

The G801 High Speed Router User's Guide



V1.1

Revision Record

Version	Date	Author	Revise Contents
V1.0	2011-4-28	Anne	
V1.1	2011-5-9	Anne	

Table of Contents

1	Preface	5
2	LED Indicators and Connectors.....	6
2.1	LED Indicators.....	6
2.2	Hardware Installation.....	7
3	Voice Prompt	8
4	Configuring Basic Settings	11
4.1	Two-Level Management.....	11
4.2	Accessing Web Page	11
4.2.1	From LAN port	11
4.2.2	From WAN port.....	12
4.3	Webpage.....	12
4.4	Setting up the Time Zone.....	13
4.5	Setting up the Internet Connection	14
4.5.1	Static IP	14
4.5.2	DHCP	15
4.5.3	PPPoE.....	15
4.6	Setting up the Wireless Connection.....	16
4.6.1	Enable Wireless and Setting SSID	16
4.6.2	Encryption	17
4.7	Register.....	17
4.7.1	Get the Accounts	17
4.7.2	Connections.....	17
4.7.3	Configuration SIP from Webpage.....	18
4.7.4	View the Register Status	18
4.8	Make Call	18
4.8.1	Calling phone or extension numbers	18
4.8.2	Direct IP calls	19
4.8.3	Call Hold	19
4.8.4	Blind Transfer	19
4.8.5	Attended Transfer.....	19
4.8.6	Conference	19
5	Web Configuration	20
5.1	Login	20
5.2	Status	22
5.3	Network.....	23
5.3.1	WAN	23
5.3.2	LAN.....	25
5.3.3	Static Mapping	27
5.3.4	DMZ/Port Forward	27
5.3.5	MAC Clone.....	28
5.3.6	VLAN.....	29

5.4	Wireless	29
5.4.1	Basic	29
5.4.2	Security	30
5.4.3	WMM	31
5.4.4	WDS	31
5.4.5	WPS	31
5.4.6	Station list.....	32
5.4.7	Advanced.....	33
5.5	VOIP.....	33
5.5.1	Media Setting	33
5.5.2	Digit Map	34
5.5.3	QoS Setting	35
5.5.4	Protocol Setting.....	35
5.5.5	Call Log.....	35
5.5.6	Other Setting	36
5.6	QoS.....	37
5.6.1	Class of Service.....	37
5.6.2	Rate Limit	38
5.6.3	Queue weight	38
5.7	Security.....	39
5.7.1	Filter	39
5.7.2	Broadcast Storm.....	39
5.7.3	Self Loop Detection	40
5.7.4	SYN Flood	40
5.7.5	MAC Flood	40
5.7.6	Abnormal Traffic	40
5.8	Administrator	41
5.8.1	General	41
5.8.2	Firmware Upgrade	41
5.8.3	Network Management	42
5.8.4	Static.....	43
5.9	System Log.....	44
5.10	Logout	44
5.11	Reboot	45
6	Trouble shooting of the guide	46
6.1	Setting your PC gets IP automatically.....	46
6.2	Can not connect to the configuration Website	47
6.3	Forget the Password.....	47

1 Preface

Thank you for choosing G801 wireless router with VoIP. This product will allow you to make ATA call using your broadband connection, and provides Wi-Fi router function.

This manual provides basic information on how to install and connect G801 wireless router with VoIP to the Internet. It also includes features and functions of wireless router with VoIP components, and how to use it correctly.

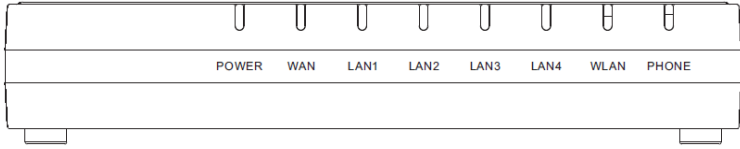
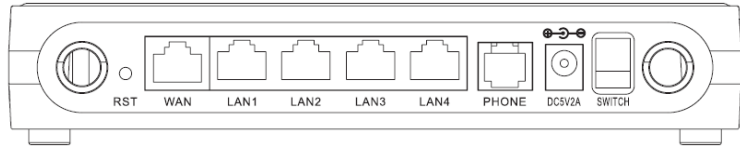
Before you can connect G801 to the Internet and use it, you must have a high-speed broadband connection installed. A high-speed connection includes environments such as DSL, cable modem, and a leased line.

G801 wireless router with VoIP is a stand-alone device, which requires no PC to make Internet calls. This product guarantees clear and reliable voice quality on Internet, which is fully compatible with SIP industry standard and able to interoperate with many other SIP devices and software on the market.

2 LED Indicators and Connectors

Before you use the high speed router, please get acquainted with the LED indicators and connectors first.

2.1 LED Indicators

Front Panel	LED	Status	Explanation
	PHONE	Blinking(Green)	Not registered.
		On (Green)	Registered
	WLAN	On (Green)	Wireless access point is ready.
		Blinking(Green)	It will blink while wireless traffic goes through.
	LAN 1/2/3/4	On (Green)	The port is connected with 100Mbps.
		Off	The port is disconnected.
		Blinking(Green)	The data is transmitting.
	WAN	On(Green)	The port is connected with 100Mbps.
		Off	The port is disconnected.
		Blinking(Green)	It will blink while transmitting data.
POWER	On(Red)	The router is powered on and running normally.	
	Off	The router is powered off.	
Rear Panel	Interface	Description	
	ON/OFF	Power Switch.	
	DC 5V/2A	Connector for a power adapter.	
	FXS	Connect to the phone.	
	WAN	Connector for accessing the Internet.	
	LAN (1/2/3/4)	Connectors for local networked devices.	

2.2 Hardware Installation

Before starting to configure the router, you have to connect your devices correctly.

Step 1. Connect Line port to land line jack with a RJ-11 cable.

Step 2. Connect the WAN port to a modem or switch or router or Internet with an Ethernet cable.

Step 3. Connect one port of 4 LAN ports to your computer with a RJ-45 cable. This device allows you to connect 4 PCs directly.

Step 4. Connect one end of the power cord to the power port of this device. Connect the other end to the wall outlet of electricity.

Step 5. Push the **ON/OFF** button to power on the router.

Step 6. Check the Power and WAN, LAN LEDs to assure network connections.

3 Voice Prompt

When the G801 is in abnormal mode (such as the WAN port is not connected, failed to register to SIP PROXY and so on),you pick up the phone and will hear the error code report.

In any circumstance, pressing the following command to enter relevant function. The following table lists command, and description.

Voice Menu Setting Options

Action	Command (press these keys on the telephone)	Choices	Description
Enter voice menu	***		Use this command to enter voice menu. Do not press any key until you hear "Language Selection". "1" is Chinese, "2" is English.
Set IP address assignment mode	1	Enter 0 to switch from DHCP, Static and PPPOE IP address assignment mode	Use this command to set G801 IP address assignment mode. If in a LAN network environment you could choose Static or DHCP mode. If in a home or SOHO network environment and connect the G801 to the ADSL modem directly, then you could choose PPPOE mode to get a IP address to your G801 (note that the account and password setting of PPPOE should be configured in web-based configuration menu) Enter 0 to switch the IP address assignment mode when you hear the prompt.
Check and set IP address	2		Use this command to hear the current IP address of WAN port of G801. When the IP address assignment mode is DHCP or PPPOE, the IP address of WAN port of G801 is assigned automatically and you needn't change it. When in Static mode you have to assign IP address of WAN port of G801 by manual. Enter the IP address when you hear the prompt and press # to indicate that you have finished entering the IP address.

Check and set network mask(or Subnet Mask)	3		<p>Use this command to hear the current subnet mask of WAN port of G801. When the IP address assignment mode is DHCP or PPPOE, the subnet mask of WAN port of G801 is assigned automatically and you needn't change it. When in Static mode you have to assign subnet mask of WAN port of G801 by manual.</p> <p>Enter the subnet mask when you hear the prompt and press # to indicate that you have finished entering the IP address.</p>
Check and set default gateway	4		<p>Use this command to hear the current default gateway of WAN port of G801.</p> <p>When the IP address assignment mode is DHCP or PPPOE, the default gateway of WAN port of G801 is assigned automatically and you needn't change it. When in Static mode you have to assign default gateway of WAN port of G801 by manual.</p> <p>Enter the default gateway when you hear the prompt and press # to indicate that you have finished entering the IP address.</p>
Check and set DNS	5		<p>Use this command to hear the current DNS of WAN port of G801. If the SIP PROXY is given in the form of domain then you must set a DNS.</p> <p>Enter DNS when you hear the prompt and press # to indicate that you have finished entering the IP address.</p>
Set IP to IP dialing	6		<p>Use this command to make a IP to IP dialing</p> <p>You could make a ATA call to the other GIX101 directly by inputting the IP address of the other GIX101 when hear the voice prompt.</p>
Reset	7	<p>Enter 1 to reboot the G801</p> <p>Enter 2 to set the G801 into default factory setting</p>	<p>Use this command to reboot the G801 or clear all the setting you have made and set the G801 into default factory setting then reboot the G801.</p> <p>Please note that if set the IVR protection enable in web-based configuration setting, you can not hear this option through voice menu.</p>

Notice:

- ◆ When using Voice Menu, press * (star) to return the main menu.
- ◆ If any changes made in the IP assignment mode, please reboot the G801 to take the setting into effect.
- ◆ When enter IP address or subnet mask, do not input "." (Dot) and make sure to input the whole 12 digital numbers.
For example, to enter the IP address 192.168.1.11 by keypad, press these keys: 192168001011. Press
- ◆ #(pound) key to indicate that you have finish entering the IP address or subnet mask
- ◆ When assigning IP address in Static IP mode, setting IP address, subnet mask and default gateway is a must. If in DHCP mode, please make sure that DHCP SERVER is available in your existing broadband connection to which WAN port of G801 is connected.
- ◆ The default LAN port IP address of G801 is 192.168.194.254 and do not set the WAN port IP address of G801 in the same network segment of LAN port of G801, otherwise it may lead to the G801 fail to work properly.

4 Configuring Basic Settings

4.1 Two-Level Management

This chapter explains how to setup a password for an administrator/root user and how to adjust basic/advanced settings for accessing Internet successfully.

G801 supports two-level management: administrator and root. For administrator mode operation, please type “**admin/admin**” on Username/Password and click **Login** button to configuration. While for root mode operation, please type “**root/skb_apx**” on Username/Password and click **Login** button for full configuration.

4.2 Accessing Web Page

4.2.1 From LAN port

1. Make sure your PC have connected to the router's LAN port correctly.



Notice: You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be the same subnet as **the default IP address of router is 192.168.30.1**. For the detailed information, please refer to the later section - **Trouble shooting of the guide**.

2. Open a web browser on your PC and type **http://192.168.30.1:62207**. The following window will be open to ask for username and password.

User Login

User Name

Password

3. For administrator mode operation, please type “**admin/admin**” on Username/Password and click Login to configuration. Yet, for root user mode operation, please type “**root/skb_apx**” on Username/Password and click Login for full configuration.



Notice: If you fail to access to the web configuration, please go to “Trouble Shooting” for detecting and solving your problem.

4. The web page can be logged out after 5 minutes without any operation.

4.2.2 From WAN port

1. Make sure your PC can connect to the router's WAN port correctly.
2. Getting the IP addresses of WAN port using Voice prompt.
3. Active: input digit "****811" to allow user to login from WAN port.
4. Open a web browser on your PC and type <http://the IP address of WAN port: 62207>. The following window will be open to ask for username and password.

User Login

User Name

Password

5. For administrator mode operation, please type "admin/admin" on Username/Password and click Login to configuration. Yet, for root user mode operation, please type "root/skb_apx" on Username/Password and click Login for full configuration.



Notice: If you fail to access to the web configuration, please go to "Trouble Shooting" for detecting and solving your problem.

6. The web page can be logged out after 5 minutes without any operation.

4.3 Webpage

	No.	Name	Description
	1	Navigation bar	Click navigation bar, many sub-navigation bar will appear in the place 2
	2	Title	Click sub-navigation bar to choose one configuration page

	3	Parameter	To configuration the parameters
<div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </div> <p style="color: red; text-align: center;">Please REBOOT to make the changes effective!</p>		<input type="button" value="Save"/>	<ul style="list-style-type: none"> ◆ Every time making some changes, user should press this button to confirm the changes. ◆ After pressing the button, the red Please REBOOT to make the changes effective! will appear to notice rebooting.
		<input type="button" value="Cancel"/>	To cancel the changes.
		<input type="button" value="Reboot"/>	Press it to reboot the router

4.4 Setting up the Time Zone

Open **System/General** webpage as shown below, please select the **Time Zone** for the router installed and specify the **NTP server (1/2)** and set the update interval in **R-Key Detecting Time (100ms)**.

General	Firmware Upgrade	Network Manager	Statistic
NTP Server 1	<input type="text" value="kr.pool.ntp.org"/>		
NTP Server 2	<input type="text" value="203.248.240.103"/>		
Time Zone	<input type="text" value="[GMT+09:00]"/>		
R-Key Detecting Time(100ms)	<input type="text" value="6"/>		
Dial Mode	<input type="text" value="Enable"/>		
IDT	<input type="text" value="4"/>		
PDT	<input type="text" value="2"/>		
IVR Protect	<input type="text" value="Disable"/>		
Loop Current	<input type="text" value="26"/>		
VRMS	<input type="text" value="63"/>		
IP Conflict Detecting Time	<input type="text" value="60"/>		
WAN Interface Login	<input type="text" value="Disable"/>		
Web Login Port	<input type="text" value="62207"/>		
Web Access Time	<input type="text" value="30"/>		

4.5 Setting up the Internet Connection

Open the **Network/WAN** webpage as shown below; please select the appropriate **IP Mode** according to the information from your ISP. There are three types offered in this page, which are Static, DHCP and PPPoE.

<ul style="list-style-type: none"> Status Network Wireless VOIP 	WAN	LAN	Static Mapping	DMZ/PortFWD	MAC Clone	VLAN	
	IP Mode						<input type="text" value="DHCP"/> <input type="text" value="Static"/> <input type="text" value="DHCP"/> <input type="text" value="PPPoE"/>
	IP Address						<input type="text" value="255.255.255.0"/>
	Subnet Mask						<input type="text" value="192.168.20.1"/>
	Gateway IP Address						<input type="text" value="192.168.20.1"/>

4.5.1 Static IP

You will receive a fixed public IP address or a public subnet, namely multiple public IP addresses from your DSL or Cable ISP service providers. In most cases, a Cable service provider will offer a fixed public IP, while a DSL service provider will offer a public subnet. If you have a public subnet, you could assign an IP address to the WAN interface.

WAN	LAN	Static Mapping	DMZ/PortFWD	MAC Clone	VLAN		
IP Mode		<input type="text" value="Static"/>				IP Address	Type the IP address
IP Address		<input type="text" value="192.168.20.101"/>				Subnet Mask	Type the subnet mask
Subnet Mask		<input type="text" value="255.255.255.0"/>				Gateway IP Address	Type the gateway IP address
Gateway IP Address		<input type="text" value="192.168.20.1"/>				Address	
PPPoE Account		<input type="text"/>				Primary DNS Server	Type in the primary IP address for the route
PPPoE Password		<input type="text"/>				Secondary DNS Server	Type in secondary IP address for necessity in the future
PPPoE Auto-Dial		<input type="text" value="Enable"/>					
DNS Mode		<input type="text" value="Manual"/>					
Primary DNS Address		<input type="text" value="202.96.134.33"/>					
Secondary DNS Address		<input type="text" value="202.96.128.86"/>					

4.5.2 DHCP

It is not necessary for you to type any IP address manually. Simply choose this type and the system will obtain the IP address automatically from DHCP server.

WAN	LAN	Static Mapping	DMZ/PortFWD	MAC Clone	VLAN
IP Mode		DHCP			
IP Address		192.168.20.101			
Subnet Mask		255.255.255.0			
Gateway IP Address		192.168.20.1			
PPPoE Account					
PPPoE Password					
PPPoE Auto-Dial		Enable			
DNS Mode		Manual			
Primary DNS Address		202.96.134.33			
Secondary DNS Address		202.96.128.86			

DNS Mode

Set the DNS Mode from Auto and Manual, If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.

Primary DNS Server

Type in the primary IP address for the route

Secondary DNS Server

Type in secondary IP address for necessity in the future

4.5.3 PPPoE

PPPoE stands for **Point-to-Point Protocol over Ethernet**. It relies on two widely accepted standards: PPP and Ethernet. It connects users through an Ethernet to the Internet with a common broadband medium, such as a single DSL line, wireless device or cable modem. All the users over the Ethernet can share a common connection.

PPPoE is used for most of DSL modem users. All local users can share one PPPoE connection for accessing the Internet. Your service provider will provide you information about user name, password, and authentication mode.

WAN	LAN	Static Mapping	DMZ/PortFWD	MAC Clone	VLAN
IP Mode		PPPoE			
IP Address		192.168.20.101			
Subnet Mask		255.255.255.0			
Gateway IP Address		192.168.20.1			
PPPoE Account					
PPPoE Password					
PPPoE Auto-Dial		Enable			

PPPoE Account

Assign a specific valid user name provided by the ISP

PPPoE Password

Assign a valid password provided by the ISP

PPPoE

If or not enable PPPoE Password.

Auto-Dial

DNS Mode

Set the DNS Mode from Auto and Manual,

	If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.
Primary DNS Server	Type in the primary IP address for the route
Secondary DNS Server	Type in secondary IP address for necessity in the future

4.6 Setting up the Wireless Connection

To set up the wireless connection, please skip the following steps.

4.6.1 Enable Wireless and Setting SSID

Open **Wireless/Basic** webpage as shown below

	<p>Click the button to enable or disable wireless.</p> <p>Press RADIO OFF to disable wireless.</p> <p>Press RADIO ON to enable wireless.</p> <p>Network Mode Choose one network mode from the drop down list.</p> <p>Off-premises 1 The name of the wireless name, it can be any text numbers or various special characters. The default SSID is "anyway". We suggest you to change it.</p> <p>Off-premises 2 The identification name of off-premises 2</p> <p>Premises It is the basic identification of the wireless LAN. The identification name of premise wireless.</p>
--	--

4.6.2 Encryption

Open **Wireless/Security** webpage to set the encryption of routers.

Basic	Security	WMM	WDS	WPS	Station List	Advanced
Select SSID						
SSID choice	<input type="text" value="anyway"/>					
"anyway"	<input type="text" value="anyway"/>					
Security Mode	<input type="text" value="802.1X"/>					
802.1x WEP						
WEP	<input checked="" type="radio"/> Disable <input type="radio"/> Enable					

SSID Choice Choose one SSID from Off-premises 1, off-premises 2 and Premises.

Select an appropriate encryption mode to improve the security and privacy of your wireless data packets.

Security Mode Each encryption mode will bring out different web page and ask you to offer additional configuration.

4.7 Register

4.7.1 Get the Accounts

G801 have a FXS port, you can use it to make SIP call, and before registering, you should get the SIP account from you administrator or provider.

4.7.2 Connections

Connect G801 to the Internet properly

4.7.3 Configuration SIP from Webpage

- Step 1. Open **VOIP/Protocol Setting** webpage, as the picture in the right side.
- Step 2. Fill the SIP Server domain and SIP Server address (which get from you administrator or provider) into Domain Name parameter, into SIP Server
- Step 3. Fill account which get from you administrator into Display Name parameter, Phone Number parameter, and Account parameter.
- Step 4. Fill password which get from you administrator into Password parameter.
- Step 5. Press button in the bottom of the webpage to save changes.

The screenshot shows the 'Protocol Setting' tab in a web interface. It contains the following fields and values:

Peer to Peer	Disable
SIP Domain Name	192.168.20.77
SIP Server Address	192.168.20.77
SIP Server Port	5060
Outbound Proxy Address	192.168.20.77
Outbound Proxy Port	5060
Phone Number	8011
Account	8011
Password	*****

At the bottom, there are 'Save' and 'Cancel' buttons.

Note: if there is *Please REBOOT to make the changes effective!*, please press button to make changes effective.

4.7.4 View the Register Status

To view the status, please open Status webpage and view the value of register status. The value is registered like the following picture which means G801 have registered normally and you can make calls.

Status	
Product Type	HYC-G801
Software Version	0.2.5 Apr 7 2011 15:10:57
Serial No	0021f2000066
Hardware Version	1.0.0
DSP Version	E1.23
Register Status	Registered

4.8 Make Call

4.8.1 Calling phone or extension numbers

To make a phone or extension number call:

- a) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) have public IP addresses, or
- b) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) are on the same LAN using private or public IP addresses, or
- c) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) can be connected through a router using public or private IP addresses.

To make a call, first pick up the analog phone or turn on the speakerphone on the analog phone, input the IP address directly, end with #.

4.8.2 Direct IP calls

Direct IP calling allows two phones, that is, an ATA with an analog phone and another VoIP Device, to talk to each other without a SIP proxy. VoIP calls can be made between two phones if:

- a) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) have public IP addresses, or
- b) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) are on the same LAN using private or public IP addresses, or
- c) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) can be connected through a router using public or private IP addresses.

To make a direct IP call, first pick up the analog phone or turn on the speakerphone on the analog phone, Input the IP address directly, with the end "#".

Note: when you want make a Direct IP call; you must configure the SIP server address to 0.0.0.0 in webpage.

4.8.3 Call Hold

While in conversation, pressing the **"*77"** to put the remote end on hold, then you will hear the dial tone and the remote party will hear hold tone at the same time.

Pressing the **"*77"** again to release the previously hold state and resume the bi-directional media.

4.8.4 Blind Transfer

Assuming that call party A and party B are in conversation. A wants to Blind Transfer B to C:

Step 1. Party A dials **"*78"** to get a dial tone, then dials party C's number, and then press immediately key # (or wait for 4 seconds) to dial out.

Step 2. A can hang up.

4.8.5 Attended Transfer

Assuming that call party A and B are in conversation. A wants to Attend Transfer B to C:

Step 1. Party A dial **"*77"** to hold the party B, when hear the dial tone, A dial C's number, then party A and party C are in conversation.

Step 2. Party A dial **"*78"** to transfer to C, then B and C now in conversation.

Step 3. If the transfer doesn't success, then A and B in conversation again.

4.8.6 Conference

Assuming that call party A and B are in conversation. A wants to add C to the conference:

Step 1. Party A dial **"*77"** to hold the party B, when hear the dial tone, A dial C's number, then party A and party C are in conversation.

Step 2. Party A dial **"*88"** to add C, then A, B and C now in conference.

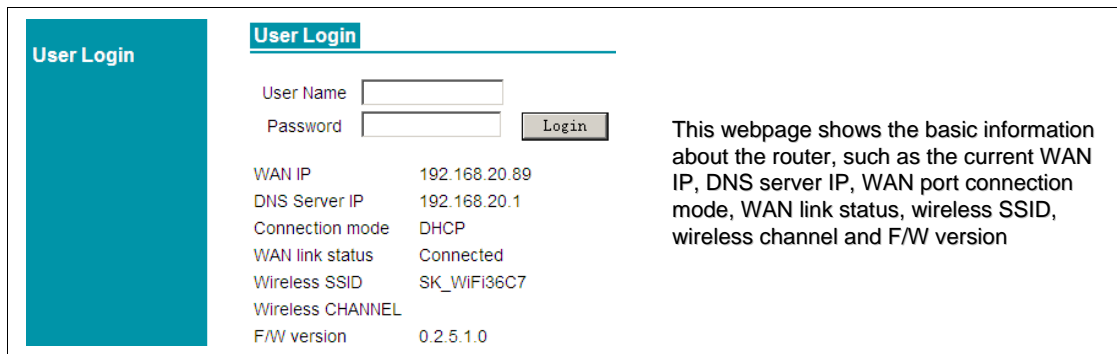
5 Web Configuration

This chapter will guide users to execute advanced (full) configuration through admin mode operation.

5.1 Login

Step 1. Connect the LAN port of the router to your PC

Step 2. Open a web browser on your PC and type in **http://192.168.30.1:62207**. The window will ask for typing username and password.



The screenshot displays the 'User Login' interface. On the left is a teal sidebar with the text 'User Login'. The main content area has a header 'User Login' and a form with 'User Name' and 'Password' input fields, followed by a 'Login' button. Below the form is a table of router status information. To the right of the table is a text block explaining the page's purpose.

WAN IP	192.168.20.89
DNS Server IP	192.168.20.1
Connection mode	DHCP
WAN link status	Connected
Wireless SSID	SK_WIFI36C7
Wireless CHANNEL	
F/W version	0.2.5.1.0

This webpage shows the basic information about the router, such as the current WAN IP, DNS server IP, WAN port connection mode, WAN link status, wireless SSID, wireless channel and F/W version

Step 3. Please type "**root/skb_apx**" on Username/Password for administration operation. Now, the Main Screen will appear like below.

Status
Network
Wireless
VOIP
QoS
Security
System
System Log
Logout
Reboot

Status	
Product Type	HYC-G801
Software Version	0.2.5 Apr 7 2011 15:10:57
Serial No	0021f2000066
Hardware Version	1.0.0
DSP Version	E1.23
Register Status	Registered
NAT Mode	Nat
Wireless Status	Off
PPPoE Link Status	Unused
anyway	On
T wifi home	On
anyway	00:21:F2:01:36:C8
SK_WIFI36C7	00:21:F2:01:36:C9
T wifi home	00:21:F2:01:36:CA
LAN Interface MAC Address	00:21:F2:01:36:C7
WAN Interface MAC Address	00:21:F2:01:36:C7
WAN Interface IP Address	192.168.20.89
Subnet Mask	255.255.255.0
Gateway IP Address	192.168.20.1
DNS Address	192.168.20.1
WAN	10MHalf
LAN1	Disconnected
LAN2	Disconnected
LAN3	Disconnected
LAN4	Disconnected
GMT Time	Fri Apr 29 17:42:16 2011
System Running Time	0 day 00:52:24

Refresh

5.2 Status

This webpage shows the status information about **product information, Network and system**.

It shows the basic information of the product, such as product name, serial number, MAC address, hardware version and software version.

It also shows the information of Link Status, WAN Port Status, and LAN Port Status.

And it shows the current time and the running time of the product.

The picture in the right side is the G801's Status webpage.

Status	Status		
Network	Product Type	HYC-G801	
Wireless	Software Version	0.2.5	Apr 7 2011 15:10:57
VOIP	Serial No	0021f2000066	
QoS	Hardware Version	1.0.0	
Security	DSP Version	E1.23	
System	Register Status	Registered	
System Log	NAT Mode	Nat	
Logout	Wireless Status	Off	
Reboot	PPPoE Link Status	Unused	
	anyway	On	
	T wifi home	On	
	anyway	00:21:F2:01:36:C8	
	SK_WIFI36C7	00:21:F2:01:36:C9	
	T wifi home	00:21:F2:01:36:CA	
	LAN Interface MAC Address	00:21:F2:01:36:C7	
	WAN Interface MAC Address	00:21:F2:01:36:C7	
	WAN Interface IP Address	192.168.20.89	
	Subnet Mask	255.255.255.0	
	Gateway IP Address	192.168.20.1	
	DNS Address	192.168.20.1	
	WAN	10MHalf	
	LAN1	Disconnected	
	LAN2	Disconnected	
	LAN3	Disconnected	
	LAN4	Disconnected	
	GMT Time	Fri Apr 29 17:42:16 2011	
	System Running Time	0 day 00:52:24	
	<input type="button" value="Refresh"/>		

5.3 Network

You can configuration the WAN port, LAN port, Static Mapping, DMZ/PortFWD, MAC Clone and VLAN in this bar.

5.3.1 WAN

This page allows you to set WAN configuration with different modes. Use the Connection Type drop down list to choose one WAN mode and then the corresponding page will be displayed.

Static IP:

You will receive a fixed public IP address or a public subnet, namely multiple public IP addresses from your DSL or Cable ISP service providers. In most cases, a Cable service provider will offer a fixed public IP, while a DSL service provider will offer a public subnet. If you have a public subnet, you could assign an IP address to the WAN interface.

WAN	LAN	Static Mapping		
IP Mode		Static	IP Address	Type the IP address
IP Address		192.168.20.102	Subnet Mask	Type the subnet mask
Subnet Mask		255.255.255.0	Gateway IP Address	Type the gateway IP address
Gateway IP Address		192.168.20.1	Primary DNS Server	Type in the primary IP address for the route
PPPoE Account			Secondary DNS Server	Type in secondary IP address for necessity in the future
PPPoE Password				
PPPoE Auto-Dial		Enable		
DNS Mode		Manual		
Primary DNS Address		202.96.134.33		
Secondary DNS Address		202.96.128.86		

DHCP:

It is not necessary for you to type any IP address manually. Simply choose this type and the system will obtain the IP address automatically from DHCP server.

WAN	LAN	Static Mapping	D
IP Mode		DHCP	
IP Address		192.168.20.102	
Subnet Mask		255.255.255.0	
Gateway IP Address		192.168.20.1	
PPPoE Account			
PPPoE Password			
PPPoE Auto-Dial		Enable	
DNS Mode		Manual	
Primary DNS Address		202.96.134.33	
Secondary DNS Address		202.96.128.86	

DNS Mode
Set the DNS Mode from Auto and Manual,
If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.

Primary DNS Server
Type in the primary IP address for the route

Secondary DNS Server
Type in secondary IP address for necessity in the future

PPPoE:

PPPoE stands for **Point-to-Point Protocol over Ethernet**. It relies on two widely accepted standards: PPP and Ethernet. It connects users through an Ethernet to the Internet with a common broadband medium, such as a single DSL line, wireless device or cable modem. All the users over the Ethernet can share a common connection.

PPPoE is used for most of DSL modem users. All local users can share one PPPoE connection for accessing the Internet. Your service provider will provide you information about user name, password, and authentication mode.

WAN	LAN	Static Mapping	D
IP Mode		PPPoE	
IP Address		192.168.20.102	
Subnet Mask		255.255.255.0	
Gateway IP Address		192.168.20.1	
PPPoE Account			
PPPoE Password			
PPPoE Auto-Dial		Enable	
DNS Mode		Manual	
Primary DNS Address		202.96.134.33	
Secondary DNS Address		202.96.128.86	

PPPoE Account
Assign a specific valid user name provided by the ISP

PPPoE Password
Assign a valid password provided by the ISP

PPPoE Auto-Dial
If or not enable PPPoE Password.

DNS Mode
Set the DNS Mode from Auto and Manual,
If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.

Primary DNS Server
Type in the primary IP address for the route

Secondary DNS Server
Type in secondary IP address for necessity in the future

DDNS Setting

DDNS Setting		DDNS Provider	Use the drop down list to select one DDNS Provider domain
DDNS Provider	NONE	DDNS Account	Fill in the DDNS account.
DDNS Account		DDNS Password	Fill in the DDNS Password.
DDNS Password		DDNS Name	Fill in the DDNS name.
DDNS Name			

5.3.2 LAN

LAN Port:

The most generic function of router is NAT. What NAT does is to translate the packets from public IP address to local IP address to forward the right packets to the right host and vice versa.

<table border="1"> <tr> <td>WAN</td> <td>LAN</td> <td>Static Mapping</td> <td>DMZ/Port</td> </tr> </table>	WAN	LAN	Static Mapping	DMZ/Port	Device Mode	Choose the LAN port mode from NAT and Bridge.
WAN	LAN	Static Mapping	DMZ/Port			
Device Mode	NAT	Local IP Address	Type in local IP address for connecting to a local private network (Default: 192.168.30.1)			
LAN Interface IP Address	192.168.30.1	Local Subnet Mask	Type in an address code that determines the size of the network. (Default: 255.255.255.0/ 24)			
LAN Interface Mask	255.255.255.192					

DHCP Server:

Router has a built-in DHCP server that assigns private IP address to each local host. DHCP stands for Dynamic Host Configuration Protocol. The router by factory default acts a DHCP server for your network so it automatically dispatch related IP settings to any local user configured as a DHCP client. It is highly recommended that you leave the router enabled as a DHCP server if you do not have a DHCP server for your network.

DHCP Option 82	Disable	DHCP Option 82	If or not enable DHCP Option 82, invalid yet.
DHCP Server	Enable	DHCP Server	If or not enable DHCP server.
DHCP Starting Address	192.168.30.2	DHCP Starting Address	Enter a value of the IP address pool for the DHCP server to start with when issuing IP addresses. If the LAN Interface IP
DHCP Ending Address	192.168.30.62		

Address of your router is 192.168.30.1, the starting IP address must be 192.168.30.2 or greater, but smaller than DHCP Ending Address.

DHCP Ending Address

Enter a value of the IP address pool for the DHCP server to end with when issuing IP addresses.

User can attribute the static IP address to DHCP client in this webpage.

Input the DHCP client's MAC address and the IP address will be attributed to DHCP client.

ID	Mac Address	IP Address
1.	<input type="text"/>	<input type="text"/>
2.	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	<input type="text"/>
4.	<input type="text"/>	<input type="text"/>

DHCP Client Table Show

Press button to open the DHCP Client table, this table shows the current status of DHCP Clients.

Hostname	Mac Address	IP Address	port	Expires
<input type="button" value="Refresh"/>	<input type="button" value="Clear List"/>			

Primary DNS(optional)

You must specify a DNS server IP address here because your ISP should provide you with usually more than one DNS Server. If your ISP does not provide it, the router will automatically apply default DNS Server IP address: 202.96.134.33 to this field.

Primary DNS(optional)

Secondary DNS(optional)

Lease Time (Min)

Secondary DNS(optional)

You must specify a DNS server IP address here because your ISP should provide you with usually more than one DNS Server. If your ISP does not provide it, the router will automatically apply default DNS Server IP address: 202.96.128.86 to this field.

Client Lease Time

If both the Primary IP and Secondary IP Address fields are left empty, the router will assign its own IP address to local users as a DNS proxy server and maintain a DNS cache.

It allows you to set the leased time for the specified PC.

5.3.3 Static Mapping

WAN	LAN	Static Mapping	DMZ/PortFWD	MAC Clone	VLAN
Src. IP addr	Dest. IP addr	Protocol	Src. port Num.	Dest. port Num.	
<input type="button" value="Add New"/>					

Picture 1

Src. IP addr	Dest. IP addr	Protocol	Src. port Num.	Dest. port Num.
Source IP address	<input type="text"/>			
Destination IP address	<input type="text"/>			
Protocal	<input type="text" value="TCP"/>			
Source Port Number	<input type="text"/>			
Destination Port Number	<input type="text"/>			

Picture 2

- Source IP address** Fill in the source IP address
- Destination IP address** Fill in the destination IP address
- Protocol** Choose the static mapping protocol from TCP and UDP
- Source Port Number** Fill in the source port number
- Destination Port Number** Fill in the destination port number
- Press it to add new static mapping

5.3.4 DMZ/Port Forward

DMZ

WAN	LAN	Static Mapping	DMZ/PortFWD	MAC Clone	VLAN
Use DMZ	<input type="text" value="Disable"/> <input type="text" value="Disable"/> <input type="text" value="Enable"/> <input type="text" value="SuperDMZ_Enable"/> <input type="button" value="OK"/>				

Picture 1

- Use DMZ** If or not enable DMZ or super DMZ.
- DMZ Host IP Address** Enter the private IP address of the DMZ host
- Super DMZ Host MAC Address** Enter the private IP address of the super DMZ host

Port Forward

Port Forwarding				
ID	Dest IP Address	Port Range		Protocol
VirtualServer 0	192.168.30.0	0	- 0	Disable
VirtualServer 1	192.168.30.0	0	- 0	Disable
VirtualServer 2	192.168.30.0	0	- 0	Disable
VirtualServer 3	192.168.30.0	0	- 0	Disable
VirtualServer 4	192.168.30.0	0	- 0	Disable
VirtualServer 5	192.168.30.0	0	- 0	Disable
VirtualServer 6	192.168.30.0	0	- 0	Disable
VirtualServer 7	192.168.30.0	0	- 0	Disable
VirtualServer 8	192.168.30.0	0	- 0	Disable
VirtualServer 9	192.168.30.0	0	- 0	Disable

Application Name	Application Mode	IP Address
Remote desktop	Disable	192.168.30.0
Netmeeting	Disable	192.168.30.0
Starcraft/Warcraft	Disable	192.168.30.0
Sudden attack	Disable	192.168.30.0
WINAMP	Disable	192.168.30.0
Window Media server	Disable	192.168.30.0

5.3.5 MAC Clone

Some ISPs will require you to register your MAC address. If you do not wish to re-register your MAC address, you can have the router clone the MAC address that is registered with your ISP. To use the Clone Address button, the computer viewing the Web-base utility screen will have the MAC address automatically entered in the Clone WAN MAC field.

WAN	LAN	Static Mapping	DMZ/PortFWD	MAC Clone	VLAN
MAC Address Clone					
Currently PC MAC Address		00:0F:3D:84:08:0C	Clone Address		
Save		Cancel			

Step 1. Press **Clone Address** button to clone the currently PC MAC address to router's Internet port.

Step 2. Press **Save** button to save the changes

Step 3. Press **Cancel** button to make changes effective

5.3.6 VLAN

Port VLAN ID Configuration

WAN	LAN1	LAN2	LAN3	LAN4
1	2	2	2	2

VLAN Configuration

VLAN ID	Port							
	WAN	LAN1	LAN2	LAN3	LAN4			
1	<input checked="" type="checkbox"/>	1	UnTagged	UnSet	UnSet	UnSet	UnSet	UnSet
2	<input checked="" type="checkbox"/>	2	UnSet	UnTagged	UnTagged	UnTagged	UnTagged	UnTagged
3	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet
4	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet
5	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet
6	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet
7	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet
8	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet
9	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet
10	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet
11	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet
12	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet
13	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet
14	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet
15	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet
16	<input type="checkbox"/>		UnSet	UnSet	UnSet	UnSet	UnSet	UnSet

5.4 Wireless

5.4.1 Basic

Wireless Network

Radio On/Off: RADIO ON Click the button to enable or disable wireless.

Network Mode: 11b/g/n mixed mode Press RADIO OFF to disable wireless.

Off-premises 1: anyway Hidden Isolated Disable Press RADIO ON to enable wireless.

Off-premises 2: wifi home Hidden Isolated Disable

premises: SK_WIFI36C7 Hidden Isolated

Radio On/Off

Network Mode Choose one network mode from the six types.

Broadcast Network Name (SSID)	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	Off-premises 1	The name of the wireless name, it can be any text numbers or various special characters. The default SSID is "anyway". We suggest you to change it.
AP Isolation	<input checked="" type="radio"/> Enable <input type="radio"/> Disable		
MBSSID AP Isolation	<input checked="" type="radio"/> Enable <input type="radio"/> Disable		
BSSID	00:21:F2:01:36:C8		
Frequency (Channel)	AutoSelect		
HT Physical Mode			
Operating Mode	<input checked="" type="radio"/> Mixed Mode <input type="radio"/> Green Field		
Channel BandWidth	<input type="radio"/> 20 <input checked="" type="radio"/> 20/40		
Guard Interval	<input type="radio"/> long <input checked="" type="radio"/> Auto		
MCS	Auto		
Reverse Direction Grant(RDG)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable	Off-premises 2	The identification name of off-premises 2
STBC	<input type="radio"/> Disable <input checked="" type="radio"/> Enable		
Aggregation MSDU(A-MSDU)	<input checked="" type="radio"/> Disable <input type="radio"/> Enable		
Auto Block ACK	<input type="radio"/> Disable <input checked="" type="radio"/> Enable		
Decline BA Request	<input checked="" type="radio"/> Disable <input type="radio"/> Enable		
HT Disallow TKIP	<input checked="" type="radio"/> Disable <input type="radio"/> Enable		
Other			
HT TxStream	2		
HT RxStream	2		
Max Client Num	32 (1 - 32, default 32)		
RSSI threshold	-75 (default -75dBm)		
Rate Limit		Premises	It is the basic identification of the wireless LAN. The identification name of premise wireless.
Off Premise 2(T wifi home)	10		

5.4.2 Security

Basic	Security	WMM	WDS	WPS	Station List	Advanced	SSID Choice	Choose one SSID from Off-premises 1, off-premises 2 and Premises.
Select SSID	SSID choice	<div style="border: 1px solid black; padding: 2px;"> anyway anyway SK_WiFi36C7 T wifi home 802.1X </div>						
"anyway"	Security Mode	802.1X						
802.1x WEP	WEP	<input checked="" type="radio"/> Disable <input type="radio"/> Enable						

5.4.3 WMM

Basic	Security	WMM	WDS	WPS		
WMM Parameters of Access Point						
	Aifsn	CWMin	CWMax	Txop	ACM	AckPolicy
AC_BE	<input type="text" value="3"/>	<input type="text" value="15"/>	<input type="text" value="63"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>
AC_BK	<input type="text" value="7"/>	<input type="text" value="15"/>	<input type="text" value="1023"/>	<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>
AC_VI	<input type="text" value="1"/>	<input type="text" value="7"/>	<input type="text" value="15"/>	<input type="text" value="94"/>	<input type="checkbox"/>	<input type="checkbox"/>
AC_VO	<input type="text" value="1"/>	<input type="text" value="3"/>	<input type="text" value="7"/>	<input type="text" value="47"/>	<input type="checkbox"/>	<input type="checkbox"/>

(-Reboot and Effect)

5.4.4 WDS

Basic	Security	WMM	WDS	WPS
Wireless Distribution System(WDS)				
WDS Mode	<input type="text" value="Bridge Mode"/>			
Phy Mode	<input type="text" value="Disable"/>			
EncrypType	<input type="text" value="Bridge Mode"/>			
Encryp Key	<input type="text"/>			
EncrypType	<input type="text" value="NONE"/>			
Encryp Key	<input type="text"/>			
EncrypType	<input type="text" value="NONE"/>			
Encryp Key	<input type="text"/>			
EncrypType	<input type="text" value="NONE"/>			
Encryp Key	<input type="text"/>			
AP MAC Address	<input type="text"/>			
AP MAC Address	<input type="text"/>			
AP MAC Address	<input type="text"/>			
AP MAC Address	<input type="text"/>			

(-Reboot and Effect)

5.4.5 WPS

WPS (**Wi-Fi Protected Setup**) provides easy procedure to make network connection between wireless station and wireless access point (vigor router) with the encryption of WPA and WPA2.

It is the simplest way to build connection between wireless network clients and vigor router. Users do not need to select any encryption mode and type

any long encryption passphrase to setup a wireless client every time. He/she only needs to press a button on wireless client, and WPS will connect for client and router automatically.

Basic	Security	WMM	WDS	WPS	WPS	If or not enable WPS.	
WPS Config							
WPS:		<input type="button" value="Enable"/>				<input type="button" value="Apply"/>	Press the button to apply.
<input type="button" value="Apply"/>							

5.4.6 Station list

Basic	Security	WMM	WDS	WPS	Station List	Advanced		
Wireless Network								
MAC Address	Aid	PSM	MimoPS	MCS	BW	SGI	STBC	Action

5.4.7 Advanced

Basic	Security	WMM	WDS	WPS	Station List	Advanced
Advanced Wireless						
BG Protection Mode		<input type="text" value="Auto"/>				
Beacon Interval		<input type="text" value="100"/> ms (range 20 - 999, default 100)				
Data Beacon Rate (DTIM)		<input type="text" value="3"/> (range 1 - 255, default 3)				
Fragment Threshold		<input type="text" value="2346"/> (range 256 - 2346, default 2346)				
RTS Threshold		<input type="text" value="2347"/> (range 1 - 2347, default 2347)				
TX Power		<input type="text" value="100"/> (range 1 - 100, default 100)				
Short Preamble		<input type="radio"/> Enable <input checked="" type="radio"/> Disable				
Short Slot		<input checked="" type="radio"/> Enable <input type="radio"/> Disable				
Tx Burst		<input checked="" type="radio"/> Enable <input type="radio"/> Disable				
Pkt_Aggregate		<input checked="" type="radio"/> Enable <input type="radio"/> Disable				
IEEE 802.11H Support		<input type="radio"/> Enable <input checked="" type="radio"/> Disable (only in A band)				
Country Code		<input type="text" value="NONE"/>				
Carrier Detect		<input type="radio"/> Enable <input checked="" type="radio"/> Disable				
Wi-Fi Multimedia						
WMM Capable						
SSID		<input checked="" type="checkbox"/>	MSSID1			<input type="checkbox"/>
MSSID2		<input type="checkbox"/>				
APSD Capable		<input type="radio"/> Enable <input checked="" type="radio"/> Disable				
Multicast-to-Unicast Converter						
Multicast-to-Unicast		<input type="radio"/> Enable <input checked="" type="radio"/> Disable				
(-Reboot and Effect)						

5.5 VOIP

5.5.1 Media Setting

	Audio Codec Type1	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
	Audio Codec Type2	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723

Media Setting	Digit Map	QoS Setting	Parameter	Description
Audio Codec Type 1	G. 711A		Audio Codec Type3	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
Audio Codec Type 2	G. 711U		VAD&CNG	If or not enable VAD&CNG
Audio Codec Type 3	G. 729		Echo Cancel	If or not enable Echo Cancel
VAD&CNG	Disable		AEC	If or not enable AEC
Echo Cancel	Enable		Jitter Buffer	If or not enable Jitter Buffer
AEC	Disable		Packet Cycle(ms)	If or not enable Packet Cycle(ms)
Jitter Buffer	40		Input Volume	Adjust the input gain from 0-8
Packet Cycle(ms)	20ms		Output Volume	Adjust the output gain from 0-8
Input Volume(0-8)	6			
Output Volume(0-8)	6			

5.5.2 Digit Map

Media Setting	Digit Map	QoS Setting
---------------	-----------	-------------

Index	Match Number	Dial Out
1	0211[2349]	Dial
2	0[3-6][1-5]11[2349]	Dial
3	7.....	Dial
4	02[26].....	Dial
5	02[4589].....	Dial
6	027[012345678].....	Dial
7	02791[019]...	Dial

5.5.3 QoS Setting

Media Setting	Digit Map	QoS Setting	Pro
Voip Packet Layer 3 SIP QoS		<input type="text" value="46"/>	
Voip Packet Layer 3 RTP QoS		<input type="text" value="46"/>	
Voip Packet Layer 3 Data QoS		<input type="text" value="0"/>	

5.5.4 Protocol Setting

Media Setting	Digit Map	QoS Setting	Protocol Setting
Peer to Peer	<input type="text" value="Disable"/>		<p>Peer to Peer</p> <p>If or not enable PEER to PEER</p> <ul style="list-style-type: none"> ◆ If enable, G801 will not send register request to SIP server; ◆ In System Status, Status is Registered; ◆ G801 can make call out, but others can not call G801.
SIP Domain Name	<input type="text" value="192.168.20.196"/>		<p>SIP Domain Name</p> <p>The domain of SIP Server</p>
SIP Server Address	<input type="text" value="192.168.20.196"/>		<p>SIP Server Address</p> <p>The IP address of SIP Server</p>
SIP Server Port	<input type="text" value="5060"/>		<p>SIP Server Port</p> <p>The port which SIP Server supports for VOIP service, default is 5060</p>
Outbound Proxy Address	<input type="text" value="192.168.20.196"/>		<p>Outbound Proxy Address</p> <p>Outbound Proxy IP or domain name</p>
Outbound Proxy Port	<input type="text" value="5060"/>		<p>Outbound Proxy Port</p> <p>Outbound Proxy's Service port</p>
Phone Number	<input type="text" value="112"/>		<p>Phone Number</p> <p>Number of telephone provided by SIP Proxy</p>
Account	<input type="text" value="112"/>		<p>Account</p> <p>SIP account provided by SIP Proxy</p>
Password	<input type="text" value="*****"/>		<p>Password</p> <p>SIP password provided by SIP Proxy</p>

5.5.5 Call Log

This webpage displays the logs about the call in, call out.

		Media Setting	Digit Map	QoS Setting	Protocol Setting	Call Log	Other Setting
Index	IN/OUT	NUMBER	Start Time	End Time	Result		
1	Out	111	2011-04-29 18:53:07	2011-04-29 18:53:12	O		
2	Out	111	2011-04-29 18:53:14	2011-04-29 18:53:18	O		
3	Out	111	2011-04-29 18:53:19	2011-04-29 18:53:25	O		
4	Out	1	2011-04-29 18:54:04	2011-04-29 18:54:04	X		
5	Out	71	2011-04-29 18:54:06	2011-04-29 18:54:08	O		

5.5.6 Other Setting

		Media Setting	Digit Map	QoS Setting	Protocol Setting	Call Log	Other Setting
Domain name Mode							Enable
Carry Port Information							Disable
DTMF Mode							Inband
RFC2833 Payload(>=96)							101
Dial Prefix							
Register Refresh Interval(Second)							3600
RTP Starting Port(10000-50000)							22500
RTP Ending Port(10000-50000)							24970
Signal Port							5060
Cancel Message Enable							Disable
Prack Enable							Disable
Sip Ping Enable							Disable
Call Anonymous							Disable
CID Serv							Enable
CWCID Serv							Enable
Link Test Time Settings(Second)							0
Nat activate interval(60-160s)							0
T38 Enable							Disable
T38 Redundancy							0
Session Expires							0
Tel URL							Disable

5.6 QoS

5.6.1 Class of Service

Class of Service			Rate Limit			Queue weight										
Condition												Action				
name	Src. IP addr/mask	Dest. IP addr/mask	Protocol	Src. port start No.	Src. port end No.	Dest. port start No.	Dest. port end No.	Physical Port	DSCP	802.1p	VLAN_ID	Remark DSCP	Remark 802.1p	Remark VLAN_ID	Priority	Drop
Condition																
Rule Name	<input type="text"/>															
Source IP address	<input type="text"/> / <input type="text"/>															
Destination IP address	<input type="text"/> / <input type="text"/>															
Protocol	<input type="text"/>															
Source Port Number	<input type="text"/> : <input type="text"/>															
Destination Port Number	<input type="text"/> : <input type="text"/>															
Physical Port	<input type="text"/>															
DSCP	<input type="text"/>															
802.1p	<input type="text"/>															
VLAN_ID (802.1Q)	<input type="text"/>															
Action																
Remark DSCP	<input type="text"/>															
Remark 802.1p	<input type="text"/>															
Remark VLAN_ID	<input type="text"/>															
Assign Queue	<input type="text"/>															
Drop	<input type="radio"/> Enable <input checked="" type="radio"/> Disable															

5.6.2 Rate Limit

Class Of Service	Rate Limit	Queue weight
Port	Bandwidth	
WAN	<input type="text" value="100"/>	Mbps
LAN1	<input type="text" value="100"/>	Mbps
LAN2	<input type="text" value="100"/>	Mbps
LAN3	<input type="text" value="100"/>	Mbps
LAN4	<input type="text" value="100"/>	Mbps

5.6.3 Queue weight

Class of Service	Rate Limit	Queue weight
Queue	Weight	
VO	<input type="text" value="255"/>	
CL	<input type="text" value="5"/>	
BE	<input type="text" value="3"/>	
BK	<input type="text" value="2"/>	

5.7 Security

5.7.1 Filter

Filter	Broadcast Storm	Self Loop Detection	SYN Flood	MAC Flood	Abnormal Traffic
---------------	-----------------	---------------------	-----------	-----------	------------------

Choose Port

Basic Settings	WAN	LAN1	LAN2	LAN3	LAN4
MAC/IP/Port Filtering	Disable	Disable	Disable	Disable	Disable
Default Policy	Accept	Accept	Accept	Accept	Accept

MAC address	Dest IP Addr.	Source IP Addr.	Protocol	Dest.Port Range	Src.Port Range	Physical Port	Action	Comment
-------------	---------------	-----------------	----------	-----------------	----------------	---------------	--------	---------

Add New

Web URL Filter

eg. http://www.xxx.com

1.
2.
3.
4.
5.

5.7.2 Broadcast Storm

Filter	Broadcast Storm	Self Loop Detection	SYN Flood	MAC Flood	Abnormal Traffic
--------	------------------------	---------------------	-----------	-----------	------------------

Broadcast Storm Defense

Port	Enable	1024	packets/sec
------	--------	------	-------------

Save

Cancel

5.7.3 Self Loop Detection

Filter	Broadcast Storm	Self Loop Detection	SYN Flood	MAC Flood	Abnormal Traffic
Self Loop Detection					
WAN			Disable		
LAN1			Disable		
LAN2			Disable		
LAN3			Disable		
LAN4			Disable		

5.7.4 SYN Flood

Filter	Broadcast Storm	Self Loop Detection	SYN Flood	MAC Flood	Abnormal Traffic
Limit SYN packets	Disable		0	packets/sec	

5.7.5 MAC Flood

Filter	Broadcast Storm	Self Loop Detection	SYN Flood	MAC Flood	Abnormal Traffic
MAC Flood Guard: Limit L2 flooding packets	Disable		0	pps	

5.7.6 Abnormal Traffic

Filter	Broadcast Storm	Self Loop Detection	SYN Flood	MAC Flood	Abnormal Traffic
ARP	Disable		0	Mbps	
DHCP	Disable		0	Mbps	

5.8 Administrator

5.8.1 General

General	Firmware Upgrade	Network Manager	Statistic
NTP Server 1	<input type="text" value="kr.pool.ntp.org"/>		
NTP Server 2	<input type="text" value="203.248.240.103"/>		
Time Zone	[GMT+09:00] ▼		
R-Key Detecting Time(100ms)	<input type="text" value="6"/>		
Dial Mode	Enable ▼		
IDT	<input type="text" value="4"/>		
PDT	<input type="text" value="2"/>		
IVR Protect	Disable ▼		
Loop Current	<input type="text" value="26"/>		
VRMS	63 ▼		
IP Conflict Detecting Time	<input type="text" value="60"/>		
WAN Interface Login	Disable ▼		
Web Login Port	<input type="text" value="62207"/>		
Web Access Time	<input type="text" value="30"/>		
<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Default Settings"/> <input type="button" value="Clear Syslog"/>			

NTP Server 1	Fill NTP server IP address or Domain name
NTP Server 2	Fill NTP server IP address or Domain name
Time Zone	Choose the time zone
R-Key Detecting Time(100ms)	Set the re-detect time
Dial Mode	If or not enable dial mode
IVR Protect	G801 has IVR function. Use the drop-down list to enable/disable it.
IP Conflict Detecting Time	Set the IP conflict detecting time.
WAN Interface Login	If or not enable user to login web from WAN port.
Web Login Port	The login port of web.
Web Access Time	Set the web access time.

5.8.2 Firmware Upgrade

Local Upgrade

Update Type ▼

Local Upgrade

- 1) Choose upgrade file type from **Image File** and **Dial Rule**
- 2) Press to browser file.
- 3) Press to start upgrading.

Remote Upgrade

Remote upgrade
http server address
File Name

<input type="text"/>
<input type="text"/>

- 1) Fill the http server IP address or domain name in **http server address**.
- 2) Fill the name of upgrade file in **File Name**
- 3) Press to start upgrading.

5.8.3 Network Management

AP

AP	
SWMS	<input type="text" value="Disable"/>
SWMS Server Address	<input type="text" value="iptvsh-mgmt.skbro"/>
SNMP	<input type="text" value="enable"/>
Trap Server Address	<input type="text" value="iptvsh-trap.skbro"/>
Read Community Name	<input type="text" value="....."/>
Write Community Name	<input type="text" value="....."/>
Trap Community Name	<input type="text" value="....."/>
Statistic Trap	<input type="text"/>
Statistic Trap Server Address	<input type="text" value="iptvap-trap.skbro"/>
Statistic Trap Community Name	<input type="text" value="....."/>

MTA

MTA	
TAPS	disable
Upgrade Interval(minute)	0
TAPS Address	taps.skbroadband.
TAPS Port	19700
Download Server Http Port	80
Download Server Type	HTTP
SNMP	
SNMP	enable
Periodic Trap Server Address	trap1.itss.skbroa
Event Trap Server Address	trap2.itss.skbroa
Read Community Name
Write Community Name
Trap Community Name

System Log

System Log			
Local SysLog	Enable	Local Syslog	If or not enable local syslog. If enable, routers will record the system log and user can view the log in System Log webpage.
Remote SysLog	Disable	Remote Syslog	If or not enable remote syslog.
Remote SysLog Server		Syslog Server	Fill in the IP address of syslog server.

5.8.4 Static

General		Firmware Upgrade		Network Manager		Statistic	
SSID & Port		Rx Packet	Rx Kbyte	Tx Packet	Tx Kbyte		
WLAN	SK_WIFI36C7	0	0	0	0		
	SK_VoIP	0	0	0	0		
	T wifi home	0	0	0	0		
	anyway	0	0	0	0		

Refresh

5.9 System Log

If you enable the system log in **System/Network Management** webpage, you can view the system log in this webpage.

Status	<Tue May 3 16:33:05 2011>REG MSG:REGISTER is sent
	<Tue May 3 16:33:05 2011> kernel: #####LedStatusSet: 1, 0, 2, 50, 2, 50
Network	<Tue May 3 16:32:56 2011>Reg Status: Terminated[0]
	<Tue May 3 16:32:55 2011> kernel: #####LedStatusSet: 1, 0, 2, 50, 2, 50
Wireless	<Tue May 3 16:32:55 2011>Reg Status: FAILED
	<Tue May 3 16:32:33 2011>REG MSG:REGISTER is sent
VOIP	<Tue May 3 16:32:33 2011> kernel: #####LedStatusSet: 1, 0, 2, 50, 2, 50
	<Tue May 3 16:32:23 2011>Reg Status: Terminated[0]
QoS	<Tue May 3 16:32:22 2011> kernel: #####LedStatusSet: 1, 0, 2, 50, 2, 50
	<Tue May 3 16:32:22 2011>Reg Status: FAILED
Security	<Tue May 3 16:31:59 2011>REG MSG:REGISTER is sent
	<Tue May 3 16:31:59 2011> kernel: #####LedStatusSet: 1, 0, 2, 50, 2, 50
System	<Tue May 3 16:31:50 2011>Reg Status: Terminated[0]
	<Tue May 3 16:31:50 2011> kernel: #####LedStatusSet: 1, 0, 2, 50, 2, 50
System Log	<Tue May 3 16:31:50 2011>Reg Status: FAILED
	<Tue May 3 16:31:27 2011>REG MSG:REGISTER is sent
Logout	<Tue May 3 16:31:27 2011> kernel: #####LedStatusSet: 1, 0, 2, 50, 2, 50
	<Tue May 3 16:31:17 2011>Reg Status: Terminated[0]
Reboot	<Tue May 3 16:31:17 2011>Resolving Outbound Proxy IP OK
	<Tue May 3 16:31:16 2011> kernel: #####LedStatusSet: 1, 0, 2, 50, 2, 50
	<Tue May 3 16:31:16 2011>Reg Status: FAILED
	<Tue May 3 16:30:54 2011>REG MSG:REGISTER is sent
	<Tue May 3 16:30:54 2011> kernel: #####LedStatusSet: 1, 0, 2, 50, 2, 50
	<Tue May 3 16:30:46 2011>Super User Login Web
	<Tue May 3 16:30:45 2011>Reg Status: Terminated[0]
	<Tue May 3 16:30:44 2011> kernel: #####LedStatusSet: 1, 0, 2, 50, 2, 50
	<Tue May 3 16:30:44 2011>Reg Status: FAILED
	<Tue May 3 16:30:21 2011>REG MSG:REGISTER is sent
	<Tue May 3 16:30:21 2011> kernel: #####LedStatusSet: 1, 0, 2, 50, 2, 50
	<Tue May 3 16:30:11 2011>Reg Status: Terminated[0]
	<Tue May 3 16:30:10 2011> kernel: #####LedStatusSet: 1, 0, 2, 50, 2, 50

5.10 Logout

Press the **logout** button to logout, and then the login window will appear.

User Login

User Name
Password

WAN IP 192.168.20.86
DNS Server IP 192.168.20.1
Connection mode DHCP
WAN link status Connected
Wireless SSID SK_WIFI36C7
Wireless CHANNEL
F/W version 0.2.5.1.0

5.11 Reboot

Press the **Reboot** button to reboot G801.

6 Troubleshooting of the guide

6.1 Setting your PC gets IP automatically

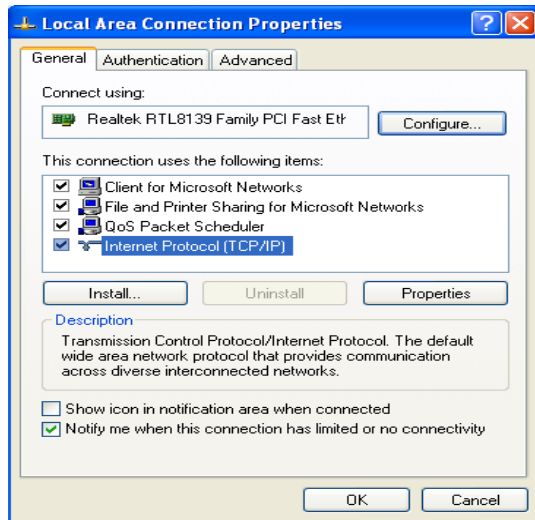
Following are the process of setting your PC gets IP automatically

Step 1. Click the “begin”

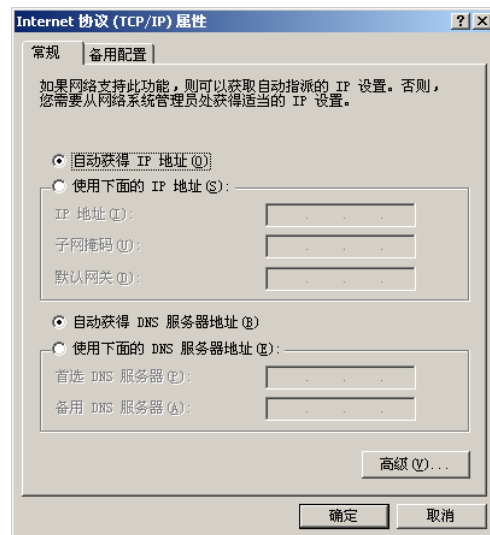
Step 2. Select “control panel”, then double click “network connections” in the “control panel”

Step 3. Right clicks the “network connection” that your PC uses, select “attribute” and you can see the interface as picture 1:

Step 4. Select “Internet Protocol (TCP/IP)”, click “attribute” button, and you can see the interface as following Picture 2 and you should click the “Get IP address automatically”.



Picture 1



Picture 2

6.2 Can not connect to the configuration Website

Solution:

Check if the Ethernet cable is properly connected, then

Check if the URL is right wrote, the format of URL is: **http:// the IP address: 62207, 62207** must be added, then

Check if the version of IE is IE8, or use other browser such as Firefox or Mozilla, then

Contact your administrator, supplier, or ITSP for more information or assistance.

6.3 Forget the Password

If user changed the password and then forgot, you can not access to the configuration website.

Solution:

To factory default: press reset button 10s.

Thank You!

Beijing Flying Voice Technology Limited

Beijing

Add: Room415, ChuangXin Building A#, No.12 HongDa North
Rd, BDA, Beijing, China

ZIP code:100176

Tel: +86-10-67886296

Fax: +86-10-67883237

Shenzhen

Add: Room7007, Tiansha Building, MajiaLong, Industrial area,
NanShan district, Shenzhen, China

ZIP code:518052

Tel: +86-755-26099365

Fax:+86-755-26099347

EASY3CALL Technology Limited. (Beijing)

Support Contact: Rong Peng (pengrong@e3call.com)

Sales Contact: Faye Wang (fayewang@e3call.com / Sales@e3call.com)