite telephone, computer or PDA and any broadband connection. Call your neighbor or a relative, next door or in another country; all with the same ease, speed, and high quality." Below this is a button that says "DOWNLOAD IT NOW! USE IT TODAY!". On the right side, there are several promotional boxes: "Get FWD!", "BLENDING: VoIP, IM, Presence & Social Networking...", "The Home of Virtual Phone Numbers™", and "GRANDSTREAM BudgeTone 101 Get it Now!". At the bottom left, there's a "Von Spring 2005" logo and a partial sentence "You can start today at no cost, by either using programs".

Setting up VOI-1110

First, you need to make your internet connection work by configuring WAN setting.

1. Logon to 192.168.1.1 (this depends on your LAN setting).

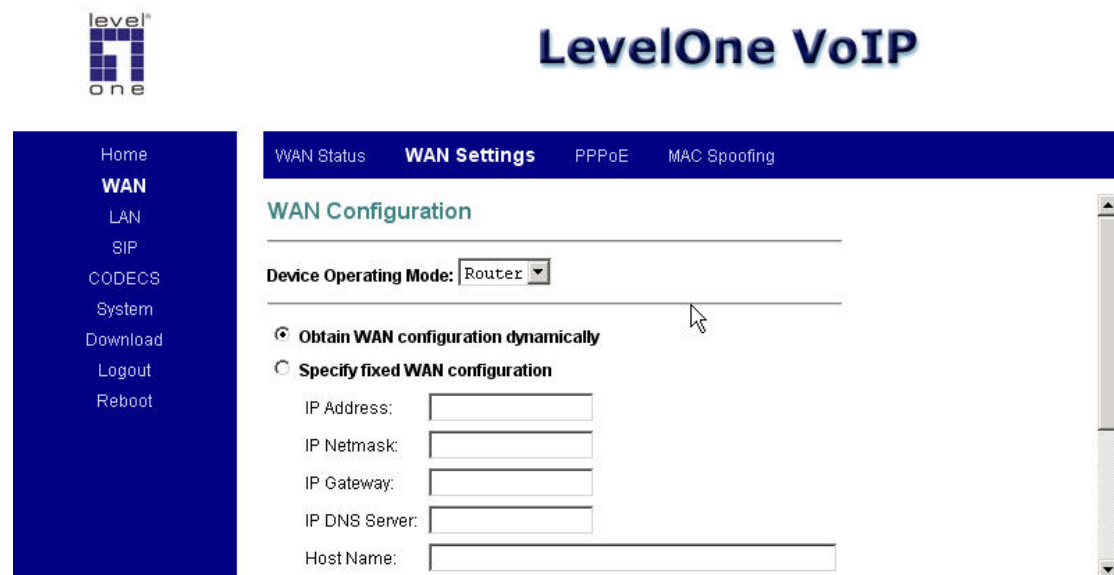


The screenshot shows the LevelOne VoIP web interface. The top left features the LevelOne logo. The main header is "LevelOne VoIP". A left sidebar menu includes: Home, WAN, LAN, SIP, CODECS, System, Download, Logout, and Reboot. The main content area is titled "Home" and contains a welcome message: "Welcome to the Smart VOIP IAD download and configuration utility. Select from the configuration options in the menu on the left." Below this is a "System Information" section with the following details:

System Uptime:	0 days, 16h 39m 0s
LAN IP Address:	192.168.1.1 (Static)
MAC Address:	00:09:26:b1:48:9a
Application Version:	0100000
Config Date:	20040101
Security:	Password installed
Application Code Version:	SIP version 2.02.005 10 EN I0 (0106)
Downloader Code Version:	2.2 EN (NTRG 000004)

At the bottom left of the main content area, it says "Copyright 2003".

2. Click "WAN" on the left and then "WAN setting", select device operating mode base on your network structure. Upon completion, click on "Save WAN setting" at bottom.



The screenshot shows the LevelOne VoIP web interface with the "WAN Settings" page selected. The top navigation bar includes: WAN Status, WAN Settings, PPPoE, and MAC Spoofing. The left sidebar menu is the same as in the previous screenshot. The main content area is titled "WAN Configuration" and features a "Device Operating Mode" dropdown menu set to "Router". Below this are two radio button options: "Obtain WAN configuration dynamically" (which is selected) and "Specify fixed WAN configuration". Under the "Specify fixed WAN configuration" option, there are input fields for: IP Address, IP Netmask, IP Gateway, IP DNS Server, and Host Name.

3. Click "PPPoE" on top. Enable PPPoE if you are using an ADSL dial-up service, enter username and password. Save PPPoE setting.



LevelOne VoIP

Home
WAN
LAN
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WAN Status WAN Settings **PPPoE** MAC Spoofing

WAN PPPoE Configuration

Enable PPPoE:

Authentication

Username:

Password:

Settings

Service Name:

AC Name:

- Click “LAN setting” on the left, under network setting, IP address, enter the IP address of your VoIP gateway. (The IP address you enter when logon to setup page)



LevelOne VoIP

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LAN Settings DHCP Routing Port Forwarding

LAN Configuration

Network Settings

IP Address:

Subnet Mask:

Multicast Limits

Broadcast limit: % (of Ethernet connection bitrate)

Multicast limit: % (of Ethernet connection bitrate)

- Click “DHCP” on top and Enable DHCP if you want VoIP gateway to assign you an IP address. Otherwise disable DHCP and manually configure the IP address.



LevelOne VoIP

The screenshot shows the DHCP Server Configuration page. The left sidebar has a menu with 'LAN' selected. The top navigation bar includes 'LAN Settings', 'DHCP', 'Routing', and 'Port Forwarding'. The main content area is titled 'DHCP Server Configuration' and contains three sections: 'Server Settings' with 'Enabled' selected and 'Client IP Address Range' set to '192.168.1.100 - 131'; 'Client Network Information' with 'Domain Name' and 'DNS Server 1' (168.95.192.1) fields; and 'Static Address Assignments' with a table header for 'Identify Using', 'Host Identifier', and 'Internal Address'.

6. Click SIP at left. SIP server setting,
Server address “fwd.pulver.com”
Port “5060”
Tick “send registration request with expire time.”
Outbound proxy IP “fwdnat.pulver.com”
Outbound proxy port “5082”.



LevelOne VoIP

The screenshot shows the SIP Configuration page. The left sidebar has a menu with 'SIP' selected. The top navigation bar includes 'SIP', 'SIP Extensions', 'OOB Signalling', and 'ToS/DiffServ'. The main content area is titled 'SIP Configuration' and contains 'SIP Server Settings' with the following fields: '* Server Address' (fwd.pulver.com), '* Port' (5060), 'Domain Name', 'Voice Port', a checked 'Send Registration Request with Expire Time' checkbox, 'Outbound Proxy IP' (fwdnat.pulver.com), and 'Outbound Proxy Port' (5082).

- Scroll down the page
Gateway setting
Dial Plan “x.t”
tick # use as a quick dial function.

Line 1(FXS) Phone number “the phone number assign to you by Free world dial up”,
username “same as the phone number” and password.

LevelOne VoIP

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SIP SIP Extensions OOB Signalling ToS/DiffServ

Stun Server IP: (IP or FQDN)
Stun Server Port:

Gateway Settings

Dial Plan:

use as a quick dial function
 To enable # to be recognized as dial number
 To enable * to be recognized as dial number

	Phone Number	CallerID Name	Port	AEC On	User Name	Password	Dial-in F
Line1:	541545		5060	ON	541545	

The next screenshot is for VOI-2100 only

Line 2(FXO) Phone number “the phone number assign to you by Free world dial up”,
username “same as the phone number” and password.

- When you call VOI-2100 this number from another VoIP gateway, you will hear dial tone and ready to dial a local call.

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SIP SIP Extensions OOB Signalling ToS/DiffServ

Stun Server IP: (IP or FQDN)
Stun Server Port:

Gateway Settings

Dial Plan:

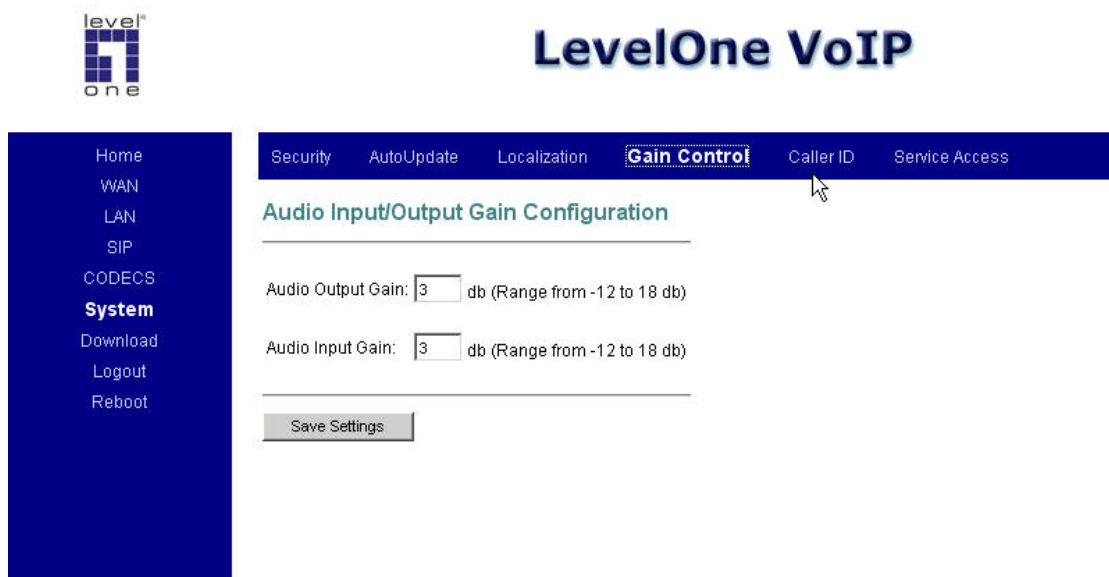
use as a quick dial function
 To enable # to be recognized as dial number
 To enable * to be recognized as dial number

	Phone Number	CallerID Name	Port	AEC On	User Name	Password	Dial-in F
Line1:	529652		5060	ON	529652	
Line2:	468887		5061	ON	468887	

7. Click system then Gain Control, Audio Input/ Output Gain Configuration,

Audio Output Gain : The volume of the earpiece.

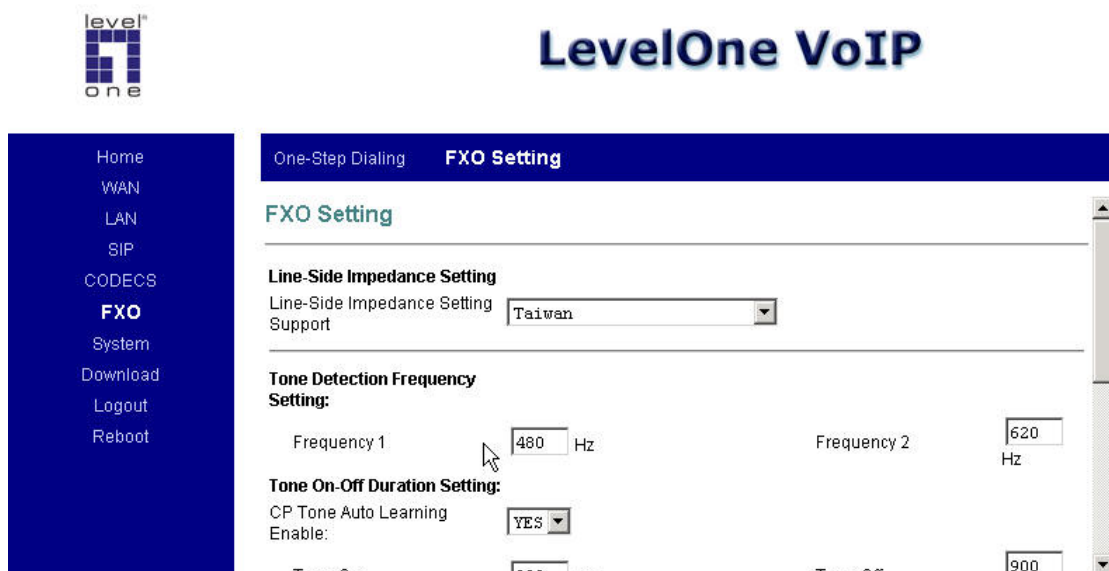
Audio Input Gain : Mic gain.



The screenshot shows the LevelOne VoIP web interface. The top navigation bar includes Security, AutoUpdate, Localization, Gain Control (highlighted), Caller ID, and Service Access. A left sidebar menu lists Home, WAN, LAN, SIP, CODECS, System (highlighted), Download, Logout, and Reboot. The main content area is titled "Audio Input/Output Gain Configuration" and contains two input fields: "Audio Output Gain: 3 db (Range from -12 to 18 db)" and "Audio Input Gain: 3 db (Range from -12 to 18 db)". A "Save Settings" button is located at the bottom of the configuration area.

The next 2 screenshots are for VOI-2100 only

8. Click "FXO" on the left screen, FXO Setting, under Line-side impedance setting, select the country you are in. Scroll down.



The screenshot shows the LevelOne VoIP web interface for the "FXO Setting" page. The top navigation bar includes One-Step Dialing and FXO Setting (highlighted). The left sidebar menu lists Home, WAN, LAN, SIP, CODECS, FXO (highlighted), System, Download, Logout, and Reboot. The main content area is titled "FXO Setting" and contains several sections: "Line-Side Impedance Setting" with a dropdown menu set to "Taiwan"; "Tone Detection Frequency Setting" with input fields for "Frequency 1" (480 Hz) and "Frequency 2" (620 Hz); and "Tone On-Off Duration Setting" with a dropdown for "CP Tone Auto Learning Enable" set to "YES" and input fields for "Tone On" (1000) and "Tone Off" (900).

9. FXO gain control (default 0), adjust the number based on your line quality.



LevelOne VoIP

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One-Step Dialing **FXO Setting**

ms

Loop Current Shutdown Detection
Detection of Loop Current:

FXO Gain Control (-12 ~ 18)

FXO Output Gain Control (To IP)	<input type="text" value="-6"/> db	FXO Output Gain Control (To PSTN)	<input type="text" value="-6"/> db
FXO Input Gain Control (To IP)	<input type="text" value="-6"/> db	FXO Input Gain Control (To PSTN)	<input type="text" value="-6"/> db

10. Click “reboot” and tick “Reboot and execute Main application” then reset.



LevelOne VoIP

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Reboot

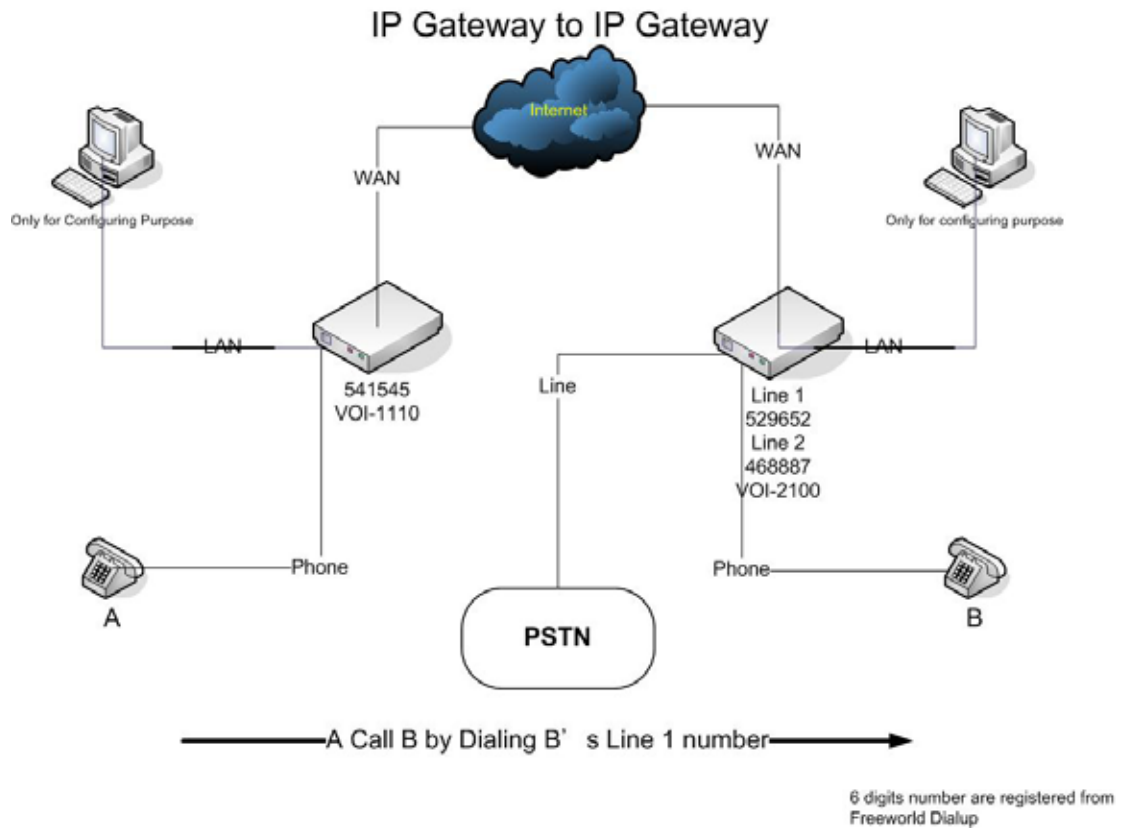
Warning! Resetting the system will terminate all network connections and reset your browser connection.

Reboot and execute Main Application
 Reboot and execute Downloader Application (For Upgrade New Firmware Only)

Making call

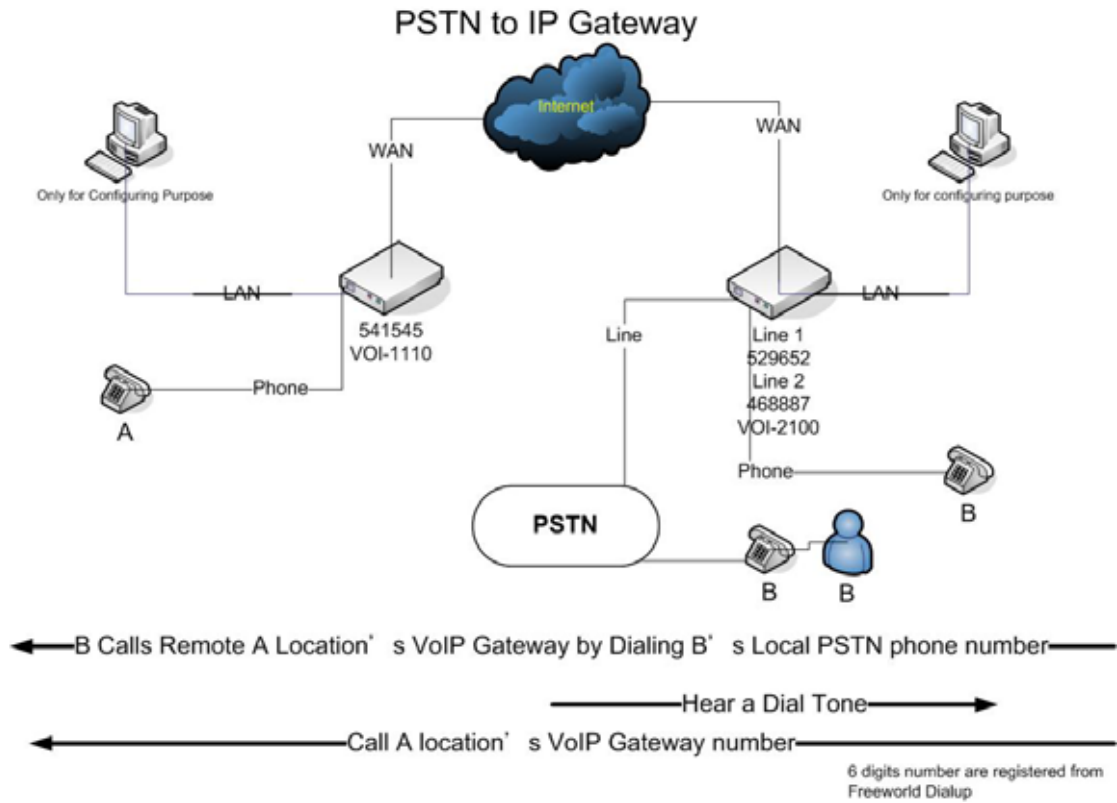
IP gateway to IP gateway

Dial the 6 digits numbers of another VoIP gateway.



From PSTN to IP Gateway

1. From a regular telephone, dial the PSTN (regular phone number) number. (The phone number that connects to the “Line” port of VOI-2100 gateway.)
2. When the gateway pick up, you will hear a normal dial tone.
3. Then dial the 6 digits phone number of another VoIP gateway.



From IP Gateway to PSTN

1. Use a telephone connects to VoIP gateway, dial the 6 digits number of Line 2 of VOI-2100 VoIP gateway.
2. After hearing the dial tone.
3. Dial the PSTN (regular phone number) or cellular number as you desire.

