

??

A2Billing ???

?? [A2Billing ????](#)

?????

????????????????????????????????

// FreePBX UI > Trunks

?? Outbound Trunk????? Voxalot ???

Outgoing Settings
Trunk Name = voxalot

host=us.voxalot.com
username=<sip_number>
fromuser=<sip_number>
secret=<sip_pass>
fromdomain=voxalot.com
nat=yes
insecure=port,invite
qualify=yes
canreinvite=yes
dtmfmode=auto
disallow=all
allow=ulaw&alaw
type=peer
context=from-trunk

?? Inbound Trunk????????????????? DID ?????????? iptel ???

Outgoing Settings
Trunk Name: iptel

username=<sip_username>
type=friend
secret=<sip_pass>
qualify=yes
insecure=port,invite
host=iptel.org
fromuser=osslab
fromdomain=iptel.org
context=a2billing

Register String: <sip_username>:<sip_pass>@iptel.org/<sip_number>

???context ??? a2billing

```
// A2Billing Admin UI > Trunk > Create Provider
```

```
provider name = VOXALOT_PROVIDER
description = Voxalot Provider
```

```
// A2Billing Admin UI > Trunk > Add Trunk
```

```
voip-provider = VOXALOT_PROVIDER
label = VOXALOT_TRUNK
add prefix = ??
provider tech = SIP
provider ip = voxalot
status = Active
```

TIPs:

```
provider tech ??? SIP
provider ip ??? FreePBX ? trunk name ??
```

```
// A2Billing Admin UI > Ratecard > Create call plan
```

```
name = VOXALOT_CALLPLAN
remove inter prefix = YES
```

TIPs:

```
remove inter prefix = YES ?????? 00 ? 011 ???????????? ratecard ??????????
```

```
// A2Billing Admin UI > Ratecard > Create new ratecard
```

```
tariffname = VOXALOT_RATECARD
trunk = VOXALOT_TRUNK
description = through voxalot trunk
```

```
// A2Billing Admin UI > Ratecard > Add Rate
```

```
ratecard = VOXALOT_RATECARD
dialprefix = 1800
destination = US-Tollfree
buying rate = 1
buyrate min duration = 6
buyrate billing block = 6
selling rate = 1.5
sellrate min duration = 60
sellrate billing block = 60
trunk = VOXALOT_TRUNK
```

TIPs:

? dialprefix ??????????????
 ? destination ???????????

//?? rate ????? call plan ? rate card ??? call plan

A2Billing Admin UI > Ratecard > List Call Plan > Edit: VOXALOT_CALLPLAN

ratecard = ?? VOXALOT_RATECARD, Add Ratecard

???????????

?????????

? ??????????????????(Access Number)

? ????????????????

? ?????????????????00?????????????????

// A2Billing Admin UI > Customers > Create Customers

card number = <????>

card alias = <????>?web ????

webui password = <????>?web ????

balance = 50.0???????????? USD ??

call plan = VOXALOT_CALLPLAN

activated = YES

simultaneous access = INDIVIDUAL ACCESS

card type = PREPAID CARD

country = TAIWAN

sip account = NO

iax account = NO

?????

????????? iptel ?????????????????? IPTel ?????????????????????? card number???

??? 011 + ?? + ?? + ???? ???????????

TIPs:

? ?????(Customer)????????????? card number, card alias, password????????????????????????????????????hacker ????

?????????

? ??? card number ? ?????? alias????????? email ?????????????????????????????? webui password?

? ?????????? 00????? **Call Plan ? REMOVE INTER PREFIX ???? YES????? outbound ??????**

????DID ????

A2Billing ?? DID ?????? outbound trunk ??????SIP URI?

// A2Billing Admin UI > DID > Add DID Group

name = DID TWN

// A2Billing Admin UI > DID > Add DID

DID = 99474

billing = only dialout rate

DID group = DID TWN

country = TAIWAN

activated = YES

monthly rate = 0

// A2Billing Admin UI > Customers > Create Customers

balance = 50.0

call plan = VOXALOT_CALLPLAN

didgroup = DID TWN

activated = YES

card type = PREPAID CARD

country = TAIWAN

sip account = NO

iax account = NO

???????????????? Admin UI ? Customer UI ??

?????? DID ??

// A2Billing Customer UI > DID

select country = TAIWAN

select virtual phone number = 99474

voip call = NO

destination = 8864123456

TIPS:

? select country ?????? DID ? country ??

? ?????? DID number ?????????????? customer ??? DIDGROUP ?????

? voip call ?? NO???????? PSTN/SIP ?????? YES??? SIP URI?

????? DID ??????????

// A2Billing Admin UI > INBOUND DID > Destination

destination = 8864123456

customer ID = ?????? customer

DID = ?????? DID

activated = yes

validated = ??

voip_call = no

TIPS:

? voip call ?? NO?????? PSTN/SIP ?????? YES??? SIP URI?

? ?? DID ????????(??? A2B ? trunk)??????

-- destination = Local/101@from-internal (?? FreePBX ??? 101)

-- destination = SIP/123456 (?? A2Billing card number 123456)

-- voip_call = yes

* ?? destination number ?? A2B ? trunk???? trunk ? SIP ? Zaptel?voip_call ??? no?

???????

- [Elastix Forum :: Inbound DID Billing for A2Billing](#)

?????????????

???????

? ??? X-Lite ? ATA ????????????

? ?????????????? 886+XXXXXXXXX?886 ????

???????????????????? SIP ???????

// A2Billing Admin UI > Customers > Create Customers

card number = <????>

card alias = <????>?web ????

webui password = <????>?web ????

balance = 50.0?????????? USD ??

call plan = VOXALOT_CALLPLAN

activated = YES

simultaneous access = INDIVIDUAL ACCESS

card type = PREPAID CARD

country = TAIWAN

sip account = YES

iax account = YES

TIPS:

? ???(???)????????? sip/iax account ? YES?

? ?? customer ??? reload Asterisk ??SIP ??????????

// ?? "???????" ??????

// A2Billing Admin UI > System Settings > Global List

????????????? GROUP ? **agi-conf2** (??? GROUP ?????)????? [Add agi-conf > CREATE AGI-CONF2?](#)

?? Global List ?? GROUP ? **agi-conf2** ? KEY/VALUE ????????

use_dnid = yes

??SIP????????????????????? SIP ????????????????

sip_iax_friends = yes

sip_iax_pstn_direct_call_prefix = 555

sip_iax_pstn_direct_call = yes

???????????

say_balance_after_auth = no

say_timetocall = no

???????????????????????

number_try = 1

TIPS:

? ??????

- **Use DNID** : YES ???? DNID????????? ??????????????

- **SIP Call = yes, SIP Call Prefix, Direct Call:** ?????????? SIP ?????????????????????? 555+SIP Extension

- **Say Balance After Auth:** ??????????

- **Say Duration:** ??????????

- ??????????????play_audio = no, use_dnid=yes, number_try=1?

//?????? dialplan

//?? /etc/asterisk/extensions_a2billing.conf?????????

[custom-a2billing-sipclient]

exten => _X.,1,Answer

exten => _X.,n,Wait(1)

exten => _X.,n,deadAGI(a2billing.php|2)

exten => _X.,n,Hangup

// ? A2Billing ?????? dialplan

// A2Billing Admin UI > Customer > VoIP Settings

?? SIP ??????????

Context = custom-a2billing-sipclient

// ??????????????????

asterisk -rx "reload"

TIPS:

??? 1.7.x ? bug ??? UI ????????????? asterisk ?????????????????
 ?? /etc/asterisk/additional_a2billing_sip.conf ??? context ???
 ????????????????? F.A.Q ???

????? FreePBX ???

???FreePBX ?????? Outbound Calling ????? A2Billing ?????????PBX?????????

// ?? /etc/asterisk/extensions_custom.conf

```

[macro-dialout-trunk-predial-hook]
exten => s,1,GotoIf("${OUT_${DIAL_TRUNK}:4:4}" =
"A2B/")?custom-freepbx-a2billing,${OUTNUM},1:2)
exten => s,2,MacroExit
  
```

```

[custom-freepbx-a2billing]
exten => _X.,1,DeadAGI(a2billing.php,${OUT_${DIAL_TRUNK}:8})
exten => _X.,n,Hangup()
  
```

// FreePBX UI > Trunks > Add Custom Trunk

Custom Dial String = A2B/2

Tips:

2 ??? agi-conf 2

// FreePBX UI > Outbound Routes

???????????????? Trunk?

// FreePBX UI > Extensions

???????????????? [accountcode](#) ?? A2Billing ? Card Number?

Tips:

???????????????? outbound route ?????? A2Billing ?????? [RATES](#) ??????

????

- [Using A2Billing to account for extension calls in Elastix](#) (A2Billing 1.3.x)

????Caller ID ????

????????????????????????????????????(Caller ID) ??????

- ?? Caller ID ??????????????????????????????
- ??????????????????????????????
- ?? Admin UI ??????????
- ???

// ????

A2Billing Admin UI > Syetem Settings >

? agi-conf ?????????????????????????????????(Key)???

- cid_enable = yes ?yes ???no ??????????
- cid_askpincode_ifnot_callerid = yes ;?? yes?? CID ?????????????? Card Number?
- cid_auto_assign_card_to_cid = yes ;?? yes????????????? CID ?????????????? Card Number????????????? ?????????? CID????????????????????????????? CID ?????????????? Card Number?
- cid_auto_create_card = no

// ?? Caller ID

A2Billing Admin UI > Customers > Caller-ID

CallerID = <?????????>
 Activated = yes
 ID Card = <?????>

FAQ

Q:?????? Customers?

Ans: A2Billing UI > Customers > Add::Search > Search Customers

??????? > ? Search > ?????? Delete All

????????????? VoIP Setting ??????

Q:?????? VoIP Settings?

Ans: ????????????

Q:?????????? USD

Ans: ?????????? base_currency ??????? currency list?

1. A2Billing UI > System Settings > Global List
?? GROUP = global, Key = base_currency
base_curreny = twd
2. ?????????????????? currency list ?????? 1:1 ?????????????????????? TWD 1:1?
A2Billing UI > BILLING > Currency List > CLICK HERE TO UPDATE NOW

Q:?? ratecard ??????? ERROR: file type is not allowed: application/force-download

Ans: ???? csv ?? txt?

???

- [Asterisk: optimizing a2billing mysql database with more than 1,000,000 rates in cc_ratecard](#)
- [????????\(??\)](#)

?? Bug

??	????
1.7.0/1	?? VoIP Settings ? ????????? Asterisk ??
	<p>Ans:???? A2Billing ?????? Realtime Asterisk ??(Asterisk ??????????)?????? *.conf ??? Asterisk ?????????????? bug ??? A2Billing ??? relatime ??? Asterisk?????????? A2Billing ?? realtime asterisk ?????? *.conf ?????? asterisk??????</p> <p>A2Billing UI > System Settings > Global List</p> <p>?? GROUP = global</p> <p style="padding-left: 40px;">use_realtime = no (??? yes)</p> <p>Notes: ??? Realtime ?????????/?? VoIP Settings ??? CONFIRM DATA ?????????????? Asterisk ????</p> <ol style="list-style-type: none"> 1. ?? GENERATE ADDITIONAL_A2BILLING_SIP.CONF 2. click here to reload your asterisk server
1.7.0	?? CUSTOMER ??? balance ??????? 0??????
	Ans: ????????? bug??? 1.3.x ?????????????? balance ??? 0?
1.7.0	????????? SIP ??????????????????SIP ?????????????????????
1.7.0	? Customer UI ? DID ?????? Release DID??? Release ??? DID ? release???????????
1.7.0	? Customer UI ? DID ?????????????? destination number ?????????????????? Delete ?????????? ??????????? Release DID?