

Asterisk GUI - Digium Inc. ???Web???????????????? Asterisk ??? mini-HTTP server???????? Web Server engine?

????????,????????FreePBX?????.?????embedded system? ?????????GUI????.

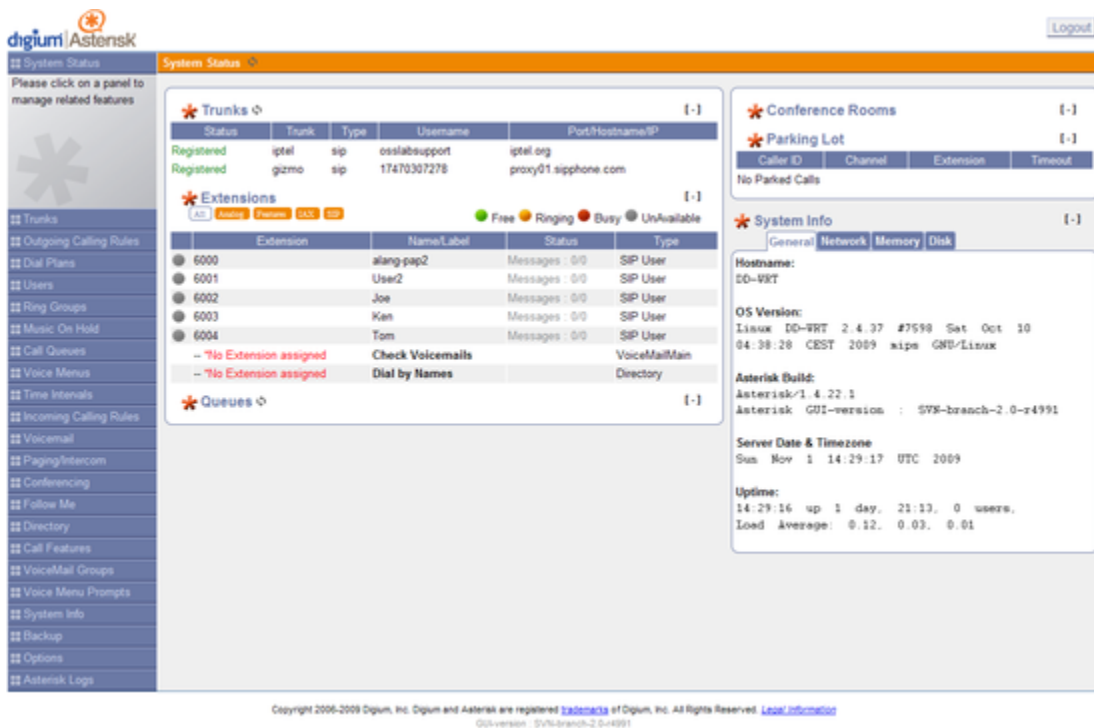
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- [Asterisk GUI for Asterisk 1.8](#)

????????

? DD-WRT ?????????? ?? IP PBX-ASUS WL-520GU ?????

????



**System Status**

Please click on a panel to manage related features

**Trunks**

Status	Trunk	Type	Username	Port/Hostname/IP
Registered	iptel	sip	ossfbsupport	iptel.org
Registered	gizmo	sip	17470307278	proxy01.sipphone.com

**Extensions**

Extension	Name/Label	Status	Type
6000	alang-pap2	Messages : 0/0	SIP User
6001	User2	Messages : 0/0	SIP User
6002	Joe	Messages : 0/0	SIP User
6003	Ken	Messages : 0/0	SIP User
6004	Tom	Messages : 0/0	SIP User
- No Extension assigned		Check Voicemails	VoiceMailMain
- No Extension assigned		Dial by Names	Directory

**Queues**

**System Info**

Hostname: DD-WRT  
 OS Version: Linux DD-WRT 2.4.37 #7590 Sat Oct 10 04:38:28 CEST 2009 x86 GNU/Linux  
 Asterisk Build: asterisk-1.4.22.1  
 Asterisk GUI-version : SVN-branch-2.0-r4991  
 Server Date & Timezone: Sun Nov 1 14:29:17 UTC 2009  
 Uptime: 14:29:16 up 1 day, 21:13, 0 users, Load Average: 0.12, 0.03, 0.01

??????

1.?? SIP Trunk

? iptel.org ??

UI > Trunks > VOIP Trunks > New SIP/IAX Trunk

Type: SIP

Context Naming: **Assigned by Asterisk GUI**

Provider Name: **iptel**

Hostname: **iptel.org**

Username: **<sip\_username>**

Password: **<sip\_password>**

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

insecure: **very**

**Edit SIP trunk trunk\_1** X

Provider Name ⓘ: iptel

Hostname ⓘ: iptel.org

Username ⓘ: osslabssupport

Password : ██████████

Codecs: First : u-law ▼ Second : a-law ▼ Third : GSM ▼  
Fourth : G.726 ▼ Fifth : None ▼

CallerID ⓘ: \_\_\_\_\_

FromDomain: \_\_\_\_\_

FromUser: \_\_\_\_\_

AuthUser: \_\_\_\_\_

insecure: very ▼

Outbound Proxy: \_\_\_\_\_

Enable Remote MWI:

? Pennytel ??

Manage SIP & IAX trunks

Analog Trunk

[New SIP2](#)

Pro

isable Edit X Delete

isable Edit X Delete

isable Edit X Delete

**Edit SIP trunk trunk\_3** X

Provider Name ⓘ: pennytel

Hostname ⓘ: sip.pennytel.com

Username ⓘ: sip@pennytel.com

Password : ██████████

Codecs: First : G.729 ▼ Second : None ▼ Third : None ▼  
Fourth : None ▼ Fifth : None ▼

CallerID ⓘ: \_\_\_\_\_

FromDomain: \_\_\_\_\_

FromUser: \_\_\_\_\_

AuthUser: \_\_\_\_\_

insecure: no ▼

Outbound Proxy: \_\_\_\_\_

Enable Remote MWI:

???

? UI ?????????????????? **Apply Changes**??????????????

## 2.?? Outbound Route

????????????????? 013 ??

UI > Outgoing Calling Rules > New Calling Rule

Calling Rule Name: **iptel**

Pattern: **\_013**

Send this call through trunk:

-> Use Trunk: **iptel**

-> Strip: **3**

-> and Prepend these digits: ??

**Edit Calling Rule** [X]

Calling Rule Name ⓘ : iptel

Pattern ⓘ : \_013.

Send to Local Destination ⓘ

Destination : [v]

Send this call through trunk: [x]

Use Trunk ⓘ iptel [v]

Strip ⓘ 3 digits from front

and Prepend these digits ⓘ [ ] before dialing

Use FailOver Trunk ⓘ :

fail over Trunk ⓘ gizmo [v]

Strip ⓘ [ ] digits from front

and Prepend these digits ⓘ [ ] before dialing

[Cancel] [Save]

## 3.?? Dial Plan

????????????????? dial plan????? internal?

UI > Dial Plans > New Dialplan

DialPlan Name: **internal**

Include Outgoing Calling: **iptel**

Include Local Contexts: ??

??

include outgoing calling ??? Trunk?

include local contexts ??????????????????

**Edit DialPlan**

DialPlan Name:

Include Outgoing Calling Rules:  iptel  gizmo\_out

Include Local Contexts:  default  parkedcalls  conferences  ringgroups  voicemenus  que  
page\_an\_extension

4????

UI &gt; Users &gt; Create New User

Extension: **6000** ????????

CallerID Name: ????(??)

DialPlan: **internal**

Technology:

-> **SIP**

VoIP Settings:

-> **NAT, Password**

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

??

???????????? SIP ? IAX2 ??? users.conf???????? sip.conf/iax.conf ??????????????????

Edit User Extension - 6000
Advanced Edit X

General :

Extension:  i CallerID Name:  i DialPlan:  i

Internal CallerID:  i CallerID Number:  i

Enable Voicemail for this User i

VoiceMail Access PIN code:  i Email Address:  i

Technology

SIP i  IAX i Analog Station:  i flash i:  rxflash i:

Codec Preference : First :

VoIP Settings

MAC Address :  i Line Number :  i LineKeys:  i SIP/IAX Password:

i NAT:  i Can Reinvite:  i DTMF Mode:  i insecure:  i

Other Options

3-Way Calling (analog) i  In Directory i  Call Waiting (analog) i

ADA User i  Is Agent i Pickup Group:

## 5.?? Inbound Route

UI > Incoming Calling Rules > New Incoming Rule

Trunk: **iptel**

Time Interval: **None**

Pattern: **s**

Destination: **????**

### Tips:

```
s ?????? CallerID ????
```

```
_2NXXXX ?? CallerID ? 2 ??????
```

??????

?? Linux ??)

```
#>cd /usr/src/
```

```
#>svn co http://svn.digium.com/svn/asterisk-gui/branches/2.0 asterisk-gui
```

```
#>cd asterisk-gui
#>sh configure && make && make install
```

## ?? Embedded System ??)

??? embedded system ???

1. ?? DD-WRT ???
  2. ???/? ?????????
- Asterisk ??? - **/opt/etc/asterisk**  
Asterisk GUI - **/opt/var/lib/asterisk**  
Asterisk Sound - **/opt/var/lib/asterisk**

???????????????????????? WinSCP ?????? DD-WRT ? USB drive?????????-[IP PBX ASUS WL-520GU ???](#) ??? /mnt/?

?????? >

```
#>cd /opt/var/lib/asterisk
#>mv scripts scripts_bak
#>mv static-http static-http_bak
```

????? >

```
#>cd /mnt
#>tar -xzf astgui20_build-r4991_ddwrt_by_20091122.tar.gz
#>cd astgui20_build-r4991_ddwrt_by_20091122
#>cp -R scripts static-http /opt/var/lib/asterisk
```

?? Asterisk ??

???? GUI ?????????????? /opt/etc/asterisk ?????????????????????????????????

??????

???? Asterisk ???

Asterisk#1)

Host IP = 192.168.1.1

Extension = 1XXX

Context Name = default-ast1 ;?? context ?????? 1XXX ?????????????????? context ???

Asterisk#2)

Host IP = 192.168.1.2

Extension = 2XXX

Context Name = default-ast2 ;?? context ?????? 2XXX ?????????????????? context ???

**? Asterisk#1**

1. ?????????

UI > Options > Advanced Options > Show Advanced Options

2. ?? IAX trunk

UI > File Editor > iax.conf > Add Context > ?? ast-2-interconnect????

```
type=friend
host=192.168.1.2
trunk=yes
disallow=all
allow=ulaw
qualify=yes
context=default-ast1
peercontext=default-ast2
```

### 3. ?? Outbound Route

UI > File Editor > extensions.conf > Add Context > ?? trunk\_out????

```
exten=_016.,1,Macro(trunkdial,IAX2/ast-2-interconnect/${EXTEN:3})
```

```
???????????? 016 + ?????????
```

## ? Asterisk#2

### 1. ????????

UI > Options > Advanced Options > Show Advanced Options

### 2. ?? IAX trunk

UI > File Editor > iax.conf > Add Context > ?? ast-1-interconnect????

```
type=friend
host=192.168.1.1
trunk=yes
disallow=all
allow=ulaw
qualify=yes
context=default-ast2
peercontext=default-ast1
```

### 3. ?? Outbound Route

UI > File Editor > extensions.conf > Add Context > ?? trunk\_out????

```
exten=_016.,1,Macro(trunkdial,IAX2/ast-1-interconnect/${EXTEN:3})
```

```
???????????? 016 + ?????????
```

## Q & A

Q: ?? URL ??????????????

A: ?? /etc/http.conf

bindaddr = 0.0.0.0

bindport = 80

prefix =

enablestatic = yes

redirect = / /static/config/index.html

???

>asterisk -rx "http show status"

HTTP Server Status:

Prefix:

Server Enabled and Bound to 0.0.0.0:80

Enabled URI's:

/httpstatus => Asterisk HTTP General Status

/phoneprov/... => Asterisk HTTP Phone Provisioning Tool

/amanager => HTML Manager Event Interface w/Digest authentication

/arawman => Raw HTTP Manager Event Interface w/Digest authentication

/manager => HTML Manager Event Interface

/rawman => Raw HTTP Manager Event Interface

/static/... => Asterisk HTTP Static Delivery

/amxml => XML Manager Event Interface w/Digest authentication

/mxml => XML Manager Event Interface

Enabled Redirects:

/ => /static/config/index.html

Q: ?? Debug ??????????????

A??? config/js/session.js

log: true, /\*\*<boolean toggling logging \*/

?????

- [Developing for the Asterisk GUI](#)