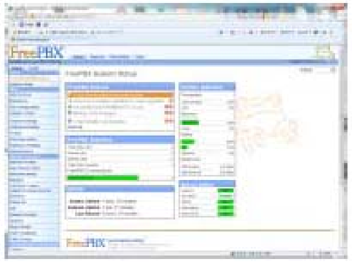


Asterisk Free-PBX

Multi-Port GSM Gateway

High Performance GSM Gateway Solution

Asterisk Free-PBX interworking

AddPac
AP-GS3000

AddPac Technology

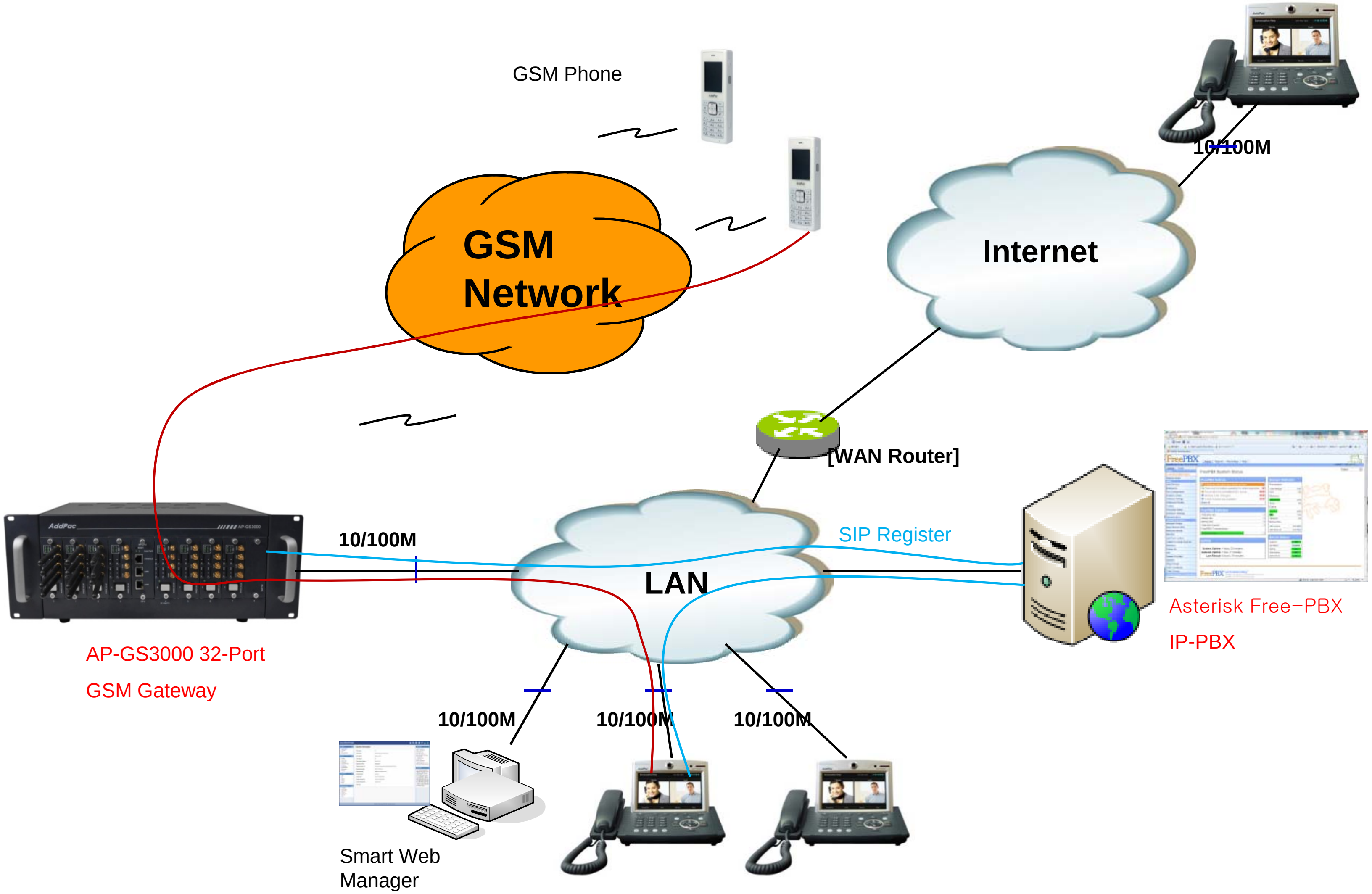
Sales and Marketing

www.addpac.com

Contents

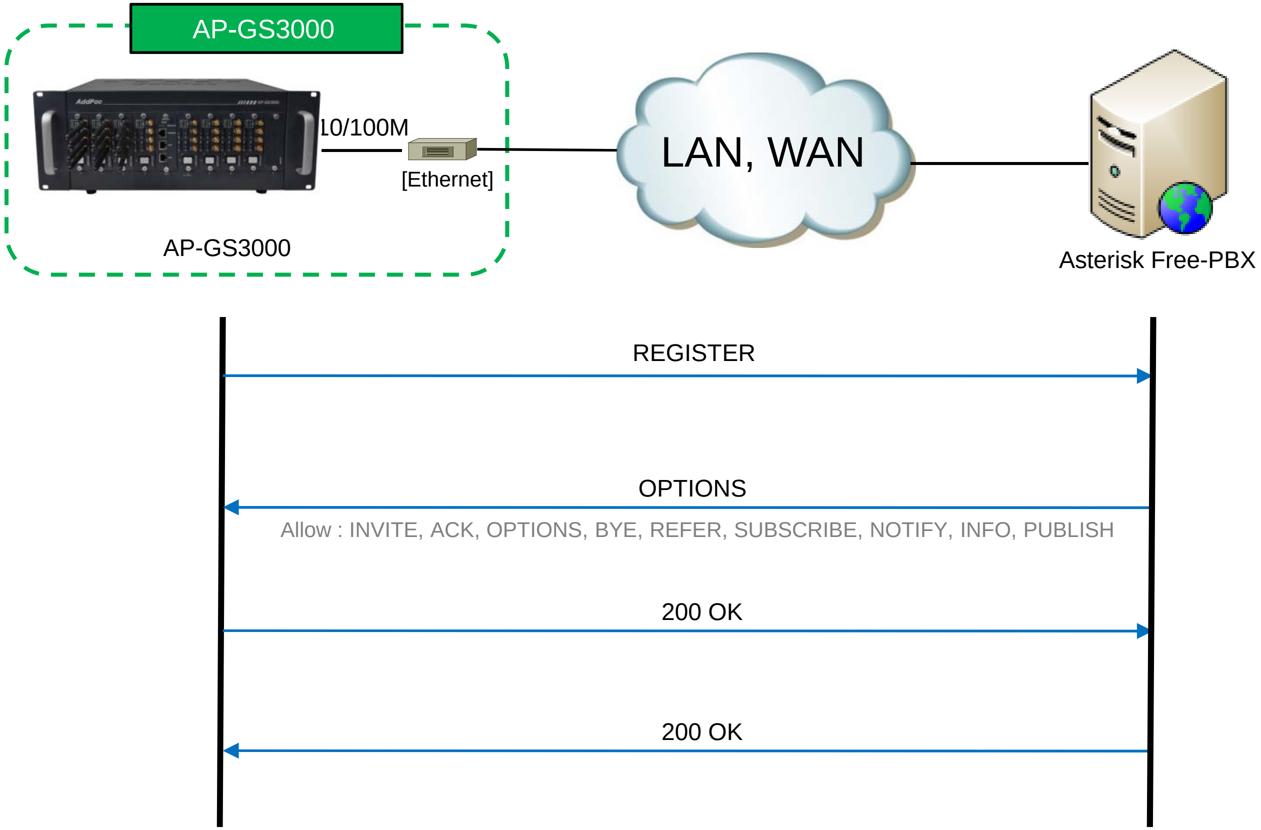
- Asterisk Free-PBX Interworking Network Diagram
- Register to Asterisk Free-PBX
  - SIP Message Flow
  - Asterisk Free-PBX Add Extension
  - GSM Port Register
- Call Flow

Network Diagram


GSM Phone
GSM Network
Internet
10/100M
[WAN Router]
SIP Register
LAN
10/100M
AP-GS3000 32-Port
GSM Gateway
Asterisk Free-PBX
IP-PBX
10/100M
10/100M
10/100M
Smart Web
Manager

SIP Register

SIP Message Flow



AP-GS3000

10/100M

[Ethernet]

AP-GS3000

LAN, WAN

Asterisk Free-PBX

REGISTER

OPTIONS

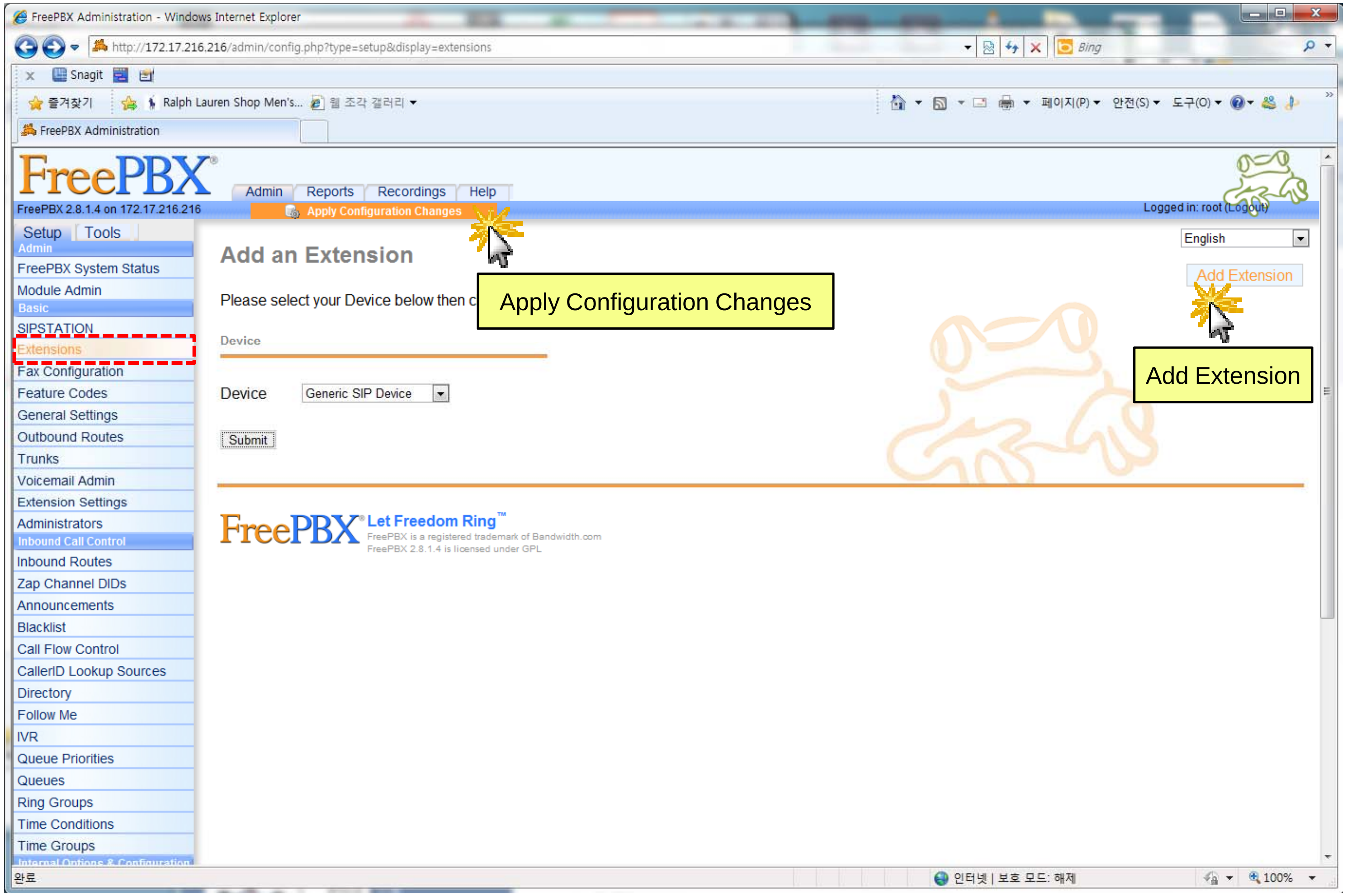
Allow : INVITE, ACK, OPTIONS, BYE, REFER, SUBSCRIBE, NOTIFY, INFO, PUBLISH

200 OK

200 OK

SIP Register

Asterisk Free-PBX Add Extension


FreePBX Administration - Windows Internet Explorer
http://172.17.216.216/admin/config.php?type=setup&display=extensions
FreePBX Administration
FreePBX
FreePBX 2.8.1.4 on 172.17.216.216
Admin
Reports
Recordings
Help
Apply Configuration Changes
Logged in: root (Logout)
Setup
Tools
Admin
FreePBX System Status
Module Admin
Basic
SIPSTATION
Extensions
Fax Configuration
Feature Codes
General Settings
Outbound Routes
Trunks
Voicemail Admin
Extension Settings
Administrators
Inbound Call Control
Inbound Routes
Zap Channel DIDs
Announcements
Blacklist
Call Flow Control
CallerID Lookup Sources
Directory
Follow Me
IVR
Queue Priorities
Queues
Ring Groups
Time Conditions
Time Groups
English
Add Extension
Submit
FreePBX Let Freedom Ring™
FreePBX is a registered trademark of Bandwidth.com
FreePBX 2.8.1.4 is licensed under GPL

Add an Extension

Please select your Device below then c

Device

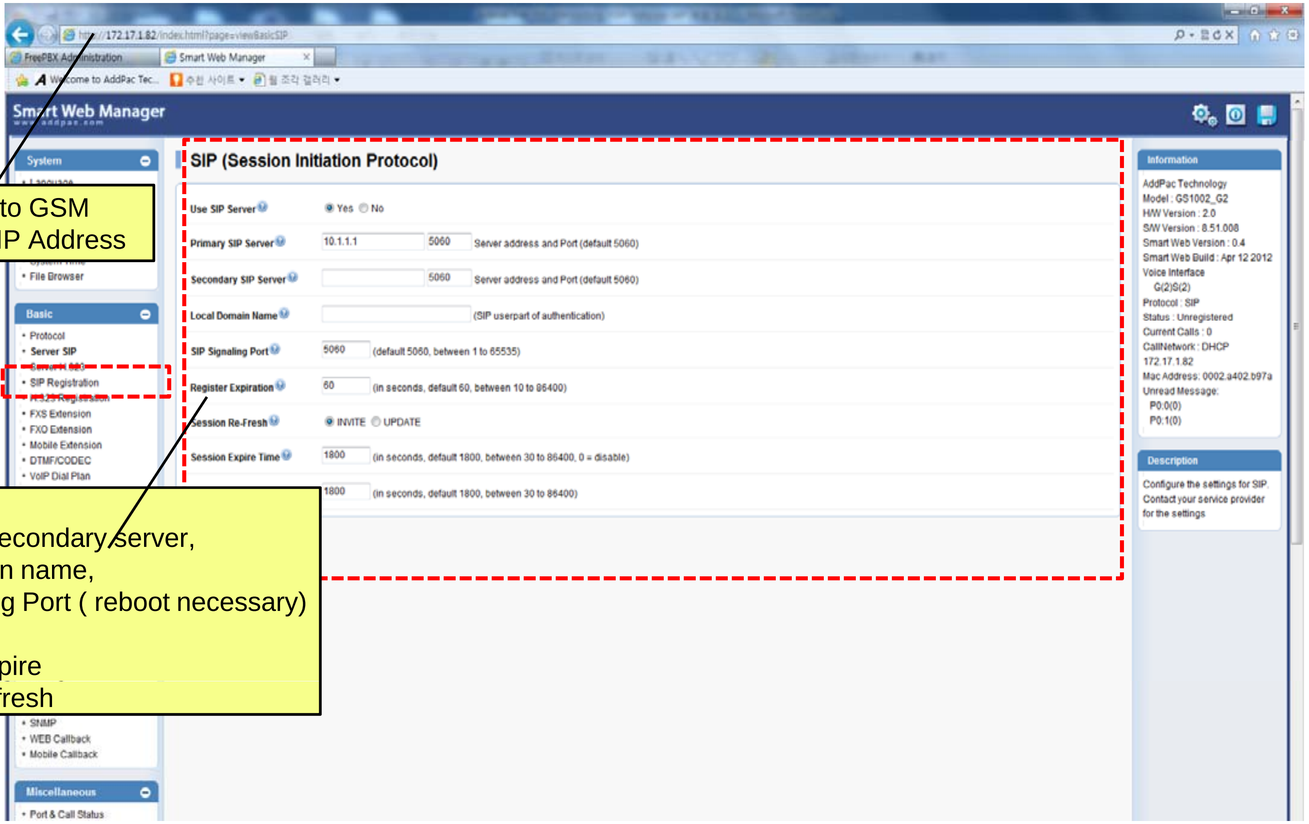
Device: Generic SIP Device

Apply Configuration Changes

Add Extension

SIP Register

GSM Port Register to Asterisk Free-PBX


http://172.17.1.82/index.html?page=viewBasicSIP
FreePBX Administration
Smart Web Manager
Welcome to AddPac Tec...
Smart Web Manager
System
File Browser
Basic
Protocol
Server SIP
SIP Registration
FXS Extension
FXO Extension
Mobile Extension
DTMF/CODEC
VoIP Dial Plan
SNMP
WEB Callback
Mobile Callback
Miscellaneous
Port & Call Status

SIP (Session Initiation Protocol)

Use SIP Server: ● Yes ○ No

Primary SIP Server: 10.1.1.1 5060 Server address and Port (default 5060)

Secondary SIP Server: 5060 Server address and Port (default 5060)

Local Domain Name: (SIP userpart of authentication)

SIP Signaling Port: 5060 (default 5060, between 1 to 65535)

Register Expiration: 60 (in seconds, default 60, between 10 to 86400)

Session Re-Fresh: ● INVITE ○ UPDATE

Session Expire Time: 1800 (in seconds, default 1800, between 30 to 86400, 0 = disable)

1800 (in seconds, default 1800, between 30 to 86400)

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.51.008
Smart Web Version : 0.4
Smart Web Build : Apr 12 2012
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : DHCP
172.17.1.82
Mac Address: 0002.a402.b97a
Unread Message:
P0:0(0)
P0:1(0)

Description

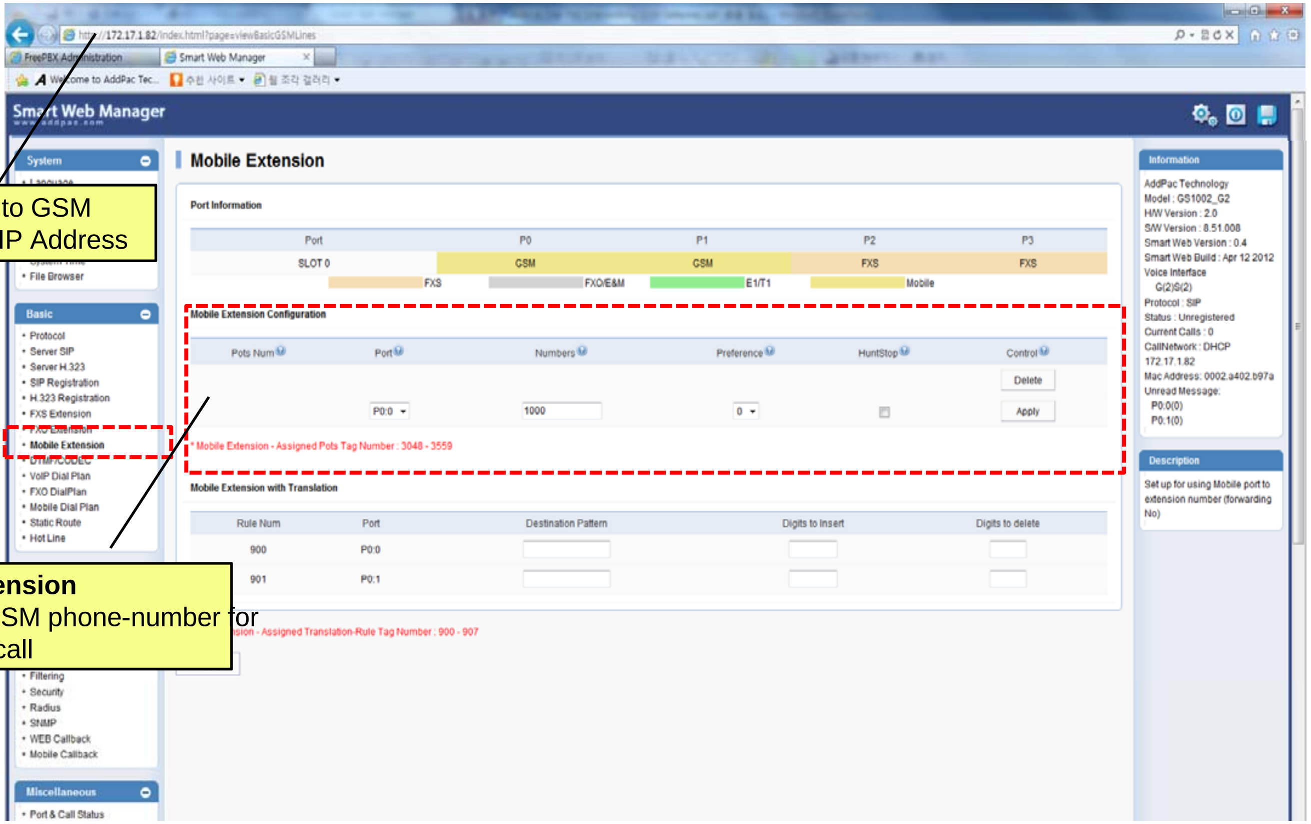
Configure the settings for SIP. Contact your service provider for the settings.

Connect to GSM Gateway's IP Address

SIP Server
Primary & Secondary server,
Local domain name,
SIP Signaling Port (reboot necessary)
Timer
* register expire
* session refresh

SIP Register

GSM Port Register to Asterisk Free-PBX


http://172.17.1.82/index.html?page=viewBasicGSMLines
FreePBX Administration
Smart Web Manager
Welcome to AddPac Tec...
추천 사이트
웹 조각 갤러리
Smart Web Manager
www.addpac.com
System
File Browser
Basic
Protocol
Server SIP
Server H.323
SIP Registration
H.323 Registration
FXS Extension
Mobile Extension
VoIP Dial Plan
FXO DialPlan
Mobile Dial Plan
Static Route
Hot Line
Filtering
Security
Radius
SNMP
WEB Callback
Mobile Callback
Miscellaneous
Port & Call Status
Delete
Apply

Mobile Extension

Port Information

Port	P0	P1	P2	P3
SLOT 0	GSM	GSM	FXS	FXS

🟧 FXS ▨ FXO/E&M 🟩 E1/T1 🟨 Mobile

Mobile Extension Configuration

Pots Num	Port	Numbers	Preference	HuntStop	Control
					Delete
	P0:0	1000	0	☐	Apply

* Mobile Extension - Assigned Pots Tag Number : 3048 - 3559

Mobile Extension with Translation

Rule Num	Port	Destination Pattern	Digits to Insert	Digits to delete
900	P0:0			
901	P0:1			

nsion - Assigned Translation-Rule Tag Number : 900 - 907

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.51.008
Smart Web Version : 0.4
Smart Web Build : Apr 12 2012
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : DHCP
172.17.1.82
Mac Address: 0002.a402.b97a
Unread Message:
P0:0(0)
P0:1(0)

Description

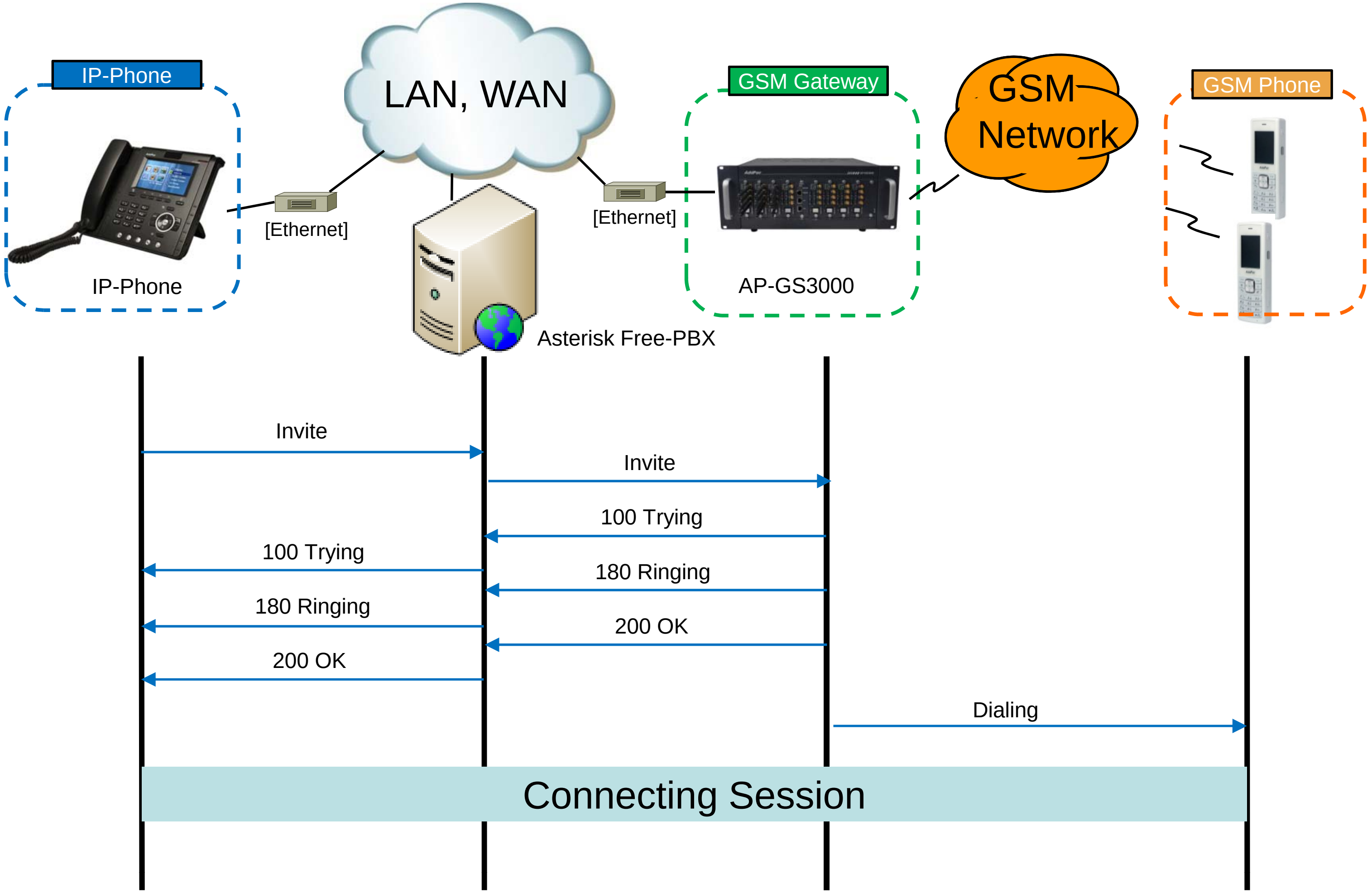
Set up for using Mobile port to extension number (forwarding No)

Connect to GSM Gateway's IP Address

Mobile Extension
Configure GSM phone-number for receiving a call

Call Flow

Asterisk Free-PBX Interworking GSM Gateway


IP-Phone
IP-Phone
[Ethernet]
LAN, WAN
Asterisk Free-PBX
[Ethernet]
GSM Gateway
AP-GS3000
GSM Network
GSM Phone
Invite
Invite
100 Trying
100 Trying
180 Ringing
180 Ringing
200 OK
200 OK
Dialing
Connecting Session

Thank you!

AddPac Technology Co., Ltd.
Sales and Marketing

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E-mail sales@addpac.com