

---

# ishani Documentation

*Release latest*

Jan 13, 2018



---

## Contents

---

<b>1</b>	<b>Introduction</b>	<b>3</b>
<b>2</b>	<b>Installation</b>	<b>9</b>
<b>3</b>	<b>Security</b>	<b>21</b>
<b>4</b>	<b>Service Monitoring</b>	<b>27</b>
<b>5</b>	<b>Modules</b>	<b>29</b>
<b>6</b>	<b>FAQ</b>	<b>95</b>
<b>7</b>	<b>Report a Bug</b>	<b>97</b>
<b>8</b>	<b>Get Support</b>	<b>99</b>



ASTPP is an Open Source VoIP Billing Solution for Freeswitch. It supports pre-paid and post-paid billing with call rating and credit control. It also provides many other features such as calling cards, least cost routing (LCR), did management, resellers management etc.



Related pages

## 1.1 Features

---

### 1.1.1 Calling cards

---

Manage calling cards easily with card number & pin

Bulk calling card generation

Export calling cards in CSV

Configure your own calling card access numbers

Pinless authentication

Call Detail report

Configurable introduction prompt

Various options to enable/disable playback options

### 1.1.2 Rate groups / Tariff

---

Manage rates with ease

Configure own rate group and assign to customers / resellers (For admin and resellers only)

---

Allocate free packages

Carrier/trunk selection for outbound call routing for LCR

Allow rate group based subscription

### 1.1.3 DIDs

---

Handle incoming calls with various options

DID purchase/release option

Options to configure setup, monthly fees for DID

DID allocation option for admin/reseller

Multiple types of routing types

DID Billing

### 1.1.4 Configuration / Settings

---

Settings

Global parameters to manage system

Default country, base currency, timezone etc

Payment gateway configuration

Calling card parameters

Invoice configuration

One time tax configuration

Email template

### 1.1.5 Accounts management

---

#### **Admin**

Can manage entire system

Able to manage multiple admins and subadmins

#### **Reseller**

Multi-layer reseller support (Unlimited)

Own customer management

Rates management

Invoice management

Reports



Reseller portal

### **Customer / Provider**

Postpaid/prepaid customers

IP based authentications

SIP Device management

Invoices

My Rates Reports

Customer portal

## **1.1.6 Invoices / Billing**

---

Invoice & Receipt management

Personalize invoicing information for reseller

Can configure his own company name & address which will be included in invoice pdf

One time Tax Configuration

Includes CDR charges, Subscription fees, DID charges and other type of post charges or package charges.

Configurable invoice date for each customer

Send email upon invoice generation

## **1.1.7 Rates and LCR**

---

Least cost routing on carrier/termination rates

Option to define connect cost

Import feature

Batch update for easy bulk rates updation

Force routing configuration in origination rates

Carrier failover

## **1.1.8 Reports**

---

Call detail reports

Summary reports (display usage of prefix, ACD, MCD, profit, Billable seconds)

Trunk stats

Live call report

Payment report

Export to csv

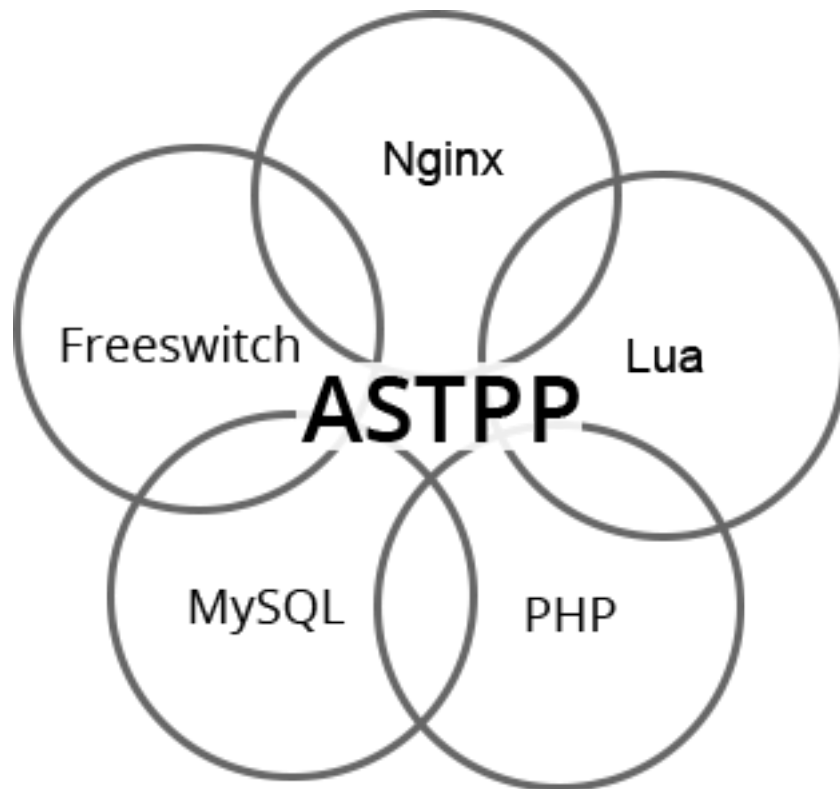
### 1.1.9 Paypal payment gateway

---

Configure your own paypal id to receive payments

Top Up/Recharge accounts quickly and get balance in real time

## 1.2 Components



- **Nginx** (<http://nginx.com/>)
  - NGINX accelerates content and application delivery, improves security, facilitates availability and scalability for the busiest web sites on the Internet.
- **PHP** (<http://php.net/>)
  - PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.
- **Lua** (<http://lua.org/>)
  - Lua is a powerful, efficient, lightweight, embeddable scripting language. It supports procedural programming, object-oriented programming, functional programming, data-driven programming, and data description.
- **MySQL** (<https://www.mysql.com/>)
  - MySQL is a freely available open source Relational Database Management System (RDBMS) that uses Structured Query Language (SQL). SQL is the most popular language

for adding, accessing and managing content in a database. It is most noted for its quick processing, proven reliability, ease and flexibility of use.

- **FreeSwitch** (<https://freeswitch.org/>)
  - FreeSWITCH is a scalable open source cross-platform telephony platform designed to route and interconnect popular communication protocols using audio, video, text or any other form of media. It was created in 2006 to fill the void left by proprietary commercial solutions.

## 1.3 System Requirement

### Minimal System requirement

- 2GB RAM
- 40GB Hard drive
- 64 bit OS (Centos/ Debian latest version)
- Dedicated server ip
- 100 Mbps connection

### VoIP Requirement

- Termination gateway to route outbound calls
- DID's to receive incoming calls

---

### Note: Promotion

If you're carrier and would like to add your company name listed in ASTPP then please contact us at [sales@inextrix.com](mailto:sales@inextrix.com).

---

## 1.4 How to Contribute

**1.Become a tester and report bugs in bug tracker:** Here is the link <https://github.com/iNextrix/ASTPP/issues>

**2.Write or improve our project documentation :** Which is me :)

**3.Become a translator :** If you have good command over other language then here is one more options for you to become a translator for documentation or portal labels.

**4.Suggest a feature :** If you have an idea you feel could improve the project, you can suggest us.

**5.Help with design :** If you have a talent for design, why not offer to help design the project's website or logo? If you fancy a bigger challenge, you could volunteer to give the project's user interface a makeover.

**6.Donate by money :** You can contribute to survive project, speed project development and to encourage team. Donation paypal id is [billing@inextrix.com](mailto:billing@inextrix.com).

**7.Build a community :** As we are an open source, to survive it needs to become the center of a large, engaged community. Community means more people to discover and report issues, suggest new features, and generally help to spread the word. There's lots of ways you can help to grow a project's community, but a few popular methods are writing blogs and tutorials, promoting the project on social networks, and becoming active on its mailing list and/or forums, particularly when it involves answering questions newcomers have about the project.



### ASTPP Installation Guide

Basic knowledge of Freeswitch and Linux is required in order to do installation. We provides two ways to do installation,

1. Quick Installation
2. Manual Installation

### Related pages

## 2.1 Quick Installation

Quick installation will install ASTPP 3.5 in scratch system only.

### Quick Installation

```
# wget --no-check-certificate http://bit.do/dHwVu -O install.sh
# chmod +x install.sh
# ./install.sh
```

## 2.2 Manual Installation

### ASTPP Guide

we are using ASTPP version 3.5 and supporting only two OS for manual installation. You can opt any of them from below links.

## 2.2.1 Astpp Version 3.5

### ASTPP Manual Installation Guide

Currently, we are supporting only two OS for manual installation. It's CentOS 7 and Debian 8. You can opt any of them from below links.

### CentOs 7 Installation

#### Install base packages

```
yum update
yum groupinstall "Development tools" -y

#Enable epel and freeswitch repository
yum install epel-release
rpm -Uvh http://files.freeswitch.org/freeswitch-release-1-6.noarch.rpm
yum update
```

#### Install Freeswitch

##### 1. Install Freeswitch pre-requisite packages

```
#Install dependencies for freeswitch
yum install -y wget git autoconf automake expat-devel yasm gnutls-devel libtiff-devel_
↳libX11-devel unixODBC-devel
python-devel zlib-devel alsa-lib-devel libogg-devel libvorbis-devel uuid-devel_
↳@development-tools gdbm-devel
db4-devel libjpeg libjpeg-devel compat-libtermcap ncurses ncurses-devel ntp screen_
↳sendmail sendmail-cf gcc-c++
@development-tools bison bzip2 curl curl-devel dmidecode git make mysql-connector-
↳odbc openssl-devel unixODBC
zlib pcre-devel speex-devel sqlite-devel ldns-devel libedit-devel bc e2fsprogs-devel_
↳libcurl-devel libxml2-devel
libyuv-devel opus-devel libvpx-devel libvpx2* libdb4* libidn-devel unbou-nd devel_
↳libuuid-devel lua-devel libsndfile-devel
```

##### 2. Download latest freeswitch version

```
cd /usr/local/src
git config --global pull.rebase true

#Clone freeswitch version 1.6.8 from git
git clone -b v1.6.19 https://freeswitch.org/stash/scm/fs/freeswitch.git
cd freeswitch
./bootstrap.sh -j
```

##### 3. Edit modules.conf

```
#Enabling mod_xml_curl, mod_json_cdr, mod_db
sed -i "s#\#xml_int/mod_xml_curl\#xml_int/mod_xml_curl#g" /usr/local/src/freeswitch/
↳modules.conf
sed -i "s#\#mod_db\#mod_db#g" /usr/local/src/freeswitch/modules.conf
sed -i "s#\#event_handlers/mod_json_cdr\#event_handlers/mod_json_cdr#g" /usr/local/
↳src/freeswitch/modules.conf
sed -i "s#\#applications/mod_voicemail\#applications/mod_voicemail#g" /usr/local/src/
↳freeswitch/modules.conf
```

**Note:** # add a module by removing '#' comment character at the beginning of the line # remove a module by inserting the '#' comment character at the beginning of the line containing the name of the module to be skipped

#### 4. Compile the Source

```
./configure -C
```

#### 5. Install Freeswitch with sound files

```
make all install cd-sounds-install cd-moh-install
make && make install
```

#### 6. Set right time in server

```
ntpdate pool.ntp.org
systemctl restart ntp
chkconfig ntp on
```

#### 7. Create symbolic links for Freeswitch executables

```
ln -s /usr/local/freeswitch/bin/freeswitch /usr/local/bin/freeswitch
ln -s /usr/local/freeswitch/bin/fs_cli /usr/local/bin/fs_cli
```

### ASTPP Install

#### 1. Download ASTPP

```
# Download ASTPP 3.5 source from git
cd /usr/src
git clone https://github.com/iNextrix/ASTPP
```

#### 2. Change Apache working scenario

As we are using Nginx **from now** onwards **from ASTPP 3.0**, **if** you are using apache **for** any applicaion then-  
 either have to move it to Nginx **and/or** remove apache. You can also change default port **for** apache **if** want to use-  
 it **continue and** troubleshoot some installation issue **if** arise.

#### 3. Install ASTPP pre-requisite packages

```
yum install -y autoconf automake bzip2 cpio curl nginx php-fpm php-mcrypt* unixODBC_
mysql-connector-odbc curl-devel php
php-devel php-common php-cli php-gd php-pear php-mysql php-mbstring sendmail sendmail-
cf php-pdo php-pecl-json mysql
mariadb-server mysql-devel libxml2 libxml2-devel openssl openssl-devel gettext-devel_
fileutils gcc-c++
```

#### 4. Normalize ASTPP

```
#Create access & error log files.
touch /var/log/nginx/astpp_access_log
touch /var/log/nginx/astpp_error_log
touch /var/log/nginx/fs_access_log
touch /var/log/nginx/fs_error_log
systemctl restart php-fpm
service nginx reload
```

## ASTPP using FreeSWITCH (if you want to use ASTPP with FreeSWITCH)

### 1. Configure freeswitch startup script

```
cp /usr/src/latest/freeswitch/init/freeswitch.centos.init /etc/init.d/freeswitch
chmod 755 /etc/init.d/freeswitch
chmod +x /etc/init.d/freeswitch
chkconfig --add freeswitch
chkconfig --level 345 freeswitch on
mkdir /var/run/freeswitch
```

### 2. Configure ASTPP with freeswitch

```
#Create directory structure for ASTPP
mkdir -p /var/lib/astpp/
mkdir -p /var/log/astpp/
mkdir -p /usr/local/astpp/
mkdir -p /var/www/

#Setting permission
chown -Rf root.root /var/lib/astpp/
chown -Rf root.root /var/log/astpp/
chown -Rf root.root /usr/local/astpp/
chown -Rf root.root /var/www/

#Setting up Scripts and Sounds for fs
cp -rf /usr/src/ASTPP/freeswitch/scripts/* /usr/local/freeswitch/scripts/
cp -rf /usr/src/ASTPP/freeswitch/fs /var/www/html/
cp -rf /usr/src/ASTPP/freeswitch/sounds/*.wav /usr/local/freeswitch/sounds/en/us/
↪callie/
chmod -Rf 777 /usr/local/freeswitch/sounds/en/us/callie/
rm -rf /usr/local/freeswitch/conf/dialplan/*
touch /usr/local/freeswitch/conf/dialplan/astpp.xml
rm -rf /usr/local/freeswitch/conf/directory/*
touch /usr/local/freeswitch/conf/directory/astpp.xml
rm -rf /usr/local/freeswitch/conf/sip_profiles/*
touch /usr/local/freeswitch/conf/sip_profiles/astpp.xml
```

### Install ASTPP web interface

```
mkdir -p /var/lib/astpp
cp /usr/src/ASTPP/config/* /var/lib/astpp/

#Setup web interface for ASTPP
mkdir -p /var/www/html/astpp
cp -rf /usr/src/ASTPP/web_interface/astpp/* /var/www/html/astpp/
chown -Rf root.root /var/www/html/astpp
cp /usr/src/ASTPP/web_interface/nginx/cent_* /etc/nginx/conf.d/

#apply security policy
sed -i "s/SELINUX=enforcing/SELINUX=disabled/" /etc/sysconfig/selinux
sed -i "s/SELINUX=enforcing/SELINUX=disabled/" /etc/selinux/config
/etc/init.d/iptables stop
chkconfig iptables off
setenforce 0

chmod -Rf 755 /var/www/html/astpp
touch /var/log/astpp/astpp.log
```



## Install ASTPP Database

```
#Restart mysql service
systemctl start mariadb
mysql -uroot -e "UPDATE mysql.user SET password=PASSWORD('<MYSQL_ROOT_PASSWORD>')
↳WHERE user='root'; FLUSH PRIVILEGES;"

#Create database astpp
mysql -uroot -p<MYSQL_ROOT_PASSWORD> -e "create database astpp;"
mysql -uroot -p<MYSQL_ROOT_PASSWORD> -e "CREATE USER 'astppuser'@'localhost'
↳IDENTIFIED BY '<ASTPP_USER_PASSWORD>';"
mysql -uroot -p<MYSQL_ROOT_PASSWORD> -e "GRANT ALL PRIVILEGES ON `astpp` . * TO
↳'astppuser'@'localhost' WITH
GRANT OPTION;FLUSH PRIVILEGES;"
mysql -uroot -p<MYSQL_ROOT_PASSWORD> astpp < /usr/src/ASTPP/database/astpp-3.0.sql
mysql -uroot -p<MYSQL_ROOT_PASSWORD> astpp < /usr/src/ASTPP/database/astpp-upgrade-3.
↳5.sql
```

## ASTPP Freeswitch Configuration

```
cp /usr/src/ASTPP/freeswitch/conf/autoload_configs/* /usr/local/freeswitch/conf/
↳autoload_configs/

#Edit db password in autoload config files.
sed -i "s#dbpass = <PASSSSWORD>#dbpass = <MYSQL_ROOT_PASSWORD>#g" /var/lib/astpp/astpp-
↳config.conf
sed -i "s#DB_PASSWD=\\\"<PASSSSWORD>\\\"#DB_PASSWD = \\\"<MYSQL_ROOT_PASSWORD>\\\"#g" /var/lib/
↳astpp/astpp.lua

#Edit base URL in astpp-config
sed -i "s#base_url=http://localhost:8081/#base_url=http://<SERVER FQDN / IP ADDRESS>
↳:8089/#g" /var/lib/astpp/
astpp-config.conf

Note:- Replace "<SERVER FQDN / IP ADDRESS>" with your server domain name or IPaddress
```

## Finalize Installation & Start Services

```
#Open php short tag
sed -i "s#short_open_tag = Off#short_open_tag = On#g" /etc/php.ini

#Configure services for startup
systemctl disable httpd #If you are using it then change the port or update your
↳configuration for nginx otherwise
your gui will not up
systemctl enable nginx
systemctl enable php-fpm
systemctl start mariadb
systemctl start freeswitch
systemctl stop firewalld
chkconfig --levels 345 mariadb on
chkconfig --levels 345 freeswitch on
chkconfig --levels 123456 firewalld off

Note:- If you want to use firewall then configure it to allow all port used in fs and
↳ASTPP.
```

## Setup cron

```
# Generate Invoice
0 1 * * * cd /var/www/html/astpp/cron/ && php cron.php GenerateInvoice

# Low balance notification
0 1 * * * cd /var/www/html/astpp/cron/ && php cron.php UpdateBalance

# Low balance notification
0 0 * * * cd /var/www/html/astpp/cron/ && php cron.php LowBalance

# Update currency rate
0 0 * * * cd /var/www/html/astpp/cron/ && php cron.php CurrencyUpdate

# Email Broadcasting
0 0 * * * cd /var/www/html/astpp/cron/ && php cron.php BroadcastEmail
```

### Finally Reboot it.

```
#You are almost done with your configuration so just reboot it and make sure
↪everything is working fine.
```

```
reboot now
```

```
#Once server up and running again, check below service status.
systemctl status nginx
systemctl status mariadb
systemctl status freeswitch
systemctl status php-fpm
```

---

**Note:** You are done with GUI installation. Enjoy :) Visit the astpp admin page in your web browser. It can be found here: [http://server\\_ip:8089/](http://server_ip:8089/) Please change the ip address depending upon your box. The default username and password is “admin”.

Note : In case of any issue please refer apache error log.

---

---

**Note:** If you have any other question(s) then please contact us on [sales@inextrix.com](mailto:sales@inextrix.com) or post your questions(s) in <https://groups.google.com/forum/#!forum/astpp>.

---

## Debian 8 Installation

### Install base packages

```
apt-get -o Acquire::Check-Valid-Until=false update
apt-get install -y git wget curl
```

### Install Freeswitch

#### 1. Install Freeswitch pre-requisite packages

```
#Add freeswitch source list
curl https://files.freeswitch.org/repo/deb/debian/freeswitch_archive_g0.pub | apt-key
↪add -
echo "deb http://files.freeswitch.org/repo/deb/freeswitch-1.6/ jessie main" > /etc/
↪apt/sources.list.d/freeswitch.list
```

```
#Install dependencies
apt-get -o Acquire::Check-Valid-Until=false update && apt-get install -y --force-yes \
↳ freeswitch-video-deps-
most apt-get install -y autoconf automake devscripts gawk chkconfig dnsutils sendmail-
↳ bin sensible-mda ntpdate ntp g++
git-core curl libjpeg62-turbo-dev libncurses5-dev make python-dev pkg-config libgdbm-
↳ dev libyuv-dev libdb-
dev libvpx2-dev gettext sudo lua5.1 php5 php5-dev php5-common php5-cli php5-gd php-
↳ pear php5-cli
php5-gd php-pear php5-cli php-apc php5-curl libxml2 libxml2-dev openssl libcurl4-
↳ openssl-dev gettext gcc libldns-dev
libpcres3-dev build-essential libssl-dev libspeex-dev libspeexdsp-dev libsqlite3-dev \
↳ libedit-dev libldns-dev libpq-dev bc

#Install mysql server
apt-get install -y mysql-server php5-mysql
```

## 2. Download latest freeswitch version

```
cd /usr/local/src
git config --global pull.rebase true

#Clone freeswitch version 1.6 from git
git clone -b vl.6.19 https://freeswitch.org/stash/scm/fs/freeswitch.git
cd freeswitch
./bootstrap.sh -j
```

## 3. Edit modules.conf

```
#Enabling mod_xml_curl, mod_json_cdr, mod_db
sed -i "s#\#xml_int/mod_xml_curl#xml_int/mod_xml_curl#g" /usr/local/src/freeswitch/
↳ modules.conf
sed -i "s#\#mod_db#mod_db#g" /usr/local/src/freeswitch/modules.conf
sed -i "s#\#applications/mod_voicemail#applications/mod_voicemail#g" /usr/local/src/
↳ freeswitch/modules.conf
sed -i "s#\#event_handlers/mod_json_cdr#event_handlers/mod_json_cdr#g" /usr/local/src/
↳ freeswitch/modules.conf
```

**Note:** # add a module by removing ‘#’ comment character at the beginning of the line # remove a module by inserting the ‘#’ comment character at the beginning of the line containing the name of the module to be skipped

## 4. Compile the Source

```
./configure -C
```

## 5. Install Freeswitch with sound files

```
make all install cd-sounds-install cd-moh-install
make && make install
```

## 6. Set right time in server

```
ntpdate pool.ntp.org
systemctl restart ntp
chkconfig ntp on
```

## 7. Create symbolic links for Freeswitch executables

```
ln -s /usr/local/freeswitch/bin/freeswitch /usr/local/bin/freeswitch
ln -s /usr/local/freeswitch/bin/fs_cli /usr/local/bin/fs_cli
```

## ASTPP Install

### 1. Download ASTPP

```
# Download ASTPP 3.5 source from git
cd /usr/src
git clone https://github.com/iNextrix/ASTPP
```

### 2. Change Apache working scenario

As we are using Nginx **from now** onwards **in** ASTPP 3.0, **if** you are using apache **for any** application then either have to move it to Nginx **and/or** remove apache. You can also change default port **for** apache **if** want to use it **continue and** troubleshoot some installation issue **if** arise.

### 3. Install ASTPP pre-requisite packages

```
apt-get -o Acquire::Check-Valid-Until=false update

apt-get install -y curl libyuv-dev libvpx2-dev nginx php5-fpm php5 php5-mcrypt
libmyodbc unixodbc-bin php5-dev
php5-common php5-cli php5-gd php-pear php5-cli php-apc php5-curl libxml2 libxml2-dev
openssl libcurl4-openssl-dev gettext gcc g++
```

### 4. Normalize ASTPP

```
#Create access & error log files.
touch /var/log/nginx/astpp_access_log
touch /var/log/nginx/astpp_error_log
touch /var/log/nginx/fs_access_log
touch /var/log/nginx/fs_error_log
php5enmod mcrypt
systemctl restart php5-fpm
service nginx reload
```

## ASTPP using FreeSWITCH (if you want to use ASTPP with FreeSWITCH)

### 1. Configure freeswitch startup script

```
cp /usr/src/ASTPP/freeswitch/init/freeswitch.debian.init /etc/init.d/freeswitch

chmod 755 /etc/init.d/freeswitch
chmod +x /etc/init.d/freeswitch
update-rc.d freeswitch defaults
chkconfig --add freeswitch
chkconfig --level 345 freeswitch on
```

### 2. Configure ASTPP with freeswitch

```
#Create directory structure for ASTPP
mkdir -p /var/lib/astpp/
mkdir -p /var/log/astpp/
```

```

mkdir -p /usr/local/astpp/
mkdir -p /var/www/

#Setting permisssion
chown -Rf root.root /var/lib/astpp/
chown -Rf www-data.www-data /var/log/astpp/
chown -Rf root.root /usr/local/astpp/
chown -Rf www-data.www-data /var/www/

#Setting up Scripts and Sounds for fs
cp -rf /usr/src/ASTPP/freeswitch/scripts/* /usr/local/freeswitch/scripts/
cp -rf /usr/src/ASTPP/freeswitch/fs /var/www/html/
cp -rf /usr/src/ASTPP/freeswitch/sounds/*.wav /usr/local/freeswitch/sounds/en/us/
↪callie/
chmod -Rf 777 /usr/local/freeswitch/sounds/en/us/callie/
rm -rf /usr/local/freeswitch/conf/dialplan/*
touch /usr/local/freeswitch/conf/dialplan/astpp.xml
rm -rf /usr/local/freeswitch/conf/directory/*
touch /usr/local/freeswitch/conf/directory/astpp.xml
rm -rf /usr/local/freeswitch/conf/sip_profiles/*
touch /usr/local/freeswitch/conf/sip_profiles/astpp.xml

```

### Install ASTPP web interface

```

mkdir -p /var/lib/astpp
cp /usr/src/ASTPP/config/* /var/lib/astpp/

#Setup web interface for ASTPP
mkdir -p /var/www/html/astpp
cp -rf /usr/src/ASTPP/web_interface/astpp/* /var/www/html/astpp/
chown -Rf www-data.www-data /var/www/html/astpp
cp /usr/src/ASTPP/web_interface/nginx/deb_* /etc/nginx/conf.d/

chmod -Rf 755 /var/www/html/astpp
touch /var/log/astpp/astpp.log
chown -Rf www-data.www-data /var/log/astpp/astpp.log

```

### Install ASTPP Database

```

#Restart mysql service
systemctl restart mysql
mysql -uroot -e "UPDATE mysql.user SET password=PASSWORD('<MYSQL_ROOT_PASSWORD>')_
↪WHERE user='root'; FLUSH PRIVILEGES;"

#Create database astpp
mysql -uroot -p<MYSQL_ROOT_PASSWORD> -e "create database astpp;"
mysql -uroot -p<MYSQL_ROOT_PASSWORD> -e "CREATE USER 'astppuser'@'localhost'_
↪IDENTIFIED BY '<ASTPP_USER_PASSWORD>';"
mysql -uroot -p<MYSQL_ROOT_PASSWORD> -e "GRANT ALL PRIVILEGES ON `astpp` . * TO
↪'astppuser'@'localhost' WITH
GRANT OPTION;FLUSH PRIVILEGES;"
mysql -uroot -p<MYSQL_ROOT_PASSWORD> astpp < /usr/src/ASTPP/database/astpp-3.0.sql
mysql -uroot -p<MYSQL_ROOT_PASSWORD> astpp < /usr/src/ASTPP/database/astpp-upgrade-3.
↪5.sql

#Setup ODBC Connection for mysql
cp /usr/src/ASTPP/misc/odbc/deb_odbc.ini /etc/odbc.ini

```

```
cp /usr/src/ASTPP/misc/odbc/deb_odbcinst.ini /etc/odbcinst.ini

#Update your mysql login information in odbc file
sed -i "s#PASSWORD = <PASSWORD>#PASSWORD = <MYSQL_ROOT_PASSWORD>#g" /etc/odbc.ini

Note:- Replace "<MYSQL_ROOT_PASSWORD>" with your mysql root login password and "
↳<ASTPP_USER_PASSWORD>" is as per
your choice.
```

### ASTPP Freeswitch Configuration

```
cp /usr/src/ASTPP/freeswitch/conf/autoload_configs/* /usr/local/freeswitch/conf/
↳autoload_configs/

#Edit db password in autoload config files.
sed -i "s#dbpass = <PASSWORD>#dbpass = <MYSQL_ROOT_PASSWORD>#g" /var/lib/astpp/astpp-
↳config.conf
sed -i "s#DB_PASSWD=\\<PASSWORD>\\\"#DB_PASSWD = \\\"<MYSQL_ROOT_PASSWORD>\\\"#g" /var/lib/
↳astpp/astpp.lua

#Edit base URL in astpp-config
sed -i "s#base_url=http://localhost:8081/#base_url=http://<SERVER FQDN / IP ADDRESS>
↳:8089/#g" /var/lib/astpp/
astpp-config.conf

Note:- Replace "<SERVER FQDN / IP ADDRESS>" with your server domain name or IPaddress
```

### Finalize Installation & Start Services

```
#Open php short tag
sed -i "s#short_open_tag = Off#short_open_tag = On#g" /etc/php.ini

#Configure services for startup
systemctl disable apache2 #If you are using it then change the port or update your_
↳configuration for nginx
otherwise your gui will not up
systemctl enable nginx
systemctl enable php5-fpm
systemctl start mysql
systemctl start freeswitch
chkconfig --levels 345 mariadb on
chkconfig --levels 345 freeswitch on

Note:- If you want to use iptables then configure it to allow all port used in fs and_
↳ASTPP.
```

### Setup cron

```
# Generate Invoice
0 1 * * * cd /var/www/html/astpp/cron/ && php cron.php GenerateInvoice

# Low balance notification
0 1 * * * cd /var/www/html/astpp/cron/ && php cron.php UpdateBalance

# Low balance notification
0 0 * * * cd /var/www/html/astpp/cron/ && php cron.php LowBalance

# Update currency rate
```

```
0 0 * * * cd /var/www/html/astpp/cron/ && php cron.php CurrencyUpdate

# Email Broadcasting
0 0 * * * cd /var/www/html/astpp/cron/ && php cron.php BroadcastEmail
```

**Finally Reboot it.**

```
#You are almost done with your configuration so just reboot it and make sure,
↪everything is working fine.
```

```
reboot now
```

```
#Once server up and running again, check below service status.
systemctl status nginx
systemctl status mysql
systemctl status freeswitch
systemctl status php5-fpm
```

**Note:** You are done with GUI installation. Enjoy :) Visit the astpp admin page in your web browser. It can be found here: [http://server\\_ip:8089/](http://server_ip:8089/) Please change the ip address depending upon your box. The default username and password is “admin”.

Note : In case of any issue please refer apache error log.

**Note:** If you have any other question(s) then please contact us on [sales@inextrix.com](mailto:sales@inextrix.com) or post your questions(s) in <https://groups.google.com/forum/#!forum/astpp>.

## 2.3 Quick Start

Here are the steps to configure basic system:

### [Origination Configuration]

1. Create Rate Group. Tariff -> Rate Group
2. Select Trunk in Rate Group
3. Add Origination Rates. Tariff -> Origination rates (Pattern example : 1, 235)

### [Termination Configuration]

1. Add Gateway under your sip profile. Switch -> Gateways
2. Add Provider. Global Accounts -> Customers -> Create Provider
3. Add your trunk. Carriers -> Trunks
4. Add termination rates. Carriers -> Termination Rates(Pattern example : 1, 235)

Create new Customer or Reseller and assign your created rate group. For customer add SIP Device from View Account or Freeswitch SIP Devices.

For reseller configuration, create new reseller. Login as reseller. Add Routes. Create customers and then make calls using that customer.

Register it and make outbound calls.



[How to ASTPP Quick Start](#)



Fail2Ban is an intrusion prevention system that works by scanning log files and then taking action based on the entries in those logs.

You can configure Fail2Ban in a way that will update iptables firewall rules, when an authentication failure threshold is reached which helps in preventing SIP brute force attacks against FS instances.

Fail2Ban scans your freeswitch log file and bans IP that makes too many password failures. It updates firewall rules to reject the IP address.

Fail2Ban is available at [fail2ban.org](http://fail2ban.org) as well as more documentation.

### Related pages

## 3.1 Apache Authentication

Apache authentication can be configured to require web site visitors to login with a user and password.

We protect cgi-bin apache directory which contains important perl scripts for dialplan, configurations and directory.

### Step # 1: Make sure Apache is configured to use .htaccess file

You need to have "AllowOverride AuthConfig" directive in apache configuration file in  
→order for directives to have  
any effect.

```
For CentOS
vim /etc/httpd/conf/httpd.conf
<Directory "/var/www/cgi-bin">
AllowOverride AuthConfig
Options None
Order allow,deny
Allow from all
</Directory>
```

Save the file and restart Apache

```
# service httpd restart

For Debian
vim /etc/apache2/sites-available/default
ScriptAlias /cgi-bin/ /usr/lib/cgi-bin/
<Directory "/usr/lib/cgi-bin">
AllowOverride AuthConfig
Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch
Order allow,deny
Allow from all
</Directory>

Save the file and restart Apache
# service apache2 restart
```

## Step # 2: Create a password file with htpasswd

htpasswd command is used to create and update the flat-files (text file) used to store usernames and password for basic authentication of Apache users. General syntax: `htpasswd -c password-file username`

Where,

- `-c` : Create the password-file. If password-file already exists, it is rewritten and truncated.
- `username` : The username to create or update in password-file. If username does not exist in this file, an entry is added. If it does exist, the password is changed.

Create directory outside apache document root, so that only Apache can access password file. The password-file should be placed somewhere not accessible from the web. This is so that people cannot download the password file:

```
# mkdir -p /home/secure/
Add new user called astpp
# htpasswd -c /home/secure/apasswords astpp
New password:
Re-type new password:
allow apache user apache to read password file:
```

For CentOS

```
# chown apache:apache /home/secure/apasswords
# chmod 0660 /home/secure/apasswords
```

For Debian

```
# chown www-data:www-data /home/secure/apasswords
# chmod 0660 /home/secure/apasswords
```

Now user astpp is added but you need to configure the Apache web server to request a password and tell the server which users are allowed access. We have directory `/var/www/cgi-bin` and we would like to protect it with a password.

For CentOS

```
# cd /var/www/cgi-bin
# vim .htaccess
```

For Debian

```
# cd /usr/lib/cgi-bin
# vim .htaccess
Add following text:
        AuthType Basic
        AuthName "Restricted Access"
        AuthUserFile /home/secure/apasswords
        Require user astpp

Now add username and password to following files:
# vim /usr/local/freeswitch/conf/autoload_configs/xml_curl.conf.xml
<!-- set this to provide authentication credentials to the server -->
<param name="gateway-credentials" value="astpp:your_password"/>

# vim /usr/local/freeswitch/conf/autoload_configs/xml_cdr.conf.xml
<!-- optional: credentials to send to web server -->
<param name="cred" value="astpp:your_password"/>

Now restart freeswitch
# service freeswitch restart
```

You can test it by running below url in browser

<http://localhost/cgi-bin/astpp/astpp-fs-xml.cgi>

You will be asked for username and password for authentication.

## 3.2 Secure Freeswitch

### Change Event Socket credential

```
# vim /usr/local/freeswitch/conf/autoload_configs/event_socket.conf.xml
<param name="password" value="your_password"/>
Restart freeswitch service #service freeswitch restart
```

### Set FreeSwitch Event Socket credential in UI

1. Login to ASTPP portal and Open Switch -> Freeswitch Server page.
2. Edit configured FreeSwitch settings to new credential which you just configured in event socket file.

## 3.3 Secure Portal

**Steps :** 1. Login to ASTPP portal

2. Open Accounts -> Admins page
3. Set strong password for admin

**Note:** Always use strong passwords to keep system secure.

## 3.4 Fail2ban

Fail2Ban is an intrusion prevention system that works by scanning log files and then taking action based on the entries in those logs.

You can configure Fail2Ban in a way that will update iptables firewall rules, when an authentication failure threshold is reached which helps in preventing SIP brute force attacks against FS instances.

Fail2Ban scans your freeswitch log file and bans IP that makes too many password failures. It updates firewall rules to reject the IP address.

Fail2Ban is available at [fail2ban.org](http://fail2ban.org) as well as more documentation.

### Installation :

```
For CentOS
cd /usr/src
service iptables stop
wget -T 10 -t 1 http://sourceforge.net/projects/fail2ban/files/fail2ban-stable/
↪fail2ban-0.8.4/fail2ban-0.8.4.tar.bz2
tar -jxf fail2ban-0.8.4.tar.bz2
cd fail2ban-0.8.4

python setup.py install
cp /usr/src/fail2ban-0.8.4/files/redhat-initd /etc/init.d/fail2ban
chmod 755 /etc/init.d/fail2ban

For Debian
apt-get -y install fail2ban
```

### Configurations:

```
touch /etc/fail2ban/filter.d/freeswitch.conf
cp /etc/fail2ban/filter.d/freeswitch.conf /etc/fail2ban/filter.d/freeswitch.bak

# vim /etc/fail2ban/filter.d/freeswitch.conf

[Definition]
# Option: failregex
# Notes.: regex to match the password failures messages in the logfile. The
# host must be matched by a group named host. The tag '<HOST>' can
# be used for standard IP/hostname matching and is only an alias for
# (?:::f{4,6}:)?(?P<host>[\w\-\.\^_]+)
# Values: TEXT
#
failregex
= \[WARNING\] sofia_reg.c:\d+ SIP auth challenge \(\REGISTER\) on sofia
profile \['^\'+\] for \[.*\] from ip <HOST>
\[WARNING\] sofia_reg.c:\d+ SIP auth failure \(\INVITE\) on sofia profile \['^\'+\]
↪for \[.*\] from ip <HOST>
# Option: ignoreregex
# Notes.: regex to ignore. If this regex matches, the line is ignored.
# Values: TEXT
#
ignoreregex =
```

```
# vim /etc/fail2ban/filter.d/freeswitch-dos.conf

[Definition]
# Option: failregex
# Notes.: regex to match the password failures messages in the logfile. The
# host must be matched by a group named host. The tag '<HOST>' can
# be used for standard IP/hostname matching and is only an alias for
# (?:::f{4,6}:)?(?P<host>[\w\-.^_]+)
# Values: TEXT
#
failregex
= \[WARNING\] sofia_reg.c:\d+ SIP auth challenge \(\REGISTER\) on sofia
profile \['^']+\' for \[.*\] from ip <HOST>
# Option: ignoreregex
# Notes.: regex to ignore. If this regex matches, the line is ignored.
# Values: TEXT
#
ignoreregex =

cp /etc/fail2ban/jail.conf /etc/fail2ban/jail.bak

# vim /etc/fail2ban/jail.local

[freeswitch]
enabled = true
port = 5060,5061,5080,5081
filter = freeswitch
logpath = /usr/local/freeswitch/log/freeswitch.log
maxretry = 10
bantime = 10000000
findtime = 480
action = iptables-allports[name=freeswitch, protocol=all]
sendmail-whois[name=FreeSwitch, dest=, sender=fail2ban@]

[freeswitch-dos]
enabled = true
port = 5060,5061,5080,5081
filter = freeswitch-dos
logpath = /usr/local/freeswitch/log/freeswitch.log
action = iptables-allports[name=freeswitch-dos, protocol=all]
maxretry = 50
findtime = 30
bantime = 6000

/etc/init.d/iptables start

/etc/init.d/fail2ban start

chkconfig fail2ban on
```



## CHAPTER 4

---

### Service Monitoring

---

Monit is a small Open Source utility for managing and monitoring systems. Monit conducts automatic maintenance and repair and can execute meaningful causal actions in error situations.

For ASTPP we can configure apache, freeswitch and mysql services to monitor.

#### Installation

```
For CentOS
yum install monit

For Debian
apt-get install monit
```

#### Configurations:

##### Enable Web Interface in Monit

```
Monit also provided an web interface to view services and processes status. To enable,
↪monit web interface,
edit configuration file ( For CentOS /etc/monit.conf & For Debian System /etc/monit/
↪monitrc ) and modify following
lines as per your server information's

set httpd port 2812 and
use address localhost
allow localhost
allow admin:monit
allow @monit
allow @users readonly
```

##### Configure Monit To Monitor Services

```
1) Nginx:
```

## 2) MySQL

```
check process mysqld with pidfile /var/run/mysqld/mysqld.pid
start program = "/etc/init.d/mysql start"
stop program = "/etc/init.d/mysql stop"
group resources
if cpu > 60% for 2 cycles then alert
if cpu > 80% for 5 cycles then restart
```

## 3) Freeswitch

```
check process freeswitch with pidfile /usr/local/freeswitch/run/freeswitch.pid
start program = "/etc/init.d/freeswitch start"
stop program = "/etc/init.d/freeswitch stop"
if 5 restarts within 5 cycles then timeout
if cpu > 60% for 2 cycles then alert
if cpu > 80% for 5 cycles then alert
if totalmem > 2000.0 MB for 5 cycles then restart
if children > 2500 then restart
```

**Configuration for email notification**

```
# set mailserver mail.bar.baz, # primary mailserver
# backup.bar.baz port 10025, # backup mailserver on port 10025
# localhost # fallback relay

set mailserver localhost

# set alert sysadm@foo.bar # receive all alerts
# set alert manager@foo.bar only on { timeout } # receive just service-
# # timeout alert

set alert your@email.com
```

It will notify the status of services **in** email which are configured **in** configuration\_↵  
↵file.

**Start service**

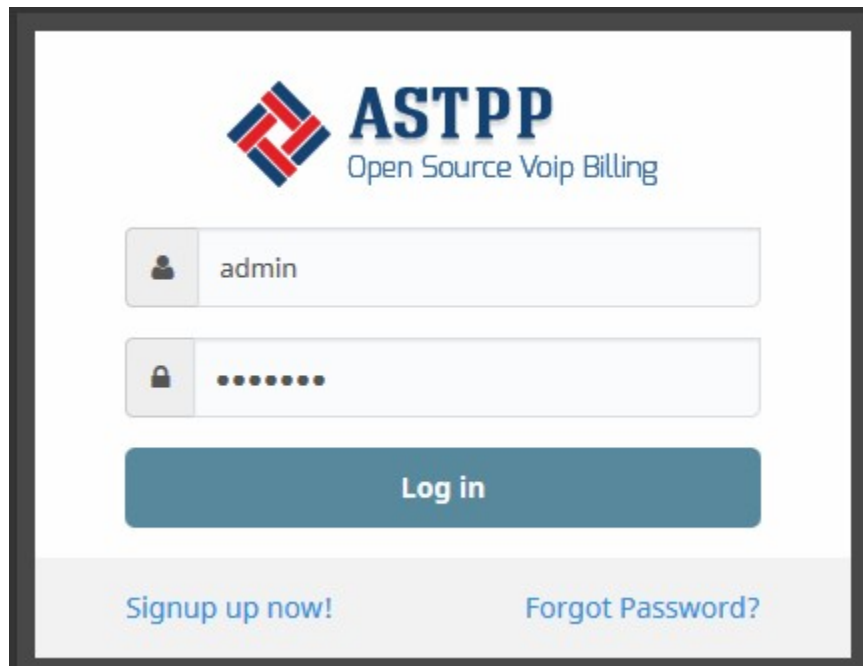
```
Now start the monit service
# service monit start
```



### 5.1 Login

Login page for Customer, Reseller, Admin and Provider.

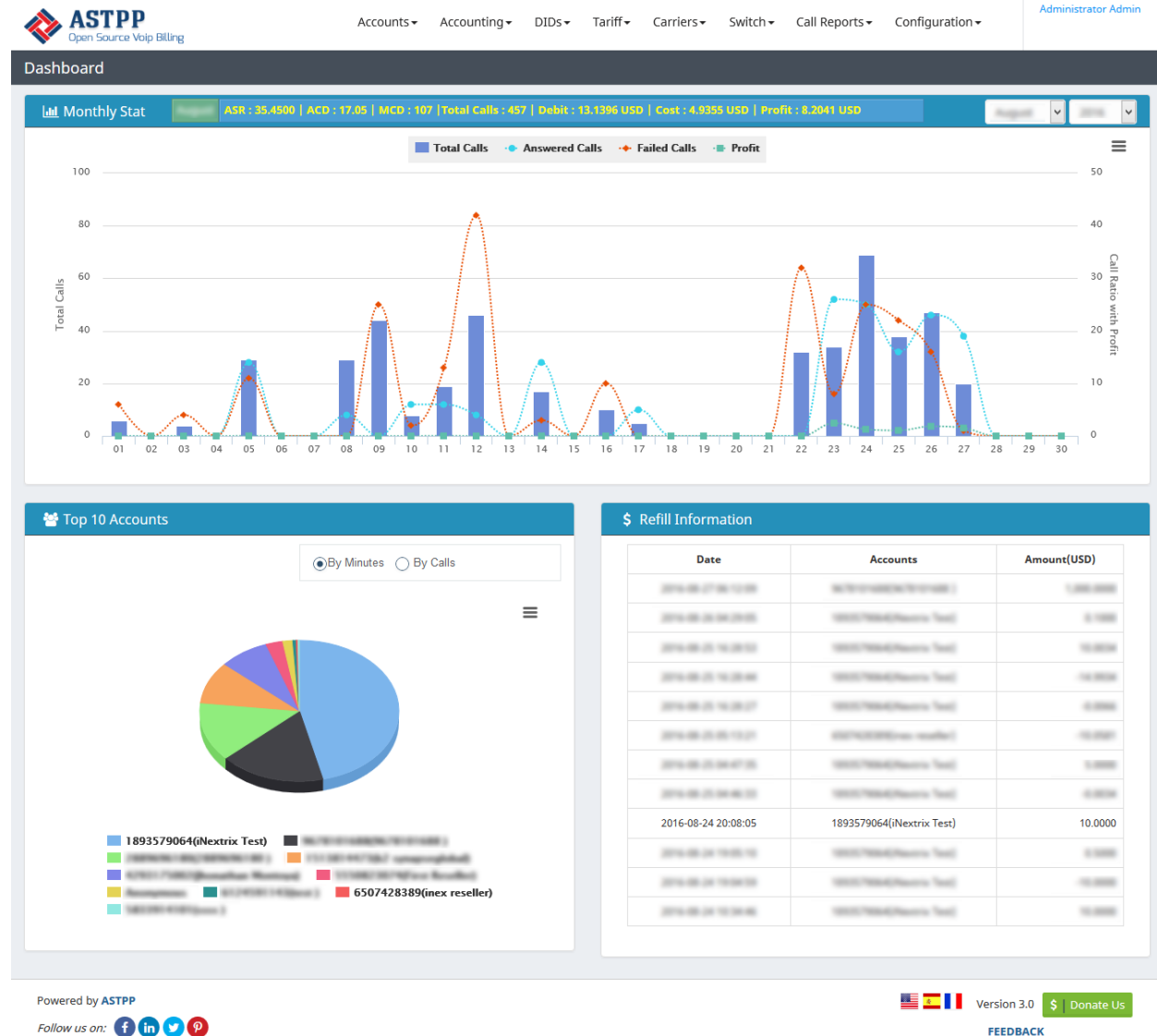
Enter Account number or email and password to login in to associate portal.

The image shows the login page for ASTPP Open Source Voip Billing. At the top, there is a logo consisting of a red and blue geometric design next to the text "ASTPP" in a large, bold, blue font, with "Open Source Voip Billing" in a smaller, blue font below it. Below the logo, there are two input fields. The first field has a user icon on the left and the text "admin" inside. The second field has a lock icon on the left and a series of dots representing a password. Below these fields is a large, blue, rounded rectangular button with the text "Log in" in white. At the bottom of the page, there are two links: "Signup up now!" and "Forgot Password?", both in blue text.

<b>Signup up now</b>	Click on signup to become new user
<b>Forgot Password</b>	If you forgot your password and want to reset then use this link

## 5.2 Dashboard

ASTPP have nice dashboard page with Summary of total call graph, Top 10 accounts and Recent accounts information. You can also change month and year from top right drop downs by default it show current month records in graph.



- **Summary of total call Graph**

- This graph includes current month calls statics including total number of calls, answered calls, failed calls and profit.

- **Top 10 accounts**

- You can filter top 10 accounts by minutes utilized OR by calls. That way admin can identify their potential clients easily.

- **Recharge information**

- This report will gives admin to monitor recently done recharges in system.

## 5.3 Accounts

ASTPP have different types accounts based on their roles and responsibility. They are as below,

- **Customers / Providers**

- We consider customers as (Originator) and providers as (Terminator + Originator) and will be able to do various operations like as below,

1. Purchase DIDs & configure it
2. Recharge account
3. Create own SIP Devices
4. Manage own caller ids
5. Invoices
6. Check their CDRs

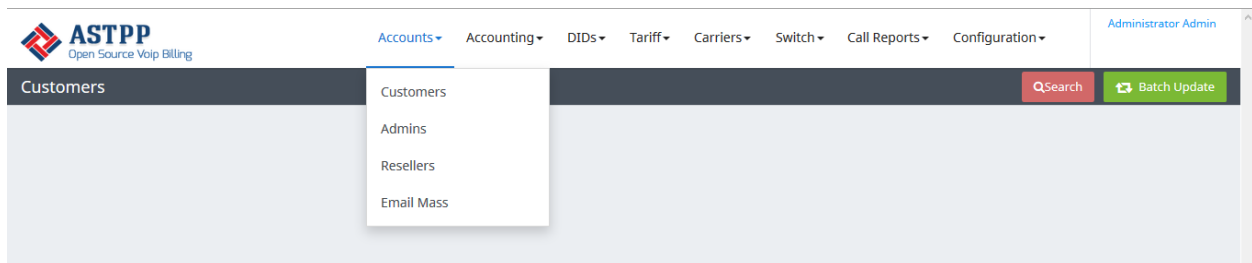
- **Resellers**

- ASTPP gives you freedom to create N level resellers and each reseller will be able to configure their own rates and customers. Resellers will be able to do below operations in system,

1. Create customers & sub-resellers
2. Configure rate groups & rates
3. Purchase DIDs
4. Invoices
5. Check reports
6. Personalize invoices configurations

- **Admin / Sub admins**

- Admins are having full control over system whereas sub admins are having only reporting permissions.



You can navigate through different menus of ASTPP.

Eg. : To create new customer hover on Accounts, it will show sub menus like Customers, Admins, Resellers. Click on Customers and then click on Create Create Customer.

### Related pages

### 5.3.1 List Account

This page will list customers and providers accounts.

Customers

QSearchBatch Update

Create CustomerMass CreateCreate ProviderExportDelete

<input type="checkbox"/>	Account	First Name	Last Name	Company	Rate Group	Balance (USD)	Credit Limit (USD)	First Used	Expiry Date	CC	Status	Created Date	Action
<input type="checkbox"/>	<div><div>C</div><div>Postpaid</div></div>	gonggong	Wang	Inc	100	0.0000	1,000,000	2019-08-01 10:00:00	2019-08-01 10:00:00	1	Active	2019-08-01 10:00:00	\$ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<input type="checkbox"/>	<div><div>P</div><div>Prepaid</div></div>	Provider	Wang		100	0.0000	0.0000	2019-08-01 10:00:00	2019-07-01 10:00:00	1	Active	2019-07-01 10:00:00	\$ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<input type="checkbox"/>	<div><div>C</div><div>Prepaid</div></div>	Shop	Wang		100	10.0000	0.0000	2019-08-01 10:00:00	2019-08-01 10:00:00	1	Active	2019-08-01 10:00:00	\$ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<input type="checkbox"/>	<div><div>C</div><div>Prepaid</div></div>	Merchant			100	0.0000	0.0000	2019-08-01 10:00:00	2019-08-01 10:00:00	1	Active	2019-08-01 10:00:00	\$ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<input type="checkbox"/>	<div><div>P</div><div>Prepaid</div></div>	Gateway	Provider		100	100.0000	0.0000	2019-08-01 10:00:00	2019-07-01 10:00:00	1	Active	2019-07-01 10:00:00	\$ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

<<<>>>

Page1of 2






C

1 - 10 of 15 Records





10

1 - 10 of 15 Records

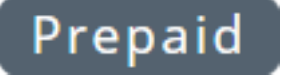
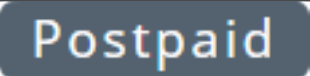
### Top panel button of grid

 Create Customer	To create New customer account.
 Mass Create	To create Multiple customer account.
 Create Provider	To create New provider account.
 Export	It will export accounts data.
 Delete	Delete selected accounts.

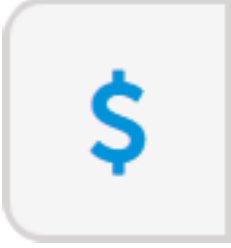

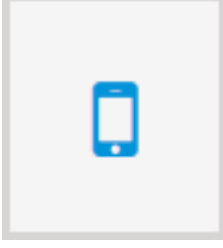

### Account column button of grid for account entity

	It indicates customer accounts
	It indicates provider accounts
	It indicates admin accounts
	It indicates subadmin accounts

**Account column button of grid for account type**

	It indicates account type is prepaid
	It indicates account type is postpaid


**Action column in grid**

	Refill
	Add Caller ID
	Edit
	Delete

**5.3.2 Create Account**

Once you click on Create Customer button, it will show you page to create new account like below screenshot. Enter appropriate information in page and click on save button to create account successfully.

For creating resellers, admins and sub-admins, we have similar process.



Accounts ▾
Accounting ▾
DIDs ▾
Tariff ▾
Carriers ▾
Switch ▾
Call Reports ▾
Configuration ▾

Administrator  
Administrator

Create Customer

Back

Account Profile

Account \*

9519047762

Password \*

f0fb26

Pin \*

9519047762

First Name \*

Samir

Last Name

Doshi

Company

Inextrix Technologies Pvt. Ltd.

Phone

91-989-834-7245

Mobile

91-989-834-7245

Email \*

sales@inextrix.com

Address 1

Ashram Road, Bhimjipura, Nava Vadaj,

Address 2

City

Ahmedabad

Province/State

Gujarat

Zip/Postal Code

380013

Country \*

India ▾

Timezone \*

(GMT-12:00) International Date Lir ▾

Currency \*

U.S. Dollar (USD) ▾

Account Settings

Status

Active ▾

Allow Recording

Yes ▾

Allow IP Management

Yes ▾

Create SIP Device

Yes ▾

Number Translation

Concurrent Calls

Interval

First Used

0000-00-00 00:00:00

Account Valid Days

Expiry Date

2026-08-30 07:36:35

Billing Settings

Rate Group \*

test ▾

Account Type

Prepaid ▾

Billing Schedule

Monthly ▾

Billing Day

28 ▾

Balance

Credit Limit

Allow Local Calls

Yes ▾

LC Charge / Min

Tax

Alert Threshold

Email Alerts ?

Yes ▾





Balance Below




Email

Save

Cancel

Powered by ASTPP

Follow us on:    




Version 3.0

Donate Us

FEEDBACK

## Create Customer Account Form Fields Details:

Account	Also referred as User Name, Card Number or ID is typically a 10 unique digits that identify an account into the system. Length of account number is configurable, admin can change it from global configuration.
Password	The password that needs to be provided to the customer so he/she can log into portal.
Pin	Calling Card Pin Important if customer is using calling card feature. Length of pin is configurable, admin can change it from calling card configuration.
First-Name	Customer First name
Last-Name	Customer Last name
Company	Customer Company name
Tele-phone	Customer Telephone number
Country	Customer Country
Time-zone	Customer Timezone
Status	Customer account status
Max Channels	Maximum allowed concurrent channels for outbound calls. 0=Unlimited
Number Translation	If you wish to translate number with some defined number for specific customer then use this feature.
First Used	Customer account's first used date and time. It will be updated when customer will do first call from system.
Expiry Date	Customer account's expiry date. After that date, customer wouldn't be able to make new calls.
Valid Days	Valid days for customer account.
Create SIP Device	By selecting check-box sip device is automatically created for that new user account.
Rate Group	Rate group is an essential field for billing. Without rate group customer wouldn't be able to make any calls. You can create rate group by navigating to Tariff -> Rate group.
Billing Schedule	Billing schedule for invoice generation.
Billing Day	If billing schedule is monthly then you will be able to define the day on which you want customer invoice should be generated.
Currency	Customer account's currency. If customer currency is INR then all amounts will appear in INR in customer portal.
Account Type	Select customer account type. Prepaid OR Postpaid. For prepaid customers, system will generate receipts as soon as any charges will be applied to them. For Postpaid, system will generate invoice on defined Billing Day.
Credit Limit	Customer account's credit limit. Credit limit is only used for the postpaid account.
Tax	Select applicable taxes You can create taxes from Configuration -> Taxes.
Low Balance Alert	Define low balance amount on which you want to send notification to customer.
Enable Email Alerts?	system will notify for Low credit if this option is set to Yes.
Email Address	E-mail address to get Low credit notification.



How to create customer

## 5.3.3 Edit Account

Customer edit page contains settings tabs,

**ASTPP**  
Open Source Voip Billing

Accounts ▾ Accounting ▾ DIDs ▾ Tariff ▾ Carriers ▾ Switch ▾ Call Reports ▾ Configuration ▾

Administrator  
Administrator

Customer Profile

SIP Devices  
IP Settings  
Caller ID  
Speed Dial  
Blocked Codes  
DID  
Subscription  
Invoice  
Refill Report  
Charges History  
CDRs  
Emails  
Alert Threshold

Customers / Profile

Account Profile

Account \* 9988169756  
Password .....  
Pin \* 380013  
First Name \* test  
Last Name test  
Company Inextrix Technologies Pvt. Ltd.  
Phone 01212121212  
Mobile 01212121212  
Email \* sales@inextrix.com  
Address 1 Ahmedabad  
Address 2  
City Ahmedabad  
Province/State Gujarat  
Zip/Postal Code  
Country \* India  
Timezone \* (GMT+05:30) Chennai, Kol  
Currency \* U.S. Dollar (USD)

Account Settings

Status Active  
Allow Recording Yes  
Allow IP Management Yes  
Number Translation  
Concurrent Calls 0  
Interval 0  
First Used 0000-00-00 00:00:00  
Account Valid Days 0  
Expiry Date 2026-07-26 07:12:48

Billing Settings

Rate Group \* test  
Account Type Prepaid  
Billing Schedule Monthly  
Billing Day 26  
Balance 98.50000  
Credit Limit 0.00000  
Allow Local Calls Yes  
LC Charge / Min 0.5  
Tax

Save Cancel

Powered by **ASTPP**  
Follow us on:

Version 3.0 [Donate Us](#)  
[FEEDBACK](#)


Here is left side menu information,



Customer Profile	To edit customer's personal details.
SIP Devices	Create/update SIP Devices.
IP Settings	Configure IP to allow calls from defined IPs.
Caller ID	Set caller id for pinless authentication.
Speed Dial	Set your favourite number as speed dial from here.
Block Codes	Configure blocked prefixes for account.
DID	Assign DID To account.
Subscription	Assign subscription charges to account.
Invoices	Shows list of invoices generated for this account.
Refill Report	Show all refill history of specific account.
Charges History	It shows all charges which apply to specific customer.
CDRS	Customer accounts CDRs information.
Emails	Here you can check email history of accounts.
Alert Threshold	Here we can set low balance email notification.

**Related pages**

## Account Details


ASTPP  
Open Source Voip Billing

Accounts ▾ Accounting ▾ DIDs ▾ Tariff ▾ Carriers ▾ Switch ▾ Call Reports ▾ Configuration ▾

[Administrator](#)  
[Administrator](#)


Customer Profile

SIP Devices  
IP Settings  
Caller ID  
Speed Dial  
Blocked Codes  
DID  
Subscription  
Invoice  
Refill Report  
Charges History  
CDRs  
Emails  
Alert Threshold

Customers / Profile

Back

Account Profile

Account \* 9988169756  
Password \*\*\*\*\*  
Pin \* 380013   
First Name \* test  
Last Name test  
Company inextrix Technologies Pvt. Ltd.  
Phone 01212121212  
Mobile 01212121212  
Email \* sales@inextrix.com  
Address 1 Ahmedabad  
Address 2  
City Ahmedabad  
Province/State Gujarat  
Zip/Postal Code  
Country \* India ▾  
Timezone \* (GMT+05:30) Chennai, Kol ▾  
Currency \* U.S. Dollar (USD) ▾

Account Settings

Status Active ▾  
Allow Recording Yes ▾  
Allow IP Management Yes ▾  
Number Translation  
Concurrent Calls 0  
Interval 0  
First Used 0000-00-00 00:00:00  
Account Valid Days 0  
Expiry Date 2026-07-26 07:12:48

Billing Settings

Rate Group \* test ▾  
Account Type Prepaid ▾  
Billing Schedule Monthly ▾  
Billing Day 26 ▲  
Balance 98.50000  
Credit Limit 0.00000  
Allow Local Calls Yes ▾  
LC Charge / Min 0.5  
Tax

Save

Cancel

Powered by ASTPP

Follow us on:    

Version 3.0 [Donate Us](#)

[FEEDBACK](#)

Account	Also referred as User Name, Card Number or ID is typically a 10 unique digits that identify an account into the system. Length of account number is configurable, admin can change it from global configuration.
Password	The password that needs to be provided to the customer so he/she can log into portal.
Pin	Calling Card Pin Important if customer is using calling card feature. Length of pin is configurable, admin can change it from calling card configuration.
First-Name	Customer First name
Last-Name	Customer Last name
Company	Customer Company name
Tele-phone	Customer Telephone number
Country	Customer Country
Time-zone	Customer Timezone
Status	Customer account status
Max Channels	Maximum allowed concurrent channels for outbound calls. 0=Unlimited
Number Translation	If you wish to translate number with some defined number for specific customer then use this feature.
First Used	Customer account's first used date and time. It will be updated when customer will do first call from system.
Expiry Date	Customer account's expiry date. After that date, customer wouldn't be able to make new calls.
Valid Days	Valid days for customer account.
Create SIP Device	By selecting check-box sip device is automatically created for that new user account.
Rate Group	Rate group is an essential field for billing. Without rate group customer wouldn't be able to make any calls. You can create rate group by navigating to Tariff -> Rate group.
Billing Schedule	Billing schedule for invoice generation.
Billing Day	If billing schedule is monthly then you will be able to define the day on which you want customer invoice should be generated.
Currency	Customer account's currency. If customer currency is INR then all amounts will appear in INR in customer portal.
Account Type	Select customer account type. Prepaid OR Postpaid. For prepaid customers, system will generate receipts as soon as any charges will be applied to them. For Postpaid, system will generate invoice on defined Billing Day.
Credit Limit	Customer account's credit limit. Credit limit is only used for the postpaid account.
Tax	Select applicable taxes You can create taxes from Configuration -> Taxes.
Low Balance Alert	Define low balance amount on which you want to send notification to customer.
Enable Email Alerts?	system will notify for Low credit if this option is set to Yes.
Email Address	E-mail address to get Low credit notification.

## Customer SIP Devices

Create/update SIP Devices.

	User Name	Password	SIP Profile	Caller Name	Caller Number	Voicemail	Status	Created Date	Modified Date	Action
<input type="checkbox"/>	1671360797	1671360797	default	1671360797	1671360797	✓	Active	2016-07-26 06:46:03	2016-07-26 11:48:00	
<input type="checkbox"/>	7669272893	7669272893	default			✓	Active	2016-08-05 10:18:15	0000-00-00 00:00:00	

## IP Settings

To enable IP Based authentication for customer. Define customer IP's in below TAB and system will start accepting calls from defined IPs.

Name	IP	Prefix	Created Date	Modified Date	Action
IP Test	192.168.1.66/32	91	2016-08-31 03:36:15	0000-00-00 00:00:00	

### Add/Edit IP Settings form fields description

<b>Name</b>	Add a name for identification only, this can be the client OR server name if you wish.
<b>IP Address</b>	Add the IP Address you want to authenticate with.
<b>Prefix</b>	For additional validation over IP based authentication.

## Caller ID

Set caller id for pinless authentication.

Customer Profile

SIP Devices

IP Settings

Caller ID

Speed Dial

Blocked Codes

DID

Subscription

Invoice

Refill Report

Charges History

CDRS

Customers / Profile / Caller ID

Add

Search

Caller ID

Caller ID :

Save

Caller ID	Status	Created Date	Modified Date	Action	
16713607978	Active	2016-08-31 03:43:37	0000-00-00 00:00:00		

<< < Page 1 of 1 > >>

1 - 1 of 1 Records 10 1 - 1 of 1 Records

## Speed Dial

Customer Profile

SIP Devices

IP Settings

Caller ID

Speed Dial

Blocked Codes

DID

Subscription

Invoice

Refill Report

Charges History

CDRs

Emails

Alert Threshold

Customers / Profile / Speed Dial

Back

Speed Dial (#Digits)	Extension	Action
0	123456787654	<button>Edit</button> <button>Delete</button>
1	918866886690	<button>Edit</button> <button>Delete</button>
2	7264438671	<button>Edit</button> <button>Delete</button>
3		<button>Edit</button> <button>Delete</button>
4		<button>Edit</button> <button>Delete</button>
5		<button>Edit</button> <button>Delete</button>
6		<button>Edit</button> <button>Delete</button>
7		<button>Edit</button> <button>Delete</button>
8		<button>Edit</button> <button>Delete</button>
9		<button>Edit</button> <button>Delete</button>

## Block Codes

If you wish to block certain prefixes for account then you can configure those prefixes from Block Codes TAB.

Customer Profile

SIP Devices

IP Settings

Caller ID

Speed Dial

Blocked Codes

DID

Subscription

Invoice

Refill Report

Charges History

CDRs

Emails

Alert Threshold

Customers / Profile / Blocked Codes

Back

AddDelete

Search

<input type="checkbox"/>	Code	Destination	Action
<input type="checkbox"/>	91	India	

<<<Page 1 of 1>>>

1 - 1 of 1 Records10

1 - 1 of 1 Records

## DID

Assign DID To account.

Customer Profile

SIP Devices

IP Settings

Caller ID

Speed Dial

Blocked Codes

DID

Subscription

Invoice

Refill Report

Charges History

CDRs

Emails

Alert Threshold

Customers / Profile / DID

Back

Purchase

Search

Purchase DID

Country : South AfricaAvailable DIDs : --Select--Purchase DID

DID	Country	Per Minute Cost(USD)	Initial Increment	Increment	Setup Fee(USD)	Monthly Fee(USD)	Action
3109055421	United States of America	0.0000	0	0	0.0000	0.0000	

<<<Page 1 of 1>>>

1 - 1 of 1 Records10

1 - 1 of 1 Records

## Subscription

Assign subscription charges to account.

Customer Profile  
SIP Devices  
IP Settings  
Caller ID  
Speed Dial  
Blocked Codes  
DID  
**Subscription**  
Invoice  
Refill Report  
Charges History  
CDRs  
Emails  
Alert Threshold

Customers / Profile / Subscriptions

Assign

Search

Subscriptions

Subscriptions: --Select-- 

Assign

Name	Amount(USD)	Prorate	Billing Cycle	Created Date	Modified Date	Action
subscription test	10.0000	Yes	Daily	2016-08-30 09:45:59	0000-00-00 00:00:00	<div></div>

<<

<

Page 1 of 1

>

>>

1 - 1 of 1 Records

10

1 - 1 of 1 Records

## Account Invoices

Shows list of invoices generated for this account.

Customer Profile  
SIP Devices  
IP Settings  
Caller ID  
Speed Dial  
Blocked Codes  
DID  
Subscription  
**Invoice**  
Refill Report  
Charges History  
CDRs  
Emails  
Alert Threshold

Customers / Profile / Invoices

Search

Number	Type	Generated Date	From Date	Due Date	Last Pay Date	Amount(USD)	Outstanding Amount(USD)	Action
<div>abc00007</div>	Automatically	2016-07-25	2016-07-25	2016-08-04		100.0000	0.0000	<div></div>
<div>abc000018</div>	Automatically	2016-08-10	2016-08-10	2016-20-10		10.0000	0.0000	<div>Paid</div>
<div>abc000020</div>	Manually	2016-08-29	2016-08-29	2016-08-01		20.0000	0.0000	<div></div>

<<

<

Page 1 of 1

>

>>

1 - 3 of 3 Records

10

1 - 3 of 3 Records

## Refill Report

Customer Profile	Customers / Profile / Refill Report	Back
SIP Devices		Search
IP Settings		
Caller ID		
Speed Dial		
Blocked Codes		
DID		
Subscription		
Invoice		
Refill Report		
Charges History		
CDRs		
Emails		
Alert Threshold		

Date	Amount(USD)	Refill By	Note
2016-09-19 06:30:09	1.0000	admin	Payment made by inex customer, invoices No: INV_00005
2016-09-19 06:24:50	1.0000	admin	Payment made by inex customer, invoices No: INV_00004
2016-09-14 04:25:05	1.0000	admin	Payment made by inex customer, invoices No: INV_00003
2016-09-14 04:22:43	100.0000	Admin	
2016-09-14 04:19:45	10.0000	admin	Payment made by inex customer, invoices No: INV_00001
2016-09-13 10:46:12	1.0000	Admin	Recharge using Refill coupon,Refill coupon No. 12566090
2016-09-09 07:44:52	1.0000	Admin	
2016-09-09 07:41:49	1.0000	Admin	
2016-09-08 04:33:17	1.0000	Admin	

<< < Page 1 of 1 > >> 1 - 9 of 9 Records 10 1 - 9 of 9 Records

## Charges History

Customer Profile	Customers / Profile / Charges History	Back
SIP Devices		Search
IP Settings		
Caller ID		
Speed Dial		
Blocked Codes		
DID		
Subscription		
Invoice		
Refill Report		
Charges History		
CDRs		
Emails		
Alert Threshold		

Created Date	Invoice Number	Charge Type	Before Balance (USD)	Debit (-) (USD)	Credit (+) (USD)	After Balance (USD)	Description
2016-08-04 05:00:13	abc000014	PAYMENT	90.4000	0.0000	5.0000	95.4000	Payment Made by Paypal on date:- 2016-08-04 05:00:13
<b>Total</b>	-	-	-	<b>1.0000</b>	<b>6.0000</b>	-	-

<< < Page 1 of 1 > >> 1 - 4 of 4 Records 10 1 - 4 of 4 Records

## CDRs

Customer account CDR information. That will display incoming and outgoing calls.

This report will display only current day records only.









Customer Profile	Customers / Profile / CDRs							Back
SIP Devices								Search
IP Settings								
Caller ID								
Speed Dial								
Blocked Codes								
DID								
Subscription								
Invoice								
Refill Report								
Charges History								
CDRs								
Emails								
Alert Threshold								

Date	Caller ID	Called Number	Destination	Duration	Debit(EUR)	Disposition	Call Type
2016-09-20 13:31:50				00:37	0.0000	NORMAL_CLEARING	DID
2016-09-20 13:09:29				00:09	0.0000	NORMAL_CLEARING	DID
2016-09-20 13:04:17	"975486506" <975486506>	975651838	975651838	00:45	0.0000	NORMAL_CLEARING	DID
2016-09-20 12:44:08	"975300145" <975300145>	975651838	975651838	00:11	0.0000	NORMAL_CLEARING	DID
2016-09-20 12:44:07				00:10	0.0023	NORMAL_CLEARING	STANDARD
2016-09-20 12:41:59				01:01	0.0000	NORMAL_CLEARING	DID
2016-09-20 12:41:58				01:00	0.0138	NORMAL_CLEARING	STANDARD
2016-09-20 12:39:19				00:40	0.0000	NORMAL_CLEARING	DID
2016-09-20 12:39:18				00:40	0.0092	NORMAL_CLEARING	STANDARD
2016-09-20 09:54:21				01:00	0.0000	NORMAL_CLEARING	DID

<< < Page 1 of 3 > >> 1 - 10 of 22 Records 10 1 - 10 of 22 Records

## Emails

Customer Profile	Customers / Profile / Emails					Back
SIP Devices						
IP Settings						
Caller ID						
Speed Dial						
Blocked Codes						
DID						
Subscription						
Invoice						
Refill Report						
Charges History						
CDRs						
Emails						
Alert Threshold						

Date	Subject	Body	Attachement	Status	Action
2016-08-30 07:17:50	DID 18111 unassigned from your account 9622806884	Hi new , A DID number 18111 has been unassigned from your account. For more info, Please visit on our website <a href="http://www.inextrix.com">http://www.inextrix.com</a> or contact to our support at <a href="mailto:samir.doshi@gmail.com">samir.doshi@gmail.com</a> Thanks, iNextrix Technologies. Pvt. Ltd.		Not Sent	  
2016-08-30 07:17:49	new , Your account added package	HI new You have successfully added new package. For more info, Please visit on our website <a href="http://www.inextrix.com">http://www.inextrix.com</a> or contact to our support at <a href="mailto:samir.doshi@gmail.com">samir.doshi@gmail.com</a> . Thanks, iNextrix Technologies. Pvt. Ltd.		Not Sent	  

< << < Page 1 of 1 > >> 1 - 6 of 6 Records 10 1 - 6 of 6 Records

## Alert Threshold

Customer Profile
SIP Devices
IP Settings
Caller ID
Speed Dial
Blocked Codes
DID
Subscription
Invoice
Refill Report
Charges History
CDRs
Emails
Alert Threshold

Customers / Profile / Alert Threshold
Back

Alert Threshold

Email Alerts ? Yes
Balance Below 0
Email sales@inextrix.com

Save

## 5.3.4 Email Mass

### Email Mass

Filter
Rate Group default
Account Type Prepaid
Status Active
Entity Type --Select--

Email Template
Email Template --Select--

Search
Reset

### Email Mass Field Description

Rate Group	Rate group is an essential field for billing. You can create rate group by navigating to Tariff -> Rate group.
Account	Type Select customer account type. Prepaid OR Postpaid.
Status	Account status.
Entity	Type Account entity type whether its customer or provider.
Email	Template Select appropriate template from drop-down.

## Compose Email

### Compose Email

From:

To:

Subject:

Message: 

11 12 13 14 15 16 B I S

Welcome #NAME#,  
Your account has been added in #COMPANY\_NAME#.  
Here is your account information,  
Account Number : #NUMBER#  
Password : #PASSWORD#  
For information please visit #COMPANY\_WEBSITE# or contact our support department at #COMPANY\_EMAIL#.  
Thanks,  
#COMPANY\_NAME#

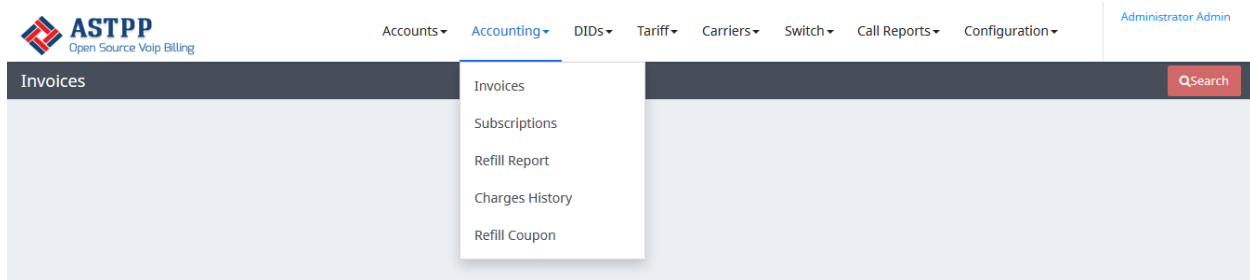
Attach files:  No file selected.

KEY	VALUE
#NAME#	This tag use to print Firstname + Lastname
#USERNAME#	This tag use to print user number
#PASSWORD#	This tag use to print password
#COMPANY_EMAIL#	This tag use to print company email id
#COMPANY_NAME#	This tag use to print company name
#BALANCE#	This tag use to print user balance
#COMPANY_WEBSITE#	This tag use to print company website link
#PIN#	This tag use to print user pin numbner

### Compose Mail Field Description

From	Specify sender's email address here.
To	Specify receiver's email address here.
Subject	Subject of email.
Message	Content of email.
Attach Files	You can attach maximum 4 files.

## 5.4 Accounting



### Related pages

#### 5.4.1 Invoices




This page will display list of Invoice & Receipt generated for customers and resellers.

Also admin & reseller can generate manual invoice for their customer.

You can download invoice in PDF format.

Invoices										Search
										Generate Invoice
Number	Type	Account	Generated Date	From Date	Due Date	Last Pay Date	Amount(USD)	Outstanding Amount(USD)	Action	
INV_00006	Manually	inex customer 9270441524	2016-09-20	2016-09-01	2016-09-27		0.0000	0.0000		
INV_00005	Manually	inex customer 9270441524	2016-09-19	2016-09-01	2016-09-26	2016-09-19	1.0000	0.0000	Paid	
INV_00001	Automatically	559103267	2016-08-22	2016-08-22			3.21543	0.00000		
INV_00002	Automatically	559103267	2016-08-22	2016-08-22			3.21543	0.00000		
INV_00007	Manually	559103267	2016-08-22	2016-08-22	2016-08-22		3.21543	3.21543		
<< < Page 1 of 1 > >> 1 - 5 of 5 Records 10 1 - 5 of 5 Records										





### Action Column In Grid

	Download	Use to download Details.
	Edit	Use to edit invoice information
	Delete	Delete invoice from list



## 5.4.2 Subscription

Subscription is kinda package that will be applicable to customer upon invoice generation OR assignment.

Example : If admin would like to charge customers \$100 for Equipment usage on monthly/Daily basis then they can create such type of subscription packages from this module and assign it to entire rate group to individual customers.

Subscriptions <span>QSearch</span>									
<div> <span>Create</span> <span>Delete</span> </div>									
<input type="checkbox"/>	Name	Rate Group	Amount(USD)	Prorate	Billing Cycle	Status	Created Date	Modified Date	Action
<input type="checkbox"/>	Demo 1	Test	1.0000	Yes	Monthly	<span>Active</span>	2016-08-05 19:18:13	2016-08-11 11:22:52	 
<input type="checkbox"/>	Demo 2	Test	1.0000	Yes	Daily	<span>Active</span>	2016-08-06 17:01:18	0000-00-00 00:00:00	 
<div> <span>&lt;&lt;</span> <span>&lt;</span> Page 1 of 1 <span>&gt;</span> <span>&gt;&gt;</span> <span>1 - 2 of 2 Records</span> <span>10</span> <span>1 - 2 of 2 Records</span> </div>									

### Top panel Grid Button

	To create new subscription
	To delete multiple subscriptions

### Create Subscription

Create new subscription package using below page,

**Create Subscription** ✕

**Information**

Name \*

Rate Group

--Select--

Amount

Prorate

Yes

Bill Cycle

Daily

Status

Active

Save

Close

#### Add/Edit subscription form fields description

Name	Subscription name
Rate Group	Select Rate group.Charges will be applicable to all customers who are using selected Rate Group
Amount	Subscription charge
Prorate	Enable it to apply prorated based charge to customer
Bill Cycle	Daily OR Monthly bill cycle to apply charge on customer
Status	Active OR Inactive subscription



[How to create subscription](#)

### 5.4.3 Refill Report

Report will display payment transaction information.

Refill Report					QSearch
<a href="#">Export</a>					
Date	Account	Amount(USD)	Refill By	Note	
2016-08-17 16:52:08	demo (customer)	0.00000	Admin	Recharge using Refill coupon Refill coupon No: 9979627	
2016-08-16 17:30:15	demo (reseller)	1.84423	Admin		
2016-08-16 17:28:08	demo (customer)	-1.00000	Admin		
2016-08-16 17:28:08	demo (customer)	-1.00000	Admin		
<< < Page 1 of 1 > >> 1 - 4 of 4 Records 10 1 - 4 of 4 Records					

## 5.4.4 Charges History

This report will display all the charges information which apply to specific account.

By this report admin know the complete system transaction same way reseller can show their sub entity transactions.

ASTPP

Open Source Voip Billing

Accounts

Accounting

DIDs

Tariff

Carriers

Switch

Call Reports

Configuration

Administrator Admin

Charges History

QSearch

Created Date	Invoice Number	Account	Charge Type	Before Balance (USD)	Debit (-) (USD)	Credit (+) (USD)	After Balance (USD)	Description	
2016-08-16 16:52:08	INV_00000	demo (customer)	Auto	86.00000	0.00000	0.00000	86.00000	test	
2016-08-16 16:52:08	INV_00000	demo (customer)	Auto	86.00000	0.00000	0.00000	86.00000	Recharge using Refill coupon Refill coupon No: 9979627	
2016-09-18 16:39:54	INV_00004	inex customer (9270441524)	manual_inv	87.00000	1.00000	0.00000	86.00000	test	
2016-08-16 17:28:07	INV_00000	demo (customer)	Auto	86.00000	0.00000	0.00000	86.00000	Recharge using Refill coupon Refill coupon No: 9979627	
2016-08-16 17:28:07	INV_00000	demo (customer)	Auto	86.00000	0.00000	0.00000	86.00000	Recharge using Refill coupon Refill coupon No: 9979627	
Total	-	-	-	-	1.00000	0.00000	-	-	

<<<

<

Page

1

of 1

>

>>>


1 - 5 of 5 Records

10

1 - 5 of 5 Records

Powered by ASTPP

Follow us on: [f](#) [in](#) [t](#) [p](#)


 Version 3.0 [Donate Us](#)  
[FEEDBACK](#)

## 5.4.5 Refill Coupon

Using refill coupon number user can refill their own account.

Only admin & reseller can create refill coupon.

Refill Coupon							
<div> <div>Create</div> <div>Export</div> </div>							
Coupon Number	Description	Account	Amount(USD)	Created Date	Used?	Used Date	Action
32076430	test	inex (customer)	1.0000	2016-07-30 12:14:02	✓	2016-09-13 10:46:12	
32076430	test	inex (customer)	1.0000	2016-07-30 12:14:02	✗	-	
32076430	test	inex (customer)	1.0000	2016-07-30 12:14:02	✗	-	
32076430	test	inex (customer)	1.0000	2016-07-30 12:14:02	✗	-	
32076430	test	inex (customer)	1.0000	2016-07-30 12:14:02	✗	-	
32076430	test	inex (customer)	1.0000	2016-07-30 12:14:02	✗	-	
<div> <div>1 - 6 of 6 Records</div> <div>10</div> <div>1 - 6 of 6 Records</div> </div>							

## 5.4.6 Payment Report

Report will display payment transaction information.

Date	Account	Amount	Payment By	Note
2016-07-30 12:14:02	inex (customer)	1.0000 USD	inex (customer)	Payment made
2016-07-30 12:14:02	inex (customer)	1.0000 USD	inex (customer)	Payment made
2016-07-30 12:14:02	inex (customer)	1.0000 USD	inex (customer)	Payment made
2016-07-30 12:14:02	inex (customer)	1.0000 USD	inex (customer)	Payment made
2016-07-30 12:14:02	inex (customer)	1.0000 USD	inex (customer)	Payment made
<div> <div>1 - 10 of 19 Records</div> </div>				

## 5.5 DIDs

Accounts -	Accounting -	DIDs	Tariff -	Carriers -	Switch -	Call Reports -	Configuration -	Report A Bug	Donate Us
DIDs									

### Manage DIDs (Direct Inward Dialing)

Manage your DIDs from this module. You can add number of DIDs, map it with accounts and route to appropriate destination. ASTPP gives you various options like LOCAL, PSTN and OTHER to route incoming calls.





Create DID

DID Information

DID \*

Country \*

Alaska

City

Province

Provider

A2Z Provider (9339923427)

DID Setting

Call Type

--Select--

Destination

Concurrent Calls

Status

Active

Billing Information

Account

--Select--

Connection Cost

Included Seconds

Per Minute Cost

Initial Increment

Increment

Setup Fee

Monthly Fee

Save

Close

## DIDs Add/Edit Field description

### DID Information

<b>DID Enter</b>	unique numeric DID number
<b>Country</b>	Select country of DID
<b>City</b>	DID City
<b>Province/State</b>	DID State
<b>Provider</b>	Select provider to whom this DID belongs to

### DID Billing

<b>Account</b>	Select account number you wish to assign DID
<b>Increments</b>	Rate of increment to calculate call cost. Example : 60 to charge every minute
<b>Cost</b>	Cost per minute
<b>Included Seconds</b>	Define seconds will be free from the call duration for each call
<b>Setup Fee</b>	One time Setup fee
<b>Monthly Fee</b>	Monthly recurring fee
<b>Connection Fee</b>	Connection fee to charge customer minimum when their call will be connected

## DID Setting

<b>Call Type</b>	LOCAL : Wish to route call to Local extension PSTN : Wish to route call to PSTN Number OTHER : If you wish to route call to custom destination
<b>Destination</b>	Set appropriate destination based on call Type. Example : LOCAL : 1001 (Local Extension number) PSTN : 1800214018 (PSTN number) OTHER : <code>sofia/default/1234567890@192.168.1.3</code> OR <code>sofia/gateway/gwname/121423232</code>
<b>Max Channels</b>	Maximum allowed concurrent channels for DID calls. 0=Unlimited



How to create DID

### 5.5.2 Import DIDs

**Note:** File must be in the following format(.csv): DID,Country,Account,Per Minute Cost(USD),Initial Increment,Increment,Setup Fee(USD), Monthly Fee(USD),Call Type,Destination,Status

535345345,India,2096034879,1,0,1,0,0,PSTN,1234567890,Active

65456456,Alaska,2096035512,0.5,0,1,0,1,DID-Local,1002,Active

DID Import Process

File must be in the following format(.csv):

DID,Country,Account,Per Minute Cost(USD),Initial Increment,Increment,Setup Fee(USD),Monthly Fee(USD),Call Type,Destination,Status

Import DIDs:

Provider:
--Select--

Select the file:
Select file

Check Header:
☐

Download sample file:
Click Here

Import
Cancel

Select provider, csv file of DID and click on Import button, It will display below sample output. You can confirm format if its system recognize your imported file correctly.If all looks good then click on process and system will import all your DIDs.

DID Import Process										
DID	Country	Account	Per Minute Cost(USD)	Initial Increment	Increment	Setup Fee(USD)	Monthly Fee(USD)	Call Type	Destination	Status
12345	Alaska	9270441524	0.5000	0	1	1.0000	0.0000	PSTN	1234567890	Active
121212	India	9270441524	0.2000	0	60	0.5000	1.0000	DID-Local	9270441478	Active
1234567890	Alaska	9270441478	0.3000	30	0	1.0000	0.0000	SIP-DID	9270441524	Active
									<a href="#">Process</a> <a href="#">Back</a>	

### 5.5.3 Export DIDs

Export your DIDs by clicking on Export button.

If you would like to export specific criteria DIDs then you can search those DIDs using search feature and then export.

Below is an example with search option,

DIDs
[QSearch](#)

#### Search

DID
Begins With

Country
--Select--

Account
inex customer |

Initial Increment
Is Equal To

Call Type
--Select--

Destination
Begins With

Status
--Select--

[Search](#)
[Clear](#)
[Close](#)

[Create](#)
[Delete](#)
[Import](#)
[Export](#)

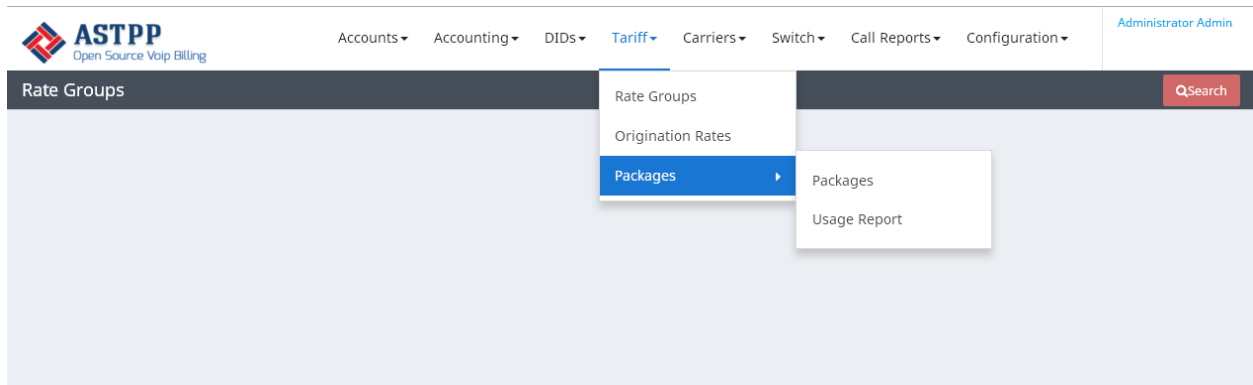
<input type="checkbox"/>	DID	Country	Account	Per Minute Cost(USD)	Initial Increment	Increment	Setup Fee(USD)	Monthly Fee(USD)	Call Type	Destination	Status	Modified Date	Is Purchased?	Action
<input type="checkbox"/>	111111	Alaska	inex customer (9270441524)	0.0000	0	0	0.0000	0.0000	PSTN		Active	0000-00-00 00:00:00	<a href="#">Release(C)</a>	<a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	12345	Alaska	inex customer (9270441524)	0.0000	0	0	0.0000	0.0000	DID-Local		Active	0000-00-00 00:00:00	<a href="#">Release(C)</a>	<a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	102	Alaska	inex customer (9270441524)	0.0000	0	0	0.0000	0.0000	DID-Local		Active	0000-00-00 00:00:00	<a href="#">Release(C)</a>	<a href="#">Edit</a> <a href="#">Delete</a>

Page 1 of 1
1 - 3 of 3 Records
10
1 - 3 of 3 Records

Exported .csv file,

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	DID	Country	Account	Per Minute Cost(USD)	Initial Increment	Increment	Setup Fee(USD)	Monthly Fee(USD)	Call Type	Destination	Status	Modified Date	Is Purchased
2	111111	Alaska	9270441524	0	0	0	0	0	PSTN		Active	0000-00-00 00:00:00	Purchase by Customer
3	12345	Alaska	9270441524	0	0	0	0	0	DID-Local		Active	0000-00-00 00:00:00	Purchase by Customer
4	102	Alaska	9270441524	0	0	0	0	0	DID-Local		Active	0000-00-00 00:00:00	Purchase by Customer

## 5.6 Tariff



### Related pages

### 5.6.1 Rate Group

Rate group is an important module of ASTPP. This belongs to customer and rating.

Rate Groups <span>Search</span>										
<span>Create</span> <span>Delete</span>										
<input type="checkbox"/>	Name	Routing Type	Initial Increment	Default Increment	Markup(%)	Rate Count	Status	Created Date	Modified Date	Action
<input type="checkbox"/>	default	LCR	0	60	0	1	Active	2016-07-25 00:00:00	2016-07-26 00:00:00	<a href="#">Edit</a> <a href="#">Delete</a>
<span>«</span> <span>&lt;</span> Page <span>1</span> of <span>1</span> <span>&gt;</span> <span>»</span> <span>1 - 1 of 1 Records</span> <span>10</span> <span>1 - 1 of 1 Records</span>										

## Create Rate Group

Create Rate Group

Rate Group Information

Name \*

Routing Type

LCR

Initial Increment \*

Default Increment \*

Markup(%) \*

0

Trunks

inex\_trunk

Status

Active

Save

Close

## Rate Group Add/Edit Field description

<b>Name</b>	Name of Rate Group
<b>Increment</b>	Rate of increment to calculate call cost. Example : 60 to charge every minute This increment will be useful when increment is not defined in origination rate.
<b>Markup (%)</b>	Additional charges will be applicable on call cost. Example : If 10% markup defined in rate group and customer made call of \$1 then system will charge customer 10% extra on \$1 and that will be \$1.1.
<b>Trunks</b>	Select the trunks for LCR and routing. If no trunks selected then customers who are having same rate group wouldn't be able to make outbound calls.
<b>Status</b>	Select status of rate group



How to create rate group

## 5.6.2 Origination Rates

Origination rates belongs to Rate group.

We can consider origination rates as customer rates / sell rates as these rates will be applicable on customers.

Origination Rates											Search	Batch Update
<div> <span>Create</span> <span>Delete</span> <span>Import</span> <span>Export</span> </div>												
<input type="checkbox"/>	Code	Destination	Connect Cost(USD)	Included Seconds	Per Minute Cost(USD)	Initial Increment	Increment	Rate Group	Status	Modified Date	Action	
<input type="checkbox"/>	1	USA	0.0000	0	1.0000	30	60	default	Active	2016-08-08 19:27:23	<a href="#">Edit</a>	<a href="#">Delete</a>
<input type="checkbox"/>	2		0.0000	0	0.0000	0	0	default	Active	0000-00-00 00:00:00	<a href="#">Edit</a>	<a href="#">Delete</a>
<input type="checkbox"/>	3		0.0000	0	0.0000	0	0	default	Active	0000-00-00 00:00:00	<a href="#">Edit</a>	<a href="#">Delete</a>
<input type="checkbox"/>	91		0.0000	0	0.5000	0	0	default	Active	0000-00-00 00:00:00	<a href="#">Edit</a>	<a href="#">Delete</a>
<div> <span>&lt;&lt;</span> <span>&lt;</span> Page 1 of 1 <span>&gt;</span> <span>&gt;&gt;</span> <span>Refresh</span> 1 - 4 of 4 Records 10 1 - 4 of 4 Records </div>												

Related pages

## Create Origination Rate

Create Origination Rate

Rate Information

Rate Group

default

Code \*

Destination

Status

Active

Billing Information

Connect Cost

Included Seconds

Per Minute Cost

Initial Increment

Increment

Force Trunk

--Select--

Save

Close

### Origination Rates Add Form Fields Description:

<b>Rate Group</b>	Select the rate group for origination rate
<b>Code</b>	Prefix of origination rate. Example: 91
<b>Destination</b>	Description for rate. Example : India
<b>Precedence</b>	Priority of rate
<b>Connect Cost</b>	Connection fee to charge customer minimum when their call will be connected
<b>Included Seconds</b>	Define seconds will be free from the call duration for each call
<b>Per Minute Cost</b>	Cost per minute
<b>Increment</b>	Rate of increment to calculate call cost Example : 60 to charge every minute
<b>Force Trunk</b>	To force call to route using specific trunk. Note : Leave it – Select – if you would like to do LCR among trunks which are selected in rate group



How to create origination rate

## Import Origination Rate



**Note:** File must be in the following format(.csv): Code, Destination, Connect Cost, Included Seconds, Per Minute Cost, Increment, Precedence.

1,USA,0.0000,0,1.0000,30,60

91,India,0.0000,0,0.5000,0,0

Import Origination Rates

File must be in the following format(.csv):

Code, Destination, Connect Cost, Included Seconds, Per Minute Cost, Initial Increment, Increment.

Import Origination Rates:

Rate Group: default

Force Trunk: --Select--

Select the file: Select file

Check Header: ☐

Download sample file: Click Here

Import Cancel

Select rate group, force trunk and csv file of origination rates and click on Import button, It will show below output to confirm if rates format are correct. Once you confirm then click on process and it will import those rates in system

Origination Rates Preview

Code	Destination	Connect cost	Included seconds	Per minute cost	Initial increment	Increment
1	USA	0.0000	0	1.0000	30	60
91	India	0.0000	0	0.5000	0	0

Process Back

## Export Origination Rate

Export your Origination rates by clicking on Export button. If you would like to export specific criteria rates then you can search those rates using search feature and then export.

Below is an example with search option,

Origination Rates
QSearch Batch Update

**Search**

Code

Begins With

Destination

Begins With

Connect Cost

Is Equal To

Included Seconds

Is Equal To

Per Minute Cost

Is Equal To

Initial Increment

Is Equal To

Increment

Is Equal To

Rate Group

default

Status

--Select--

Delete Search Record Search Clear Close

Create Delete Import Export

<input type="checkbox"/>	Code	Destination	Connect Cost(USD)	Included Seconds	Per Minute Cost(USD)	Initial Increment	Increment	Rate Group	Status	Modified Date	Action
<input type="checkbox"/>	1	USA	0.0000	0	1.0000	30	60	default	Active	2016-08-08 19:27:23	<a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	91	India	0.0000	0	0.5000	0	0	default	Active	2016-09-14 16:21:48	<a href="#">Edit</a> <a href="#">Delete</a>

Page 1 of 1
1 - 2 of 2 Records
10
1 - 2 of 2 Records

Exported .csv file,

	A	B	C	D	E	F	G	H	I	J
1	Code	Destination	Connect Cost(USD)	Included Seconds	Per Minute Cost(USD)	Initial Increment	Increment	Rate Group	Status	Created Date
2	1	USA	0	0	1	30	60	default	Active	2016-07-26 15:11:50
3	91	India	0	0	0.5	0	0	default	Active	2016-09-14 07:09:13

### 5.6.3 Packages

Package feature allows you to prepare various free packages for specific destinations and offer to your customers. Customers can take benefit of this and can make free calls to selected destinations.

Packages
QSearch

Create Delete

<input type="checkbox"/>	Name	Rate Group	Included Seconds	Applicable For?	Status	Created Date	Modified Date	Action
<input type="checkbox"/>	test	default	1000	Outbound	Active	2016-07-30 18:22:35	2016-08-11 11:26:03	<a href="#">Edit</a> <a href="#">Delete</a>

Page 1 of 1
1 - 1 of 1 Records
10
1 - 1 of 1 Records

Related pages

## Create Package

Create Package

Package Information

Name \*

Rate Group \*

default

Included Seconds \*

Applicable For?

Outbound

Status

Active

Save

Cancel

### Package Details Add/Edit Form Fields Description

<b>Name</b>	Package Name
<b>Rate Group</b>	Select rate group. The customers who are having that rate group will get benefit of this package.
<b>Included Seconds</b>	Defined free seconds of package

Package edit you will get two tabs

<b>Package Details</b>	Allow to change package details
<b>Package Patterns</b>	Form this tab you can select destinations



How to create package

## Package Codes

This tab is useful to add destination for package.

If you have entered 91 and 1 destination in package then customer who are getting benefit of this package will be able to make free calls to 91 and 1 destination.

Package Details

Package List / Details / Codes

Back

Package Codes

Add

Import

Delete

Search

	Code	Destination	Action
<input type="checkbox"/>	1	USA	
<input type="checkbox"/>	91	India	

1 - 2 of 2 Records

10


1 - 2 of 2 Records

## Usage Report

Package usage report is shows the usage of the customer for specific package.

Usage Report		
<div>Export</div>		
Package Name	Account	Used Seconds
new_pck	iNextrix Test (1893579064)	160
new_pck	2889696180 (2889696180)	160
new_pck	9678101688 (9678101688)	160
inex_pkg	iNextrix Test (1893579064)	60
inex_pkg	2889696180 (2889696180)	60
inex_pkg	inex reseller (6507428389)	8
<div> <div> <div>&lt;&lt;</div> <div>&lt;</div> <div>Page 1 of 1</div> <div>&gt;</div> <div>&gt;&gt;</div> </div> <div> <div>1 - 6 of 6 Records</div> <div>10</div> <div>1 - 6 of 6 Records</div> </div> </div>		

## 5.7 Carriers



Accounts ▾
Accounting ▾
DIDs ▾
Tariff ▾
Carriers ▾
Switch ▾
Call Reports ▾
Configuration ▾

Administrator Admin

Trunks

Trunks

Termination Rates

Search

### Related pages

### 5.7.1 Trunk

Trunk is key module for LCR routing and associated with termination rates and provider account.

Trunks

QSearch

Create

Delete

<input type="checkbox"/>	Name	Provider	Gateway Name	Failover GW Name #1	Failover GW Name #2	CC	Codecs	Rate Count	Status	Created Date	Modified Date	Action
<input type="checkbox"/>	inex_trunk	A2Z (Provider)	iNextrix			0		1	<div>Active</div>	2016-09-14 11:48:23	2016-09-14 17:42:19	<div><div></div><div></div></div>

<<

<

Page 1 of 1

>



>>

1 - 1 of 1 Records

10

1 - 1 of 1 Records

### Top panel button

 <b>Create</b>	To add new trunk
 <b>Delete</b>	To delete multiple trunks

## Create Trunk

Create Trunk

Information

Name \*  
Provider \* A2Z Provider (9339923427)  
Gateway Name \* iNextrix  
Failover GW Name #1 --Select--  
Failover GW Name #2 --Select--  
CC 0

Settings

Number Translation  
Codecs  
Priority  
Status Active

Save

Close

## Trunk Add/Edit Form Fields Description:

Trunk name	Trunk name
Provider	Select provider to whom this trunk belongs to
Gateway	Select gateway on which call will be terminated
Failover Gateway	Select failover gateway on which call will be terminated. If primary gateway failed in establishing call then system will try call using failover gateway.
Max Channels	Number of Maximum concurrent call for this trunk
Number	If you wish to translate number with some defined number for trunk then use this feature.
Translation	Ex: "011/2222" (You can define multiple translations like "011/2222","02/33") That means from called number 011 is replaced by 2222.
Codec	Enter codecs if you want call to use specific codecs only
Precedence	Priority of trunk


[How to create trunk](#)

## 5.7.2 Termination Rates

Termination rates belongs to Trunk. We can consider termination rates as carrier rates / buy rates as these rates will be applicable on providers.

Before dialing number to gateway, system will do LCR process in termination rates and find out best match and low cost prefix and dial out using that.

Termination Rates

SearchBatch Update

CreateDeleteImportExport

<input type="checkbox"/>	Code	Destination	Connect Cost(USD)	Included Seconds	Per Minute Cost(USD)	Initial Increment	Increment	Priority	Strip	Prepend	Trunk	Status	Modified Date	Action
<input type="checkbox"/>	1	1/SD	0.0000	0	0.0001	1	1	0			DID-OUT-MBY-TRUNK	Active	2016-08-16 20:34:06	<a href="#">✎</a> <a href="#">✖</a>
<input type="checkbox"/>	1	us	0.0000	1	2.0000	3	4	5	6	7	A2Z-CLT-Trunk	Active	2016-09-13 17:25:25	<a href="#">✎</a> <a href="#">✖</a>
<input type="checkbox"/>	1111	usflow	1.0000	1	1.0000	0	1	1		1	A2Z-CLT-Trunk	Active	2016-09-13 17:27:04	<a href="#">✎</a> <a href="#">✖</a>
<input type="checkbox"/>	14	us	0.0000	1	2.0000	3	4	5	6	7	A2Z-CLT-Trunk	Active	2016-09-13 17:29:04	<a href="#">✎</a> <a href="#">✖</a>

«

<

Page 1 of 1

>

»

🔄

1 - 4 of 4 Records

10

1 - 4 of 4 Records

### Related pages

## Create Termination Rate

Create Termination Rate

×

Rate Information

Trunk \* 
Code \* 
Destination 
Strip 
Prepend 
Status

Billing Information

Connect Cost 
Included Seconds 
Per Minute Cost 
Initial Increment 
Increment 
Priority

Save

Close

<b>Trunk</b>	Select trunk for termination rate
<b>Code</b>	Prefix of termination rate. Example: 91
<b>Destination</b>	Description for rate. Example : India
<b>Strip</b>	To remove any specific prefix from dialed number
<b>Prepend</b>	To append any specific prefix in dialed number
<b>Connect Cost</b>	Connection fee to charge customer minimum when their call will be connected
<b>Included Seconds</b>	Define seconds will be free from the call duration for each call
<b>Per Minute Cost</b>	Cost per minute
<b>Initial Increment</b>	Here specify cost which you have to take when call is initiate
<b>Increment</b>	Rate of increment to calculate call cost Example : 60 to charge every minute
<b>Precedence</b>	Priority of rate. If LCR found same prefix with same rate for different trunk then based on precedence/priority level trunk will be selected.



How to create termination rate

## Import Termination Rate

**Note: File must be in the following format(.csv):** Code,Destination,Connect Cost,Included Seconds,Per Minute Cost,Increment, Precedence,Strip,Prepend.

1,UNITED STATES,0,10,0.5,60,0,0,0

91,India,0.1,15,0.25,60,0,0,0

Import Termination Rates

File must be in the following format(.csv):

Code,Destination,Connect Cost,Included Seconds,Per Minute Cost,Initial Increment,Increment,Precedence,Strip,Prepend.

Import Termination Rates:

Trunk List: 

inex\_trunk

Select the file: 

Select file

Check Header: ☐

Download sample file: 

Click Here

Import

Cancel

Select trunk and csv file of termination rates and click on Import button, It will show below output to confirm if rates format are correct. Once you confirm then click on process and it will import those rates in system.

Termination Rates Preview

Code	Destination	Connect cost	Included seconds	Per minute cost	Initial increment	Increment	Precedence	Strip	Prepend
1	USA	0.0000	0	0.0001	1	1	0		
91	India	0.0000	0	0.2000	0	0	0		

Process

Back

## Export Termination Rate

Export your Termination rates by clicking on Export button. If you would like to export specific criteria rates then you can search those rates using search feature and then export.

Below is an example with search option,



**Termination Rates** Q Search Batch Update

**Search**

Code  Begins With  Destination  Begins With  Connect Cost  Is Equal To  Included Seconds  Is Equal To

Per Minute Cost  Is Equal To  Initial Increment  Is Equal To  Increment  Is Equal To  Priority  Begins With

Trunk  Status

Delete Search Record Search Clear Close

Create Delete Import Export

	Code	Destination	Connect Cost(USD)	Included Seconds	Per Minute Cost(USD)	Initial Increment	Increment	Priority	Strip	Prepend	Trunk	Status	Modified Date	Action
<input type="checkbox"/>	1	USD	0.0000	0	0.0001	1	1	0			inex_trunk	Active	2016-09-14 18:16:29	<a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	91	India	0.0000	0	0.2000	0	0	0			inex_trunk	Active	2016-09-14 18:20:11	<a href="#">Edit</a> <a href="#">Delete</a>

« < Page 1 of 1 > » 1 - 2 of 2 Records 10 1 - 2 of 2 Records

Exported .csv file,

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Code	Destination	Connect Cost(USD)	Included Seconds	Per Minute Cost(USD)	Initial Increment	Increment	Priority	Strip	Prepend	Trunk	Status	Created Date
2	1	USD	0	0	0.0001	1	1	0			inex_trunk	Active	2016-08-01 11:09:32
3	91	India	0	0	0.2	0	0	0			inex_trunk	Active	2016-09-14 07:08:59

## 5.8 Switch

**ASTPP** Open Source Voip Billing

Accounts ▾ Accounting ▾ DID's ▾ Tariff ▾ Carriers ▾ **Switch ▾** Call Reports ▾ Configuration ▾ Administrator Admin

- SIP Devices
- Gateways
- SIP Profiles
- Freeswitch Server
- IP Settings
- Caller ID

Related pages

### 5.8.1 Sip Devices

To navigate this Menu System Switch -> SIP Devices

SIP Devices

QSearch

Create

Delete

<input type="checkbox"/>	User Name	Password	SIP Profile	Account	Caller Name	Caller Number	Voicemail	Status	Created Date	Modified Date	Action
<input type="checkbox"/>	2513796766	eac7db	default	inex customer (9270441524)	9270441524	9270441524	<div>✓</div>	<div>Active</div>	2016-09-07 11:14:13	0000-00-00 00:00:00	<div><div></div><div></div></div>
<input type="checkbox"/>	9270441524	9270441524	default	inex customer (9270441524)			<div>✓</div>	<div>Active</div>	2016-09-14 12:53:28	0000-00-00 00:00:00	<div><div></div><div></div></div>

<<

<

Page

1

of 1

>

>>

C

1 - 2 of 2 Records

10

1 - 2 of 2 Records

From here user can create sip devices for the customer to make call. To Create sip devices click on Add SIP Devices and you will get popup form to create device. Assign this device to appropriate customer and suitable sip profile.

## Create SIP Device

Create SIP Device

Device Information

Username \*

9885480764

Password \*

c44eed

Caller Name

Caller Number

Account \*

Anindita Dass (4671918916)

Status

Active

SIP Profile \*

default

Voicemail Options

Enable

True

Password

Mail To

Attach File

True

Local After Email

True

Send All Message

True

Save

Close

## Device Information

Username	Here specify the name of user
Password	It is use to set password of user
Caller Name	Write caller name here
Caller Number	Write called number here
Account	Select account of user
Status	Device status should be active/inactive
Sip Profile	Select sip profile

## Voicemail Options

Enable	From here set status of voice mail
Password	Set your voice mail password here
Mail To	Define your email address
Attach File	If it set yes then you will get file in attachment otherwise not
Local After Email	Write called number here
Send All Message	If it set true then user will get all message



How to create SIP device

## 5.8.2 Gateways

Gateways QSearch

Create Delete

<input type="checkbox"/>	Name	SIP Profile	Username	Proxy	Register	Caller-Id-In-Form	Status	Created Date	Modified Date	Action
<input type="checkbox"/>	iNextrix	default			False	True	Active	2016-08-16 15:45:25	2016-08-16 18:27:38	<a href="#">Edit</a> <a href="#">Delete</a>

<< < Page 1 of 1 > >>
1 - 1 of 1 Records
10
1 - 1 of 1 Records

## Create Gateway

Create Gateway

Basic Information

Name \*

SIP Profile

Username

Password

Proxy \*

Outbound-Proxy

Register

Caller-id-in-from

Status

Optional Information

From-Domain

From User

Realm

Extension

Expire Seconds

Reg-Transport

Contact Params

Ping

Retry-Seconds

Register-Proxy

Channel

Dialplan Variable

Save

Close

### Gateways Add/Edit Form Fields Description:

#### Basic Information

<b>Name</b>	Username of gateway
<b>SIP Profile</b>	Select appropriate sip profile
<b>Username</b>	Same as gateway name
<b>Password</b>	Password for authentication
<b>Proxy</b>	Here specify the ip of proxy server
<b>Outbound-Proxy</b>	Here specify the ip of outbound-proxy
<b>Register</b>	True / False
<b>Caller-Id-In-From</b>	True / False
<b>Status</b>	Active / Inactive

### Optional Information

<b>From-Domain</b>	Domain url
<b>From User</b>	From user : <i>optional</i> same as username
<b>Realm</b>	
<b>Extension</b>	Extensions to be registered with your voip provider
<b>Expire Seconds</b>	Expire in seconds
<b>Reg-Transport</b>	Which transport to use for register
<b>Contact Params</b>	
<b>Ping</b>	Send an options ping every x seconds, failure will unregister and/or mark it down
<b>Retry-Seconds</b>	How many seconds before a retry when a failure or timeout occurs
<b>Register-Proxy</b>	Send register to this proxy: <i>optional</i> same as proxy
<b>Channel</b>	
<b>Dialplan Variable</b>	



How to create gateway

## 5.8.3 SIP Profiles

SIP Profile

QSearch

Create

Delete

<input type="checkbox"/>	Name	SIP IP	SIP Port	Status	Profile Action	Action
<input type="checkbox"/>	default	\$\$local_ip_v4	5060	Active	Start   Stop   Reload   Rescan	

<<

<

Page 1 of 1

>

>>

1 - 1 of 1 Records

10

1 - 1 of 1 Records

## Create SIP Profile

Create SIP Profile

Name \*

SIP IP \*

SIP Port \*

Status Active

Save

Cancel

### Sip Profile List Add/Edit Form Fields Description:

<b>SIP Profile name</b>	Name of sip profile
<b>sip-ip</b>	IP address to bind to for SIP traffic. DO NOT USE HOSTNAMES, ONLY IP ADDRESSES
<b>sip-port</b>	Port to bind to for SIP traffic
<b>Status</b>	Active / Inactive



How to create SIP profile

## 5.8.4 Freeswitch Server

Freeswitch Server is use to store freeswitch server details with host and location

Freeswitch Servers

QSearch

Create

Host	Password	Port	Status	Created Date	Modified Date	Action
127.0.0.1		8021	Active	2016-07-26 20:55:07	2016-09-14 12:52:09	

1 - 1 of 1 Records

10

1 - 1 of 1 Records

Once is there any changes are done in Gateways or sip profiles at that time its need to reload Freeswitch servers that time this information are useful to reload freeswitch.

## Create Freeswitch Server

Create Freeswich Server

Freeswitch Server Information

Host \*

Password

Port \*

Save

Close

## Freeswitch Server Add/Edit Field description

<b>Host</b>	Set the default domain to the host
<b>Password</b>	Password of freeswitch server
<b>Port</b>	Port of freeswitch



How to create freeswitch server

## 5.8.5 IP map(ACL)

IP Map(ACL)								Search
Add		Delete						
<input type="checkbox"/>	Account	Name	IP	Prefix	Status	Created Date	Modified Date	Action
<input type="checkbox"/>	inex	test			Active	2016-08-01 14:26:38	0000-00-00 00:00:00	<a href="#">Edit</a> <a href="#">Delete</a>
<input type="checkbox"/>	test	demo			Active	2016-08-09 21:29:22	0000-00-00 00:00:00	<a href="#">Edit</a> <a href="#">Delete</a>
<< < Page 1 of 1 > >> 1 - 2 of 2 Records 10 1 - 2 of 2 Records								

## Create IP map(ACL)

Add IP Map

**IP Map**

Account

AZZ Provider (9339923427)

Name \*

IP \*

Prefix

Status

Active

Save

Close

## IP Map Field Description

<b>Account</b>	Select account number you wish to assign IP based authentication.
<b>Name</b>	Give name of IP map.
<b>IP</b>	Enter IP address.
<b>Prefix</b>	Enter prefix value.

## 5.8.6 Caller ID List

Caller ID							Search
<div> Add Delete </div>							
<input type="checkbox"/>	Account	Caller ID	Status	Created Date	Modified Date	Action	
<input type="checkbox"/>	inex customer (9245677744)	9245971241	Active	2016-09-15 17:38:06	2016-09-15 17:38:11	<a href="#">Edit</a> <a href="#">Delete</a>	
Page 1 of 1 1 - 1 of 1 Records 10 1 - 1 of 1 Records							



## Create Caller ID

Add Caller ID

Caller ID

Account
AZZ Provider (9339923427)

Caller ID \*

Status
Active

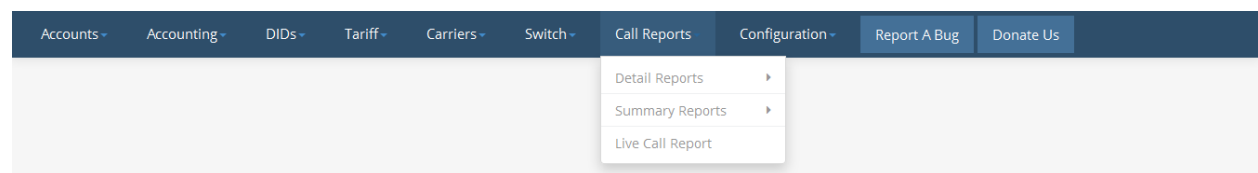
Save

Close

## Caller ID Field Description

<b>Account</b>	Select account number you wish to assign caller ID
<b>Caller ID</b>	Enter ID of caller.

## 5.9 Call Reports



## Related pages

### 5.9.1 Detail Reports

## Related pages

## Customer

You can find CDRs entry under reports menu. CDRs for different accounts

Search

From Date

2015-02-01 00:00:01

To Date

2015-02-11 23:59:59

CallerID

contains

Called Number

contains

Code

contains

Destination

contains

Duration

is equal to

Debit

is equal to

Cost

is equal to

Disposition

--Select Disposition--

Account

--Select--

Trunk

--Select--

Rate Group

--Select--

Call Type

--Select Type--

Search

Clear

Export


Date	CallerID	Called Number	Code	Destination	Duration	Debit	Cost	Disposition	Account	Trunk	Rate Group	Call Type
2015-02-11 00:00:01	2015-02-11	2015-02-11	100	Testing	1:00	1:000 USD	1:000 USD	Testing, Local	2015-02-11	Testing	Testing	Testing
2015-02-11 00:00:01	2015-02-11	2015-02-11	100	Testing	1:00	1:000 USD	1:000 USD	Testing, Local	2015-02-11	Testing	Testing	Testing
2015-02-11 00:00:01	2015-02-11	2015-02-11	100	Testing	1:00	1:000 USD	1:000 USD	Testing, Local	2015-02-11	Testing	Testing	Testing

Page 1 of 130100







10

1 - 10 of 1301000 Records


## Reseller

 Export






Date	CallerID	Called Number	Code	Destination	Duration	Debit	Cost	Disposition	Account	Rate Group	Call Type
2019-03-02 10:00:00	770-666-1111 770-666-1111	770-666-1111	01	770-666-1111	01	\$1.000 USD	\$1.000 USD	ANSWERED ANSWERED ANSWERED	770-666-1111 770-666-1111 770-666-1111	Domestic	770-666-1111
2019-03-02 10:01:00	770-666-1111 770-666-1111	770-666-1111	01	770-666-1111	01	\$1.000 USD	\$1.000 USD	ANSWERED ANSWERED ANSWERED	770-666-1111 770-666-1111 770-666-1111	Domestic	770-666-1111
2019-03-02 10:02:00	770-666-1111 770-666-1111	770-666-1111	01	770-666-1111	01	\$1.000 USD	\$1.000 USD	ANSWERED ANSWERED ANSWERED	770-666-1111 770-666-1111 770-666-1111	Domestic	770-666-1111




 Page  of 5
 

 10
 
 1 - 10 of 46 Records

## Provider

 Export

Date	CallerID	Called Number	Code	Destination	Duration	Cost	Disposition	Account
2015-01-01 00:00:01	12345678	9876543210	123	India	120	1.20000000	ANSWERED	12345678901234567890
2015-01-01 00:00:01	12345678	9876543210	123	India	120	1.20000000	ANSWERED	12345678901234567890
2015-01-01 00:00:01	12345678	9876543210	123	India	120	1.20000000	ANSWERED	12345678901234567890




Page  of 130118
 


1 - 10 of 1301171 Records

## 5.9.2 Summary Reports

### Related pages

### Customer Summary

Search

From Date

2015-01-01 00:00:01

To Date

2015-01-24 01:00:59

Account

--Select--

Code

contains






Destination

contains

Search

Clear

User	Code	Destination	Attempted Calls	Completed Calls	ASR	ACD	MCD	Billable	debit	cost	Profit
12345678901234567890	12345678	9876543210	12	12	100	100	100	100	1.20000000	1.20000000	1.20000000




Page  of 1
 


1 - 1 of 1 Records

## Reseller Summary

Search

From Date  
2015-01-01 00:00:01

To Date  
2015-01-23 23:59:59

Account  
--Select--

Code

contains

Destination

contains

Search

Clear

User	Code	Destination	Attempted Calls	Completed Calls	ASR	ACD	MCD	Billable	Price	Cost	Profit

Page 1 of 1

10

1 - 3 of 3 Records

## Provider Summary

Search

From Date  
2015-02-01 01:00:01

To Date  
2015-02-02 23:59:59

Account  
--Select--

Code

contains

Destination

contains

Search

Clear

Provider	Code	Destination	Attempted Calls	Completed Calls	ASR	ACD	MCD	Billable	Cost

Page 1 of 1

10

1 - 1 of 1 Records

## Trunk Stats

Trunk Name	Attempted Calls	Completed Calls	ASR	ACD	MCD

Page 1 of 1

10

Displaying 1 to 2 of 2 Records

### 5.9.3 Live Call Reports

Call Date	CID Name	CID Number	IP Address	Destination	Bridge	Read codec	Write codec	Call State	Duration
Page <input type="text" value="1"/> of 1   500 No Records									

### 5.9.4 Email History List

Email History List

Q

Search

Date	From	To	Body	Attachement	Status	Action
2015-08-22 07:02:52	admin@astpp.org	support@nextrix.com	Welcome test , Your account has been added in Your Company. Here is your account information, Account Number : #NUMBER# Password : fc8f32 For information please visit www.astpp.org or contact our support department at admin@astpp.org. Thanks, Your Company		Sent	<div><div><div></div></div><div><div></div></div><div><div></div></div></div>
2015-08-22 07:02:50	admin@astpp.org	support@nextrix.com	Welcome gdg , Your account has been added in Your Company. Here is your account information, Account Number : #NUMBER# Password : 2243f1 For information please visit www.astpp.org or contact our support department at admin@astpp.org. Thanks, Your Company		Sent	<div><div><div></div></div><div><div></div></div><div><div></div></div></div>
2015-08-22 07:02:50	admin@astpp.org	sales@nextrix.com	Welcome Erik Reseller, Your account has been added in Your Company. Here is your account information, Account Number : #NUMBER# Password : reseller For information please visit www.astpp.org or contact our support department at admin@astpp.org. Thanks, Your Company		Sent	<div><div><div></div></div><div><div></div></div><div><div></div></div></div>
2015-08-22 07:02:50	admin@astpp.org	support@nextrix.com	Welcome customer , Your account has been added in Your Company. Here is your account information, Account Number : #NUMBER# Password : customer For information please visit www.astpp.org or contact our support department at admin@astpp.org. Thanks, Your Company		Sent	<div><div><div></div></div><div><div></div></div><div><div></div></div></div>
2015-08-22 07:02:49	admin@astpp.org	sales@nextrix.com	Welcome provider , Your account has been added in Your Company. Here is your account information, Account Number : #NUMBER# Password : 7335503421 For information please visit www.astpp.org or contact our support department at admin@astpp.org. Thanks, Your Company		Sent	<div><div><div></div></div><div><div></div></div><div><div></div></div></div>
<div><div><div></div></div><div><div></div></div><div><div></div></div></div> <div><div>Page</div><div>1</div><div>of 1</div><div><div></div><div></div></div><div>10</div><div><div></div></div><div>1 - 5 of 5 Records</div></div>						

## 5.10 Configuration

**ASTPP**  
Open Source Voip Billing

Accounts ▾ Accounting ▾ DIDs ▾ Tariff ▾ Carriers ▾ Switch ▾ Call Reports ▾ Configuration ▾

Administrator Admin

Company Profile

Company Profile  
Taxes  
Email Templates  
Countries  
Currencies  
Database Restore  
Setting

#### Related pages

#### 5.10.1 Invoice Configuration

Whatever information you configure in invoice configuration that will be shown in generated invoice.

Basic information should be filled in this for like company name, address , website and contact information.

To configure this go to **Configuration -> Invoice Configuration**.

### Company Profile

#### Configuration

Company Name

iNextrix Technologies Pvt. Ltd.

Address

509,Lilamani Corporate,Ashram Ro

City

Ahmedabad

Province

Gujarat

Country

India

Zipcode

380014

Telephone

+91-989-834-7245

Fax

+1-855-580-1802

Email Address

sales@inextrix.com

Website

www.inextrix.com

#### Invoice Configuration

Invoice Notification

Yes

Invoice Due Notification

Yes

Invoice Date Interval

7

Notify Before Days

1

Invoice Prefix

INV\_

Invoice Start Form

1

Invoice Taxes Number

ABC 435 1XX 8XX 3XX

#### Company Personalization

Website Domain

www.inextrix.com

Website Header

iNextrix Technologies Pvt. Ltd.

Website Footer

iNextrix Technologies Pvt. Ltd.

Company Logo

Select File

Save



How to do invoice configuration

## 5.10.2 Taxes

Taxes are meant to be charge some amount on invoices. After creating taxes you can assign it to any of customer by clicking on Add Taxes button from customer list.

Taxes							Search
<div> <div>Create</div> <div>Delete</div> </div>							
<input type="checkbox"/>	Name	Priority	Amount(USD)	Rate(%)	Status	Action	
<input type="checkbox"/>	demo	1	10.0000	5.00000	Active	<div> <div></div> <div></div> </div>	
<div> <div> <div>&lt;&lt;</div> <div>&lt;</div> <div>Page 1 of 1</div> <div>&gt;</div> <div>&gt;&gt;</div> </div> <div> <div>1 - 1 of 1 Records</div> <div>10</div> <div>1 - 1 of 1 Records</div> </div> </div>							

Taxes can assign to customer as well as resellers. You can specify tax in percentage (%) as well as specific amount to be charge on invoice.

To create Taxes go to Accounting menu in ASTPP portal. From popup select Taxes it will show you the list of the taxes. You can create new taxes by clicking on Create button.

## Create Tax

Create Tax

Tax Information

Name

Priority \*

Amount \*

Rate(%)

Status

Active

Save

Close











## Add/Edit Taxes Form Fields Description

<b>Priority</b>	Priority is the sequence to apply taxes on invoice-able amount.
<b>Amount</b>	If there are tax amount is fixed for any usage then we can specified tax amount in this field.
<b>Rate(%)</b>	If Taxes amount is based on % and it should be calculated based on usage then we can specify rate on taxes in (%) in this field.
<b>Descrip-tion</b>	Taxes Description for reference.


[How to create tax](#)

## 5.10.3 Email Templates

To navigate this Menu System **Configuration -> Email Template.**

Email Templates			Search
Name	Subject	Action	
voip_account_refilled	Account credited Successfully		
email_add_user	Welcome to ASTPP		
add_sip_device	Sip device added succesfully		
email_add_did	DID #DIDNUMBER# assigned to your account #NUMBER#		
email_remove_did	DID #DIDNUMBER# unassigned from your account #NUMBER#		
email_new_invoice	Invoice created #INVOICE_NUMBER#		
email_low_balance	Low Balance notification #NUMBER#		
email_signup_confirmation	Confirmation to activate account		
email_forgot_user	Your account password changed		
email_forgot_confirmation	Reset your password		

<< < Page 1 of 2 > >> 1 - 10 of 15 Records 10 1 - 10 of 15 Records

This menu contains email body for system generated emails.

There are many email template so user can modify that template accordingly their needs.

## Edit Email Template

Edit Email Template

Email Template

Name \*

voip\_account\_refilled

Subject \*

Account credited Successfully

Body

File Edit Insert View Format Table Tools

Undo

Redo

Formats

B

I

Text Color

Background Color

Link

Image

Hi #NAME#,

Your account has been succesfully credited with #REFILLBALANCE#. Your account available balance is #BALANCE#.

For more info, Please visit on our website #COMPANY\_WEBSITE# or contact to our support department at #COMPANY\_EMAIL#.

Thanks,

#COMPANY\_NAME#

P

Words: 35

Save

Cancel

## Email Add / Edit Field description

84

Chapter 5. Modules



<b>Template Name</b>	Here specify the name of template
<b>Subject</b>	Email subject
<b>Body</b>	Email content

### 5.10.4 Countries

Countries

Search

CreateDelete

<input type="checkbox"/>	Name	Action	
<input type="checkbox"/>	Alaska	<div><div></div><div></div></div>	
<input type="checkbox"/>	Albania	<div><div></div><div></div></div>	
<input type="checkbox"/>	Algeria	<div><div></div><div></div></div>	
<input type="checkbox"/>	American Samoa	<div><div></div><div></div></div>	
<input type="checkbox"/>	Andorra	<div><div></div><div></div></div>	
<input type="checkbox"/>	Angola	<div><div></div><div></div></div>	
<input type="checkbox"/>	Antarctica	<div><div></div><div></div></div>	
<input type="checkbox"/>	Argentina	<div><div></div><div></div></div>	
<input type="checkbox"/>	Armenia	<div><div></div><div></div></div>	
<input type="checkbox"/>	Aruba	<div><div></div><div></div></div>	

«

<

Page 1 of 22

>

»

1 - 10 of 214 Records

10

1 - 10 of 214 Records

### Create Country

Add Country

Country Information

Name \*

Save

Close





















### Countries Add/Edit Field description

<b>Name</b>	Here write down the name of country
-------------	-------------------------------------



How to create country

## 5.10.5 Currencies

Currencies					QSearch
<div> <span>Create</span> <span>Update Currencies</span> <span>Delete</span> </div>					
<input type="checkbox"/>	Name	Code	Rate	Action	
<input type="checkbox"/>	Albanian Lek	ALL	122.780	 	
<input type="checkbox"/>	Algerian Dinar	DZD	109.395	 	
<input type="checkbox"/>	Aluminium Ounces	XAL	0.001	 	
<input type="checkbox"/>	Argentine Peso	ARS	14.919	 	
<input type="checkbox"/>	Aruba Florin	AWG	1.790	 	
<input type="checkbox"/>	Australian Dollar	AUD	1.309	 	
<input type="checkbox"/>	Bahamian Dollar	BSD	1.000	 	
<input type="checkbox"/>	Bahraini Dinar	BHD	0.377	 	
<input type="checkbox"/>	Bangladesh Taka	BDT	78.170	 	
<input type="checkbox"/>	Barbados Dollar	BBD	2.000	 	
<div> <span>&lt;&lt;</span> <span>&lt;</span> Page 1 of 15 <span>&gt;</span> <span>&gt;&gt;</span> <span>1 - 10 of 149 Records</span> <span>10</span> <span>1 - 10 of 149 Records</span> </div>					

## Create Currency

Add Currency

Currency List

Name \*

Code \*

Rate \*

Save

Close

## Currencies Add/Edit Field description

<b>Name</b>	Name of currency
<b>Code</b>	Code of currency
<b>Rate</b>	Rate of currency



How to create currency

## 5.10.6 Database Restore

Database Restore

Create Import Delete

<input type="checkbox"/>	Date	Name	File Name	Action
<input type="checkbox"/>	2016-07-26 13:31:31	Backup-26-07-2016	astpp_20160726130719.sql.gz	<div></div> <div></div> <div></div>

<<

<

Page 1 of 1

>




>>

1 - 1 of 1 Records


10

1 - 1 of 1 Records

## Action Column In Grid:

	Restore database
	Download database
	Delete database

### Create Database Backup

**Database Backup** 

**Database Information**

Name \*

File Name \*

astpp\_testing\_20160919070954.sql.gz

Save

Close

---

### Backup Database Add Field description

<b>Name</b>	Here specify the name of database
<b>File Name</b>	Here describe file name of database and path of database



How to take database backup

## Import Database

Import Database

X

Database Information

Name \*:

Select File:

Select File

(Allowed file format is : .csv, .tar.gz, .sql)

Upload

### Import Database Field description

<b>Name</b>	Here specify the name of database.
<b>Select File</b>	Select your database file from your system.

## 5.10.7 Settings

### Global-Settings

Global

Global

Global

Email

Callingcard

Opensips

Paypal

Signup

Global

Company Website \*

http://www.inextrix.com

Company Name \*

INextrix Technologies, Pvt. Ltd.

Call Debug \*

Enable

Decimal Points \*

4

Max Free Length \*

100

Call Max Length \*

1440000

Base Currency \*

U.S. Dollar

Default Timezone \*

(GMT+05:30) Chennai, Kolk

Default Country \*

Albanian Lek

Version \*

3.0

DID Global Translation \*

Playback Audio Notification \*

Disable

Outbound Fax \*

Enable

Inbound Fax \*

Enable

Refill Coupon Length \*

6

Minimum Fund Transfer \*

0

Balance Announcement \*

Disable

Minutes Announcement \*

Disable

Save

## Global - Settings Field Description

<b>Company Website</b>	Company Website
<b>Company Name</b>	The name of your company. Used in emails.
<b>Call Debug</b>	Enable debugging output? 0=no 1=yes.
<b>Decimal Points</b>	How many decimal points do we bill to?
<b>Max Free Length</b>	What is the maximum length (in minutes) of calls that are at no charge?
<b>Call Max Length</b>	What is the maximum length (in ms) of a LCR call?
<b>Base Currency</b>	Base Currency of System.
<b>Default Timezone</b>	System timezone.
<b>Default Country</b>	Default country.
<b>Version</b>	ASTPP Version.
<b>Did Global Translation</b>	Global number translation for DID.
<b>Playback Audio Notification</b>	Global audio notification.
<b>Outbound Fax</b>	Set enable to allow outbound fax in call.
<b>Inbound Fax</b>	Set enable to allow inbound fax in call.
<b>Refill Coupon Length</b>	Set refill coupon generation length.
<b>Minimum Fund Transfer</b>	Set minimum amount for fund transfer.
<b>Balance Announcement</b>	To enable balance playback in call.
<b>Minutes Announcement</b>	To enable minute playback in call.
<b>Voicemail Number</b>	Voicemail listen number.

## Email-Settings

## Email - Settings Field Description

<b>Email</b>	Send out email? 0=no 1=yes.
<b>SMTP</b>	Send out email using SMTP? 0=no 1=yes.
<b>SMTP host</b>	Host name for SMTP connection.
<b>SMTP port</b>	Port name for SMTP connection.
<b>SMTP user</b>	User name for SMTP connection.
<b>SMTP pass</b>	Password name for SMTP connection.

## Calling Cards

### Callingcard - Settings Field Description

<b>Starting Digit</b>	The digit that all calling cards must start with. 0=disabled.
<b>Card Length</b>	Number of digits in calling cards and cc codes.
<b>Pin Length</b>	For those calling cards that are using pins this is the number of digits it will have.
<b>Card Retries</b>	How many retries do we allow for calling card numbers?
<b>Pin Retries</b>	How many retries do we allow for pins?
<b>Rate Announce</b>	Do we want the calling cards script to announce the rate on calls?
<b>Time Limit Announce</b>	Do we want the calling cards script to announce the time-limit on calls?
<b>Pin Input Timeout</b>	How long do we wait when entering the calling card pin? Specified in MS.
<b>Card Input Timeout</b>	How long do we wait when entering the calling card number? Specified in MS.
<b>Dial Input Timeout</b>	How long do we wait when entering the destination number in calling cards? Specified in MS.
<b>General Input Timeout</b>	How long do we wait for input in general menus? Specified in MS.
<b>Welcome File</b>	What do we play for a welcome file?
<b>ANI Authentication</b>	Calling card ANI authentication. 0 for disable and 1 for enable.
<b>IVR count</b>	IVR playback loop count.
<b>Balance Announce-ment</b>	Do we want the calling cards script to announce the balance of account?
<b>CC Access Numbers</b>	Add calling card access numbers with comma separation. Ex : 12345678,3581629

## Opensips-Settings

### Opensips - Settings Field Description

<b>Opensips dbengine</b>	For now this must be MySQL.
<b>Opensips</b>	Use Opensips? 1 for Enable or 0 for Disable.
<b>Opensips dbname</b>	Opensips Database Name.
<b>Opensips dbuser</b>	Opensips Database User.
<b>Opensips dbhost</b>	Opensips Database Host.
<b>Opensips dbpass</b>	Opensips Database Password.
<b>Opensips domain</b>	Opensips Domain.

## Paypal-Settings

### Paypal - Settings Field Description

<b>Paypal status</b>	0=enable paypal module 1=disable paypal module.
<b>Paypal url</b>	Paypal live url.
<b>Paypal sandbox url</b>	Paypal Sandbox url for testing.
<b>Paypal id</b>	Paypal Live account id.
<b>Paypal sandbox id</b>	Paypal sandbox accountid for testing.
<b>Paypal mode</b>	0=paypal Live mode 1= paypal Sandbox mode.
<b>Paypal fee</b>	0=paypal mc fee paid by admin 1= paypal mc fee paid by customer.
<b>Paypal tax</b>	Paypal tax rate (in percentage) apply to recharge amount.



## Signup-Settings

### Signup- Settings Field Description

<b>Default Rategroup</b>	Set default rategroup for new signup account.
<b>Enable Signup From</b>	here we can set enable/disable signup process.
<b>Create SIP Device</b>	If you select Enable then it create automatic sip device for new account.
<b>Default Balance</b>	From here we can set default balance.

## 5.11 Forgot Password


From here you can reset your password.

You can enter your register email address or account number after that you will get email to reset your password.


## 5.12 Signup Now!

From this page you can signup as customer into astpp.

By fill-up all complete detail you will get success message and activation mail in your email account.

**ASTPP**  
Open Source Voip Billing

Login

First Name *	<input type="text"/>	Last Name	<input type="text"/>
Company	<input type="text"/>	Telephone	<input type="text"/>
Email *	<input type="text"/>	Country	India <input type="button" value="v"/>
Timezone	(GMT+05:30) Chennai, Kolkata, M... <input type="button" value="v"/>	Currency	U.S. Dollar <input type="button" value="v"/>
Address	<input type="text"/>		
	Captcha *		
		<input type="text" value="Enter above text"/>	

Signup

Reset

### Related Page

## 6.1 Questions

### Two Types Of Questions:

- 1.General Questions
- 2.Technical Questions

### General Questions

1. **Is this solution completely open source?** Yeah.
2. **What kind of license does it have?** GNU AGPL3 More info : <https://www.gnu.org/licenses/agpl-3.0.en.html>
3. **Is there any limitation of using ASTPP?** Nope. There is no limitation of using ASTPP. You can use it anywhere.
4. **Where ASTPP can be used?** It can be used in small scale as well as large scale carrier setup.
5. **What do i need to setup ASTPP on my system?** You just need to have system with above defined OS and then you will be able to setup ASTPP on that.
6. **Which OS are preferable for ASTPP?** It is strongly recommended that ASTPP be deployed on the Linux distribution CentOS version 7.x or Debian version 8.x
7. **What is the minimum hardware requirement?** CentOS 7.X OR Debian 8.x, 4GB RAM (8 or 16gb is highly recommended for better performance), 40gb Hard Drive, We recommend to use high configuration hardware to get better performance.
8. **Does ASTPP work on Virtual servers?** Yeah, It can work on Virtual servers.
9. **How many concurrent calls ASTPP can handle?** That is purely depends on hardware which you will use. More Hardware resource can give more concurrent calls.

10. **How can I contribute code or donate money to support project?** You can simply send your code to us for review and we will include it in open source version. You can donate us at paypal account [billing@inextrix.com](mailto:billing@inextrix.com)
11. **Do you offer support?** Yeah we do offer installation, configuration, on demand support, recurring support & custom development. You can check our pricing from <http://astpp.inextrix.com/cart.php>. For custom development, you can drop an email to us at [sales@inextrix.com](mailto:sales@inextrix.com) OR use <http://astpp.inextrix.com/contact.php>

### Technical Questions

1. **What databases are supported in ASTPP ?** It supports only MySQL (PostgreSQL support will be added in future release).
2. **What payment gateways are supported in ASTPP ?** Paypal only for now. In future we have plan to add authorize.net payment gateway.
3. **Does ASTPP support Multi-language ?** No
4. **Does ASTPP current version support callshop?** No. It will be included in future releases. To get more information you can contact us at [sales@inextrix.com](mailto:sales@inextrix.com).
5. **How can I update my source from to keep it update to date?** ASTPP provides update.sh script with its source just run that script to update your source.
6. **When I go to login page, rather WEBUI I get long list of php contents.** Enable short\_open\_tag in php.ini and then restart apache.
7. **Why I am not able to register extensions after installation?** Make sure you have configured your IP in Sip Profile and your registration request is reaching to server.
8. **How to verify if ASTPP and FreeSWITCH communicating properly?** Default sip profile must be loaded in FreeSWITCH
9. **While login I am getting “Unable to connect to your database server using the provided settings” error.** Please check your database credentials. ASTPP uses /var/lib/astpp/astpp-config.conf file for database connection.
10. **How can I do IP Authentication for my customers?** Configure your customer IP under Customers -> IP Settings
11. **Does CDRs report will show all data ?** No, CDRs report will only record of current day. If you want to see record of previous days record then you need to search.

## CHAPTER 7

---

### Report a Bug

---

Please feel free to report in our bug tracker below in case of any issues you find:

<https://github.com/iNextrix/ASTPP/issues>

Or post your questions on:-

<https://groups.google.com/forum/#!forum/astpp>

---

**Note:** To avoid duplicate bug posts, we would suggest you to refer existing bugs list and google groups first.

---



## CHAPTER 8

---

### Get Support

---

We have provided installation and operation instructions with online help to assist you to install and manage your own ASTPP Platform. However from time to time you may need some clarification or support. There are a number of options available described below.

**Paid Support** : Paid support is available from ASTPP.

**managed Installation** : Stable and secure installations can be performed by us with training and optionally,ongoing support.