

Multi-SIM SMS Gateway Solution



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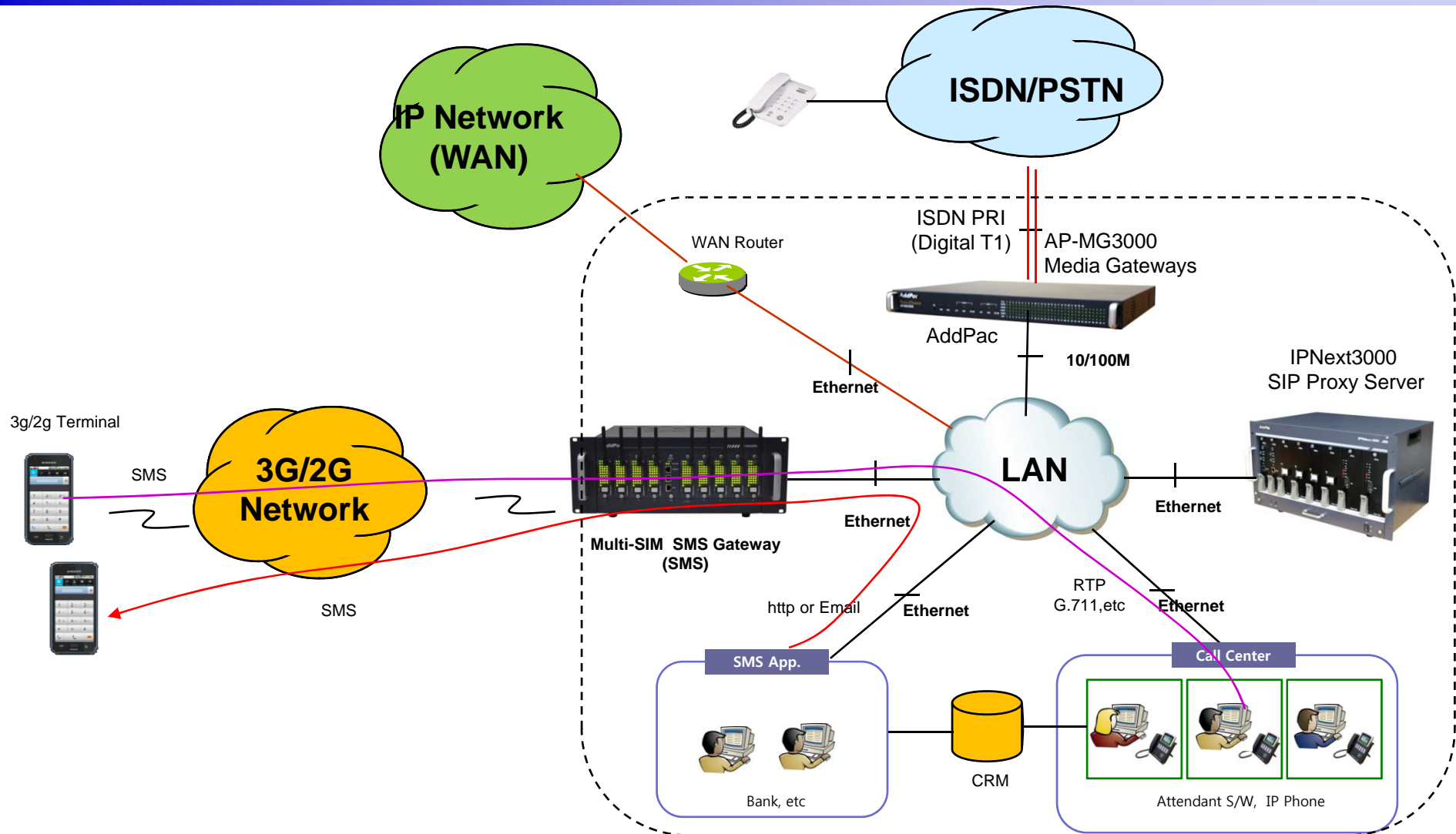
Sales and Marketing

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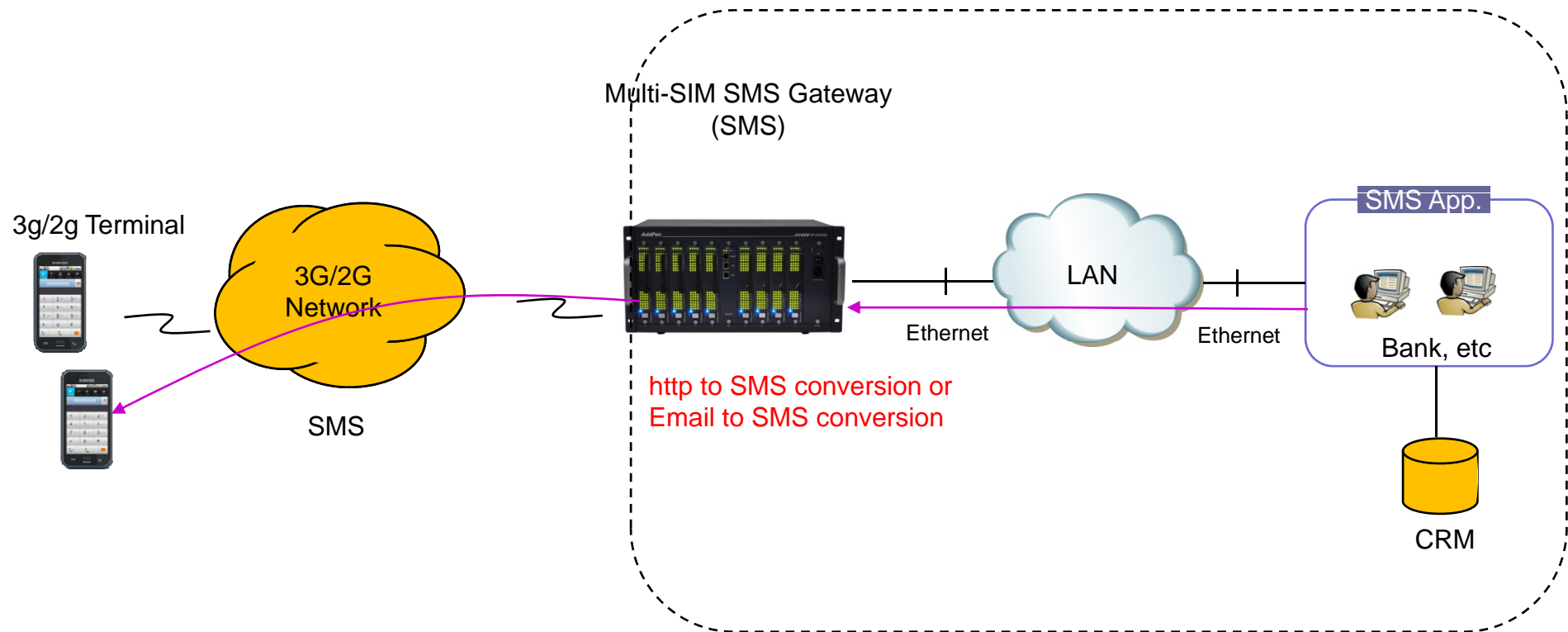
Contents

- Multi-SIM SMS Gateway Service Diagram
- Multi-SIM SMS Gateway Comparison
- Multi-SIM SMS Modules
- Multi-SIM SMS Gateway Series (Recommended Model)
 - AP-GS3000(36ch)
 - AP-GS3300(36ch)
- SMPP(Short Message Peer-to-Peer) Protocol
- Smart Web Manager for SMS Gateway



SMS Gateway Service Diagram



SMS Gateway Service Diagram



Multi-SIM GSM Gateway Comparison Table : recommended model

Model	AP-GS3000	AP-GS3300
		
Available Modules	AP-N1-GSM4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4 AP-N1-E1	AP-N1-E1
Multi-SIM GSM Modules	AP-N1-GSM4S4 AP-N1-GSM4S8	AP-N1-GSM4S16
GSM Channel	Up to 36 Ch.	Up to 36 Ch.
GSM Antenna	One(1) / 4 Channel GSM Module (AP-N1-GSM4)	One(1) / 4 Channel GSM Module (AP-N1-GSM4S16)
Module Slot	Nine(9) Module Slots for GSM	Nine(9) Module Slots for GSM
LAN Port	2	2
Console	1	1
Power	Single PSU	Single PSU(Module)



Multi-SIM GSM Modules

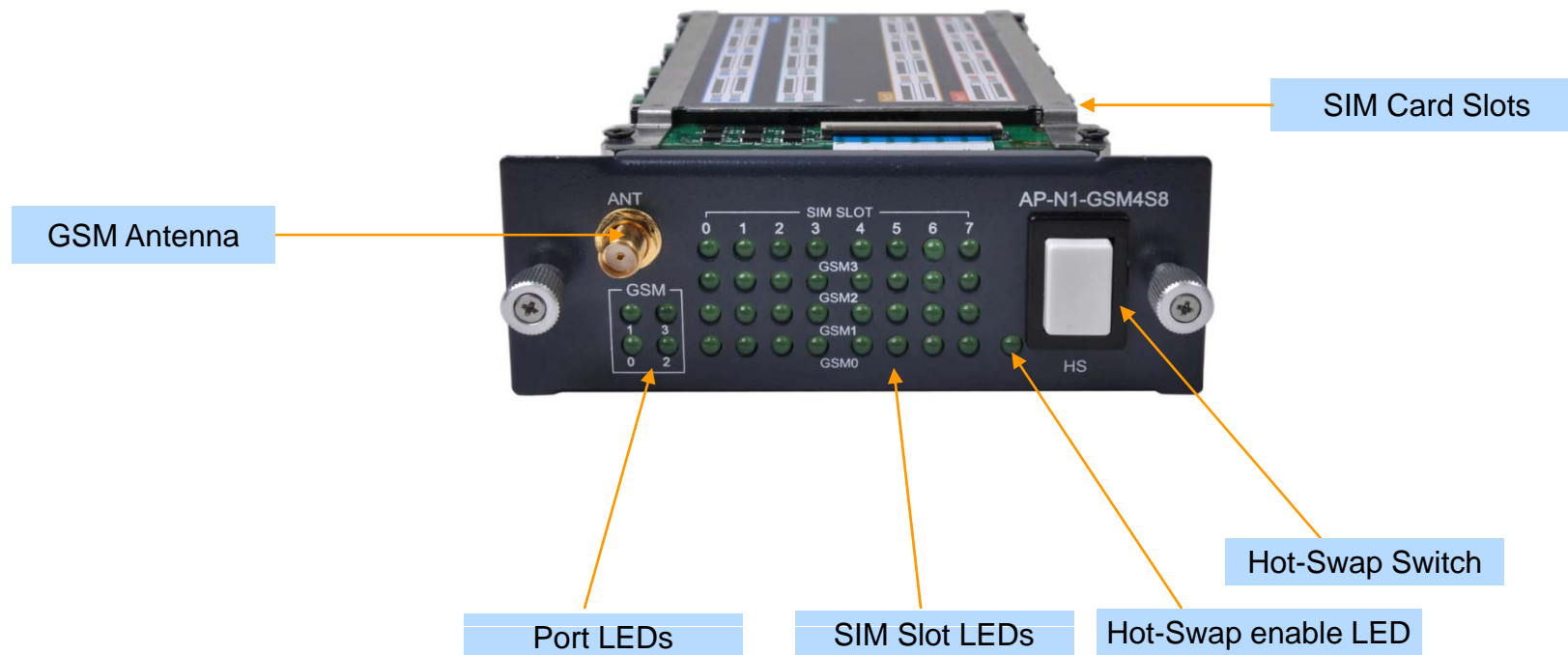
GSM SIM Rotation Modules

Model	AP-N1-GSM4S8	AP-N1-GSM4S16
		
Available Target	AP-GS3000 AP-GS2500	AP-GS3300
GSM Channel	4-Port	4-Port
SIM Card Slots	8 SIM Card Slots/a GSM Port Total = 8 x 4 = 32	16 SIM Card Slots/a GSM Port Total = 16 x 4 = 64
External Antenna	1 (Internal Antenna Combiner)	1 (Internal Antenna Combiner)
Hot-Swap	Support	Support
VoIP Codec	G.711, G.729, G.723.1,etc	G.711, G.729, G.723.1,etc

AP-N1-GSM4S8

Octal(8) SIM Card Slots/GSM Port

AP-N1-GSM4S8
(4-Port GSM Module, 8 SIM Card Slots per a GSM Port)

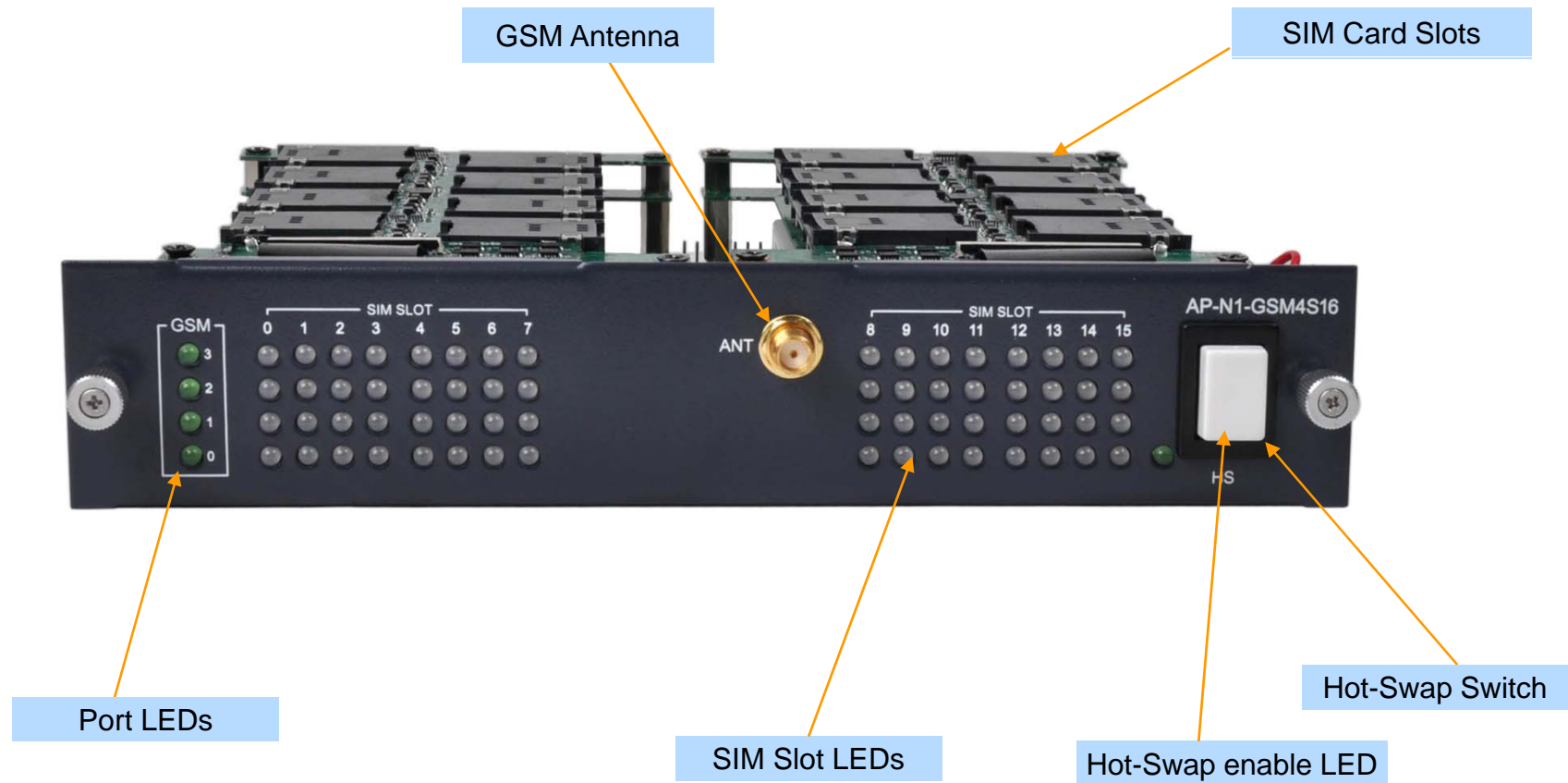


AP-N1-GSM4S16

Sixteen(16) SIM Card Slots/GSM Port

AP-N1-GSM4S16

(4-Port GSM Module, 16 SIM Card Slots per a GSM Port)





Multi-SIM SMS Gateway Series (ex: Recommended Model)



AP-GS3000 Multi-SIM 36-Port SMS Gateway

Main Features

AP-GS3000 Multi-SIM SMS Gateway

- Nine(9) Module Slots for GSM Module, Digital E1 Interface (Up to 36-Port GSM, CPU Module)
- High Density Multi-SIM GSM Module (4-Port GSM, 8SIM/a GSM Port)
- H.323/SIP Dual Concurrent Stack Embedded
- High Performance RISC & Programmable DSP Architecture
- G.711/G.726/G.723/G.729, T.38 Fax , VAD, etc
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Two(2) 10/100Mbps Ethernet Interface
- One(1) RS-232C Port for Command Line Interface
- Firmware Upgradeable Architecture
- NMS(Network Management System) Support
- Advanced Voice QoS Mechanism
- Internal Power Supply
- Smart Web Manager for System Control

Hardware Specification

AP-GS3000 Multi-SIM SMS Gateway

RISC
CPU

High-end
DSP

- RISC Microprocessor Computing Power
- Nine(9) Module Slot for GSM, Digital VoIP Interface
- Up to 288 SIM Card Slots, 32 SIM card slots/ a GSM module
- 4-Port GSM Module(AP-N1-GSM4S8)
 - 4-Port GSM Module
 - 8 SIM Slots / a GSM Port , 32 SIM Slots / a Module
 - Single GSM Antenna Interface (Internal 4 Channel Antenna Combiner x 1)
 - Hot-Swap
- VoIP Interface Module (Hot-Swap)
 - 8-Port FXS Module (AP-N1-FXS8), 8-Port FXO Module (AP-N1-FXO8)
 - 1-Port Digital E1/T1 Module (AP-N1-E1)
- Network Interface
 - Two(2) 10/100Mbps Fast Ethernet (RJ45)
- RS232C Console Interface for CLI
- Run LED, LAN LED, Port LEDs
- Internal Power Supply

Hardware Specification

AP-GS3000 Multi-SIM SMS Gateway

RISC
CPU

High-end
DSP

Front Side View

GSM Antenna
Internal 4Ch Combiner

GSM Port LEDs



SIM Status LEDs

CPU Module

8SIM 4-Port GSM Module

Hot-Swap Switch

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Hardware Specification

AP-GS3000 Multi-SIM SMS Gateway

RISC
CPU

High-end
DSP

Back Side View



GND

Power Input

Power Switch



AP-GS3300 Multi-SIM 36-Port SMS Gateway

Main Features

AP-GS3300 Multi-SIM SMS Gateway

- Nine(9) Module Slots for GSM Module, Digital E1 Interface (Up to 36-Port GSM, CPU Module)
- Very High Density Multi-SIM GSM Module (4-Port GSM, 16SIM/GSM Port)
- H.323/SIP Dual Concurrent Stack Embedded
- High Performance RISC & Programmable DSP Architecture
- G.711/G.726/G.723/G.729, T.38 Fax , VAD, etc
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- 10/100/1000Mbps Gigabit Ethernet Interface
- One(1) RS-232C Port for Command Line Interface
- Firmware Upgradeable Architecture
- NMS(Network Management System) Support
- Advanced Voice QoS Mechanism
- Rack Mountable Chassis with Internal Power Supply
- Smart Web Manager for System Control

Hardware Specification

AP-GS3300 Multi-SIM SMS Gateway

RISC
CPU

High-end
DSP

- RISC Microprocessor Computing Power
- Nine(9) Module Slot for GSM, Digital VoIP Interface
- Up to 576 SIM Card Slots, 64 SIM card slots/ a GSM module
- 4-Port GSM Module(AP-N1-GSM4S16)
 - 4-Port GSM Module
 - 16 SIM Slots / a GSM Port , 64 SIM Slots / a Module
 - Single GSM Antenna Interface (Internal 4 Channel Antenna Combiner x 1)
 - Hot-Swap
- VoIP Interface Module (Hot-Swap)
 - 1-Port Digital E1/T1 Module (AP-N1-E1)
- Network Interface
 - Two(2) 10/100/1000Mbps Gigabit Ethernet (RJ45)
- RS232C Console Interface for CLI
- Run LED, LAN LED, Port LEDs
- Module Type Power Supply

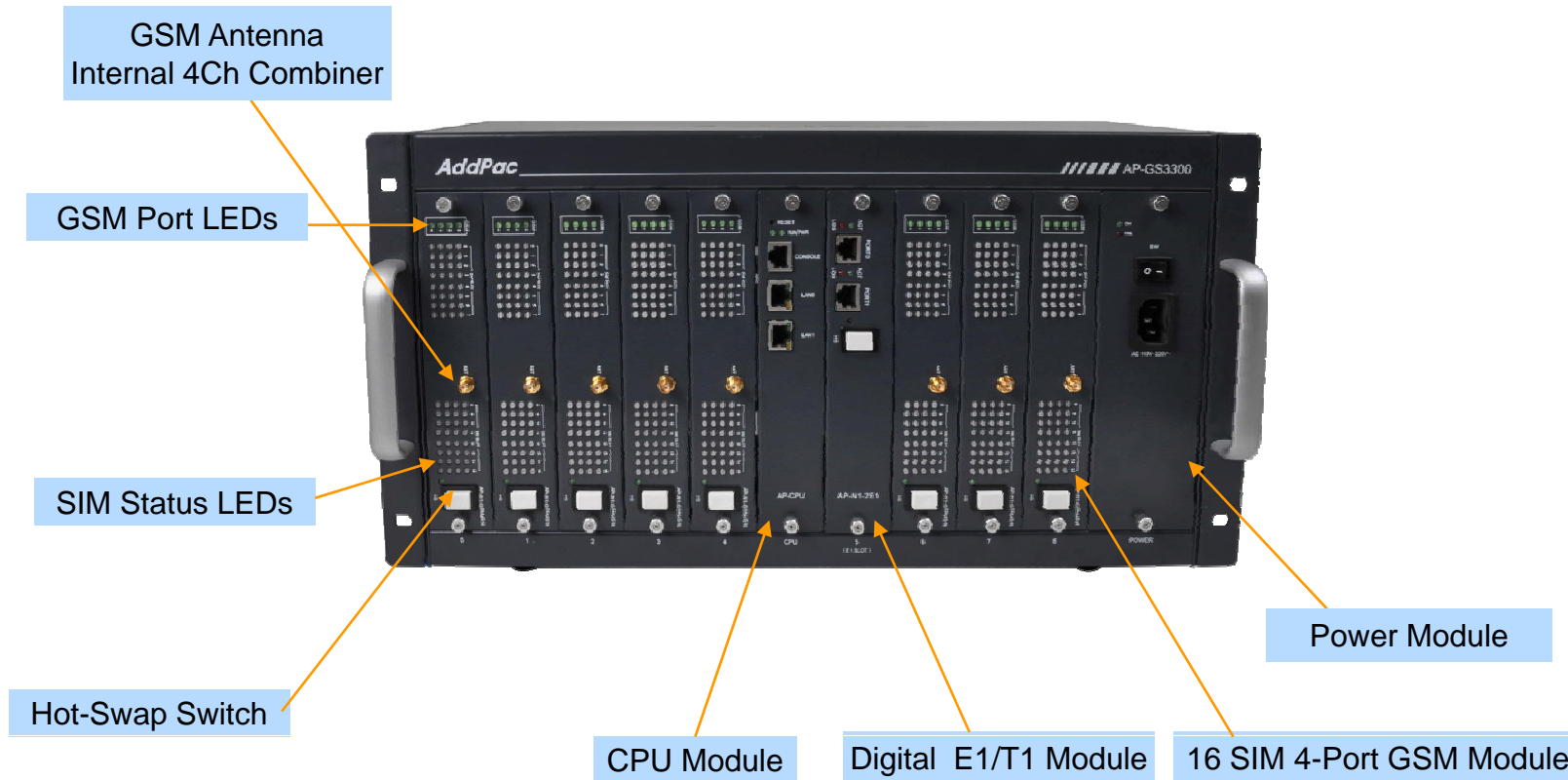
Hardware Specification

AP-GS3300 Multi-SIM SMS Gateway

RISC
CPU

High-end
DSP

Front Side View



Hardware Specification

AP-GS3300 Multi-SIM SMS Gateway

RISC
CPU

High-end
DSP

Back Side View





SMPP(Short Message Peer-to-Peer) Protocol

Contents

- SMPP (Short Message Peer-to-Peer) Protocol ?
- SMPP History
- SMPP Target Application
- SMPP Protocol Overview
- SMPP Session
- SMPP PDU Format
- SMPP Command Length, ID

SMPP Protocol ?

The Short Message Peer-to-Peer(SMPP) protocol is an open, industry standard protocol designed to provide a flexible data communications interface for transfer of short message data between a Message Center.

SMPP Protocol History

- Now is open protocol – SMS Forum
- Widely used
- SMPP version
 - SMPP v3.3 (developed by Aldiscon)
 - SMPP v4.0 (developed by Logica)
 - **SMPP v3.4 (SMPP Developer Forums – Open Protocol)**
 - SMPP v5.0 (SMS Forum)

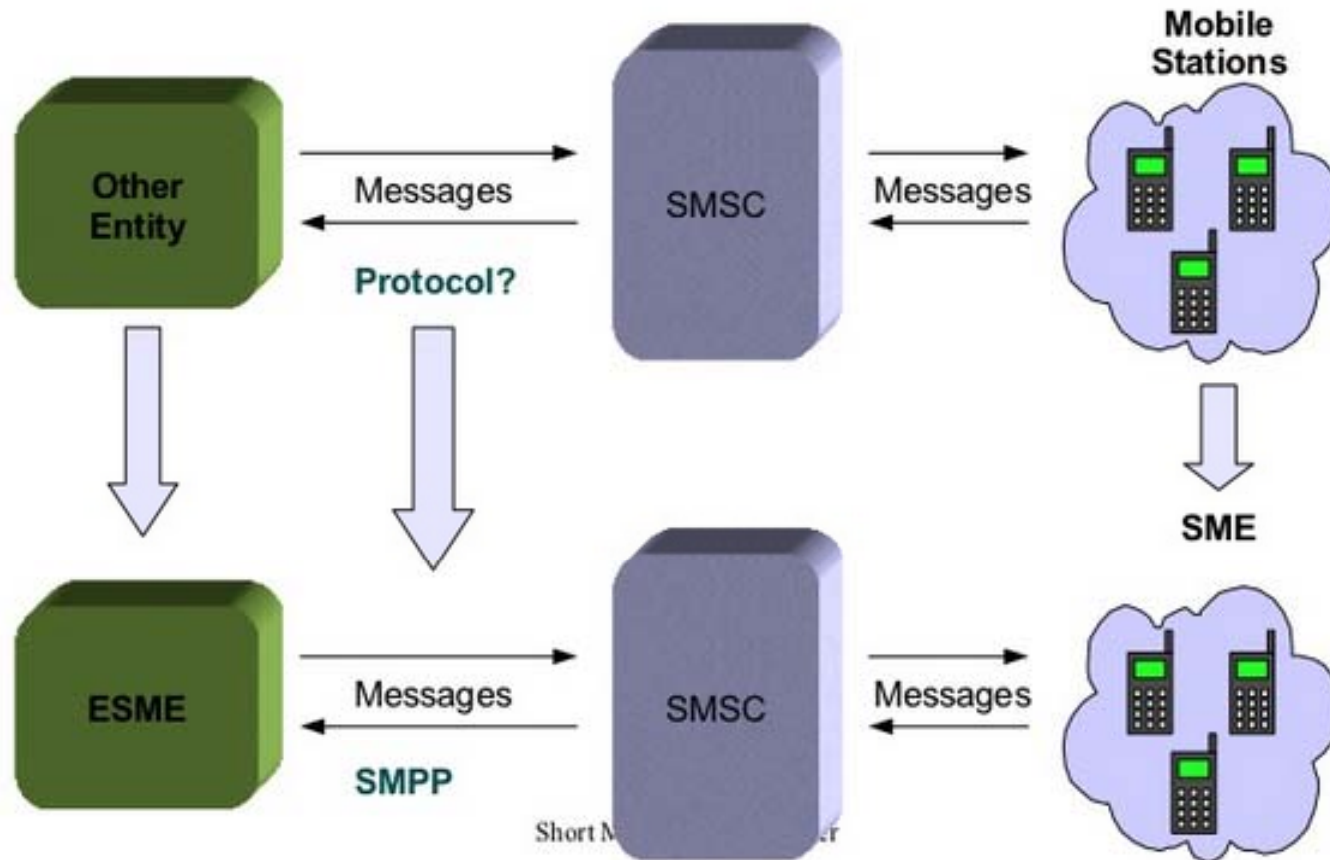
SMPP Target Application

- Mobile Commerce
- Mobile Banking
- E-Mail Gateway
- Information Service
- Notification/Security Application
- Cell Broadcast
- Directory Service
- Telemetry Application
- **SMS Chat**
- Polling Application
- Gaming/Quiz

SMPP Protocol Overview

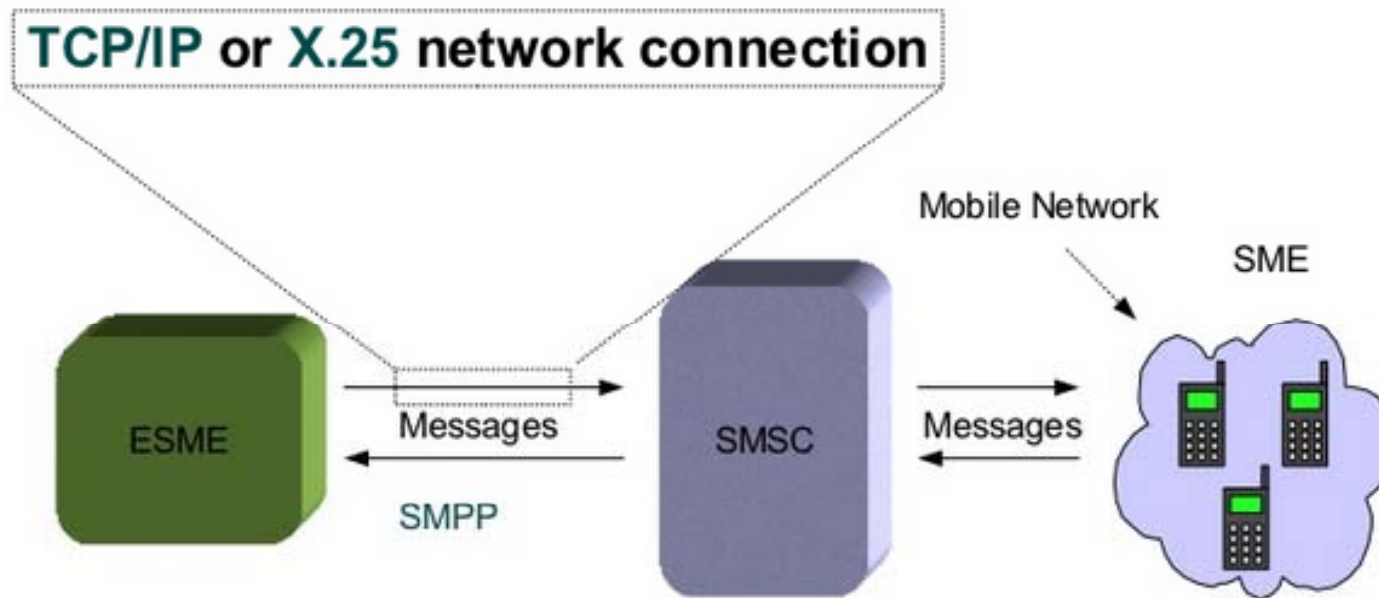
- Based on request and response
- The SMPP protocol defines
 - Set of operations and Protocol Data Units(PUDs)
 - Data

SMPP Protocol Overview



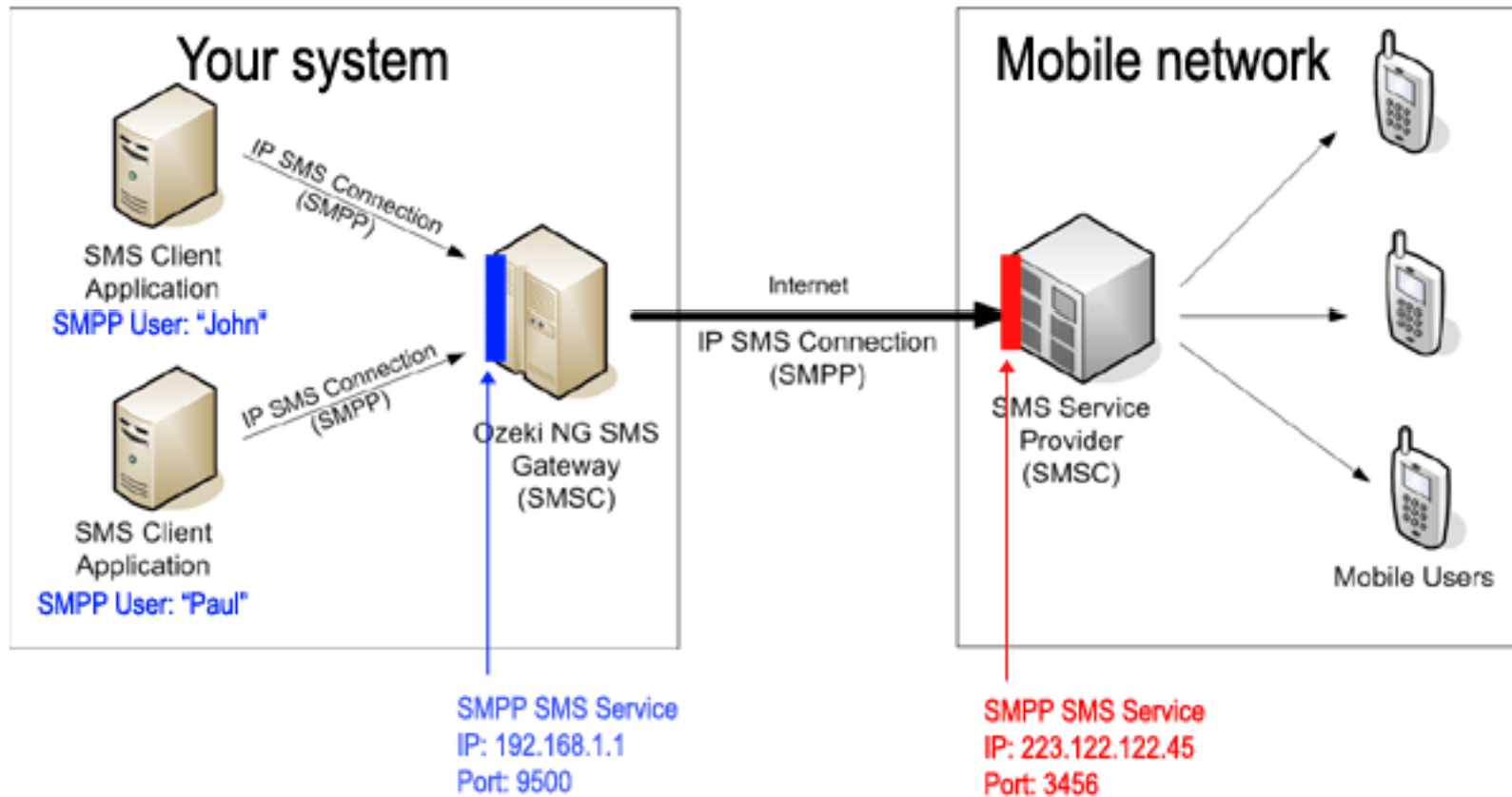
- **SMSC (Short Message Service Center)** : Route the message to ESME
- **ESME (External Short Message Entity)** : Mobile phone or other device

SMPP Protocol Overview



- **SMSC (Short Message Service Center)** : Route the message to ESME
- **ESME (External Short Message Entity)** : Mobile phone or other device

SMPP Protocol Overview



SMPP Session

- Session State :
 - OPEN (Network connection established)
 - BOUND_TX (issuing a bind_transmitter)
 - BOUND_RX (issuing a bind_receiver)
 - BOUND_TRX (issuing a bind_transceiver)
 - UNBOUND (only on SMPP v5.0)
 - CLOSED (Network connection closed)

SMPP PDU Format

SMPP PDU starts with a header, followed by a body:

SMPP PDU				
PDU Header (mandatory)				PDU Body (Optional)
Command length	Command Id	Command Status	Sequence Id	PDU Body
4 octets	Length = (Command Length value - 4) octets			

PDU Header [\[edit\]](#)

Each PDU starts with a header. The header consists of 4 fields, each of length of 4 octets:

- `command_length`: Is the overall length of the PDU in octets (including `command_length` field itself); must be ≥ 16 as each PDU must contain the 16 octet header
- `command_id`: Identifies the SMPP operation (or command)
- `command_status`: Has always value of 0 in requests; in responses it carries information about the result of the operation
- `sequence_number`: Is used to correlate requests and responses within an SMPP session; allows asynchronous communication (windowing)

All numeric fields in SMPP use the [big endian](#) order, which means that the first octet is the Most Significant Byte (MSB).

SMPP PDU Format

SMPP PDU				
PDU Header (Mandatory)				PDU Body (Optional)
<i>command length</i>	<i>command id</i>	<i>command status</i>	<i>sequence number</i>	<i>PDU Body</i>
4 octets	Length = (Command Length value - 4) octets			

- Protocol Data Units
- Set of bytes
- 8 bit = 1 byte = 1 octet
- PDU Header always mandatory

SMPP Command Length

SMPP PDU				
PDU Header (Mandatory)				PDU Body (Optional)
<i>command length</i>	<i>command id</i>	<i>command status</i>	<i>sequence number</i>	<i>PDU Body</i>
4 octets	Length = (Command Length value - 4) octets			

- Represent whole bytes length of the SMPP command

SMPP Command ID

SMPP PDU				
PDU Header (Mandatory)				PDU Body (Optional)
<i>command length</i>	<i>command id</i>	<i>command status</i>	<i>sequence number</i>	<i>PDU Body</i>
4 octets	Length = (Command Length value - 4) octets			

- Unique command identifier
 - bind_transmitter, bind_transmitter_resp
 - submit_sm, submit_sm_resp
- Request 0x00000001 having response 0x80000001

Short Message Peer-to-Peer

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Smart Web Manager for SMS Gateway

Contents

- Main Page Layout
- System Configuration
 - Network Setup, Language, NAT, PPTP, NTP
- Basic Configuration
 - Protocol, SIP Server , FXS Extension, GSM Extension
 - DTMF/CODEC, VoIP Dial Plan, GSM Dial Plan, Static Routing, Hot Line
- Advanced Configuration
 - Gain/CID, GSM PINs, FAX, Service, Filtering, Security
 - GSM Web Callback, GSM Callback
- Miscellaneous Configuration
 - Call Status, System Status, Alarm Status, GSM Status
 - Call Log, System Log, Ping, BTS Selection, GSM BTS Info
- LCR(Least Cost Routing)
 - Black & White List, Time Interval, Tariff Group, LCR Test
- SMS
 - Inbox, SMS New Message

Main Page Layout

Main Menu
For easy system setup, provide the various menu and category

Tool Bar
Provide frequently used tools like as System Update, Configuration Backup, Initialization, Restart, Telnet

Information
Display the current system version and status summary

Description
Display the help message if you move mouse over main menu

Workspace
Workspace for detailed action

System Information

H/W Version	2.0
SW Version	8.00d
MAC Address	0002.a400.0000
VoIP Protocol	SIP
Voice Interface Module	G(2)S(2)
Registration Status	Registered
Supported Codec List	
Network Information	Static 172.16.9.16
WAN LINK Status	100Mbps FULL Duplex Link UP
LAN LINK Status	Link Down
Current Time	Fri Jan 1 01:49:57 2010
System Startup Time	Fri Jan 1 00:00:00 2010
	0 days 01:49:57
	0

System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

- Protocol
- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line

Advanced

- Gain & CID
- GSM PINs
- Fax
- Service
- Filtering
- Security
- SNMP
- WEB Callback
- GSM Callback

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Registered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

System – Network Setup

The screenshot shows the 'Network Setup' page in the Smart Web Manager interface. The page is divided into several sections, each with a radio button for selection. The 'Static IP' section is currently selected. The 'Information' panel on the right provides system details, and the 'Description' panel at the bottom right explains the WAN link configuration.

Host Name
Create a representative name for the site to be installed

Static IP
This is static IP mode. Specify the addressed IP from the service provider

PPPoE
This is ADSL mode. This mode is used for addressing IP though authentication from the modem. At this time, the modem must be configured in a way that the device can be authenticated.

DHCP
This is dynamic IP mode which is set at default. The IP can be addressed from the external DHCP server.

VLAN
Configure VLAN mode and ID.

WAN Link
Controls and recognizes WAN port. Specify the connection speed of WAN port. connection automatically.

MAC
Change MAC address of WAN interface. Without address entry, use the basic MAC Address.

Network Setup

Hostname: GS1002

Static IP

IP Address: 172.16.9.16 (A.B.C.D)

Network Mask: 255.255.0.0 (A.B.C.D)

Default Router: 172.16.1.1 (A.B.C.D)

DNS Server: [] Primary DNS Server

[] Secondary DNS Server

PPPoE(ADSL)

Username: []

Password: []

DHCP

VLAN

ID: [0]

Auto

Speed: 100 10

Duplex: full half

Manual

MAC(Hardware) Address: []-[]-[]-[]-[]-[]

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Registered
CurrentCalls : 0 Call
Network : Static 172.16.9.16
Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

This command sets up WAN port. The static IP address is to be assigned to the WAN port. The static IP address can be changed. MAC Address change can be used only when necessary. It is recommended to use the address created by the user not the address of the device

UnRead SMS Messages

System - Language

Smart Web Manager
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System

- Network Setup
- NTP

Basic

- Protocol
- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line

Advanced

- Gain & CID
- GSM PINs

Configure Language

한국어

English

Apply

Information

AddPac Technology
Model : GS1002_G2
HW Version : 2.0
SW Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Registered
CurrentCalls : 0 Call
Network : Static 172.16.9.16
Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Choose the basic language to be applied. English is set at default.

Configure Language
English, Korea

System - NAT

Smart Web Manager
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System

- Network Setup
- Language
- NAT**
- PPTP
- NTP

Basic

- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line

Advanced

- Gain & CID
- GSM PINs
- Fax
- Service
- Filtering
- Security

NAT Static Table

IP Protocol	Global Port	Local Address	Local Port	Control
tcp	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

When many PCs are connected to LAN, create a table for delivering TCP/UDP port to PC.

NAT Static Table
When many PCs are connected to LAN, create a table for delivering TCP/UDP port to PC

System - PPTP

The screenshot shows the 'Smart Web Manager' interface for configuring PPTP. The main content area is titled 'Tunneling' and contains three sections: 'Mode', 'Source & Destination', and 'Service'. Three yellow callout boxes provide additional context:

- Tunneling Mode:** Configure Tunneling mode. This points to the 'Mode' section where 'None(Disable Tunneling, default)' is selected.
- Tunneling source & destination:** Source LAN port & destination IP. This points to the 'Source' dropdown (FastEthernet0/0) and the 'Destination' text input field.
- Tunneling Service:** Service mode. This points to the 'Service' section where 'Voice and Data Use Tunnel Interface (default)' is selected.

The 'Information' sidebar on the right provides system details:

- AddPac Technology
- Model : GS1002_G2
- H/W Version : 2.0
- S/W Version : 8.00d
- Smart Web Version : 0.4
- Smart Web Build : Mar 24 2010
- Voice Interface: G(2)S(2)
- Protocol : SIP
- Status : Unregistered
- CurrentCalls : 0 Call
- Network : Static 172.16.9.16
- Mac Address : 0002.a400.0000
- Unread Message: P0:0(0), P0:1(0)

System - NTP

System

- Network Setup
- Language
- NAT
- PPTP
- **NTP**

Basic

- Protocol
- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route

NTP

Enable Disable

Primary Server (Domain Name or IP Address)

Secondary Server (Domain Name or IP Address)

Interval (1~72 hours)

Hours Offset : (-23~23 hours) : (0~60 minute)

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

NTP
Configure NTP server (s) & Options

Basic - Protocol

Smart Web Manager
www.addpac.com

System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

- Protocol**
- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line

Advanced

- Gain & CID
- GSM PINs
- Fax
- Service
- Filtering
- Security
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

- Call Status
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM BTS Info

Protocol

SIP(Session Initiation Protocol)

Apply

Configure VoIP signaling protocol SIP , H.323 (optional)

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Configure the settings of the protocol to be used for VoIP communication

Basic – SIP Server

Smart Web Manager
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SIP (Session Initiation Protocol)

Use SIP Server Yes No

Primary SIP Server Server address (IP or Domain Name) and Port (default 5060)

Secondary SIP Server Server address (IP or Domain Name) and Port (default 5060)

Local Domain name (SIP userpart of authentication)

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

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

Session Re-Fresh INVITE UPDATE

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

Apply

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

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls : 0 Call
Network : Static 172.16.9.16
Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

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

Basic – FXS Extension

Smart Web Manager
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System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

- Protocol
- Server SIP
- SIP Registration
- **FXS Extension**
- GSM Extension

Advanced

- Gain & CID
- GSM PINs
- Fax
- Service
- Filtering
- Security
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

- Call Status
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM BTS Info

FXS Extension

Port Information

Port	P0	P1	P2	P3
SLOT0	GSM	GSM	FXS	FXS

FXS Extension Configuration

Index	Port	Numbers	Preference	HuntStop	Select
0	0/2	1234	0	0	<input type="checkbox"/>

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

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

Port Information
voice port type & physical port

FXS Extension
Configure phone-number for using inter-office Preference (0 : highest)

Basic – GSM Extension

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System

- Network Setup
- Language
- NAT
- PPTP

System

- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension**

Advanced

- Gain & CID
- GSM PINs
- Fax
- Service
- Filtering
- Security
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

- Call Status
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM BTS Info

GSM Extension

Port Information

Port	P0	P1	P2	P3
SLOT0	GSM	GSM	FXS	FXS

GSM Extension Configuration

Index	Port	Numbers	Preference	HuntStop	Select
0	0/0	T	0	X	<input type="checkbox"/>

GSM Extension with Translation

Port	Destination Pattern	Digits to Insert	Number of Digits to Delete
P0:0	33	8	1
P0:1			0

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls : 0 Call
Network : Static 172.16.9.16
Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

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

Port Information
voice port type & physical port

GSM Extension
Configure GSM phone-number for receiving a call (usually 'T' is used for each port)

GSM Extension with Translation
Used to GSM callback

- The Received CID is not real serving number.
- The specified translation rule is applied.

Basic – DTMF/CODEC

CODEC
Configure voice codec preference
(g711a, g711u, g729, g7231, g726)

DTMF
Configure DTMF relay method
(in-band, RFC2833, out-of-band, CISCO type out-of-band)

Smart Web Manager
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System

- Network Setup
- Language

Basic

- Protocol
- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension
- **DTMF/CODEC**
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line

Advanced

- Gain & CID
- GSM PINs
- Fax
- Service
- Filtering
- Security
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

- Call Status
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM BTS Info

DTMF/CODEC

Voice CODEC

Preference 1	None
Preference 2	None
Preference 3	None
Preference 4	None
Preference 5	None
Preference 6	None

DTMF Relay mode

- DTMF relay by In-band voice
- DTMF relay by RTP payload defined by RFC 2833
- DTMF relay by Out-of-band signal
- DTMF relay by Cisco out-of-band signal

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Configure the settings for GSM Dial Plan and Prefix table

Basic – VoIP Dial Plan

VoIP PLAN

Configure translation rule for VOIP Peer.
- first, 'Number of Digits to Delete' option is applied.

- second, 'Digits to Insert' option is applied.

(ex) Origin called Number = 123456
Number of Digits to Delete = 2
Digits to Insert = "88"

result = 883456

The screenshot shows the Smart Web Manager interface for configuring VoIP Dial Plan / Prefix. The interface includes a left sidebar with navigation menus for System and Miscellaneous. The main content area is titled 'VoIP Dial Plan / Prefix' and contains two tables: 'Plan Table' and 'Prefix Table'. The 'Plan Table' has columns for Index, Digits to Insert, Number of Digits to Delete, Digit Pattern, and Control. The 'Prefix Table' has columns for Index, Prefix, PlanIndex, and Control. Both tables have 'Delete' and 'Add' buttons. The 'Prefix Table' also has an 'Apply' button. The right sidebar contains 'Information' and 'Description' sections.

Index	Digits to Insert	Number of Digits to Delete	Digit Pattern	Control
0	2	0	T	<input type="checkbox"/>

Index	Prefix	PlanIndex	Control
0	T	2	<input type="checkbox"/>

Prefix Table

Configure VoIP Peer with translation rule.
(Serviced by SIP SERVER)

Basic – GSM Dial Plan

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GSM Dial Plan / Prefix

Port Information

Port	P0	P1	P2	P3
SLOT0	GSM	GSM	FXS	FXS

Plan Table

Index	Digits to Insert	Number of Digits to Delete	Digit Pattern	Control
0	1	1	2T	<input type="checkbox"/>

Prefix Table

Index	Prefix	2nd Prefix	PlanIndex	Slot/Port	Control
0	33	2T	0	0/0	<input type="checkbox"/>

Information

AddPac Technology
Model : GS1002_G2
HW Version : 2.0
SW Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls : 0 Call
Network : Static 172.16.9.16
Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Hot Line Setup

System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Miscellaneous

- Call Status
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM BTS Info

WEB Callback

- WEB Callback
- GSM Callback

VoIP PLAN
Configure translation rule for GSM Peer.
- first, 'Number of Digits to Delete' option is applied.
- second, 'Digits to Insert' option is applied.

(ex) Origin called Number = 123456
Number of Digits to Delete = 2
Digits to Insert = "88"

result = 883456

Port Information
voice port type & physical port

Prefix Table
Configure GSM Peer with translation rule.

Basic – Static Route

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System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

- Protocol
- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- **Static Route**
- Hot Line

Advanced

- Gain & CID
- GSM PINs
- Fax
- Service
- Filtering
- Security
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

- Call Status
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM RTS Info

Static Route

Set Remote Site Call(5-digit number is set to begin *2->*2...)

No	Remote Site IP	Prefix	Insert Digit	Delete Digit	Name of Remote Site	Answer Addr	Control
0	172.16.1.1	2...	172.16.9.16	0	Factory	T	<input type="checkbox"/>

*

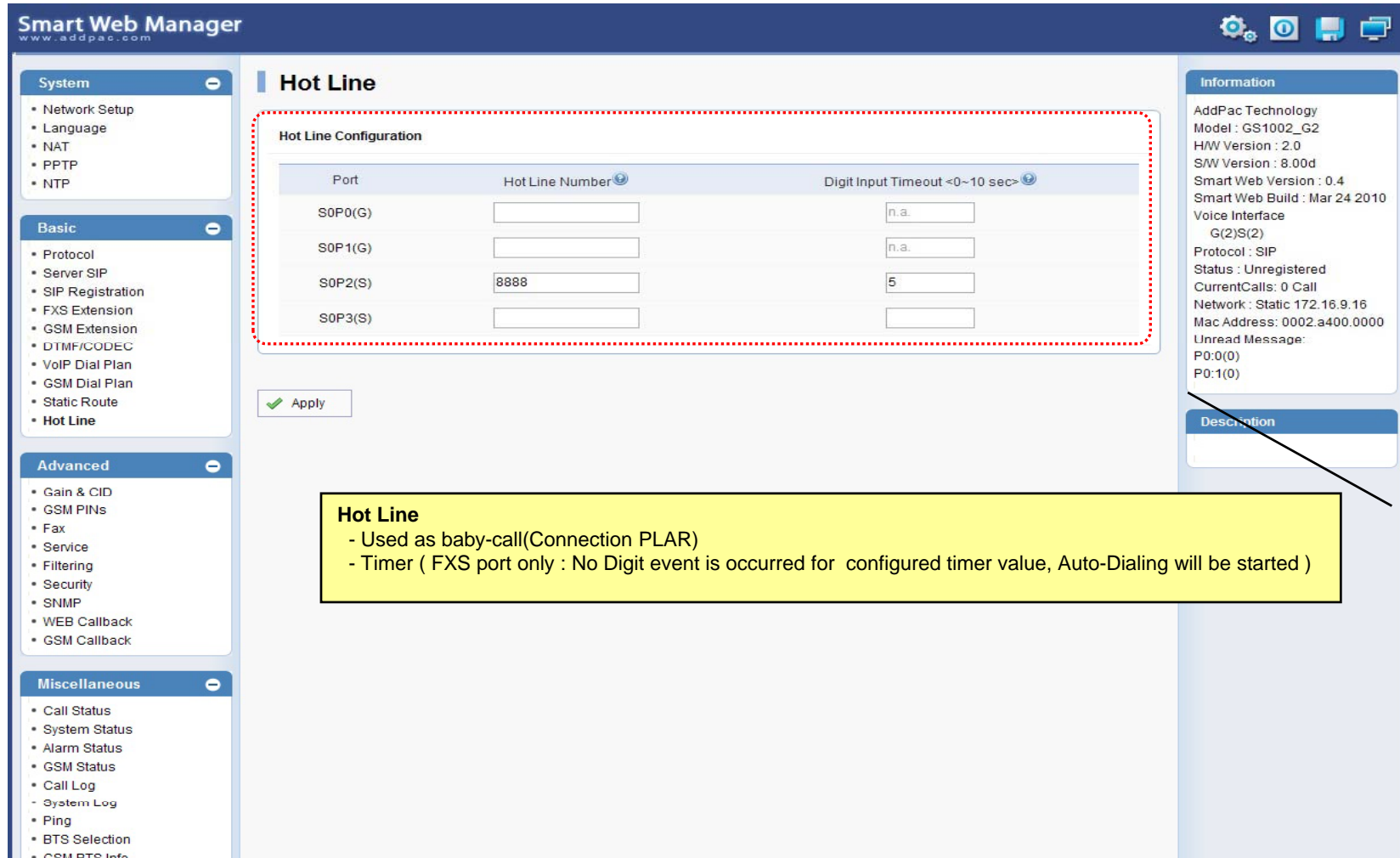
Static Route
Configure Static VoIP Peer for using Inter-Office .
(Already, I know IP & phone-number)

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls : 0 Call
Network : Static 172.16.9.16
Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Basic – Hot Line



The screenshot shows the 'Hot Line' configuration page in the Smart Web Manager. The page is divided into several sections:

- System:** Network Setup, Language, NAT, PPTP, NTP.
- Basic:** Protocol, Server SIP, SIP Registration, FXS Extension, GSM Extension, DTMF/CODEC, VoIP Dial Plan, GSM Dial Plan, Static Route, **Hot Line**.
- Advanced:** Gain & CID, GSM PINs, Fax, Service, Filtering, Security, SNMP, WEB Callback, GSM Callback.
- Miscellaneous:** Call Status, System Status, Alarm Status, GSM Status, Call Log, System Log, Ping, BTS Selection, GSM BTS Info.

The main configuration area is titled 'Hot Line Configuration' and contains a table with the following data:

Port	Hot Line Number	Digit Input Timeout <0~10 sec>
S0P0(G)	<input type="text"/>	n.a.
S0P1(G)	<input type="text"/>	n.a.
S0P2(S)	8888	5
S0P3(S)	<input type="text"/>	<input type="text"/>

Below the table is an 'Apply' button with a green checkmark icon.

The right sidebar contains 'Information' and 'Description' sections. The 'Information' section lists system details such as AddPac Technology, Model: GS1002_G2, H/W Version: 2.0, S/W Version: 8.00d, Smart Web Version: 0.4, Smart Web Build: Mar 24 2010, Voice Interface G(2)S(2), Protocol: SIP, Status: Unregistered, CurrentCalls: 0 Call, Network: Static 172.16.9.16, Mac Address: 0002.a400.0000, and Unread Message: P0:0(0), P0:1(0).

Hot Line
- Used as baby-call(Connection PLAR)
- Timer (FXS port only : No Digit event is occurred for configured timer value, Auto-Dialing will be started)

Advanced – Gain & CID

Smart Web Manager
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System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

- Protocol
- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line

Advanced

- Gain & CID**
- GSM PINs
- Fax
- Service
- Filtering
- Security
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

- Call Status
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM RTS Info

Gain

Port	Port Type	InputGain	OutputGain	Caller ID
P0:0	GSM	0	0	<input checked="" type="checkbox"/>
P0:1	GSM	0	0	<input checked="" type="checkbox"/>
P0:2	FXS	0	0	<input checked="" type="checkbox"/>
P0:3	FXS	0	0	<input checked="" type="checkbox"/>

Apply

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Adjust the input voice volume from FXS/FXO/E1/E&M to DSP and the output volume from DSP to the phone or PSTN line;

Gain & CID
Configure Input-gain, output-gain and caller-ID.

Advanced – GSM PINs

Smart Web Manager
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GSM PINs

PINs ⓘ

Port	PIN for SIM card
P0:0	<input type="text"/>
P0:1	<input type="text"/>

GSM PIN
Configure GSM PIN(Personal Identification Number)

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Configure GSM PINs

Advanced - Fax

Smart Web Manager
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System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

- Protocol
- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line

Advanced

- Gain & CID
- GSM PINs
- Fax**
- Service
- Filtering
- Security
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

- Call Status
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM BTS Info

Fax

Fax Mode T.38 Inband T.38 Bypass

Fax Rate Disable 2400 4800 7200 9600 12000 14400

Apply

FAX
Configure fax mode & rate (VoIP Lines)

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Enable or disable T.38/Inband T.38, which is fax internet protocol and specify Baudrate

Advanced - Service

Smart Web Manager
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System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

- Protocol
- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line

Advanced

- Gain & CID
- GSM PINs
- Fax
- **Service**
- Filtering
- Security
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

- Call Status
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM BTS Info

Service

Applicaton Services

- Enable Telnet Server Port: 23 (default 23, 1-65535)
- Enable HTTP Server Port: 80 (default 80, 1-65535)
- Enable FTP Control Port: 21 (default 21, 1-65535)
Data Port: 20 (default 20, 1-65535)
- Enable Syslog Primary Server: [] Port: [] (default 514)
Secondary Server: [] Port: [] (default 514)
Log Level: 0-emergency
Log Command: disable

Timer

- Inter Digit Time: 3 sec (default 3, 1-600)

Call Service

- Transfer: Hook-Flash Not-assigned
- Hold: Hook-Flash Not-assigned

SIP Transfer

- Mode: blind Attended

Apply

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Enable or disable Telnet, HTTP, FTP and specify the access port and Call Hold/Transfer and Timer .

Service

- Configure application service(Telnet, HTTP, ftp, syslog)
- Configure IDT(Inter Digit Time)
- Configure Call-Transfer-Mode & Hook-Flash-Usage-Type.
- Configure Call-Transfer-Mode.

Advanced - Filtering

Smart Web Manager
www.addpac.com

System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

- Protocol
- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line

Advanced

- Gain & CID
- GSM PINs
- Fax
- Service
- **Filtering**
- Security
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

- Call Status
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM BTS Info

Filter

FTP Filter

Network Addr	Network Mask	Control
<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>

HTTP Filter

Network Addr	Network Mask	Control
<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>

Telnet Filter

Network Addr	Network Mask	Control
<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>

Information

AddPac Technology
Model : GS1002_G2
HW Version : 2.0
SW Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

For FTP, HTTP, Telnet, set up one IP or IP band for allowing access

Filter
Configure application service filter with IP & Subnet mask.

Advanced - Security

Smart Web Manager
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System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

- Protocol
- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line

Advanced

- Gain & CID
- GSM PINs
- Fax
- Service
- Filtering
- **Security**
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

- Call Status
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM BTS Info

Security

IP Filtering Enable Disable

WarDialing Filtering Enable Disable

Allow Digit Length(IP to PSTN) Min Max

SIP Shutdown Enable Disable

Apply

Information

AddPac Technology
Model : GS1002_G2
HW Version : 2.0
SW Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Configure the settings for IP authentication and protocol and incoming number

Security

- IP Filtering : Allowing only the inbound call which is registered to Call-Routing of the server by static IP.
- WarDialing : Allowing only the inbound call with the number registered to Inter-Office and phone-number.
- Digit Length : Allowing only the inbound call with the number registered to Inter-Office and phone-number
- SIP : SIP signaling packets are filtered.

Advanced – GSM Web Callback

Smart Web Manager
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System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

- GSM Extension
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line

GSM WEB Callback

Calling Number Whitelist

index	DialPattern	Control
0	01023234444	<input type="checkbox"/>

0 [] [Delete] [Add]

WEB Callback

Destination Numbers: 8888 Source Numbers: 9999 [Apply]

Call Fail

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Execute GSM call service function and Configure call service whitelist

Calling Number White List
The employee working at the out of office are usually registered.

WEB Callback
The employee working at the out of office can use web call agent.

Status Viewer
Display real-time call status.

Advanced – GSM Callback

GSM Callback
 The employee working at the out of office can use this function.

- The Call received from GSM network is automatically disconnected.
- GSM gateway calls to the calling number.

Calling Number White List
 The employee working at the out of office are usually registered.

Callback
 The white list group is adapted to specific GSM port

Smart Web Manager
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GSM Callback

Calling Number Whitelist

Group	Index	DialPattern	Control
3	0	123T	<input type="checkbox"/>

Buttons: Delete, Add

Callback

GSM Port	My Number	WhiteList Group
P0:0		3
P0:1		N.A.

Buttons: Apply

Information

AddPac Technology
 Model : GS1002_G2
 HW Version : 2.0
 SW Version : 8.00d
 Smart Web Version : 0.4
 Smart Web Build : Mar 24 2010

Voice Interface
 G(2)S(2)
 Protocol : SIP
 Status : Unregistered
 CurrentCalls : 0 Call
 Network : Static 172.16.9.16
 Mac Address : 0002.a400.0000
 Unread Message:
 P0:0(0)
 P0:1(0)

Description

Execute GSM callback function and Configure callback whitelist

Miscellaneous – Call Status

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System

- Network Setup
- Language
- NAT
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line
- Security
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

- Call Status**
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM BTS Info

Call Status

Port Status (Analog)

Slot	Port Group				
	Port	0()	1()	2()	3()
SLOT 0	Status	I	I	I	I
	Select	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Unblock Block

Connection State : (Connected) (Disconnected || Blocked)
Call State : (Idle) (Ring || Dial) (Called) (Calling) (Blocked)

Call Status

Port	Direction	Established Time	Calling Number	Called Number	CODEC	Src/Dest. IP

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls : 0 Call
Network : Static 172.16.9.16
Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Verify port status and retrieve the present call information

Analog Port
Real-time display about analog port status (occupation, call status). Provide a specific port blocking function

Active Call Status
Real-time display about current active call status (calling party addr, called party addr. Codec, etc)

Miscellaneous – System Status

System Status
 - voice port status & information
 - SIP-UA status & information
 - gateway status & information
 - system utilization information

Smart Web Manager
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System

- Network Setup
- Language
- NAT
- PPTP
- NTP

System Status

Voice Port

Port	LineType	Status	InGain	OutGain	TieType	TieDigits	CallNum	Tcalled	Tcalling
0/ 0	GSM	Idle	0	0	none		-1	-1	-1
0/ 1	GSM	Idle	0	0	none		-1	-1	-1
0/ 2	FXS	Idle	0	0	hot-line	8888	-1	-1	-1
0/ 3	FXS	Idle	0	0	none		-1	-1	-1

SIP-UA

Proxyserver Registration Information
 proxyserver registration option = e164
 Proxyserver list :

Server address	Port	Priority	Domain	Status (LastFailReason)
172.17.116.215	5060	128	any	Failed(Rx:OtherMsg)

Proxy Server registration status :

E.164	UserName	Password	Port	Status
1005	1005	NONE	0/ 2	Registered
33	33	NONE	0/ 0	Failed

SIP UA Timer counters
 retry counter = 10
 SIP UA Timer values
 tretry (sip retry timer) = 500 msec.
 tinterval (sip retry max interval timer) = 4 sec.
 treg (sip register timer) = 60 sec.
 tregtry (sip register retry timer) = 20 sec.
 texpires (sip invite expire timer) = 180 sec.
 tsipping (sip ping timer) = 45 sec.
 SIP UA Session Timer value
 Min-SE = 1800 sec.
 Session-Expires = 1800 sec.
 SIP DNS SRV Query : Disable
 SIP Call Transfer Mode : Basic
 SIP Media Channel Start Mode : Default
 SIP Reliable Provisional Response Option : Supported with value <100rel>
 SIP Response Option : default
 SIP Local Domain : NULL
 SIP Special Char : NULL
 SIP Routing Method of Incoming Call : Default
 SIP Remote-Party-ID : Disabled

Information

AddPac Technology
 Model : GS1002_G2
 H/W Version : 2.0
 S/W Version : 8.00d
 Smart Web Version : 0.4
 Smart Web Build : Mar 24 2010

Voice Interface
 G(2)S(2)
 Protocol : SIP
 Status : Unregistered
 CurrentCalls : 0 Call
 Network : Static 172.16.9.16
 Mac Address : 0002.a400.0000
 Unread Message:
 P0:0(0)
 P0:1(0)

Description

Verify the present port information, Server Register status, CPU and Memory usage

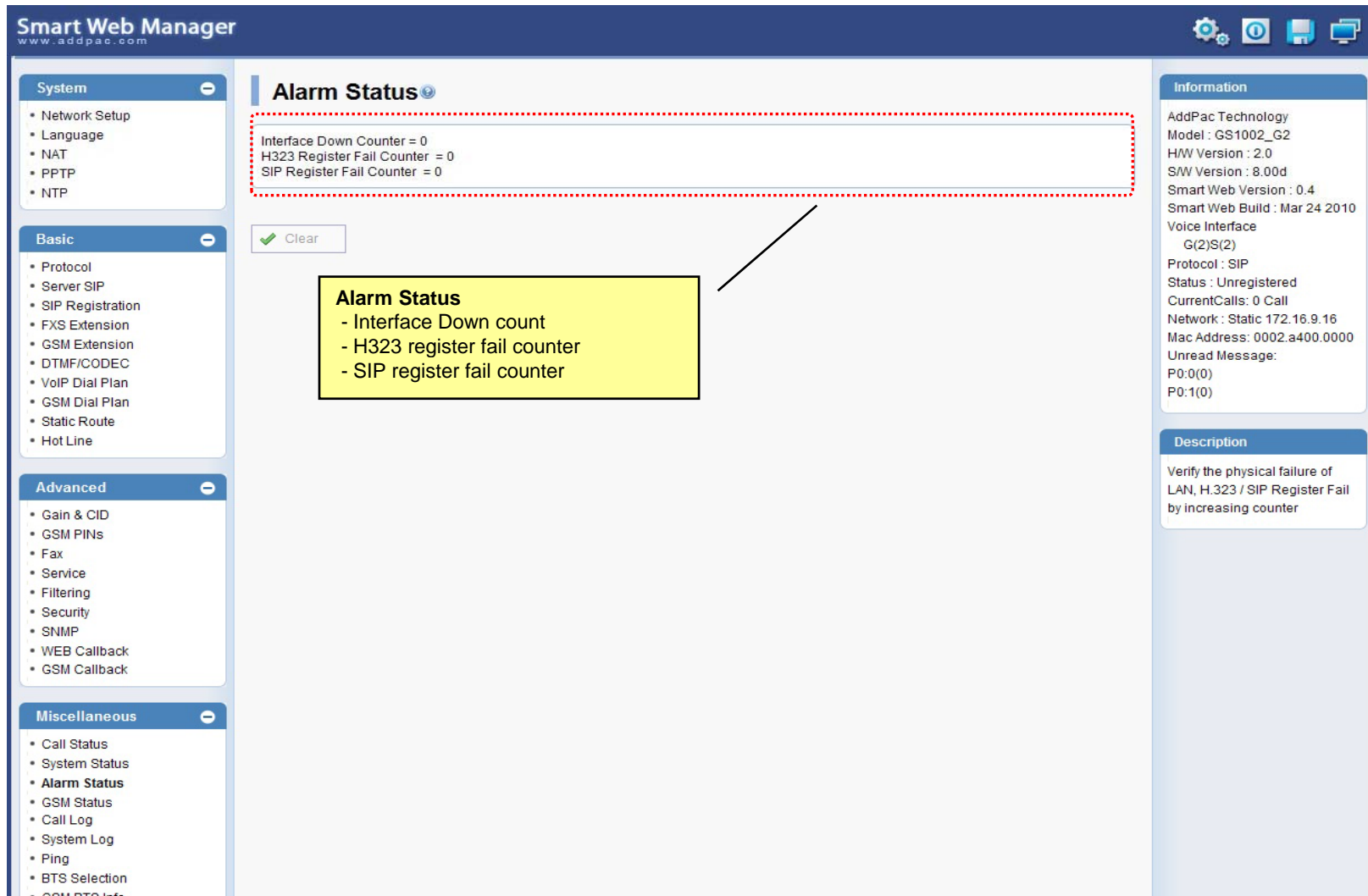
Advanced

- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line
- Gain & CID
- GSM PINs
- Fax
- Service
- Filtering
- Security
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

- Call Status
- **System Status**
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM BTS Info

Miscellaneous – Alarm Status



The screenshot shows the 'Smart Web Manager' interface with the 'Alarm Status' page selected. The left sidebar contains a tree view with categories: System, Basic, Advanced, and Miscellaneous. The 'Alarm Status' page displays the following information:

- Alarm Status** (with a refresh icon)
- Interface Down Counter = 0
- H323 Register Fail Counter = 0
- SIP Register Fail Counter = 0
- A 'Clear' button with a green checkmark icon.

A red dashed box highlights the counter values. A yellow callout box points to these values with the following text:

Alarm Status

- Interface Down count
- H323 register fail counter
- SIP register fail counter

The right sidebar contains two sections:

- Information**: AddPac Technology, Model : GS1002_G2, HW Version : 2.0, SW Version : 8.00d, Smart Web Version : 0.4, Smart Web Build : Mar 24 2010, Voice Interface G(2)S(2), Protocol : SIP, Status : Unregistered, CurrentCalls: 0 Call, Network : Static 172.16.9.16, Mac Address: 0002.a400.0000, Unread Message: P0:0(0), P0:1(0).
- Description**: Verify the physical failure of LAN, H.323 / SIP Register Fail by increasing counter.

Miscellaneous – GSM Status

Smart Web Manager
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GSM Status

GSM Port Status & Information

Port	My Phone Number	Device Information		Accounting (Used/Quota/Free)	
		Register Status	Signal Strength	Voice Quota(secs)	SMS Quota(E.A.)
P0:0		REG	0dB	0 / 36000 / 36000	0 / 300 / 300
P0:1		REG	0dB	0 / -1 / -1	0 / -1 / -1

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

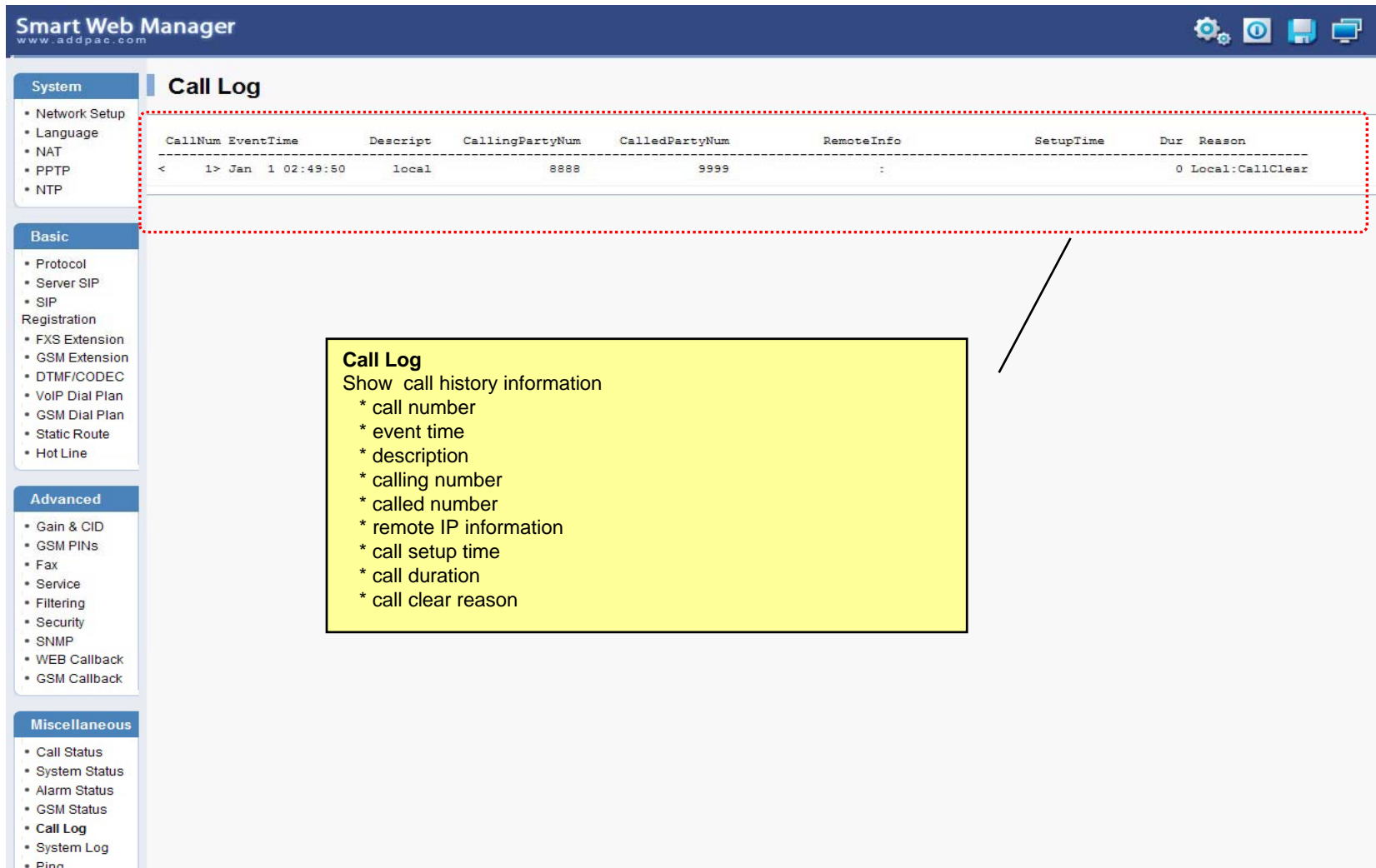
Description

Diaplay GSM wireless status

GSM Status

- my number
- GSM register status
- GSM signal strength
- Account information
 - * voice quota (used / quota / free)
 - * SMS quota (used / quota / free)

Miscellaneous – Call Log



The screenshot shows the 'Smart Web Manager' interface with the 'Call Log' section active. The interface includes a left sidebar with navigation menus for System, Basic, Advanced, and Miscellaneous. The main content area displays a table of call log entries. A red dashed box highlights the table header and the first data row. A yellow callout box provides a list of fields included in the call log data.

CallNum	EventTime	Descript	CallingPartyNum	CalledPartyNum	RemoteInfo	SetupTime	Dur	Reason
< 1>	Jan 1 02:49:50	local	8888	9999	:		0	Local:CallClear

Call Log
Show call history information

- * call number
- * event time
- * description
- * calling number
- * called number
- * remote IP information
- * call setup time
- * call duration
- * call clear reason

Miscellaneous – System Log

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System Log

command logging buffers (messages logged)

event logging buffers (messages logged)

System Log
- command log
- system alarm log (ex : interface down)

Information
AddPac Technology
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Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description
Retrieve the system log

System
• Network Setup
• Language
• NAT
• PPTP
• NTP

Basic
• Protocol
• Server SIP
• SIP Registration
• FXS Extension
• GSM Extension
• DTMF/CODEC
• VoIP Dial Plan
• GSM Dial Plan
• Static Route
• Hot Line

Advanced
• Gain & CID
• GSM PINs
• Fax
• Service
• Filtering
• Security
• SNMP
• WEB Callback
• GSM Callback

Miscellaneous
• Call Status
• System Status
• Alarm Status
• GSM Status
• Call Log
• **System Log**
• Ping
• BTS Selection
• GSM BTS Info

Miscellaneous - Ping

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System

- Network Setup
- Language
- NAT

Advanced

- Protocol
- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line

Miscellaneous

- Call Status
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- **Ping**
- BTS Selection
- GSM BTS Info

Ping

Host address Start

Information

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G(2)S(2)
Protocol : SIP
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Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Verify the physical failure of LAN, H.323 / SIP Register Fail by increasing counter

PING
You can diagnose network status by PING.

PING
Show real time ping status.

Miscellaneous – BTS Selection

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GSM / BTS Control

Port	BTS Selection Mode	BCCH	RSSI & Timer
P0:0	Auto	72EA	-25B -1(sec)
P0:1	Auto	72EA	-25B -1(sec)

P0:0 Auto BCCH RSSI & Timer
-10 dB 0 sec
Apply

BTS control
Configure BTS selection option
* Auto mode
* forced BCCH
* forced RSSI level

Information
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Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
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Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description
Configure BTS selection mode

Miscellaneous – GSM BTS Info

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GSM BCCH Cell Information

PORT 0:0 PORT 0:1

Information

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Unread Message:
P0:0(0)
P0:1(0)

Description

Verify GSM wireless signal status

BCCH Cell Information
Shows serving cell information (center circle) and neighboring cell information.
* LAC : Location Area Code
* CI : Cell ID
* BSIC : Basic Station ID Code
* BCCH : Broadcast Control Channel
* RSSI : Receiver Signal Strength

System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

- Protocol
- Server SIP
- SIP Registration
- FXS Extension
- GSM Extension
- DTMF/CODEC
- VoIP Dial Plan
- GSM Dial Plan
- Static Route
- Hot Line

Advanced

- Gain & CID
- GSM PINs
- Fax
- Service
- Filtering
- Security
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

- Call Status
- System Status
- Alarm Status
- GSM Status
- Call Log
- System Log
- Ping
- BTS Selection
- GSM BTS Info

LCR – Black & White List

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GSM LCR / Black List & White List

BlackList

Index	DialPattern	Control
0	888T	<input type="checkbox"/>
		Delete
0	<input type="text"/>	Add

WhiteList

Index	DialPattern	Control
0	2...	<input type="checkbox"/>
		Delete
0	<input type="text"/>	Apply

Information

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Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Configure black & white list

LCR Black & White List
Black List : The patterns are disallowed GSM outbound call.
White List : The patterns are allowed GSM outbound call.

LCR – Time Interval

The screenshot displays the Smart Web Manager interface for configuring GSM LCR / Time Interval Groups. The main content area is titled "GSM LCR / Time Interval Group" and contains a "TimeInterval" section. This section features a table with the following data:

Group	Days	StartTime(hh:mm)	EndTime(hh:mm)	Control
0	Weekdays	00:00	23:59	<input type="checkbox"/>

Below the table, there are input fields for adding a new group: "0" for Group, "weekend" for Days, "0" for StartHour, "0" for StartMinute, "0" for EndHour, and "0" for EndMinute. There are also "Delete" and "Add" buttons.

A yellow callout box points to the table with the text: "Time Interval GSM outbound call is restricted by Time Interval".

The interface also includes a left sidebar with navigation menus for System, Basic, Advanced, and Miscellaneous. The right sidebar contains "Information" and "Description" sections.

Information:
AddPac Technology
Model : GS1002_G2
HW Version : 2.0
SW Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description:
Configure time interval group

LCR – Tariff Group

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GSM LCR / Tariff Group

Tariff Group

Group	Time Group	Restore Call Limit		Accounting Period		Free Quota		Control
Type	RestoreDay	First(sec)	Others(sec)	Voice(min)	SMS(E.A.)			
0	0	monthly	15	30	10	600	300	<input type="checkbox"/>
0	0	daily	1					Delete Add

TariffPort

Port	TariffGroup
P0:0	0
P0:1	N.A.
P0:2	N.A.
P0:3	N.A.

Information

AddPac Technology
Model : GS1002_G2
H/W Version : 2.0
S/W Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls : 0 Call
Network : Static 172.16.9.16
Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

Configure tariff group

Time Interval Group
Time interval Group is adapted to this tariff group.

Restore call limit
Quota restore time

Accounting Period
Used to voice call.
(ex)
- configured as First (30 seconds) Others(10 seconds)

first connect -- 30 seconds are accounted.
after 30 seconds -- 10 seconds are additionally accounted.
after 10 seconds – 10 seconds are additionally accounted.
and so on.

Tariff Group
Tariff group is adapted to specific GSM port.

Free quota
Free quota information.
Current Usage information is supported at GSM Status.

LCR – LCR Test

The screenshot shows the 'Smart Web Manager' interface for an LCR Test. The main area is titled 'LCR Test' and contains input fields for 'Caller:' (8888) and 'Called Number:' (9999), with a 'Start' button. Below these is a log window showing the simulation results. Two yellow callout boxes provide additional context: one points to the 'Start' button and the log window, stating 'LCR Test LCR simulator', and another points to the log window, stating 'LCR Test Show real time simulation status.' The left sidebar has a 'System' menu with options like Network Setup, Language, NAT, PPTP, and NTP, and an 'Advanced' menu with Gain & CID and GSM PIN. The right sidebar shows 'Information' (AddPac Technology, Model: GS1002_G2, H/W Version: 2.0, S/W Version: 8.00d, Smart Web Version: 0.4, Smart Web Build: Mar 24 2010, Voice Interface: G(2)S(2), Protocol: SIP, Status: Unregistered, CurrentCalls: 0 Call, Network: Static 172.16.9.16, Mac Address: 0002.a400.0000, Unread Message: P0:0(0), P0:1(0)) and a 'Description' section with 'LCR Test'.

System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Advanced

- Gain & CID
- GSM PIN

LCR Test

Caller:

Called Number:

```
< 1> LCR : =====
< 2> LCR : == GSM LCR(Least Cost Route) Simulator Start ==
< 3> LCR : =====
< 4> LCR : -- src digits : 8888(GSM) -> dst digits : 9999(GSM)
< 5> LCR : -- MatchAllProcess After Sorted
< 6> LCR : <0> id(3048) dest(T) prefer(0) selected(0)
< 7> LCR : -- Trying : <0> id(3048) dest(T)
< 8> LCR : -- Error: Outbound White Group(id:1) UnMatched
< 9> LCR : -----
< 10> LCR : -- Result : Fail
< 11> LCR : =====
< 12> LCR : == GSM LCR(Least Cost Route) Simulator End ==
< 13> LCR : =====
```

Information

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Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls : 0 Call
Network : Static 172.16.9.16
Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

LCR Test

SMS – Inbox

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GSM SMS / InBox

number of messages are 0 P0:0 OK

Index	Sender	Received	Message	Select
				Delete

< >

GSM SMS / In Box

- total message
- unread messages (Blue color)
- received time
- content

Information

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Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls: 0 Call
Network : Static 172.16.9.16
Mac Address: 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

SMS – SMS New Message

The screenshot shows the 'Smart Web Manager' interface with the 'GSM SMS / New Message' page. The left sidebar contains a navigation menu with categories: System, Basic, Advanced, and Miscellaneous. The main content area features a form for sending a message, with fields for 'Phone Number', 'Message', and 'Port' (set to P0:0), and a 'Send' button. A red dashed box highlights the form fields. A yellow callout box with a black border contains the text: 'New Message send a new message to the other GSM mobile phone.' The right sidebar displays system 'Information' and a 'Description' section.

Smart Web Manager
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GSM SMS / New Message

Max size is 80 characters

Phone Number

Message

Port

Send

New Message
send a new message to the other GSM mobile phone.

Information

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Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls : 0 Call
Network : Static 172.16.9.16
Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description



Thank you!

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