



SIP Proxy Server

SIP-50

User's Manual

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Customer Service

For information on customer service and support for the SIP Proxy Server, please refer to the following Website URL :

<http://www.planet.com.tw>

Before contacting customer service, please take a moment to gather the following information :

- ◆ SIP Proxy Server serial number and MAC address
- ◆ Any error messages that displayed when the problem occurred
- ◆ Any software running when the problem occurred
- ◆ Steps you took to resolve the problem on your own

Revision

User's Manual for PLANET SIP Proxy Server

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Chapter 1 : Introduction

The PLANET SIP Proxy Server is a call-control platform with IETF Standard Protocol SIP. It enables company to build scalable, reliable packet-voice networks. Deployed at the heart of a SIP network, the SIP Proxy server can act as a stand-alone registrar server or a redirect server. The proxy server optimizes the productivity of any SIP network by efficiently routing calls between application servers, voice gateways and IP endpoints. The SIP-50 will automatic NAT transversal for signaling and voice stream. User can setup the VoIP gateway or IP Phone in a private network easily, without the cumbersome settings of router.

1.1 Features

- ◆ SIP Proxy Server is RFC 3261 compliant. RFC 3261 is the latest IETF RFC for Session Initiation Protocol
- ◆ Operates as a stateful proxy or redirect proxy
- ◆ LCD panel for initial setup and network information display
- ◆ Remote configuration through standard web browser with SSL security
- ◆ Supports SNMP to simplify management
- ◆ Simple backup and restore of configuration files with full SSL protection
- ◆

1.2 Package Contents

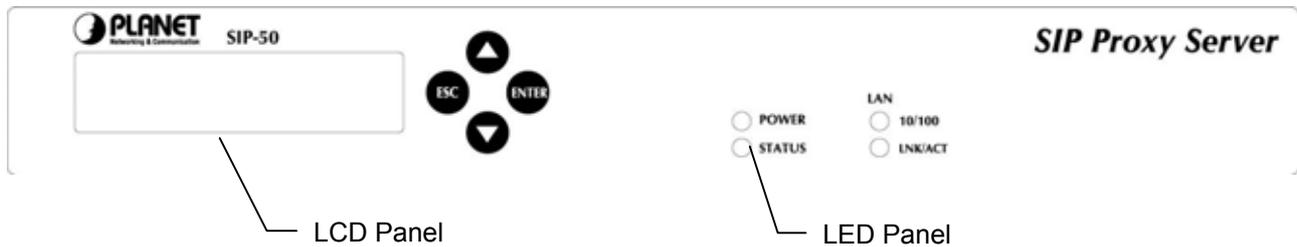
The following items should be included:

- ◆ SIP Proxy Server
- ◆ Power Cord
- ◆ Quick Installation Guide
- ◆ User's Manual and utility CD
- ◆ RJ-45 cable x 1
- ◆ Console cable x 1

If any of the contents are missing or damaged, please contact your dealer or distributor immediately.

1.3 SIP Proxy Server Front View

- Front View:



LCD Panel: Used to make IP settings, view IP settings, reboot system, show service information, reset password and reset all configuration. It also show the average bandwidth usage for past 10 seconds when not in configuration mode. Check section “Initial Setup by LCD panel” for detail on IP settings. The following table shows the button function.

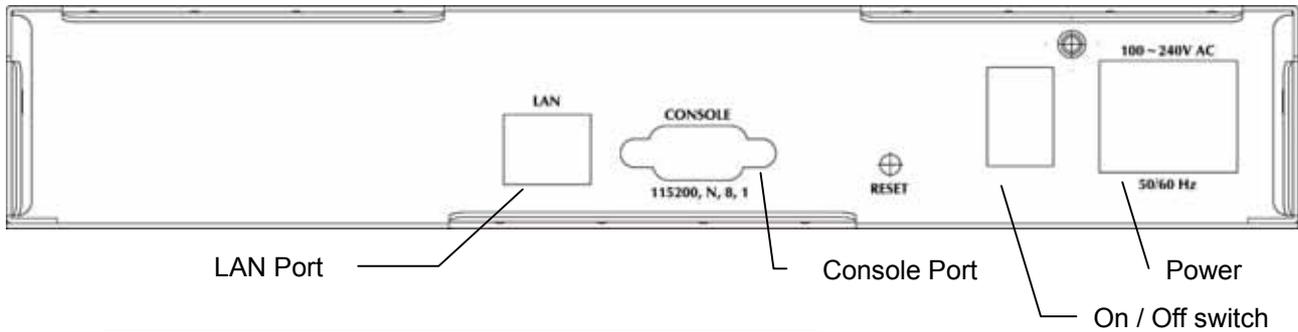
Button	Function
(Enter)	Used to select or confirm the selection
(ESC)	Used to cancel the selection or back to previous manual
(▲)	Change to previous option or increase the number. Press longer to increase the number by 10.
(▼)	Change to next option or decrease the number. Press longer to decrease the number by 10.

LED Panel: Used to show the system and connection status. The following table show the connection LED definition.

LED	Status	Meaning
PWR	Lit Green	Indicates the device is receiving power
STATUS	Lit Red	Indicates the device is reading data from memory
LNK	Lit Green	Link is established on machine LAN interface
ACT	Blink Green	Packets are transmitting or receiving on LAN port
100	Lit Green	Indicates the link operate on 100Mbps
	Off	Indicates the link operate on 10Mbps

1.4 SIP Proxy Server Rear Panel

- Rear View:



Port	Function
Power	This is where you will connect the AC power cord. 100~240VAC is allowed.
On/Off Switch	You can turn on/off this device by the switch when the power cord is connected
LAN Port	This is where you will connect the RJ-45 line to your local switch or device. This port is MDI interface
Console	This port is reserved for manufacturer use only

1.5 Specification

Product	SIP Proxy Server
Model	SIP-50
Hardware	
Connections	10/100Base-TX
Button	Hardware Reset
LCD Panel	16x2 characters LCD
System LED	System: PWR, STATUS Network: ACT, LNK, 100 for LAN ports
Power	100~240 VAC, 50~60Hz
Operating Environment	Temperature: 5~40°C Relative Humidity: 20%~90%
Dimension W x D x H	255 x 271 x 44
Regulatory	FCC, CE Mark
Software	
Standard Protocol Support	RFC 3261, RFC 2976, RFC 3263, RFC 2327, RFC 2833, RFC 3581
SIP Registrar	SIP Registrar Dynamic Register Registrar Authentication MD5
SIP Outbound Proxy Server	Stateful Proxy Server Support Call-based Authentication MD5 Sequential & Parallel Call Forking Support Inter-Proxy Auto NAT User Detect
Telephony Features	Call Transfer (client-based), Call Waiting, Call Hold, 3-Way Call Conference Unconditional, No Answer, Busy Prefix Route
NAT Traversal	NAT Traversal Support for Outbound and Inbound Automatically NAT detection and RTP Proxy Support NAT Partition Intelligent RTP Proxy Resource Management
AAA	Daily CDR File in Local Storage CDR auto export to ftp server Registrar Authentication use external RADIUS Server
Management	Console, SSH, SNMP, LCM and Web-based Management Browser-based Real Time Monitor Password Security User Account Manager NTP time synchronization (SNTP V4) Time Zone Support
Max System Capacity	Max Subscribers Support: 200 Max Concurrent Call: 50 Call Attempt per Seconds: 50 cps Max Concurrent RTP Support for NAT user: 50

Chapter 2 : Hardware Installation

2.1 Installation Requirements

Before installing the SIP Proxy Server, make sure your network meets the following requirements.

- Mechanical Requirements

The SIP Proxy Server can be installed anywhere in the network. The SIP Proxy Server can be placed on the table or rack. Locate the unit near the power outlet.

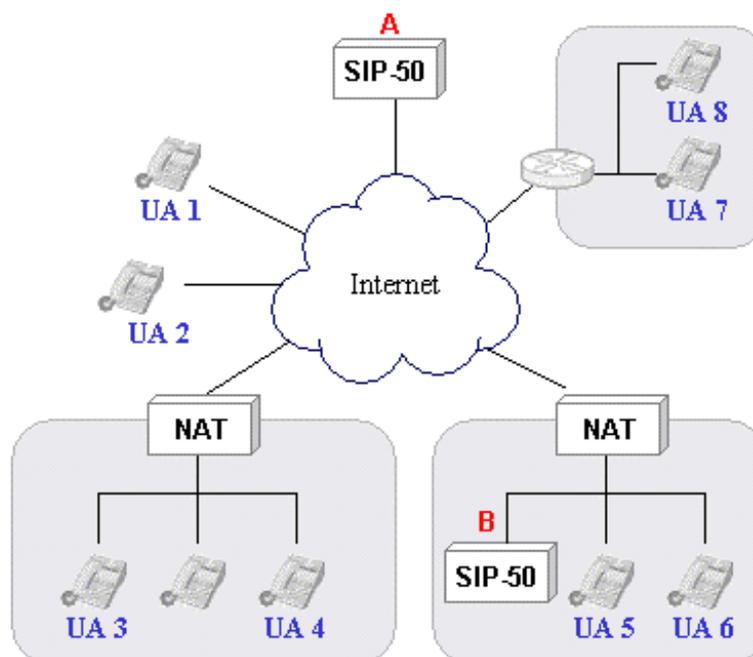
- Electrical Requirements

The SIP Proxy Server is powered from 100/240 VAC. A standard IEC connector is used for the power cable. Follow all applicable electrical codes. Frame ground should be tied to a common grounding point using #18AWG cable.

NOTE: The SIP Proxy Server is a power-required device, it means, the SIP Proxy Server will not work until it is powered. If your network will need to transmit voice data all the time, please consider use an UPS (Uninterrupted Power Supply) for your SIP Proxy Server. It will prevent you from network data loss and network downtime. In some area, installing a surge suppression device may also help to protect your SIP Proxy Server from being damaged by unregulated surge or current to the SIP Proxy Server.

- Network Requirements

SIP Proxy sits in the core of a SIP network and routes calls among other proxy servers, voice gateways, IP endpoints (such as IP phones), and application servers. In order for SIP Proxy Server to serve SIP network. The deployment can be like below A or B.



Install SIP Proxy Server to Your Network

- Choose an Installation Site

Select a suitable place on the network to install the SIP Proxy Server.

- Connect LAN Cables

Use standard LAN cables to connect your LAN side Switch or Hub to the LAN ports on SIP Proxy Server. Both 10Base-T and 100Base-T connections can be used. The LAN port of SIP Proxy Server support Auto-Negotiation to connect with best speed and duplex mode. The LAN port of SIP Proxy Server is MDI port. Thus, you can just use straight network to connect the LAN port to your switch or hub.

- Power Up

Connect the supplied power cord to SIP Proxy Server and use the power switch that in rear panel to turn on the SIP Proxy Server. Use only the power cord provided. Using a different one may cause hardware damage.

- Check the LEDs

The PWR LED should be ON. The STATUS LED should flash for about 1 to 2 minutes, then turn Off. This LED will also flash when is reading data from the memory. The LAN's LNK LED should be on. If the LED is off, please check the network connection. In some case, you may need to use crossover cable to connect the LAN port to your networks.

For more information, refer to Section 1.3 SIP Proxy Server Front View.

Chapter 3 : Getting Started

This chapter explains how to setup your computer to be a client to manage the SIP Proxy Server.

3.1 Initial Setup by LCD Panel

1. Press (**ENTER**) button to enter Select menu.
2. Choose Setup Network and press (**ENTER**) button to enter IP setup process.

```
SELECT:
Setup Network
```

3. Set the SIP Proxy Server IP address:

```
IP Address:
192.168.0.1
```

Please press (**▲**) or (**▼**) button to edit the SIP Proxy Server IP address. Press (**ENTER**) button to edit next number. After editing all the number, press (**ENTER**) button to start the Network mask configuration.

NOTE: You can press (**▲**) or (**▼**) longer for it the number to change in unit of 10.

4. Set the SIP Proxy Server subnet mask:

```
Netmask Address:
255.255.255.0
```

Please press ((**▲**) or (**▼**) button to edit the SIP Proxy Server IP address. Press (**ENTER**) button to edit next number. After editing all the number, press (**ENTER**) button to start the Gateway address configuration.

5. Set the SIP Proxy Server Gateway address:

```
Gateway Address:
192.168.0.254
```

Please press (**▲**) or (**▼**) button to edit the SIP Proxy Server IP address. Press (**ENTER**) button to edit next number. After editing all the number, press (**ENTER**) button to save the configuration.

6. Confirm and Save Configuration:

```
Save Config?
Y(Enter) N(ESC)
```

If the configuration is Ok, please press (**ENTER**) button to save. Otherwise, press (**ESC**) button to go back to **SELECT** Menu.

7. After you press (**ENTER**), the following message is shown:

```
Setup Network
Save OK....
```

Now the new IP settings is active and you can start on web management of the SIP Proxy Server.

3.2 Logging in as Administrator

Now you can communicate with SIP Proxy Server by web browser.

Open the web browser and type **http://192.168.0.1:8888/**.

Machine will prompt for the login username/password, please log in SIP-50 with default user name is “**admin**”, password “**123**”.



Enter Network Password

This secure Web Site (at 192.168.0.1) requires you to log on.
Please type the User Name and Password that you use for SIP-50.

User Name

Password

Save this password in your password list

OK Cancel

Then, you will enter SIP Proxy Server's Configuration Menu.

Chapter 4 : Web Configuration

This chapter introduces how to configure the SIP Proxy Server to effectively control your SIP network.

On the top of the Web interface, there is three major menu of the SIP Proxy Server:

System Settings: The basic system configurations

Subscriber: The function that will be used to manage the subscriber

Logout: You can logout the management interface after finishing your configuration.

The SIP Proxy Server will need the three parameters before it to serve the IP endpoint: **Config**, (illustrated in section 4.1.6), **Authorization** (illustrated in section 4.1.7) and **Subscriber**, (illustrated in section 4.2). However, some of the configurations are also required. Please refer to the related section for the details.

4.1 System Settings

System settings menu contains three categories: “**General**” allows you to configure basic network parameters, Internet connection bandwidth and date/time. “**MISC**” allows you to define SIP-50 parameter, Prefix Route and Authorization which is needed for SIP network operation. “**Admin**” contains options to setup SNMP, backup / restore settings, upgrade firmware, etc.



4.1.1 Information

This section shows information about the SIP Proxy Server

Information	
Product	SIP 50
Version	v1.00
License	Commercial
Serial No	I0F1A-N8T0T-D5K1Y-V1J1R

4.1.2 Network

You can setup SIP Proxy Server network settings in this section.

- ◆ **Host Name:** Please assign a name that is easy to remember for SIP Proxy Server.
- ◆ **Domain Name:** Your local network domain name. The SIP Proxy Server will use this value as SIP Domain.
- ◆ **DNS Server:** Your ISP's DNS server IP or your DNS server IP.
- ◆ **IP Address:** Please assign an IP that is not in use by other device for SIP Proxy Server. The default IP address of SIP Proxy Server is **192.168.0.1**.
- ◆ **Network Mask:** Your local network subnet mask. For example, 255.255.255.0.
- ◆ **Default Gateway:** network default gateway. For example, **192.168.0.254**.
- ◆ **Save:** Press save button to save all these configurations.

Note: If you have modified the IP address to a different IP subnet, you need to also modify the IP address of management client's IP address settings.

Network Setting	
Host Name	<input type="text" value="SIP-50"/>
Domain Name	<input type="text" value="planet.com.tw"/>
DNS Server 1	<input type="text" value="168.95.192.1"/>
DNS Server 2	<input type="text"/>
IP Address	<input type="text" value="192.168.0.1"/>
Network Mask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text" value="192.168.0.254"/>
<input type="button" value="Save"/>	

4.1.3 Date/Time

The Date/Time menu contains commands for setting SIP Proxy Server's time and date required for correctly record the CDR. User can directly input the date and time or specify the NTP server for the device to synchronize with time-server. Click on "**Date/Time**" in the system settings menu bar and the Date/Time screen will appear as illustrated below:

- ◆ **Date:** Input the year and select the Date from the pull-down list respectively.
- ◆ **Time:** Select the Time from the pull-down list respectively.
- ◆ **NTP Server:** Local NTP (Network time protocol) server IP or DNS name. The system will auto adjust the system time each day. If you want to manually configure the date and time, left this field blank.

Note: Please find below NTP server web address for your reference to set the time-server.

<http://www.eecis.udel.edu/~mills/ntp/clock1a.htm>

<http://www.eecis.udel.edu/~mills/ntp/clock2a.htm>

- ◆ **Time Zone:** System administrator must select the time zone for the region.
- ◆ **Save:** Press save button to save all these configurations. If you have input a NTP server IP address or DNS name, the SIP Proxy Server will try to inquire the current time and update the Date and Time field.

Date/Time	
Date	2005 / 3 / 12
Time	16 : 11
NTP Server	192.168.0.55
Time Zone	(GMT+8:00) Taipei
Save	

The Date/Time information will be used in the CDR system (refer to section 4.3). If your SIP Proxy Server can reach to the Internet, you can find the nearest NTP server in the Internet for your SIP Proxy Server that should provide the accurate date and time for the SIP Proxy Server.

4.1.4 Config

You can setup SIP Proxy Server parameter settings in this section.

- ◆ **Call Validation Time(Sec):** The timer to check periodically call is valid or not.
- ◆ **SIP Port:** The SIP port defines where the SIP traffic is expected.

Config	
Call Validation Time (sec.)	120
SIP Port	5060
Save	

4.1.7 Prefix Route

The prefix route function to provide a full array of stand-alone, call-routing capabilities. It executes effective routing decisions based on: prefix number. Normally use to forward SIP INVITE request to another SIP Proxy Server, PSTN gateway, MCU or other VOIP gateway. For prefix route manage, however, you can direct click on New to add the services or click on Modify icon to modify and remove by click on the delete icon.

- ◆ **New** - Create new record.
- ◆ **Prev** - Go to previous page.
- ◆ **1, 2, ...** - First, second, ... page.
- ◆ **Next** - Next page.

On the Action field of each service name, the following two buttons are provided:

-  - Modify the record
-  - Delete the record

Prefix Route Setting		
New	Page: 1	
Prefix Number	Destination Server	Action
007	192.168.1.248	 

After clicking “New” or Modify button, the following prefix route record configuration page will be shown.

New	
Prefix Number	<input type="text"/>
Destination Server	<input type="text"/>
<input type="button" value="Save"/>	

- ◆ **Prefix Number:** The Prefix number of URI that SIP-50 will match for.
- ◆ **Destination Server:** The SIP packet will forward to this server address.

After clicking Save or Cancel button, the Prefix Route page will be shown again. To edit the route record you have configured, please click Modify button on the Action field. To remove the service you have configured, please click Delete button on the Action field.

4.1.8 Authorization

The SIP Proxy Server support to uses Digest authentication to authenticate credentials provided by SIP phones and gateways requesting the proxy's services. The authentication data can be obtained from local database or RADIUS server.

Authorization	
Authorization Type	<input checked="" type="radio"/> Disabled <input type="radio"/> Local <input type="radio"/> Radius
Authorization IP	<input type="text" value="127.0.0.1"/>
Authorization Port	<input type="text" value="1814"/>
Secret Key	<input type="text" value="public"/>
Max Retry	<input type="text" value="3"/>
Response Timer(sec)	<input type="text" value="5"/>
<input type="button" value="Save"/>	

- ◆ **Authorization Type:**
 - Disabled** – Not authenticate the subscriber's REGISTER method. This is default value.
 - Local** – Use Local subscriber database as authorization data source. Please refer to **Section 4.2.1 List** to manage it.
 - Radius** – Use external Radius server as authorization data source.
- ◆ **Authorization IP:** RADIUS Authentication server IP address.
- ◆ **Authorization Port:** RADIUS Authentication server port number.

- ◆ **Secret Key:** The shared secret key with Radius server.
- ◆ **Max Retry:** The maximum times of resend request.
- ◆ **Response Time (sec):** The maximum time to wait for a reply from the RADIUS server.
- ◆ **Save:** Press save button to save all these configurations.

4.1.8 SNMP

Use the SNMP Configuration screen to display and modify parameters for the Simple Network Management Protocol (SNMP). The device includes an on-board SNMP agent which monitors the status of its hardware, as well as the traffic passing through it. A computer attached to the network, called a Network Management Station (NMS), can be used to access this information. Access rights to the agent are controlled by community string. To communicate with the device, the NMS must first submit a valid community string for authentication.

SNMP	
Enable SNMP	<input checked="" type="checkbox"/>
Community Strings	<input type="text" value="public"/>
System Location	<input type="text" value="PLANET_Headquarter"/>
Contact Information	<input type="text" value="Technical Support"/>
<input type="button" value="Save"/>	

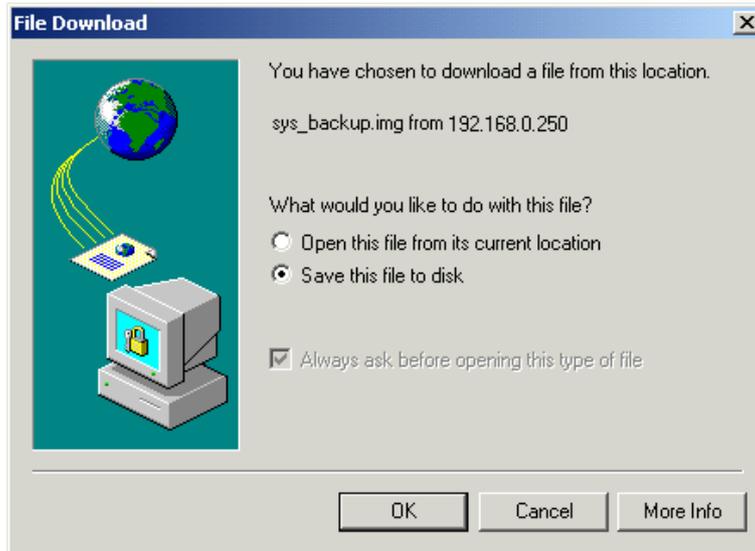
- ◆ **Enable SNMP:** Check this box to enable the SNMP function.
- ◆ **Community Strings:** A community entry authorized for management access. The network management station must use same string to read the SNMP data from the device.
- ◆ **System Location:** Specifies the area or location where the device resides.
- ◆ **Contact Information:** Contact person for the device.
- ◆ **Save:** Press save button to save all these configurations.

4.1.9 Backup/Restore

You can easily backup and restore the current configuration of SIP Proxy Server.

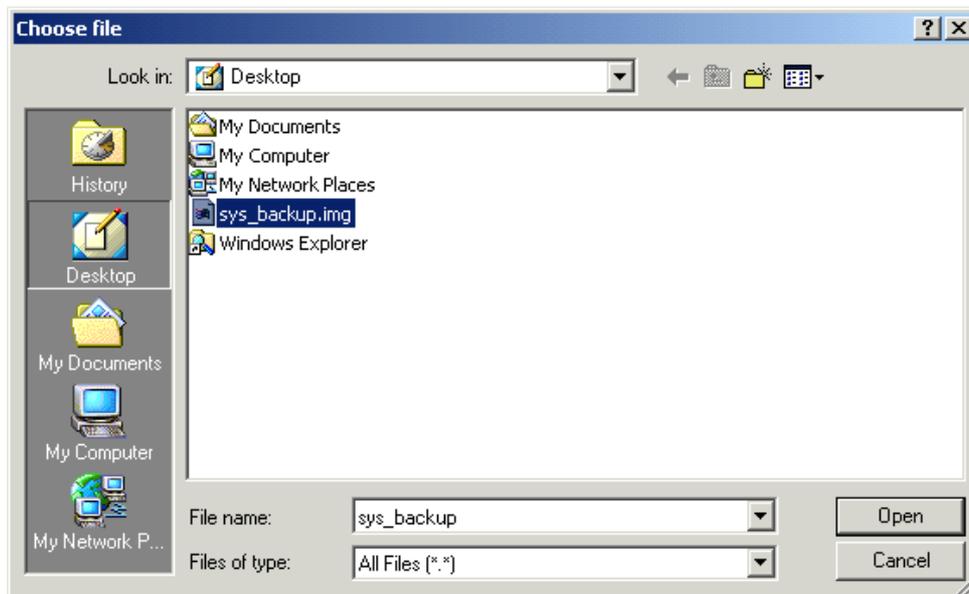
Backup / Restore	
Config Download	<input type="button" value="Start"/>
Config Upload	<input type="text"/> <input type="button" value="Browse..."/> <input type="button" value="Start"/>

- ◆ **Backup:** Press "Start" button on the Config Download row to download the configuration file of SIP Proxy Server to your local client side. The following page will then be shown. Click "Save" to save the configuration file.



Note: It is strongly recommended to backup your file configuration file whenever you have complete the configurations.

- ◆ **Restore:** Press “Browse...” button to select the configuration file you have saved before.



Then press “Start” button to start upload configuration file to SIP Proxy Server.

Backup / Restore -- Restore Configuration	
Module Name	SIP 50
Backup Date	2005-03-13 19:13
Version	v1.00
Network Setting	IP Address -- 192.168.0.250 Network Mask -- 255.255.255.0 Default Gateway -- 192.168.0.1
<input type="button" value="Register"/> <input type="button" value="Cancel"/>	

After confirm backup date and network settings, press “Restore” button to start restore all of the configurations to SIP Proxy Server.



After restore is completed, a “Restore complete” window prompts. Click “OK” to continue.

4.1.10 Firmware Upgrade

PLANET will announce new patch or firmware on the website for users. You can download the latest firmware from the website and use this screen to upgrade.

Firmware Upgrade	
Firmware Version:	v1.00
Upgrade File:	<input type="text"/> Browse...
<input type="button" value="Start"/>	

4.1.11 Account

You can change the administrator's user name and password when you log in on this window.

- ◆ **Old Name:** The old name you use to log in SIP Proxy Server
- ◆ **New Name:** The new name that you want to change.
- ◆ **Old Password:** Enter old password that you use before.
- ◆ **New Password:** The new password that you want to change.
- ◆ **New Password Again:** Confirm new password again.
- ◆ **Save:** Press “Save” button to save all the configurations.

Account	
Old Name	<input type="text" value="admin"/>
New Name	<input type="text"/> *Not Require
New Password	<input type="text"/>
New Password again	<input type="text"/>
<input type="button" value="Save"/>	

After save is completed, the following window is prompted, click “OK” to continue.



Note: For safety reason, it is strongly recommended to change the default password and store the password in a safe place.

4.1.12 Reboot

You can reboot SIP Proxy Server from web and by Reset button on the rear side of this device.



4.1.13 Logout

You can logout the management interface after finishing your configuration.

4.2 Subscriber

You can setup Subscriber and CDR in this section.



4.2.1 List

The **List** function allows the administrator to configure user names and passwords on the proxy so that requests of SIP devices can be challenged before they are processed. The username and password entered here must match the username and password entered on the device. The SIP Proxy Server uses Digest authentication to authenticate credentials provided by SIP phones and gateways requesting the proxy's services. Authentication must be enabled on the System Setting/MISC/Authorization.

- ◆ **New** - Create new user
- ◆ **Prev** - Go to previous page.
- ◆ **1, 2, ...** - First, second, ... page.
- ◆ **Next** - Next page.



- Modify the existing user



- Delete the user

Subscriber List			
New Page: 1			
Phone Number	Authorization User	Email	Action
506	john.cheng	john.cheng@planet.com.tw	
507	507	alvin@planet.com.tw	
508	508	tom@planet.com.tw	
509	509	dennis@planet.com.tw	
510	510	horde@planet.com.tw	

Press "New" or Modify button, the link configuration page will be shown as the following. Please note that Phone number and Authorization Name must be unique.

- ◆ **Phone Number:** The sip phone number for this user. In the SIP protocol, this phone number will be a SIP address with [phone_number@your-domain.com](#) (e.g., sip:123@planet.com.tw.)
- ◆ **Email:** Email address.
- ◆ **Authorization Name:** The user name use to do authorization. It may be either a numerical address that same as phone number (e.g., "123") or a lower-case alphanumeric address starting with an alphabetical character (e.g., john.cheng)
- ◆ **Password:** The authorization name's password.
- ◆ **Confirmation password:** Type password again.
- ◆ **Save:** Press "Save" button to save above configurations.

New	
Phone Number:	<input type="text" value="506"/>
Email:	<input type="text" value="john.cheng@planet.com.tw"/>
Authorization Name:	<input type="text" value="john.cheng"/>
Password:	<input type="password" value="***"/>
Confirmation Password:	<input type="password" value="***"/>
Save	

4.2.2 Phone Status

The Phone Status will show all the phone of Subscriber List and its registration time. The administrator can see all SIP devices that have successfully registered with the SIP Proxy Server. Each row pertains to a single SIP device. The Phone Number column shows the status of the registration as dictated by the phone. If the SIP devices have been registered. The Status icon will be green. When the expiration time is reached the registration is no longer considered valid and the icon will be the red.

- ◆ **Refresh Interval (second)** - Force browser auto refresh this page in 10, 20 or 30 second.
- ◆ **Page** - First, second, ... page.
- ◆ **Renew** - Clear registration info of all phone
- ◆ **Phone Number Link** - See the detail Phone Call Status of your chose, see Section 4.2.2.

Phone Status								
Registered		Unregister		Refresh Interval(second):	---	Page:	1	Renew
Phone Number	Register Time	Contact	Expires	User Agent				
 506								
 507	2005-03-23 11:45:04	sip:507@192.168.1.121:5060	2005-03-23 12:15:04	X-PRO build 1082				
 508	2005-03-23 11:54:54	sip:508@192.168.1.103:5060	2005-03-23 11:55:54	SIP201 (vip150t1014a.BIN)				
 509								
 510								

4.2.3 Phone Call Status

The Phone Call Status will show all call records of this phone. Its keep period of one week.

- ◆ **Renew** - Clear all the call records of this phone.
- ◆ **Refresh Interval (second)** - Force browser auto refresh this page in 10, 20 or 30 second.
- ◆ **Phone Number** - Change to another phone call status of your chose.

On the table, each item has 6 fields:

- ◆ **Status** - This call is still connected or not connected.
- ◆ **From** - The phone number that initial this call.
- ◆ **To** - The phone number that accept this call.
- ◆ **Start Time** - Call start time.
- ◆ **End Time** - Call end time.
- ◆ **Connect Time** - This call use time.

Phone Call Status : 506						
Renew		Refresh Interval(second):		10	Phone Number:	506
Status	From	To	Start Time	End Time	Connect Time	
connected	506	507	2005-03-22 16:50:11	2005-03-22 16:50:39	00:00:28	
not connected	507	506	2005-03-22 16:48:51	2005-03-22 16:50:02	00:01:11	

4.2.4 Export / Import

This page allows you to export or import the subscriber list from a text file.

- ◆ **Export User file:** Export the subscriber data to a file named user_dump.txt in text format.
- ◆ **Import User file:** Click “Browse...” to select the subscriber file you want to import and then click “Start” to import.
- ◆ **Import Option:** There are 3 options when import user file.
 - Keep Existing Records** - This will keep existing records when import file record already existing.
 - Delete All Existing Records** - This will delete all existing records and then import the file.
 - Overwrite Existing Records** - This will overwrite existing records when import file record have the same phone number.

Export / Import	
Export User File	<input type="button" value="Start"/>
Import User File	<input type="text"/> <input type="button" value="Browse..."/> <input type="button" value="Start"/>
Import Option	<input checked="" type="radio"/> Keep Existingr Ecords <input type="radio"/> Delete All Existingr Ecords <input type="radio"/> Overwrite Existingr Ecords

Each item in the subscriber file has 4 fields and use “space” to divide each field. Please note that Phone number and Authorization Name must be unique.

Field 1: Phone Number

Field 2: Email

Field 3: Authorization Name

Field 4: Password

An example is as the following:

```
506 john.cheng john.cheng@planet.com.tw 506
507 507 alvin@planet.com.tw 507
508 508 tom@planet.com.tw 508
```

4.2.5 Export CDR

This function allows you to send CDR file to a FTP server. The CDR data will compress as tgz format and sent to FTP server at AM 4:00 every day. This data is suitable for you to make your own analysis and even billing. The following parameters are required:

- ◆ **Export Function:** Enable or disable the export function.
- ◆ **Server Type:** The server type support FTP server.
- ◆ **IP Address:** The IP address of the FTP server.
- ◆ **Port Number:** The TCP port number used for FTP communication. The default port number for FTP is 21.
- ◆ **Remote Dir:** The directory used to store the CDR file. Please make sure you have created this directory on the FTP server before make test.

If this field is blank, the file will send the CDR file on the home directory of this ftp user account. E.g.,
 C:\BACKUP FILE..... User 's Home
 C:\BACKUP FILE\AAASub directory
 If you want send file on the home directory, please keep this field blank. If you want send file on the "AAA"
 " directory, please fill up "AAA".

- ◆ **User Name:** The user name used to login to FTP server.
- ◆ **Password:** The password used to login to FTP server.
- ◆ **Save:** Press "Save" button to save above configurations.
- ◆ **Test:** Test the connection status to FTP server. If the server is on-line and the remote directory, user name and password are all correct, the SIP Proxy Server will upload a file named "test_upload" to the remote directory and a small window will pop-up with message of "Server is ready". Otherwise, it will show "Can not connect to server".

Log -- Export Log	
Export Function	Enabled ▾
Server Type	FTP ▾
IP Address	192.168.0.20
Port Number	21
Remote Dir	<input type="text"/> Empty for user home directory
User Name	sip_test
Password	*****
<input type="button" value="Save"/> <input type="button" value="Test"/>	

Once you click "Save", the SIP Proxy Server will start to export the CDR file to FTP server at AM: 4:00 of every day. The file name format of CDR file is "year-month-day.tgz" (e.g., 2005-03-22.tgz). Each file contains many call records. The data format is as the following with an example:

From number	To number	Duration	Starting Date	Starting Time	Ending Date	Ending Time
507	506	00:01:11	2005-03-02	16:48:51	2005-03-02	16:50:02

- ◆ **From number:** The caller phone number, eg: 507
- ◆ **To number:** The call's destination phone number, eg: 506
- ◆ **Duration:** The duration of the call in hours, minutes and seconds.
- ◆ **Starting Date:** The date of ACK method in SIP packet received by the SIP Proxy Server. This is the date the call start. The date format is **YYYY-MM-DD** that **YYYY** is years, **MM** is months, and **DD** is days.
- ◆ **Starting Time:** The time of ACK method in SIP packet received by the SIP Proxy Server. This is the time the call start.. The time format is **HH:MM:SS** that **HH** is hours, **MM**, is minutes, and **SS** is seconds.

- ◆ **Ending Date:** The date of BYE method in SIP packet received by the SIP Proxy Server. This is the date the call complete. The date format is **YYYY-MM-DD** that **YYYY** is years, **MM** is months, and **DD** is days.
- ◆ **Ending Time:** The time of BYE method in SIP packet received by the SIP Proxy Server. This is the time the call complete. The time format is **HH:MM:SS** that **HH** is hours, **MM**, is minutes, and **SS** is seconds.

4.2.6 Daily CDR

This function allows you to download CDR file from web page. Each daily CDR file will be create AM: 4:00 of every day. The SIP Proxy Server keep one week CDR file.

- ◆ **Create Now:** Create today's CDR file immediately. It only packs the today's record until now.
- ◆ **Each date CDR file link:** Click the daily link to directly download the CDR file.

Daily CDR				
Create Now				
2005-03-17	2005-03-18	2005-03-19	2005-03-20	2005-03-21
2005-03-22	2005-03-23			

Chapter 5 : Command Line Interface

SIP Proxy Server has a built-in command menu. You can configure SIP Proxy Server by entering commands from menu.

You can access the CLI from a SSH session or terminal emulator connected to the RS-232 port on the back panel.

5.1 Connection through Serial Port

The serial port of SIP Proxy Server is fixed at the following settings:

Baud rate	115,200
Number of data bit	8
Parity check	None
Number of stop bit	1
Flow control	None

To access SIP Proxy Server through the RS-232 serial port, follow the steps below:

1. Insert one end of the null-modem serial cable that came with SIP Proxy Server into the 9-pin RS-232 port (labeled CONSOLE) on the back panel.
2. Insert the other end of the cable into your terminal's serial port.
3. Configure the terminal so that settings for baud rate, number of data bit, parity check, number of stop bit and flow control capability exactly match SIP Proxy Server's console interface. (Refer to you terminal documentation for more information about setting up these features).
4. Press <Return> from the terminal.
5. SIP Proxy Server displays the following prompts on the terminal and you are ready to access the CLI then. The default name is **admin** and password is **84117341**.

PLANET SIP50

sip50 login:

6. After login, SIP Proxy Server displays command menu.

SIP 50 Configuration Menu

- 1) **Reset All Config**
- 2) **Debug Information Display**
- 3) **Reboot the system**

q) Quit

Enter Selection:

5.2 Connection through SSH

The use SSH, you must have a SSH client program. Normally, you can use putty. It can download from <http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>. (Refer to putty's documentation for more information about setting up). To access SIP Proxy Server from a remote host with SSH, perform the following tasks:

Task	Prompt	Type
From the remote host, run the ssh client and connect to your SIP Proxy Server by the IP address that you want to access	None	IP Address and port number is 22
When SIP Proxy Server prompts " login as: ", enter the user name " admin "	Login as:	admin
When SIP Proxy Server prompts " password: ", enter the password " 84117341 ".	Password:	84117341

Upon successfully entered the password, SIP Proxy Server displays command menu.

SIP 50 Configuration Menu

- 1) **Reset All Config**
- 2) **Debug Information Display**
- 3) **Reboot the system**

q) **Quit**

Enter Selection:

5.3 Command menu

Type the 1,2,3 or q to select the function.

5.3.1 Reset All Config

If there is system re-organization, firmware upgrade or improper parameters are loaded in SIP Proxy Server, restoring factory default settings may help you to restore initial state of machine and restart configuration.

5.3.2 Debug Information Display

If there is problem occur, a look at the SIP Proxy Server running messages that will help you to find out the problem.

5.3.3 Reboot the system

Use this the reboot the SIP Proxy Server.