

Asterisk Billing Solution

AsterBilling User Operating Manual

0.095 beta

(Unrevised)

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CATALOGUE

FOREWARD	4
About this manual	4
Audience	4
OVERVIEW	5
About asterBilling	5
Functionality/Feature of asterBilling	5
INSTALLATION	7
1. Run the fast installation process by the scripts of installation: install.sh.....	7
2. The manual installation wizard of.....	8
THE OPERATION INTERFACE OF MANAGER	13
1. Manager Login.....	13
2.Account	14
1. Add account.....	15
2.search.....	16
3.Other operation	16
3.Account group	16
1.add account group.....	16
2.search.....	18
3.Other operation	18
4.Reseller group.....	20
1. Add reseller	20
2. Search	21
3. Other Operation	22
5. Report	23
6. Rate to Custom	26
1. Add Custom Rate.....	26
2.Search and export.....	27
3.other operation	28

7.Rate to Callshop	28
1. Add group Rate	28
2.Search and export.....	30
3.other operation	30
8.Rate to Reseller	31
2. Add Reseller Rate	31
2.Search and export.....	32
3.other operation	33
9.CLID	33
1. Add CLID	33
2.Search	34
3.other operation.....	35
10.import	36
11.CDR.....	38
12.credit history	38
THE OPERATION SCREEN OF CALLSHOP	39
1. Booth window	39
2.Setup limit	40
3.Lock the booth.....	41
4.Hung up.....	41
5.receipt	42
6.clear(check-out)	42
8.callback	43

FOREWARD

About this manual

This manual is focused on showing the installation, usage and configuration of the asterBilling system.

Audience

This is a manual for franchiser, administrators or technical engineer engaging in configuration and management for asterBilling system

OVERVIEW

About asterBilling

asterBilling is a software for real-time billing, which is applied to the solution for concentrated callshop or enterprise-class IP PBX billings.

Functionality/Feature of asterBilling

1. It can be billing for any system based on asterisk.
2. Real-time billing
3. It sets supported on prepaid and postpaid
4. It can support that the number of the call concurrence is 240 at most
5. Telephone set locked/unlocked
6. Credit limit for Telephone set/Callshop/Distributor
7. Multi callshop is supported by single system
8. Multi-Distributor is supported by single system
9. It can set the rate according to every user/callshop/Distributors
10. It can support dial-back with credit limit (ani billing/billing/two-way billing)
11. It can support billing for 3-class: distributor

billing/callshop billing/user billing

12. There are 4 types of user-level:
 Manager/Reseller/Callshop/Operator
13. It can import/export the rate by online
14. It can terminate the call compulsively
15. The source code of web application is open, which is convenient to customize UI and proceed to develop the system secondly
16. Incoming computing
17. Network layout
18. Call message query
19. 5-tunnel free permission
20. Prepaid message record
21. It provides that the agi scripts for prepaid card or interior pbx billings
22. Extension billings separately
23. Extension can enquiry call registers after signing in the system
24. Multi-language support (including Chinese and English)

INSTALLATION

1. Run the fast installation process by the scripts of installation: install.sh.

Create the database in `mysql` (asterBilling should run on `mysql` 4.1 or later)

Suppose the root directory of web as `/var/www/html/`.

Create the database firstly:

```
mysqladmin -uyourmysqluser -pyourmysqlpasswd create astercc
```

setup “`install.sh`” as the executed rights(the script lies in the root directory of astercc by default):

```
cd astercc
```

```
chmod +x ./install.sh
```

run the installation scripts:

```
./install.sh
```

Entering the installation wizard:

```
Please enter database information
```

```
database host(default localhost):
```

```
setup database host, localhost by default
```

```
database port(default 3306):
```

```
setup database port, 3306 by default
```

```
database name(default astercc):
```

```
setup database name, astercc by default
```

```
database user name(default root):
```

```
setup database user name, root by default
```

database user password(default null): passw0rd

setup database user password

database bin path(default /usr/bin):

setup the directory of mysql, /usr/bin by default

Please enter the Asterisk infomation:

Asterisk Host(default 127.0.0.1):

Setup Asterisk host, 127.0.0.1 by default

Asterisk Manager API port(default 5038):

Setup the AMI port of Asterisk, 5038 by default

AMI User name:

AMI User password:

Please enter main html directory for astercc

Are you want to auto start astercc daemon when system startup?

Mist be redhat-release system

"Press 'y' to auto start

Setup whether loading astercc when the initial of system, input Y as

Yes

Are you want to start astercc daemon now?

"Press 'y' to start:"

Setup whether the daemon will be started, input Y as YES

2. The manual installation wizard of asterBilling

1. Download the source package of asterCC from astercc.org, extract it and move to your directory of your web service


```
cd /usr/src
```

```
wget http://astercc.org/download/astercc-0.1-beta.zip
```

```
unzip astercc-0.1-beta.zip
```

```
mv ./ astercc-0.1-beta /var/www/html/asterCC
```

It strongly recommend that the directory “scripts” should be moved to the higher-level security place, such as /opt , and please don’ t put it under the web directory(it will be shown in next steps) .

2. Create a directory, and move scripts to the directory

In 0.1 beta version , there are serval of daemons for asterBilling in the directory “scripts”

i astercc will be applied to acquire the detail of calling message from asterisk and some information about extensions

i astercc is a process for real-time billing in call according to the table of rate.

i astercclock will control the extensions’ right according to call charge credit limit.

In the directory “scripts” , there is some tools as follows:

i asterccd: Control some process related to asterCC to start, stop, status check(you can edit the script, and assign the process it controls)

i asterccdaemon: a “watchdog” process, which will make a real time check on all the process related to asterCC and which will restart those if it is suspended(if it will be started by asterccd, the checking process is the same as the process controlled by asterccd)

```
mkdir -p /opt/asterisk/scripts/astercc
```

```
mv /var/www/html/asterCC/scripts/* /opt/asterisk/scripts/astercc
```

```
chmod +x /opt/asterisk/scripts/astercc/*
```

3. create mysql database, and asterCC is required to run on mysql 4.1 or later

```
mysqladmin -uyourmysqluser -pyourmysqlpasswd create astercc
```

```
mysql -uyourmysqluser -pyourmysqlpasswd astercrm </var/www/html/  
asterCC/sql/astercc.sql
```

we create the database named "astercc" in this document, but you can name the database as any name you like

4. setup manager.conf in asterisk, with creating a user that can connect AMI for asterCRM

```
vi /etc/asterisk/manager.conf
```

```
[general]
```

```
enabled = yes
```

```
port = 5038
```

```
bindaddr = 0.0.0.0
```

```
;displayconnects = yes
```

;According to your requirement, you can modify several rows as follows

```
[asterccdaemon]
```

```
secret = myasterccdaemon
```

```
read = system,call,log,verbose,command,agent,user
```

```
write = system,call,log,verbose,command,agent,user
```

```
deny=0.0.0.0/0.0.0.0
```

; only allow local access, if you want to run asterCRM on another server

; use your asterBilling ip to replace 127.0.0.1 or add a new line

permit=127.0.0.1/255.255.255.0

5. Setup the parameters on asrerbilling.conf.php according to your situation

The key point is setting a correct database connection string, and you can log into the system correctly by web pages after that.

6. Startup asterisk and the process you need

Setup the correct parameters for /opt/asterisk/scripts/astercc/astercc.conf

Start test astercc *Note: After “debug =1” will be set up in astercc.conf , the*

screen will show the information as follows

```
/opt/asterisk/scripts/astercc/astercc
```

```
If the message shows as follows:
```

```
“Connecting to mysql database on 127.0.0.1:
```

```
Database connection successful.
```

```
Connecting to asterisk on 127.0.0.1 port 5038:
```

```
Asterisk socket connection successful.
```

```
Check asterisk username & secret:
```

```
Success
```

```
Monitor Start:
```

```
...(some log message) ...”
```

```
Congratulations, your “astercc” has already run normally, press ctrl + c to
```

```
escape the process running;
```

```
If the screen shows errors, please check your configuration for database/AMI
```

```
on astercc.conf.
```

Startup daemon as follows:

```
/opt/asterisk/scripts/astercc/astercc -d
```

```
/opt/asterisk/scripts/astercc/astercctools -d
```

or startup all the process by the command as follows:

```
/opt/asterisk/scripts/astercc/asterccd start
```

Configure your process of astercc with your system autostart:

prompt: This action is only applied to redhat-release system

```
cp /opt/asterisk/scripts/astercc/asterccd /etc/rc.d/init.d
```

```
chmod 755 /etc/rc.d/init.d/asterccd
```

```
chkconfig --add asterccd
```

advice: set your astercc restart once a day, which is not necessary, But it is good to improve the performance of your astercc.

```
crontab -e
```

Add the row as follows:

```
0 0 * * * /etc/rc.d/init.d/asterccd restart to the end of the file
```

The first “0” is applied to assign the minutes, and the second “0” is applied to assign the hours.

7. Setup the correct access rights for files and directories:

After setting up the rights of the directory for file uploading

(asterbilling/upload), you can import the file “csv/xls”.

```
chmod 777 /var/www/html/asterCC/asterbilling/upload
```

8. test

Open your browser, Input the URL as follows:

`http://localhost/asterCC/asterbilling`

Or

`http://YOUR-WEB-SERVER-ADDRESS/asterCC/asterbilling`

login system as admin/admin

THE OPERATION INTERFACE OF MANAGER

1. Manager Login


Access WEB management interface, such as `http://yourhost/astercc`, login screen will be shown, and asterBilling will provide two kinds of login screen, which is the login screen of manager (`manager_login.php` , which is applied to the login of advanced manager, Reseller ,level manager and operator) and the login screen of user(`login.php` , which is applied to the login of end-user) ,and the default login screen is the login screen of manager(user: admin, password: admin).you can use the parameter ‘useindex’ to assign the default login screen in `asterBilling.conf.php`.

Manager Login

Username

Password

Valid Code



English

After login you can see all the items which can manage, including Account | Account group | Reseller Group | Report | Rate to Customer | Rate to Callshop | Rate to Reseller | Clid | Import | CDR | Credit | History | Logout.



You can learn about it in the following paragraph.

2.Account

This item is applied to manage system users. The page will show admin user, reseller user, group user. You can observe that there is an account of admin, and all the information for the account (including user name, password, user type) will be shown on the page, otherwise we recommend you should change system admin's user name and password.

User Name	Password	User Type	Reseller	Group	Last Update	Edit	Detail
admin	admin	admin			2009-03-15 05:53:35		

There are 4 types of user account in system, the user type as follows:

“admin” ,” reseller” ,” group admin” ,” operator” .

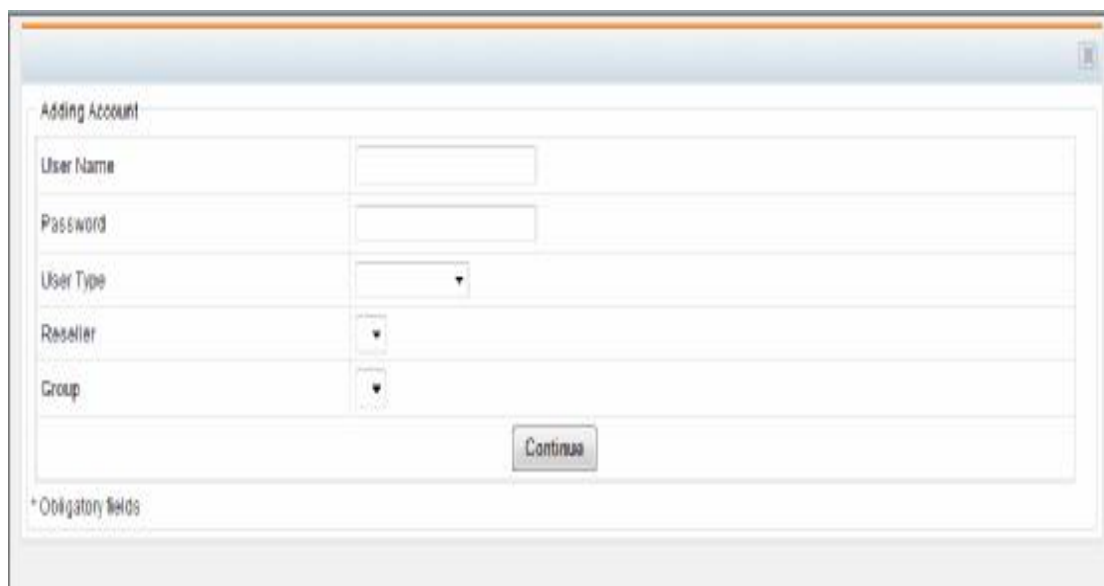
1. Add account

Admin user,which can add all types of user.

Reseller user,which can add two types of user,group admin and operator.

Group user,which can only add a type of user,operator

Click “Add” button on the top left corner,which will pop-up the window “Add account” . the graphic of screen that admin login system as follows:

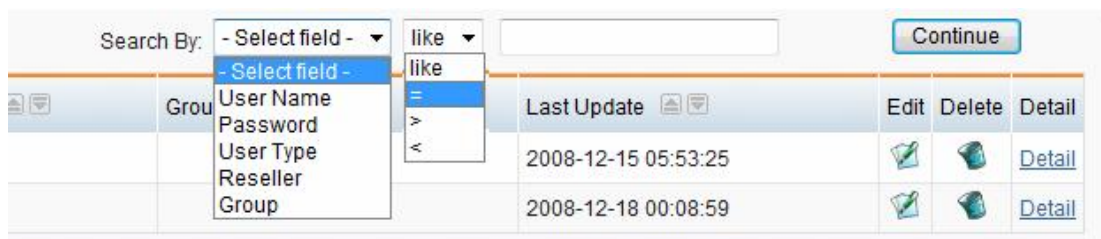


The screenshot shows a web-based form titled "Adding Account". It has five main input fields: "User Name" (text box), "Password" (text box), "User Type" (dropdown menu), "Reseller" (dropdown menu), and "Group" (dropdown menu). Below these fields is a "Continue" button. At the bottom left of the form, there is a note: "* Obligatory fields".

First of all,you should input user name,password,and select user type.Then if you want to add a reseller user,you should select a managable reseller group(you should add reseller group first,and then you can add reseller user);If you want to add a reseller group and account group(you should add reseller group and account group firstly),click “continue” to finish to add the account.

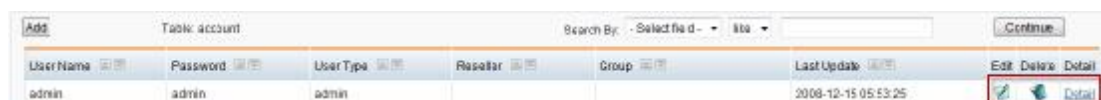
2. search

Select any search field and match method, input the corresponding search key words, and you can get the results after clicking “continue” button.



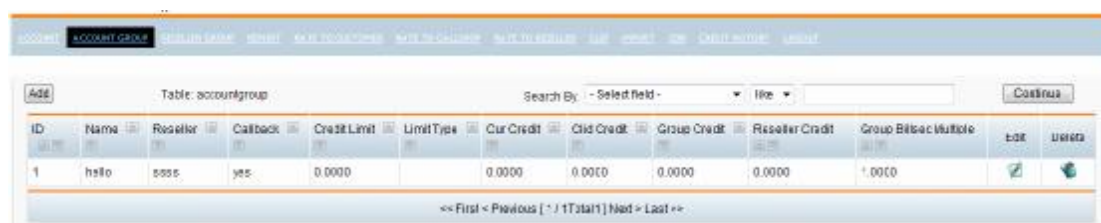
3. Other operation

You can edit, delete and view the user information, and make the operation on the corresponding record



3. Account group

This item is applied to manage account group



1. add account group

Click “add” button on top left, which will pop up the window “add account group” as follows:

Reseller	<input type="text"/>
Group Name*	<input type="text"/>
Title	<input type="text"/>
Tagline	<input type="text"/>
Account Code	<input type="text"/> (might be useful for callback)
Allow Callback	Yes <input type="text"/>
Credit Limit	<input type="text"/>
Limit Type	No limit <input type="text"/>
Group Billsec Multiple	1.0000 <input type="text"/>
Customer Billsec Multiple	1.0000 <input type="text"/>

*Obligatory Fields

Reseller: you can choose reseller for account group, which is a reseller existed in system at least, and it should not be null.

Group name: The name for new account group, and this item should be required.

Title: It will show the title of the operator screen in this group of callshop

Tagline: It will show the tagline under the title of the operator screen in this group of callshop.

Account Code: The billing code for callback

Allow Callback: whether this group will be allowed for callback, "Yes" by default

Credit Limit: The call charge credit in account group at most, which is shared by "Limit type" and "Cur Credit" (you can find the detail of "account group edit")

Limit Type: The limit type of account group, which supports "no limit", "prepaid", or "postpaid".

Group Billsec Multiple: Setup the billing for this group, and this is the coefficient of the billing cycle.

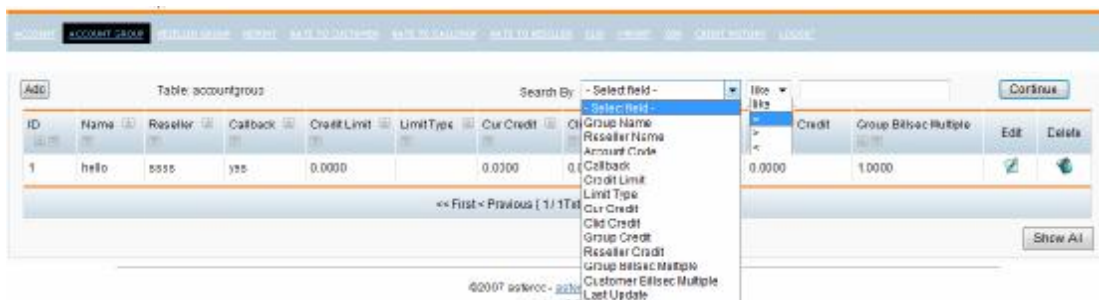
Customer Billsec Multiple: Setup the billing for the user of this group, and this is the

coefficient of the billing cycle.

Select and input the appropriate content, and click “continue” button to finish to add.

2. search

You can search the information of group in the component, choose search field and matching method you need, and input the search key words accordingly, then you can get the search result after clicking “continue” button.



3. Other operation

You can edit and delete for the corresponding group.



Edi t

Reseller	xxxx
Group Name*	hello
Title	sss
Tagline	
Account Code	123 (might be useful for callback)
Allow Callback	Yes
Credit Limit*	0.0000
Cur Credit	0.0000
Operate	No change
Limit Type	No limit
Group Balsec Multiple	1.0000
Customer Billsec Multiple	1.0000
Display Logo	<input checked="" type="radio"/> enable <input type="radio"/> disable
Upload New Logo	<input type="button" value="Browse..."/>
<input type="button" value="continue"/>	

*Obligatory Fields

According to the graph as belows,there are four extra items in edit window more than add window as follows:

Cur Credit: This item records the current occurring call credit for account group,which will control the call credit of the account group with “Credit limit” and “Limit type” ,That is,if “Cur Credit” is equal to “Credit Limit” ,it noted that there are no credits on the account group and the balance is 0,and if you choose ‘prepaid’ in the limit type of account group,all the extensions in this account group can not dial out at this moment,if you choose “no limit” or “postpaid” ,it will not affect the calling of the extensions.

Operati on: Operate on “Cur Credit” ,That is,proceed the operation for refuning and charging,that include two types of operation:” refune” and “charge” ,because the call credit of account group is controlled by “Credit limit” and “Cur Credit” (call credit= Credit limit- Cur Credit), “charge” is equal to decrease “Cur Credit” and “refune” is equal to increase “Cur Credit” .

For example,Creat a new account group with credit limit equal to 1000,when the extensions of this group is calling out,which will cost 900,that is,cur credit is 900,then

current available credit=1000(credit limit)-900(cur credit)=100.if this group need add another 500 call charge,you need charge for that.The steps as follows:

1. Select “charge” in “operator” listbox
2. Input 500 in textbox following “operator” listbox
3. The Cur redit of this group at this moment will change from 900 to 900-500=400
4. The available credit will change from 100 to 1000(credit limit)-400(cur credit)=600

Di splay Logo: It controls whether display logo in operator interface of callshop.

Upl oad New Logo: upload a new logo file for new group.

4.Reseller group

This item is applied to manage the reseller group

ID	Name	Callback	CreditLimit	Limit Type	Billsec/Multiple	Cur credit	Old Credit	Group Credit	Reseller Credit	Last Update	Edit	Delete
1	ssas	yes	0.0000	prepaid	1.0000	0.0000	0.0000	0.3000	0.3000	2003-12-17 22:47:15		
2	001	yes	0.0000		1.0000	0.0000	0.0000	0.3000	0.3000	2003-12-18 10:09:22		

1. Add reseller

Click “Add” button on the top left corner,which will pop-up the window “Add account” :

Reseller name: a new reseller name, which is required.

Account code: the billing mark which is applied to callback.

Callback: determine whether the new reseller can call back, "Yes" by default.

Credit Limit: The call charge credit in reseller group at most, which is shared by "Limit type" and "Cur Credit" (you can find the detail of "reseller group edit")

Limit Type: The limit type of reseller group, which supports "no limit", "prepaid", or "postpaid".

2. Search

You can search the information of group in the component, choose search field and matching method you need, and input the search key words accordingly, then you can get the search result after clicking "continue" button.

Clid Credit	Credit	Last Update	Edit	Delete
0.0000	0.0000	2008-12-17 22:47:15		

3. Other Operation

You can edit and delete for the corresponding reseller.

ID	Name	Callback	Credit Limit	Limit Type	Blisec Multiple	Cur credit	Clid Credit	Group Credit	Reseller Credit	Last Update	Edit	Delete
1	5555	yes	0.0000	prepaid	1.0000	0.0000	0.0000	0.0000	0.0000	2008-12-17 22:47:15		

Edit

Edit Reseller

Reseller Name*	<input type="text" value="5555"/>
Account Code	<input type="text" value="123"/>
Allow Callback	<input type="text" value="Yes"/>
Credit Limit	<input type="text" value="0.0000"/>
Cur Credit	<input type="text" value="0.0000"/>
Operate	<input type="text" value="No change"/>
Limit Type	<input type="text" value="Prepaid"/>
Blisec Multiple	<input type="text" value="1.0000"/>

Obligatory Fields

Cur Credit: This item records the current occurring call credit for resellers, which will control the call credit of the reseller with “Credit limit” and “Limit type”, That is, if “Cur Credit” is equal to “Credit Limit”, it is noted that there are no credits on the reseller and the balance is 0, and if you choose ‘prepaid’ in the limit type of reseller, all the extensions in this reseller can not dial out at this moment, if you choose “no limit” or “postpaid”, it will not affect the calling of the extensions.

Operation: Operate on “Cur Credit”, That is, proceed the operation for refunding and charging, that include two types of operation: “refune” and “charge”, because the call credit of reseller is controlled by “Credit limit” and “Cur Credit” (call credit= Credit limit- Cur Credit), “charge” is equal to decrease “Cur Credit” and “refune” is equal to increase “Cur Credit”.

For example, Create a new reseller with credit limit equal to 10000, when the extensions of this reseller is calling out, which will cost 9000, that is, cur credit is 9000, then current available credit = 10000 (credit limit) - 9000 (cur credit) = 1000. If this group needs to add another 5000 call charge, you need charge for that. The steps are as follows:

1. Select "charge" in "operator" listbox
2. Input 5000 in textbox following "operator" listbox
3. The Cur credit of this reseller at this moment will change from 9000 to $9000 - 5000 = 4000$
4. The available credit will change from 1000 to $10000 (\text{credit limit}) - 4000 (\text{cur credit}) = 6000$

5. Report

This item is applied to billing amount, callshop cost, reseller cost.



You can observe the three listboxes in the first row, and the first listbox is applied to select the reseller, the second listbox is applied to select account group, and the last listbox is applied to select account or callback. You can choose the time range and the sum method in the second row. astbilling will support the sum method as follows:

ü List detail

This method can show all calls and billing information in selected object and time range in one page. You can sum the call record by yourself, and click “check out” button and you will change the status from “UNBILLED” to ‘BILLED’ in the record.

Calldate	clid	dst	Duration	Disposition	Billsec	Destination	Rate	Price	Status
<input checked="" type="checkbox"/> 2008-12-07 13:55:13	8888	1334567890	388	ANSWERED	381	日本手机	0.28 per 60 seconds	1.8184 (2.02813) (0.00000)	BILLED
<input type="checkbox"/> 2008-12-07 13:57:03	8888	1334567890	70	ANSWERED	38	美国手机	0.09 per 60 seconds	0.0944 (0.04833) (0.00000)	UNBILLED

Amount: 0
Callshop Cost: 0
Reseller Cost: 0

ü Sum by Year

Limit Type prepaid(30000.0000)

From: 2008-12-22 05:46 To: 2008-12-23 05:46 Sum By Year

2008 : Calls: 136 Billsec: 3428 Callshop: 6300.0000	total : Calls: 136 Billsec: 3428 Callshop: 6300.0000
--	---

ü Sum by month

Limit Type prepaid(30000.0000)

From: 2008-11-08 05:46 To: 2008-12-23 05:46 Sum By Month

2008-11 : Calls: 0 Billsec: Callshop:	2008-12 : Calls: 136 Billsec: 3428 Callshop: 6300.0000	total : Calls: 136 Billsec: 3428 Callshop: 6300.0000
--	---	---

ü Sum by day

Limit Typeprepaid(30000.0000)
 From: 2008-12-22 05:45 To: 2008-12-24 05:45 Sum By Day

2008-12-22 : Calls: 39 Billsec: 0.000 Callshop: 1000.0000	2008-12-23 : Calls: 07 Billsec: 24 Callshop: 5100.0000	2008-12-24 : Calls: 0 Billsec: 0 Callshop:	2008-12-25 : Calls: 0 Billsec: 0 Callshop:	2008-12-26 : Calls: 0 Billsec: 0 Callshop:
2008-12-27 : Calls: 0 Billsec: 0 Callshop:	2008-12-28 : Calls: 0 Billsec: 0 Callshop:	2008-12-29 : Calls: 0 Billsec: 0 Callshop:	2008-12-30 : Calls: 0 Billsec: 0 Callshop:	2008-12-31 : Calls: 0 Billsec: 0 Callshop:
Total : Calls: 136 Billsec: Callshop:				

ü Sum by hour

Limit Typeprepaid(30000.0000)
 From: 2008-12-23 01:45 To: 2008-12-23 05:46 Sum By Hour

2008-12-23 0: Calls: 7 Billsec: 0 Callshop: 0.0000	2008-12-23 1: Calls: 0 Billsec: 0 Callshop:	2008-12-23 2: Calls: 3 Billsec: 0 Callshop: 0.0000	2008-12-23 3: Calls: 70 Billsec: 24 Callshop: 5100.0000	2008-12-23 4: Calls: 0 Billsec: 0 Callshop:
2008-12-23 5: Calls: 11 Billsec: 0 Callshop: 0.0000	2008-12-23 6: Calls: 0 Billsec: 0 Callshop:	2008-12-23 7: Calls: 0 Billsec: 0 Callshop:	2008-12-23 8: Calls: 0 Billsec: 0 Callshop:	2008-12-23 9: Calls: 0 Billsec: 0 Callshop:
2008-12-23 10: Calls: 0 Billsec: 0 Callshop:	2008-12-23 11: Calls: 0 Billsec: 0 Callshop:	2008-12-23 12: Calls: 0 Billsec: 0 Callshop:	2008-12-23 13: Calls: 0 Billsec: 0 Callshop:	2008-12-23 14: Calls: 0 Billsec: 0 Callshop:

ü Sum by destination

Limit Typeprepaid(30000.0000)
 From: 2008-12-23 01:46 To: 2008-12-23 05:46 Sum By Destination

Destination	Calls	Billsec	Sells
	73	0	0.0000
301	17	24	5100.0000

Amount: 0
 Callshop Cost: 0
 Reseller Cost: 0

6. Rate to Custom

This item is applied to rate to user billings.

Prefix	Length	Destination	Connect Charge	Init Block	Rate	Billing Block	Group	Reseller	Addtime	Edit	Delete
ddd	1	300	200.0000	23	22.8000	60	hello	ssss	2008-12-13 03:06:03		

1. Add Custom Rate

Click “Add” button on top left of “myrate” table, which will add a rate to new user:

Prefix: It will specify the prefix of the phone number, that is, if the user wants to dial the phone number with the prefix, the rate will be applied to the user; such as 0086; if you want to set the rate as default, please input “default” in the textbox. At the moment, if you dial the number that doesn't match any rate, you will use “default” as the billing rule.

Length: It will specify the length of the phone number, that is, if the phone number matches the length, the rate will be applied to the user; the default length is 0, which will

match any length.

Destination: It will input the name of the destination for the rate, which is easy to Identity Management.

Connect Charge: The charge at the Initial Interval of the call, such as 0.2 in the first 180 sec, and 0.2 is the initial charge of the call.

Init Block: The time limit for initial charge after the call having connected, such as 0.2 in the first 180 sec, and 180 sec is the initial time length of the call.

Rate: charge in each billing block.

Billing Block: specify Billing Block, such as bill the call once in 60s.

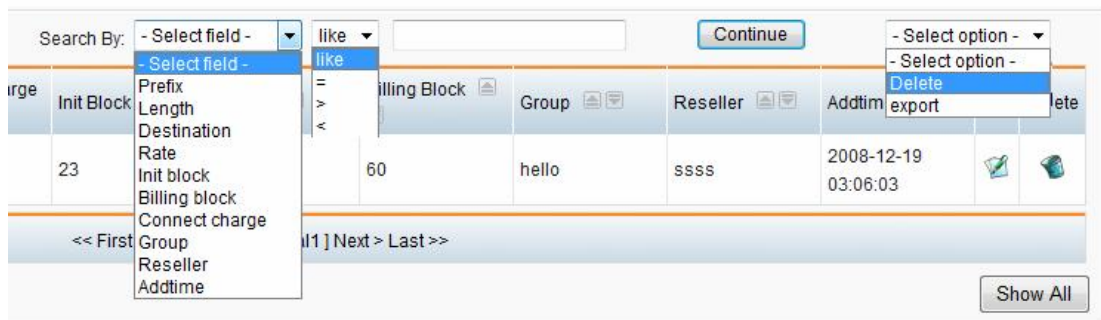
Reseller: Select the user of the reseller which is applied to the rate, if you choose nothing it will be applied to any user of any reseller.

Group: Select the user of the group which is applied to the rate, if you choose nothing it will be applied to any user of any group.

Select and input the appropriate content, and click “continue” button to finish to add.

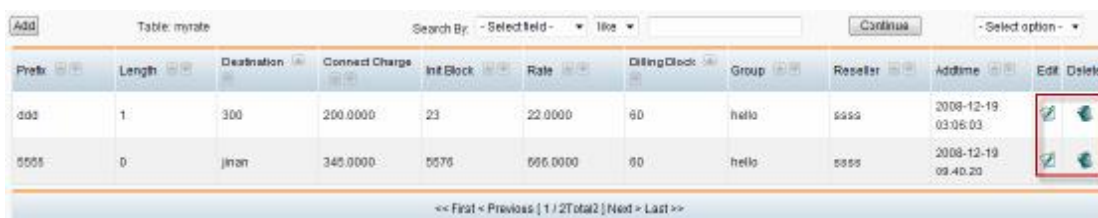
2. Search and export

You can search the rate here, choose the corresponding search field and matched pattern, and input the corresponding content, then click “continue” button, you can get the search result. It provides the function of the rate export or delete at the same time. When you select delete, the system will delete all the records matched (Note: if there is no search field selected or no search content input, all the rate will be deleted), then when you select export, all the rate will be exported as *.csv file.



3. other operation

you can edit and delete the corresponding rate.



7. Rate to Callshop

This item is applied to set up the rate of group(callshop)



1. Add group Rate

Click “Add” button on top left of “callshoprate” table, which will add a rate to new user:

The screenshot shows a web-based form titled "Add Rate". It has the following fields and values:

Field	Value
Prefix	
Length	0
Destination	
Connect Charge	
Init Block	
Rate	
Billing Block	60
Reseller	
Group	

At the bottom right of the form is a "Continue" button. At the bottom left, there is a note: "*Obligatory Fields".

Prefix: It will specify the prefix of the phone number, that is, if the group user wants to dial the phone number with the prefix, the rate will be applied to the group user; such as 0086; if you want to set the rate as default, please input "default" in the textbox. At the moment, if you dial the number that doesn't match any rate, you will use "default" as the billing rule.

Length: It will specify the length of the phone number, that is, if the phone number matches the length, the rate will be applied to the group user; the default length is 0, which will match any length.

Destination: It will input the name of the destination for the rate, which is easy to Identity Management.

Connect Charge: The charge at the Initial Interval of the call, such as 0.2 in the first 180 sec, and 0.2 is the initial charge of the call.

Init Block: The time limit for initial charge after the call having connected, such as 0.2 in the first 180 sec, and 180 sec is the initial time length of the call.

Rate: charge in each billing block.

Billing Block: specify Billing Block. such as bill the call once in 60s.

Reseller: Select the group user of the reseller which is applied to the rate,if you choose nothing it will be applied to any group user of any reseller.

Group: Select the group user of the group which is applied to the rate,if you choose nothing it will be applied to any reseller of any group.

Select and input the appropriate content,and click “continue” button to finish to add.

2. Search and export

You can search the rate here,choose the corresponding search field and matched pattern,and input the corresponding content,then click “continue” button,you can get the search result.it provide the function of the rate export or delete at the same time.When you select delete,system will delete all the records matched(Note:if there is no search field selected or no search content input,all the rate will be deleted),then when you select export,all the rate will be exported as *.csv file.

3. other operation

you can edit and delete the corresponding rate.

Prefix	Length	Destination	Connect Charge	Init Block	Rate	Billing Block	Group	Reseller	Addtime	Edit	Delete
000	1	300	200.0000	23	22.0000	60	hello	ssss	2008-12-19 03:06:03		
5555	0	jinan	340.0000	5575	666.0000	60	hello	ssss	2008-12-19 09:40:20		

8. Rate to Reseller

This item is applied to the rate of the reseller

Prefix	Length	Destination	Connect Charge	Init Block	Rate	Billing Block	Reseller	Addtime	Edit	Delete
000	0	rwww	2555.0000	66	78.0000	60	ssss	2008-12-19 03:16:57		

2. Add Reseller Rate

Click “Add” button on top left of “resellerrate” table, which will add a rate to new user:

addrate

Prefix:

Length:

Destination:

Connect Charge:

Init Block:

Rate:

Billing Block:

Reseller:

*Obligatory Fields

Prefix: It will specify the prefix of the phone number, that is, if the reseller user wants to dial the phone number with the prefix, the rate will be applied to the reseller user; such as 0086; if you want to set the rate as default, please input “default” in the textbox. At the

moment,if you dial the number that doesn't match any rate,you will use "default" as billings rule.

Length: It will specify the length of the phone number,that is,if the phone number matches the length,the rate will be applied to the reseller;the default length is 0,which will match any length.

Destination: It will input the name of the destination for the rate,which is easy to Identity Management.

Connect Charge: The charge at the Initial Interval of the call,such as 0.2 in the first 180 sec,and 0.2 is the initial charge of the call.

Init Block: The time limit for initial charge after the call having connected, such as 0.2 in the first 180 sec,and 180 sec is the initial time length of the call.

Rate: charge in each billing block.

Billing Block: specify Billing Block.such as bill the call once in 60s.

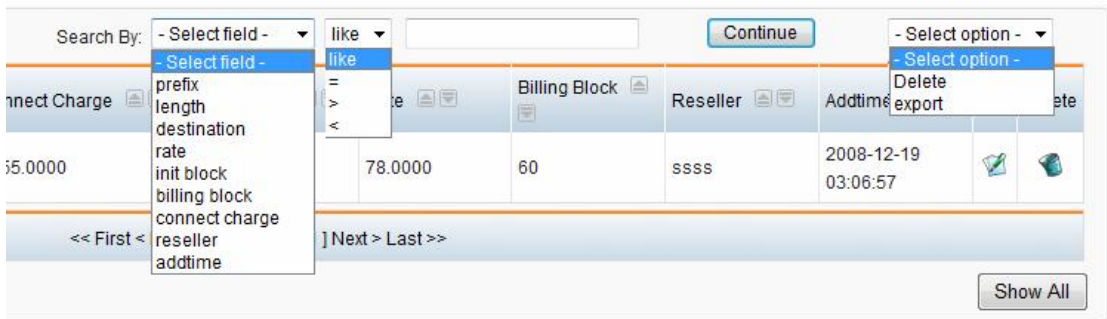
Reseller: Select the reseller which is applied to the rate,if you choose nothing it will be applied to any reseller.

Select and input the appropriate content,and click "continue" button to finish to add.

2. Search and export

You can search the rate here,choose the corresponding search field and matched pattern,and input the corresponding content,then click "continue" button,you can get the search result.it provide the function of the rate export or delete at the same time.When you select delete,system will delete all the records matched(Note:if there is no

search field selected or no search content input,all the rate will be deleted),then when you select export,all the rate will be exported as *.csvs file.



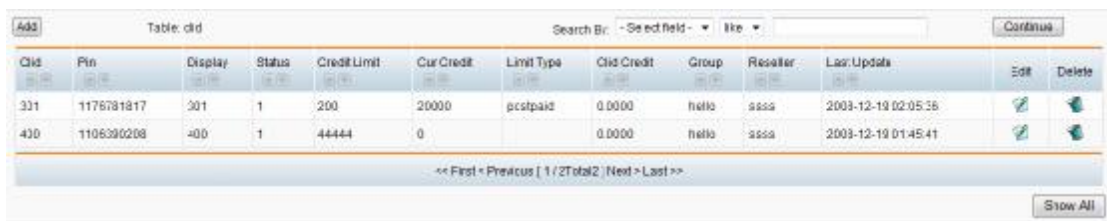
3. other operation

you can edit and delete the corresponding rate.



9. CLID

This item is applied to manage the clid of the user.



1. Add CLID

Click “add” button on top left of “clid” table,the window “Add CLID” as follows:

The screenshot shows a web form titled 'add_clid'. It has the following fields and values:

Field	Value
Caller ID*	
Pin*	107779702
Display	
Credit Limit	
Limit Type	No limit
Reseller	
Group	
Status	Available

*obligatory_fields

Call ID: add call id

PIN: the pin of this CLID account, which is generated by system automatically, is applied to login the user screen and issue the card, and the length of pin is determined by the definition of the parameter “pin_len” in asterbilling.conf.php (10 digit at least, 20 digit at most, 10 digit by default).

Display: set up display name, which will display on the platform of callshop.

Credit Limit: The call charge credit in reseller group at most, which is shared by “Limit type” and “Cur Credit” (you can find the detail of “CLID edit”)

Limit Type: The limit type of reseller group, which supports “no limit” , “prepaid” , or “postpaid” .

Group: Setup the group of the clid

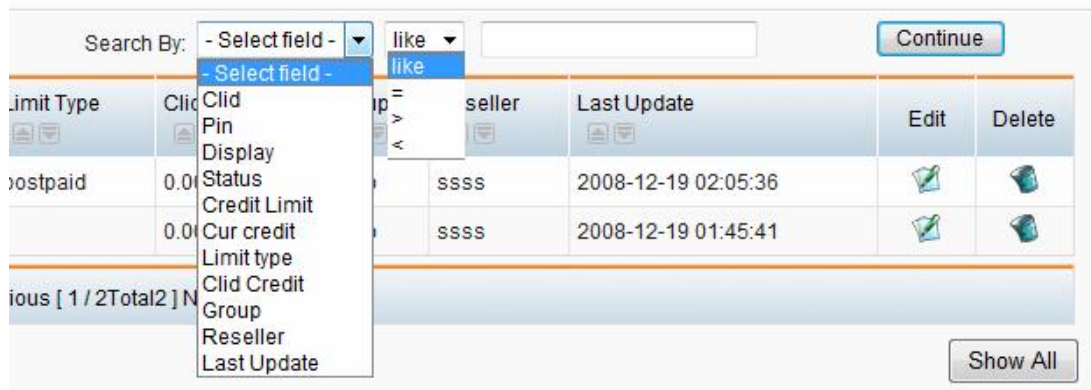
Status: Setup the status of the clid, which is “available” or “lock” .

Select and input the appropriate content, and click “continue” button to finish to add.

2. Search

You can search the information of CLID in the component, choose search field and

matching method you need, and input the search key words accordingly, then you can get the search result after clicking “continue” button.



astercc - [asterbilling home](#)

3. other operation

You can edit or delete the clid you select.

Clid	Pin	Display	Status	Credit Limit	Cur Credit	Limit Type	Clid Credit	Group	Reseller	Last Update	Edit	Delete
301	1176781817	301	1	200	20000	postpaid	0.0000	hello	ssss	2008-12-19 02:05:36		
400	1106300208	400	1	44444	0		0.0000	hello	ssss	2008-12-19 01:45:41		

Edit

According to the graph as belows, there are two extra items in edit window more than add window as follows:

Cur Credit: This item records the current occurring call credit for the CLID, which will control the call credit of the the CLID with “Credit limit” and “Limit type”, That is, if “Cur Credit” is equal to “Credit Limit”, it noted that there are no credits on the reseller and the balance is 0, and if you choose ‘prepaid’ in the limit type of the CLID, all the the CLID can not dial out at this moment, if you choose “no limit” or “postpaid”, it will not affect the calling of the extensions.

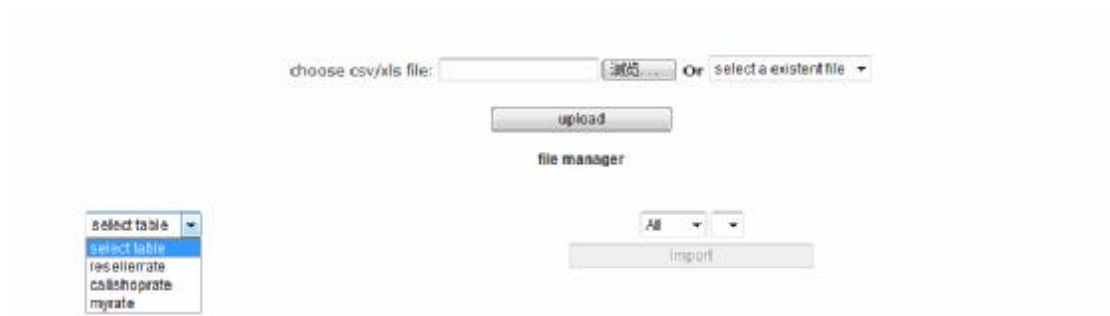
Operation: Operate on “Cur Credit”, That is, proceed the operation for refunding and charging, that include two types of operation: “refund” and “charge”, because the call credit of the CLID is controlled by “Credit limit” and “Cur Credit” ($\text{call credit} = \text{Credit limit} - \text{Cur Credit}$), “charge” is equal to decrease “Cur Credit” and “refund” is equal to increase “Cur Credit”.

For example, Create a new CLID with credit limit equal to 100, when the CLID is calling out, which will cost 90, that is, cur credit is 90, then current available credit = $100(\text{credit limit}) - 90(\text{cur credit}) = 10$. if this CLID need add another 50 call charge, you need charge for that. The steps as follows:

1. Select “charge” in “operator” listbox
2. Input 50 in textbox following “operator” listbox
3. The Cur redit of this group at this moment will change from 90 to $90 - 50 = 40$
4. The available credit will change from 10 to $100(\text{credit limit}) - 40(\text{cur credit}) = 60$

10.import

This item is applied to import the rate table.

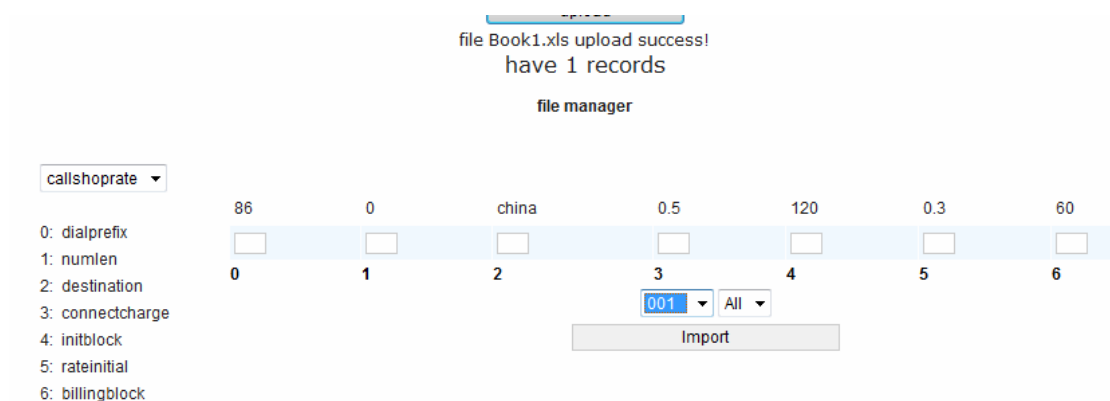


Upload the rate table:

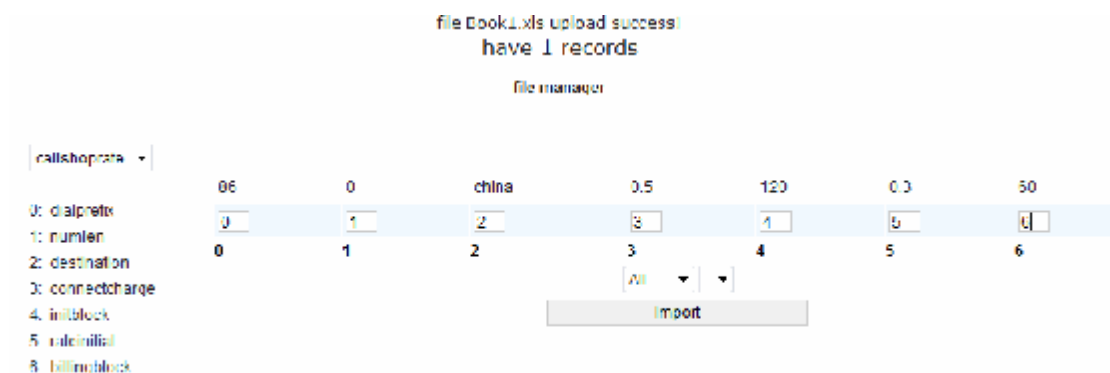
The rate table should be “*.cvs” or “*.xls” file.

	A	B	C	D	E	F	G
1	86	0	china	0.5	120	0.3	60

Upload the file and select the table should be imported,you will see the page as belows:



AS the graph as blows,we choose table “callshoprata” ,which all the field is listed and the sequence number before every field,and input the sequence number of field into the textbox below the corresponding column in the uploaded file,such as:



86 is equal to 0 in the corresponding file in this column: dialprefix

0 is equal to 1 in the corresponding file in this column: numlen

China is equal to 2 in the corresponding file in this column: destination

120 is equal to 4 in the corresponding file in this column: innitblock

0.5 is equal to 3 in the corresponding file in this column: connectcharge

0.3 is equal to 5 in the corresponding file in this column: rateinitial

60 is equal to 6 in the corresponding file in this column: billingblock

Then select the reseller and group,click “upload” button,and finish to import

11.CDR

This item is applied to view the detail of the call record.

Calldate	Str	Dest	Duration	Billsec	Disposition	cost	destination	memo
2008-11-27 15:51:31	13311312257	8902	30	17	ANSWERED	0.0003		rateinitial:0.0003 inblock:0 billingblock:60 connectcharge:0.0000
2008-11-27 15:50:35	13311312257	022114	34	19	ANSWERED	0.1000		rateinitial:0.1000 inblock:0 billingblock:60 connectcharge:0.0000

The clid login the user interface can view the call record belong to itself.

Search:

You can search the call record in this search, choose search field and matching method you need,and input the search key words accordingly,then you can get the search result after clicking “continue” button.

12.credit history

This item is applied to view all the operation records for call charge(including the operation records for call charge for sales、 group and user).Different user can login the

system to view and “search” own’s charge record.

Moditime	Receiptname	Group	Cid	Balance	Modifystatus	Modiyamount	Modiyby
2008-12-19 02:05:36	ssss(1)	hello(1)	301(1)	0.0000	refund	20000.0000	admin
2008-12-19 02:05:19	ssss(1)	hello(1)	301(1)	-30000.0000	refund	30000.0000	admin
2008-12-19 02:05:01	ssss(1)	hello(1)	301(1)	-33000.0000	refund	3000.0000	admin

The operation screen of callshop

You can login the management system by admin group or operator, and then you can enter the operation screen of callshop.

The screenshot displays the 'Callshop Status' interface. At the top, there is a 'Search Rate' button. Below this, two booth windows are visible:

- No.1:300**: Shows a table with columns 'Phone', 'Sec', and 'Price'. The 'Price' column contains the value '0.00'. Below the table, it displays 'U: 0 B: 0.00' and control buttons: 'Limit', 'Lock', 'Hangup', 'Clear', and 'Cdr Receipt'.
- No.2:400**: Shows a table with columns 'Phone', 'Ori', 'Sec', 'Price', and 'Rate'. The 'Price' column contains the value '300.00'. Below the table, it displays 'U: 1800 B: -1,800.00' and control buttons: 'Limit', 'Lock', 'Hangup', 'Clear', and 'Cdr Receipt'.

To the right of the booth windows is a 'Callback' form with input fields for 'Ori', 'Dest', and 'Credit', and a 'Start' button.

1. Booth window

Each booth of the callshop(group) will show as a small window separately, which the window as follows:

No.2:400				
301	0:1:15	300.00	301	300 for fi 20 per 60
301	0:0:35	300.00	301	300 for fi 20 per 60
301	0:1:15	300.00	301	300 for fi 20 per 60
301	0:0:30	300.00	301	300 for fi 20 per 60
U: 1800 B: -1,800.00				
<input type="checkbox"/> Limit: <input type="text"/>				
<input type="checkbox"/> Lock Hangup Clear Cdr Receipt				

2. Setup limit

You can setup temporary limit of the booth in every booth window, which just need input the credit limit in limit item, and check “limit” checkbox, when the credit of the user reaches the number of limit, the calling will be hung up.

No.2:400				
301	0:0:0	0.00		
301	0:0:30	300.00	301	300 for fi 20 per 60
301	0:1:15	300.00	301	300 for fi 20 per 60
301	0:0:35	300.00	301	300 for fi 20 per 60
301	0:0:30	300.00	301	300 for fi 20 per 60
U: 1800 B: -1,771.00				
<input checked="" type="checkbox"/> Limit: 29				
<input type="checkbox"/> Lock Hangup Clear Cdr Receipt				

3. Lock the booth

You can lock the booth in booth window, check “lock” checkbox, then the lock checkbox will be changed to be red, and the booth can not dial any call at this time.

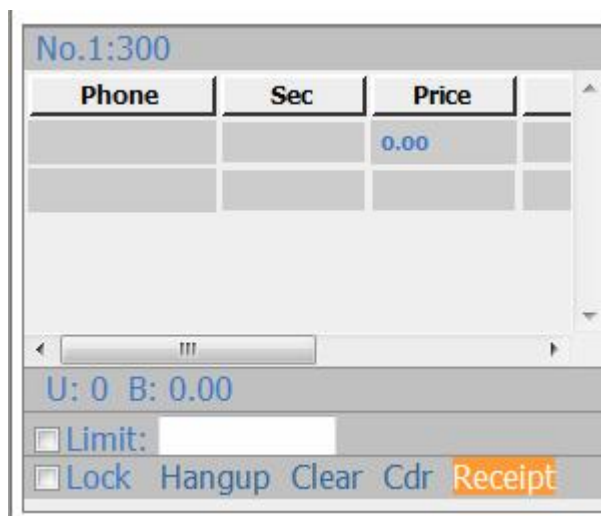


4. Hung up

Click “hung up” button, you can hung up the current call in the booth.



5. receipt

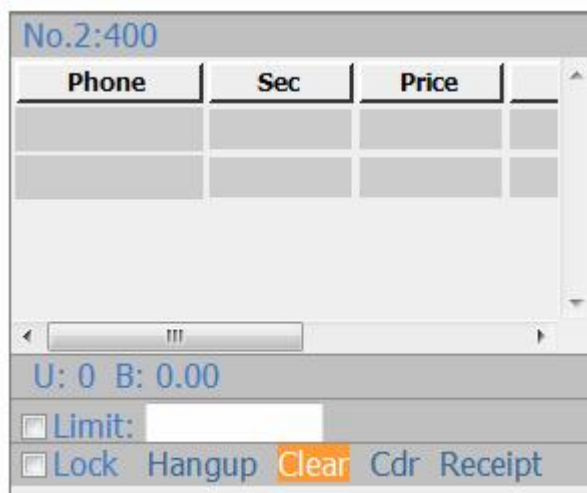


You can click “receipt” button, to view the unbalanced record in the booth and the cost generated, and so on, and print it.

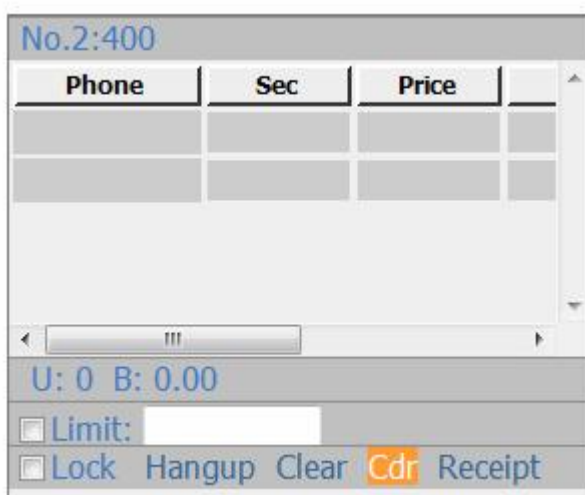
Phone	Start at	Sec	Destination	Date	Price
11300	2008-02-19 01:03:13	0			0.00
11300	2008-02-19 01:03:41	0			0.00
11300	2008-02-19 01:03:52	0			0.00
11300	2008-02-19 01:14:50	0			0.00
11300	2008-02-19 01:01:20	0			0.00
11300	2008-02-19 11:29:20	0			0.00
11400	2008-02-19 21:24:55	0			0.00
11300	2008-02-19 22:18:11	0			0.00
Total					0.00

6. clear (check-out)

When the client finish a call or multi-call, and pay the cost, you can click “clear” button, clear the current record in window.



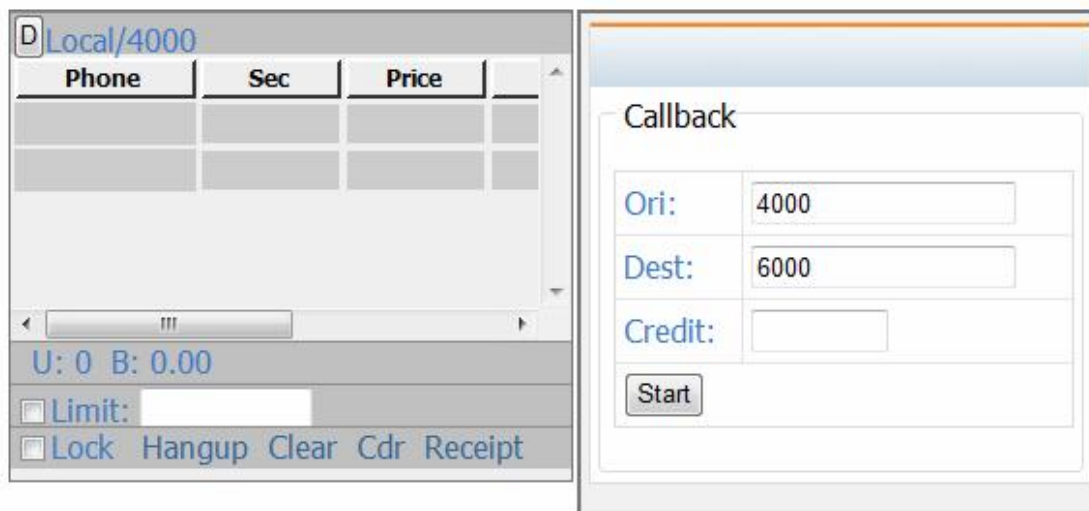
7. CDR



Click “Cdr” button, to view the call record in the booth.

8. callback

If the function “callback” can be available for the current callshop which is logging in, you can observe a callback window. If you want to use callback, just input the number into “ORI” and “DEST”, then click “start” button, and you can use the function “callback”. There will popup a new billing window for callback in web page.



After having finished to callback,you can delete the window by clicking “D” button on the top left of the billing window for callback