GSM SOHO Gateway Solution

AddPac

AddPac Technology

2012, Sales and Marketing

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Contents

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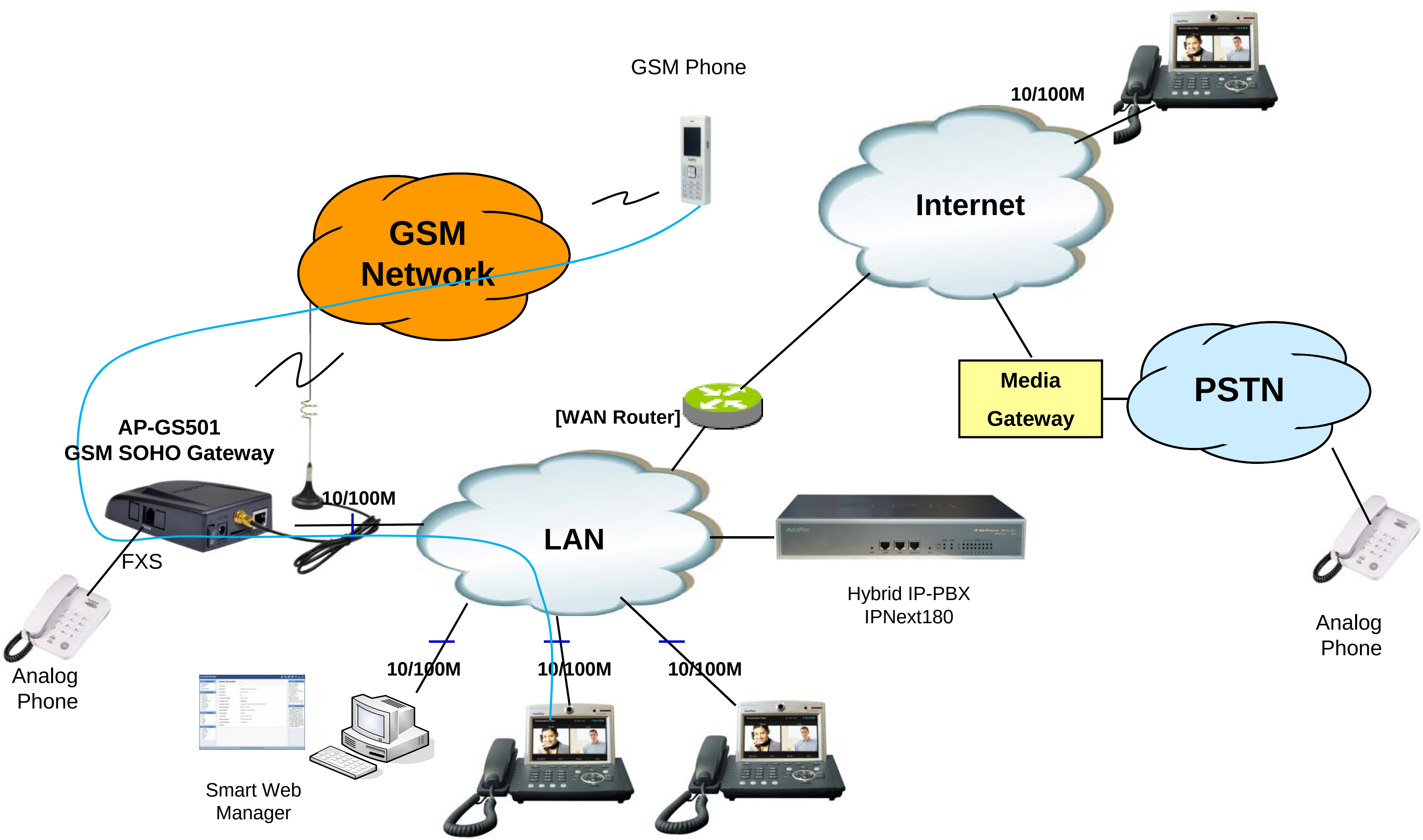

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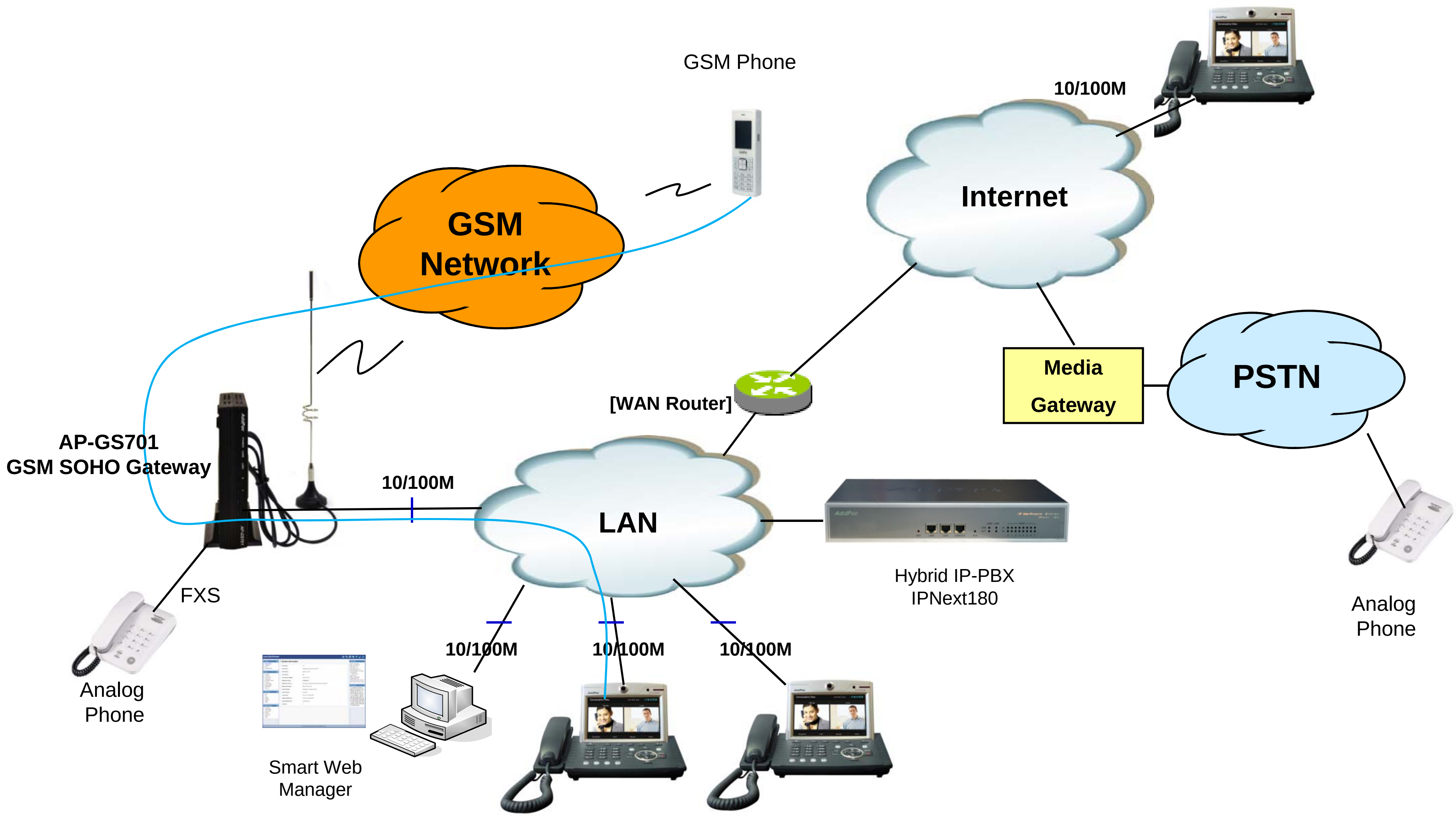

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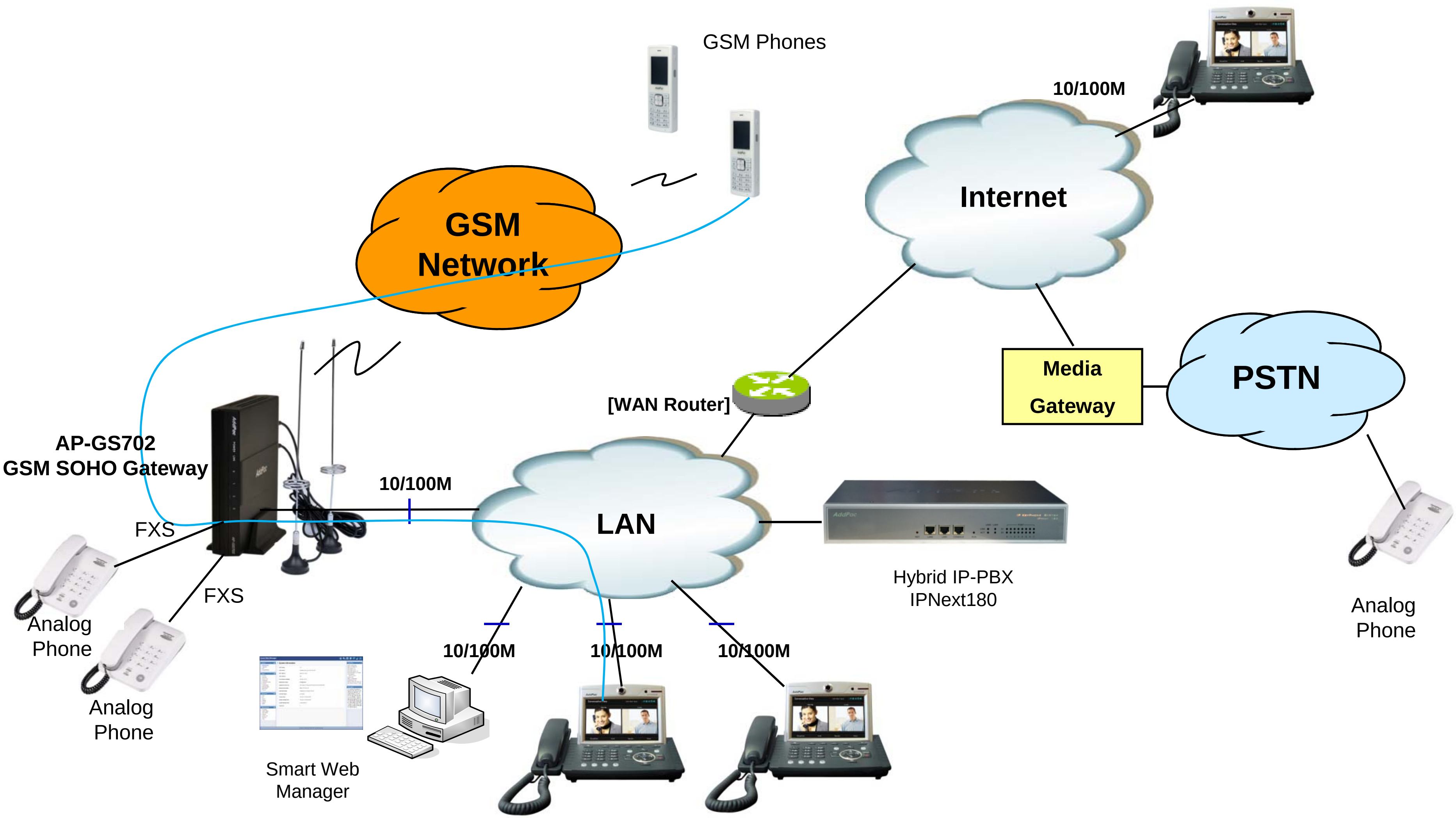

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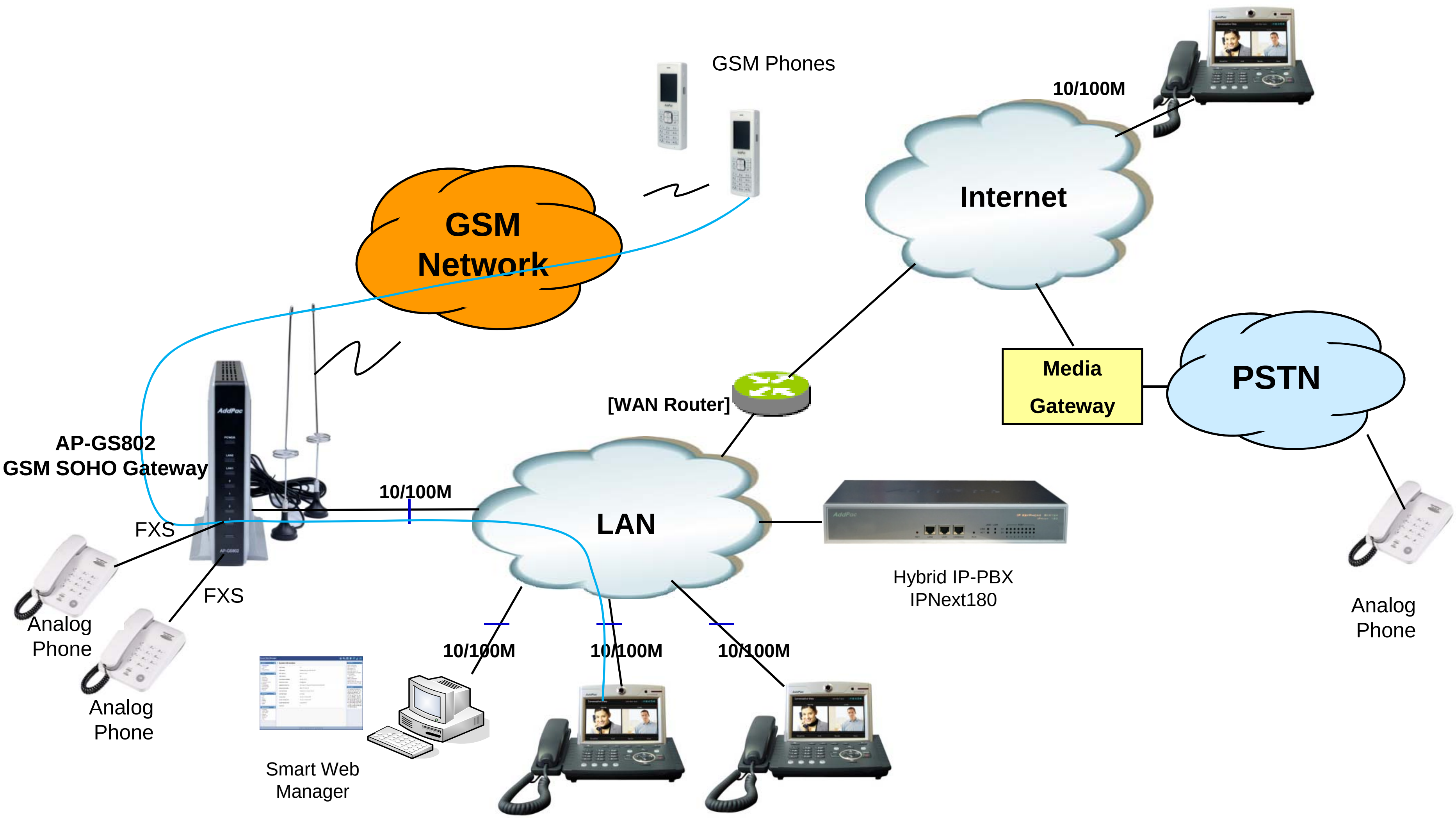
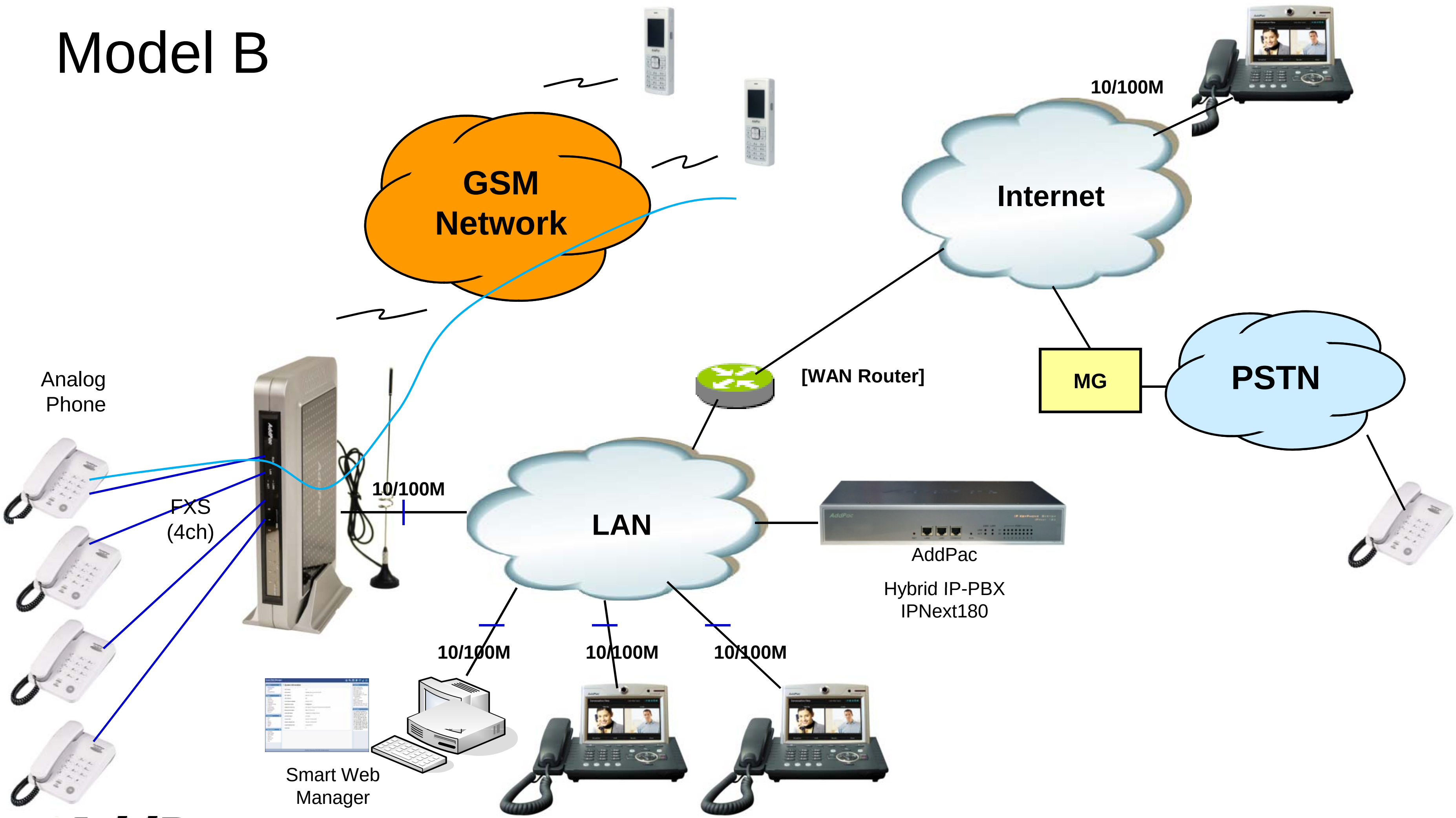


GSM Gateway Service Diagram (AP-GS804B)

Model B



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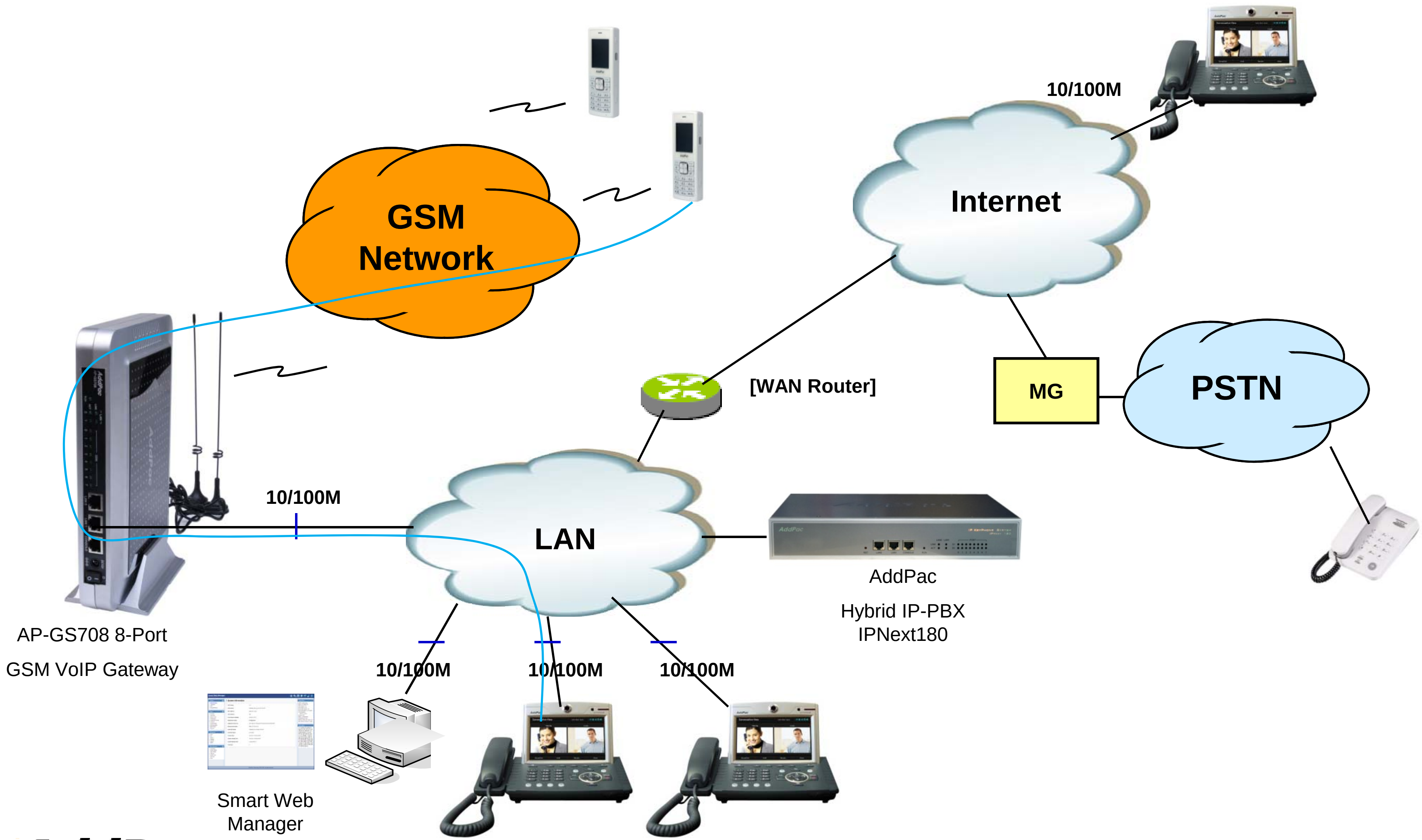

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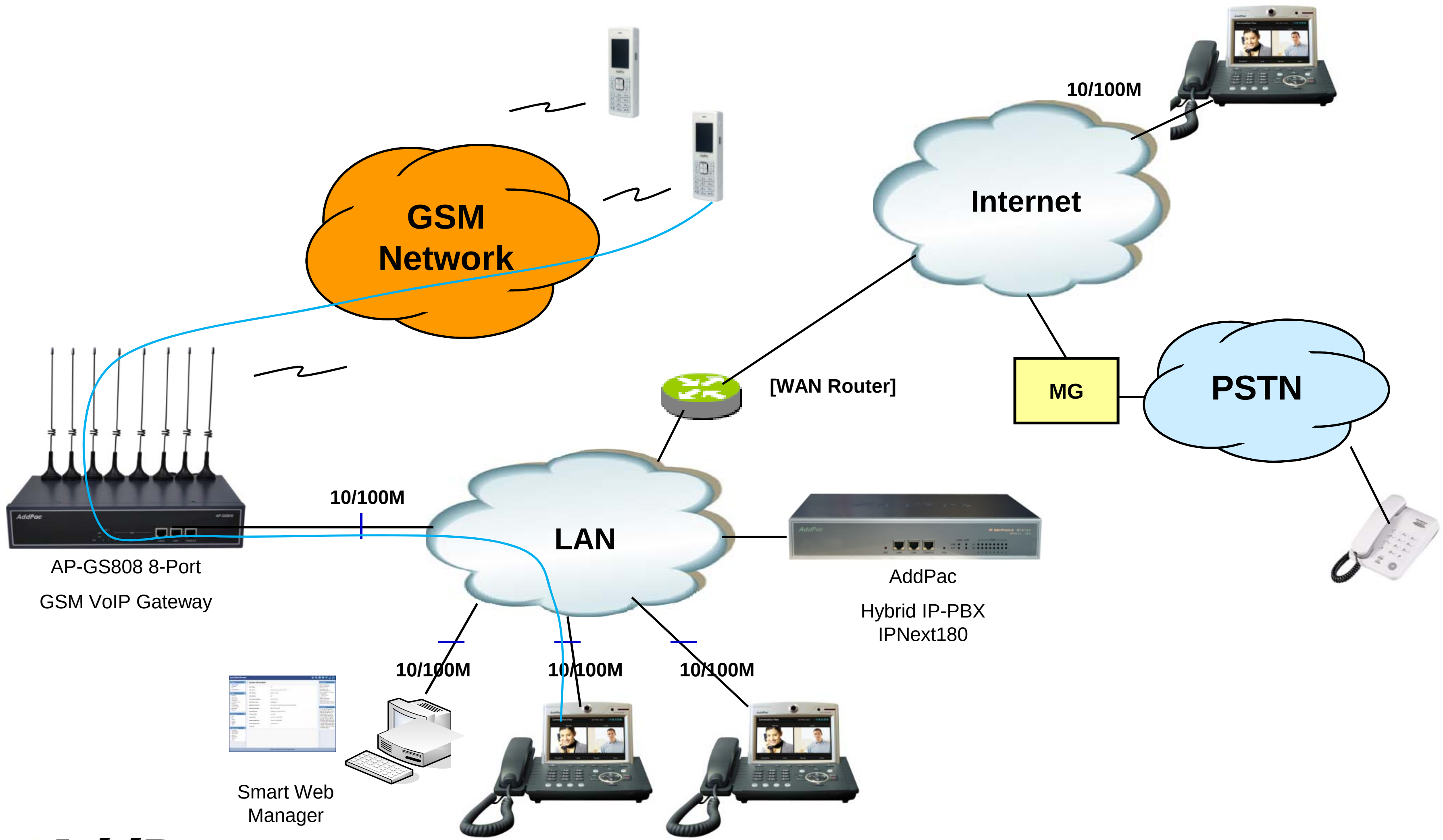


GSM SOHO Gateway Series

GSM SOHO Gateway Comparison Table

	AP-GS501		AP-GS701		AP-GS702		AP-GS802	
								
Model	Type	Analog	Type	Analog	Type	Analog	Type	Analog
	B	1FXS	A	None	A	None	A	None
			B	1FXS	B	2FXS	B	2FXS
GSM Channel	1		1		2		2	
GSM Antenna	1		1		2		2	
SIM Card Slot	1		1		2		2	
LAN Port 10/100Mbps	1		2		1		2	
Console(RJ45)	N/A		N/A		N/A		1	

GSM SOHO Gateway Comparison Table

	AP-GS804		AP-GS708		AP-GS808		AP-GS816	
								
Model	Type	Analog	Type	Analog	Type	Analog	Type	Analog
	A	None		None		None		None
	B	4-Port FXS						
	C	4-Port FXO						
GSM Channel	4		8		8		16	
GSM Antenna	4		8		8		16	
SIM Card Slot	4		8		8		16	
LAN Port 10/100Mbps	1		2		2		2	
Console(RJ45)	1		1		1		1	
Power	External Power Adaptor		External Power Adaptor		Internal Power		Internal Power	

AP-GS1001
GSM SOHO Gateway

Main Features

AP-GS501 One(1) Port GSM SOHO Gateway

- One(1) Port GSM SOHO Gateway Service
- Analog Interface (FXS)/VoIP Interface(LAN) Both Support
- H.323/SIP Dual Concurrent Stack Embedded
- High Performance RISC & Programmable DSP Architecture
- One(1) 10/100Mbps Fast Ethernet (IP Share ,etc)
- High Performance LAN-to-LAN Routing Capability
- G.711/G.726/G.723/G.729, T.38 Fax , VAD, etc
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- VPMS (VoIP Plug&Play Management System) for Large Scale Deployment
- Advanced Voice QoS Mechanism
- Light and Compact Design with External Power Supply

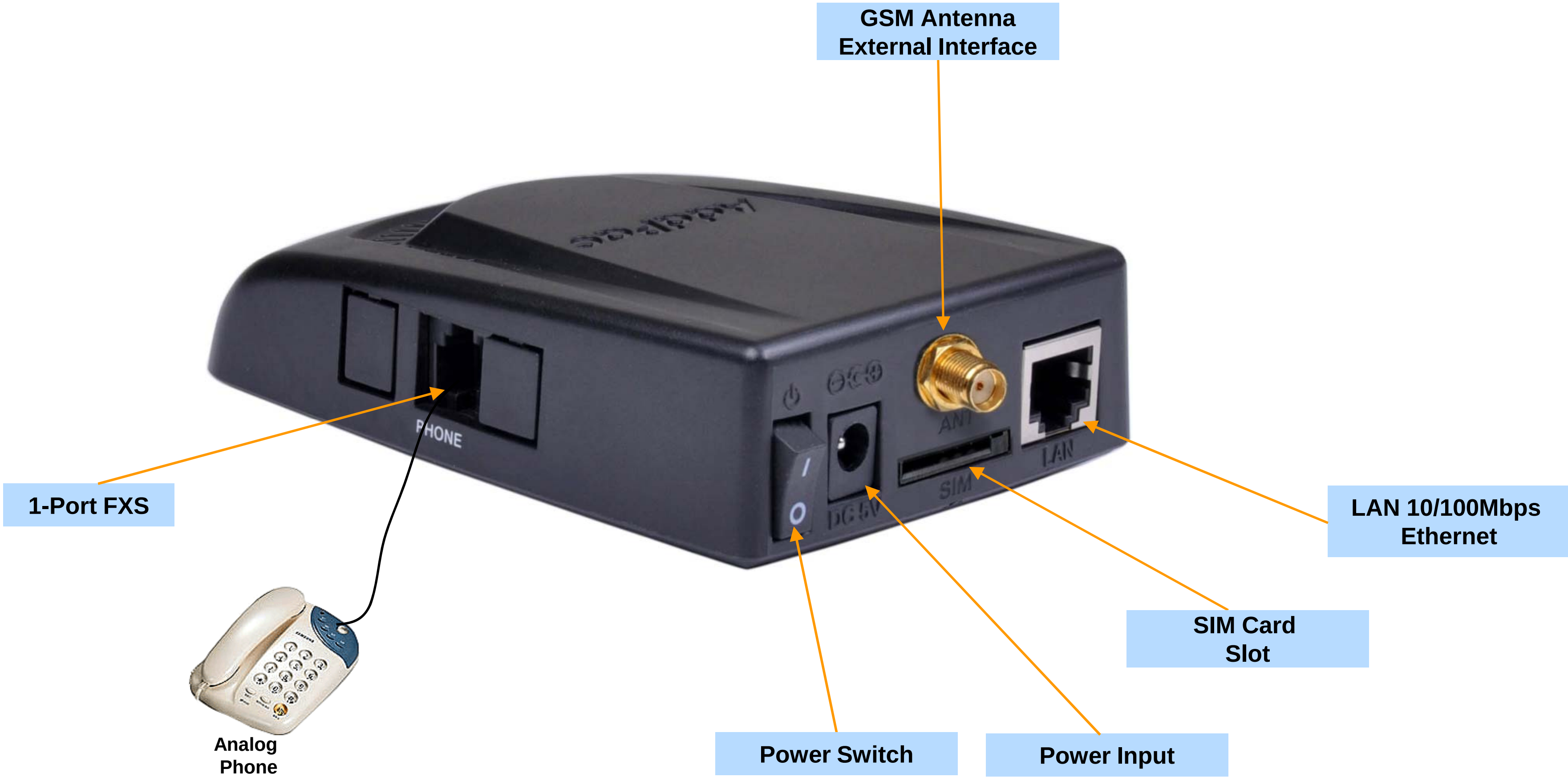
Hardware Specification

AP-GS501 One(1) Port GSM SOHO Gateway

- RISC Microprocessor Computing Power
- 1-Port GSM Gateway
- 1-Port SIM Card Slot
- 1-Port GSM Antenna Interface
- VoIP Gateway Interface : One(1) FXS Port
- Network Interface for VoIP Direct Interface
  -One(1) 10/100Mbps Fast Ethernet (RJ45)
- Run LED, LAN LED, Port LEDs
- External Power Supply

Hardware Specification

AP-GS501 One(1) Port GSM SOHO Gateway



AP-GS701
GSM SOHO Gateway

Main Features

AP-GS701 One(1) Port GSM SOHO Gateway

- One(1) Port GSM SOHO Gateway Service
- Analog Interface (FXS)/VoIP Interface(LAN) Both Support
- H.323/SIP Dual Concurrent Stack Embedded
- High Performance RISC & Programmable DSP Architecture
- Two(2) 10/100Mbps Fast Ethernet (IP Share ,etc)
- High Performance LAN-to-LAN Routing Capability
- G.711/G.726/G.723/G.729, T.38 Fax , VAD, etc
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- VPMS (VoIP Plug&Play Management System) for Large Scale Deployment
- Advanced Voice QoS Mechanism
- Light and Compact Design with External Power Supply

Hardware Specification

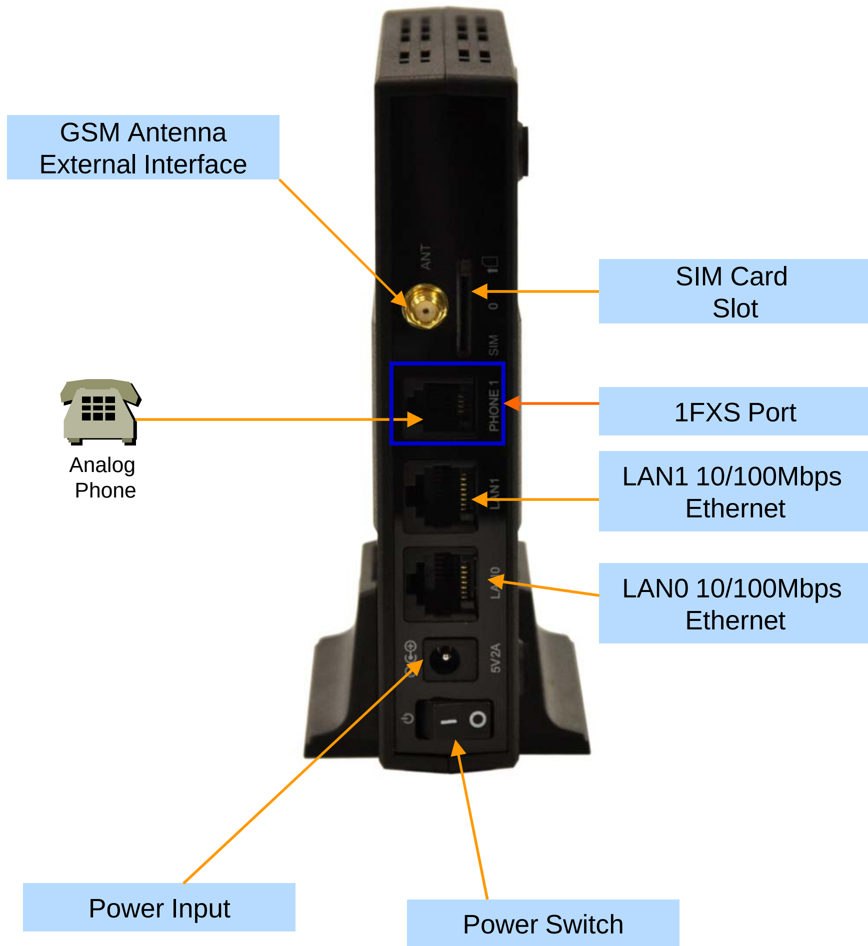
AP-GS701 One(1) Port GSM SOHO Gateway

- RISC Microprocessor Computing Power
- 1-Port GSM Gateway
- 1-Port SIM Card Slot
- 1-Port GSM Antenna Interface
- VoIP Gateway Interface
  - AP-GS701 Model A: Basic Configuration
  - AP-GS701 Model B: One(1) FXS Port
- Network Interface for VoIP Direct Interface
  - Two(2) 10/100Mbps Fast Ethernet (RJ45)
- Run LED, LAN LED, Port LEDs
- External Power Supply

Hardware Specification

AP-GS701 One(1) Port GSM SOHO Gateway

Network interface Configurations



AP-GS702
GSM SOHO Gateway

Main Features

AP-GS702 Two(2) Port GSM SOHO Gateway

- Two(2) Port GSM SOHO Gateway
- Analog Interface (FXS)/VoIP Interface(LAN) Both Support
- H.323/SIP Dual Concurrent Stack Embedded
- High Performance RISC & Programmable DSP Architecture
- One(1) 10/100Mbps Fast Ethernet (IP Share ,etc)
- High Performance LAN-to-LAN Routing Capability
- G.711/G.726/G.723/G.729, T.38 Fax , VAD, etc
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- VPMS (VoIP Plug&Play Management System) for Large Scale Deployment
- Advanced Voice QoS Mechanism
- Light and Compact Design with External Power Supply

Hardware Specification

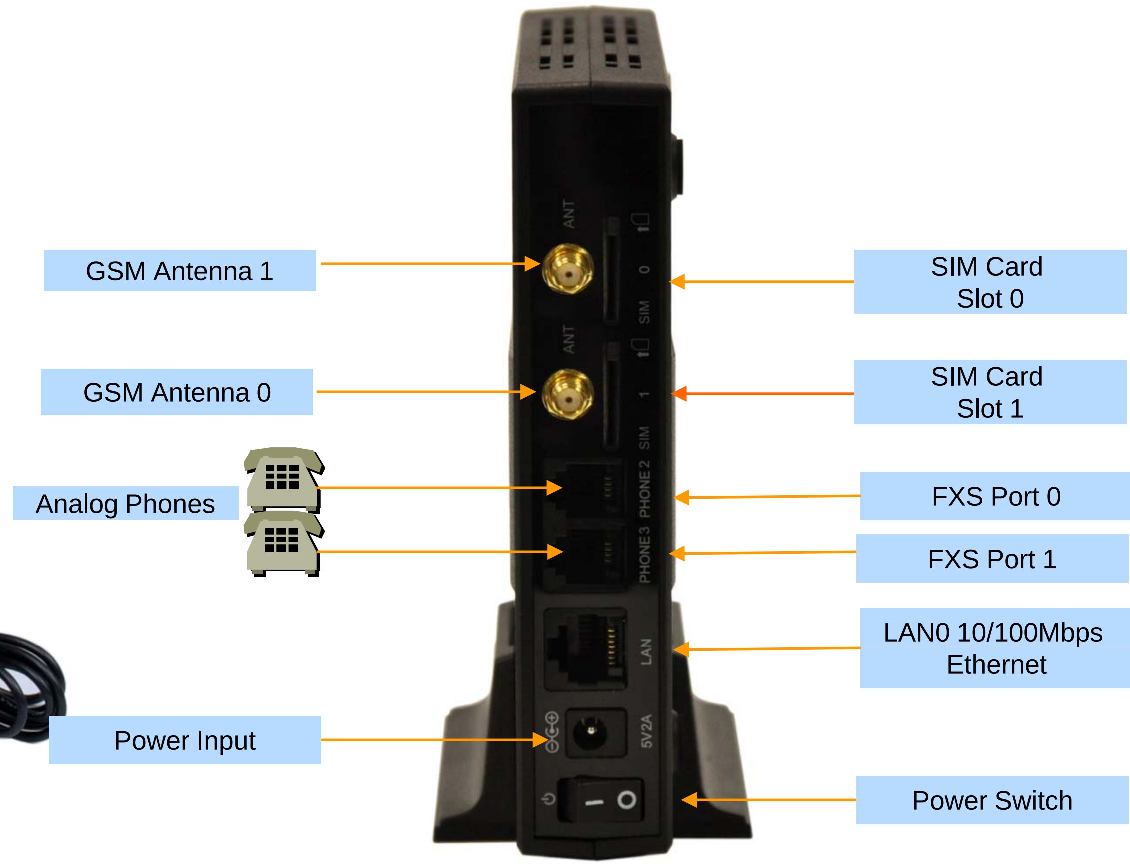
AP-GS702 Two(2) Port GSM SOHO Gateway

- RISC Microprocessor Computing Power
- 2-Port GSM Gateway
- 2-Port SIM Card Slot
- 2-Port GSM Antenna Interface
- VoIP Gateway Interface
    - AP-GS702 Model A: Basic Configuration
    - AP-GS702 Model B: Two(2) FXS Port
- Network Interface for VoIP Direct Interface
    - One(1) 10/100Mbps Fast Ethernet (RJ45)
- Run LED, LAN LED, Port LEDs
- External Power Supply

Hardware Specification

AP-GS702 Two(2) Port GSM SOHO Gateway

Network interface Configuration



AP-GS802
GSM SOHO Gateway

Main Features

AP-GS802 Two(2) Port GSM SOHO Gateway

- Two(2) Port GSM SOHO Gateway
- Analog Interface (FXS)/VoIP Interface(LAN) Both Support
- H.323/SIP Dual Concurrent Stack Embedded
- High Performance RISC & Programmable DSP Architecture
- Two(2) 10/100Mbps Fast Ethernet (IP Share ,etc)
- High Performance LAN-to-LAN Routing Capability
- G.711/G.726/G.723/G.729, T.38 Fax , VAD, etc
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- VPMS (VoIP Plug&Play Management System) for Large Scale Deployment
- Advanced Voice QoS Mechanism
- Light and Compact Design with External Power Supply

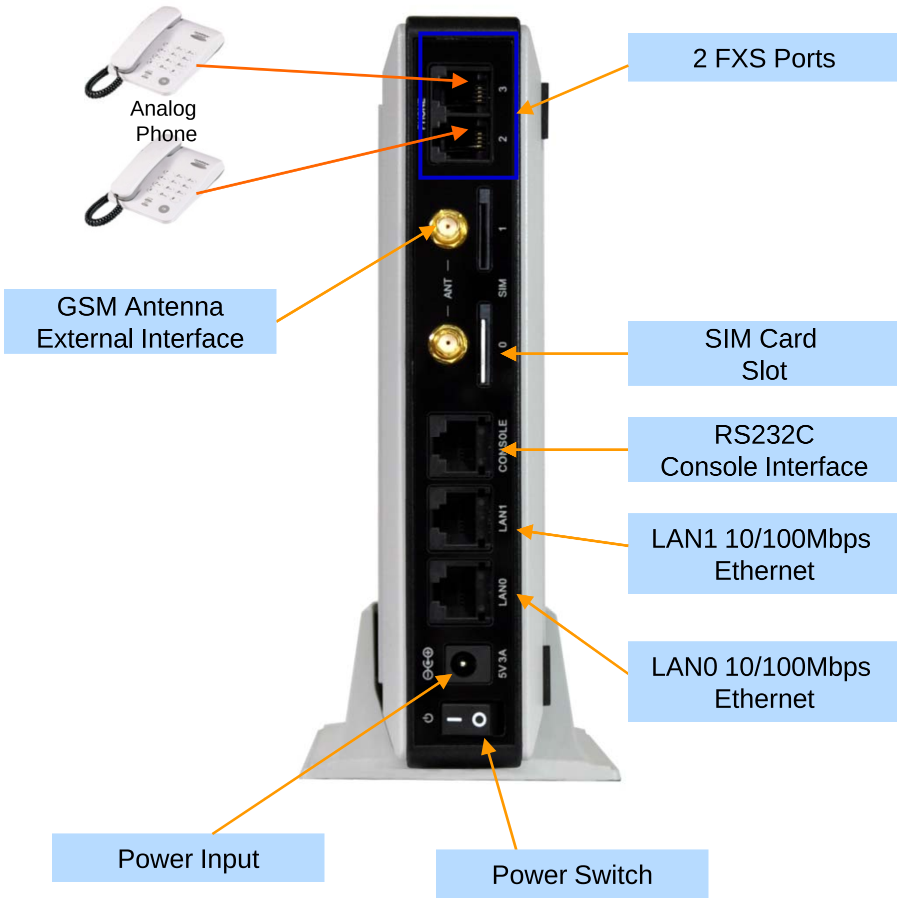
Hardware Specification

AP-GS802 Two(2) Port GSM SOHO Gateway

- RISC Microprocessor+DSP Computing Power
- 2-Port GSM Gateway
- 2-Port SIM Card Slot
- 2-Port GSM Antenna Interface
- VoIP Gateway Interface
  - AP-GS1002 Model A: Basic Configuration
  - AP-GS1002 Model B: Two(2) FXS Port
- Network Interface
  - Two(2) 10/100Mbps Fast Ethernet (RJ45)
- RS232C Console Port for CLI (RJ45)
- Run LED, LAN LED, Port LEDs
- External Power Supply

Hardware Specification

AP-GS802 Two(2) Port GSM SOHO Gateway



AP-GS804
GSM SOHO Gateway

Main Features

AP-GS804 4-Port GSM SOHO Gateway

- Analog Interface (FXS, FXO)/VoIP Interface(LAN) Both Support
- 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)
- One(1) 10/100Mbps Fast Ethernet (IP Share ,etc)
- One(1) RS-232C Port for Command Line Interface
- Firmware Upgradeable Architecture
- VPMS (VoIP Plug&Play Management System) for Large Scale Deployment
- Advanced Voice QoS Mechanism
- Light and Compact Design with External Power Supply

Hardware Specification

AP-GS804 4-Port GSM SOHO Gateway

- RISC Microprocessor Computing Power
- 4-Port GSM Gateway
- 4-Port SIM Card Slot
- 4-Port GSM Antenna Interface
- VoIP Interface
  - None : Model A
  - 4-Port FXS Interface : Model B
  - 4-Port FXO Interface : Model C
- Network Interface for VoIP Direct Interface

  -One(1) 10/100Mbps Fast Ethernet (RJ45)
- RS232C Console Interface for CLI
- Run LED, LAN LED, Port LEDs
- External Power Supply

Hardware Specification

AP-GS804 4-Port GSM Gateway

RISC CPU

High-end DSP

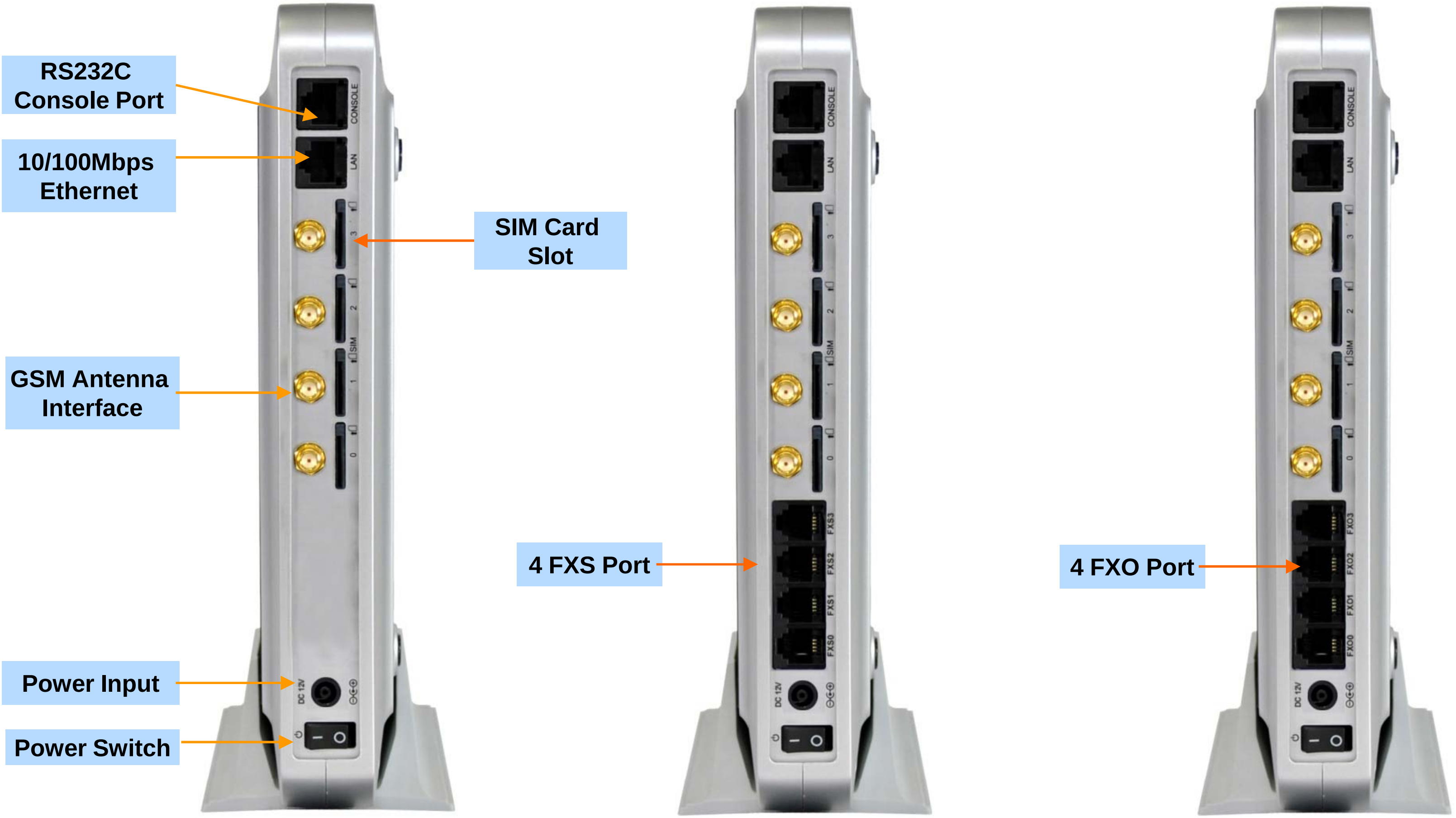
Hardware Specification

AP-GS804 4-Port GSM Gateway

RISC CPU

High-end DSP

Back Side View



Model A　　Model B　　Model C

AP-GS708
GSM SOHO Gateway

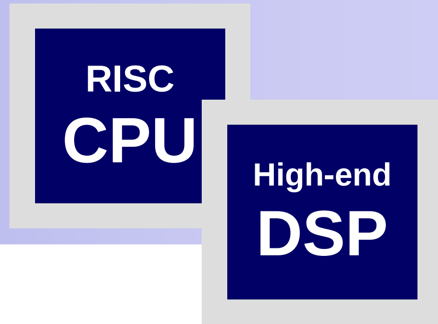
Main Features

AP-GS708 8-Port GSM VoIP Gateway

- 8-Port GSM VoIP Gateway Solution
- 8-Port SIM Slots, 8-Port Antenna Interface
- GSM VoIP Interface(LAN) Support
- 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 Fast Ethernet (IP Share ,etc)
- One(1) RS-232C Port for Command Line Interface
- Firmware Upgradeable Architecture
- VPMS (VoIP Plug&Play Management System) for Large Scale Deployment
- Advanced Voice QoS Mechanism
- Light and Compact Design with External Power Supply

Hardware Specification

AP-GS708 8-Port GSM VoIP Gateway



- RISC Microprocessor Computing Power
- Powerful High-End DSP for VoIP Interface
- 8-Port GSM VoIP Gateway
- 8-Port SIM Card Slots
- 8-Port GSM Antenna Interface
- Network Interface for VoIP Direct Interface
  - Two(2) 10/100Mbps Fast Ethernet (RJ45)
- RS232C Console Interface for CLI
- Run LED, LAN LED, Port LEDs at Front Side
- Compact and Light Design with External Power Supply

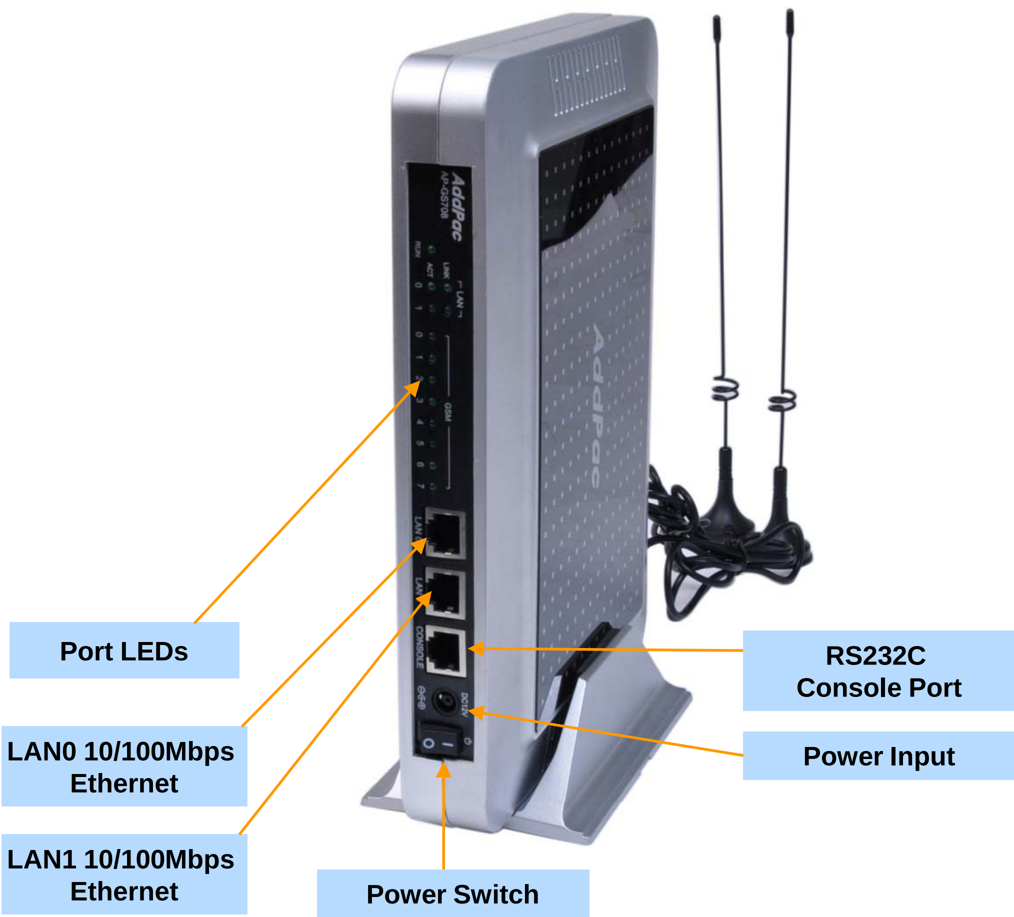
Hardware Specification

AP-GS708 8-Port GSM VoIP Gateway

RISC
CPU

High-end
DSP

Front Side View



Hardware Specification

AP-GS708 8-Port GSM VoIP Gateway

RISC CPU

High-end DSP

Back Side View

AP-GS808
GSM SOHO Gateway

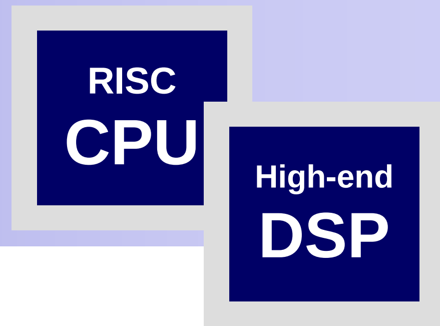
Main Features

AP-GS808 8-Port GSM VoIP Gateway

- 8-Port GSM VoIP Gateway Solution
- 8-Port SIM Slots, 8-Port Antenna Interface
- GSM VoIP Interface(LAN) Support
- 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 Fast Ethernet (IP Share ,etc)
- One(1) RS-232C Port for Command Line Interface
- Firmware Upgradeable Architecture
- VPMS (VoIP Plug&Play Management System) for Large Scale Deployment
- Advanced Voice QoS Mechanism
- Light and Compact Design with Internal Power Supply

Hardware Specification

AP-GS808 8-Port GSM VoIP Gateway



- RISC Microprocessor Computing Power
- Powerful High-End DSP for VoIP Interface
- 8-Port GSM VoIP Gateway
- 8-Port SIM Card Slots
- 8-Port GSM Antenna Interface
- Network Interface for VoIP Direct Interface
  - -Two(2) 10/100Mbps Fast Ethernet (RJ45)
- RS232C Console Interface for CLI
- Run LED, LAN LED, Port LEDs at Front Side
- Compact and Light Design with Internal Power Supply

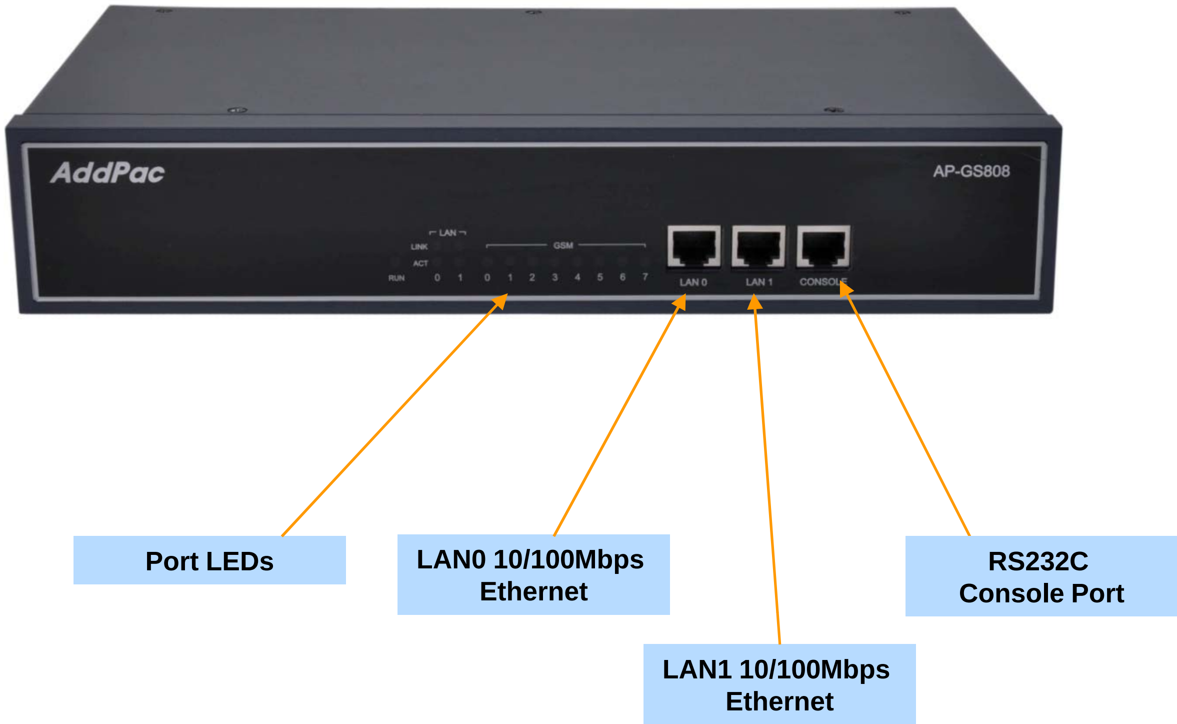
Hardware Specification

AP-GS808 8-Port GSM VoIP Gateway

RISC
CPU

High-end
DSP

Front Side View



Hardware Specification

AP-GS808 8-Port GSM VoIP Gateway

RISC CPU

High-end DSP

Back Side View

AP-GS816
GSM SOHO Gateway

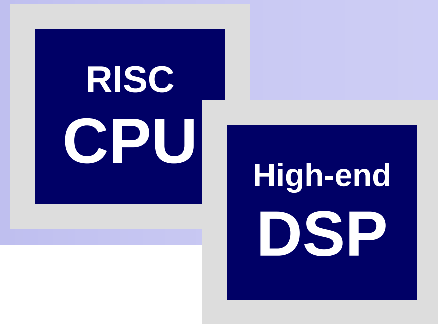
Main Features

AP-GS816 16-Port GSM VoIP Gateway

- 16-Port GSM VoIP Gateway Solution
- 16-Port SIM Slots
- 16-Port Antenna Interface
- GSM VoIP Interface(LAN) Support
- 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 Fast Ethernet (IP Share ,etc)
- One(1) RS-232C Port for Command Line Interface
- Firmware Upgradeable Architecture
- VPMS (VoIP Plug&Play Management System) for Large Scale Deployment
- Advanced Voice QoS Mechanism
- Light and Compact Design with Internal Power Supply

Hardware Specification

AP-GS816 16-Port GSM VoIP Gateway



- RISC Microprocessor Computing Power
- Powerful High-End DSP for VoIP Interface
- 16-Port GSM VoIP Gateway
- 16-Port SIM Card Slots
- 16-Port GSM Antenna Interface
- Network Interface for VoIP Direct Interface
  - -Two(2) 10/100Mbps Fast Ethernet (RJ45)
- RS232C Console Interface for CLI
- Run LED, LAN LED, Port LEDs at Front Side
- Compact and Light Design with Internal Power Supply

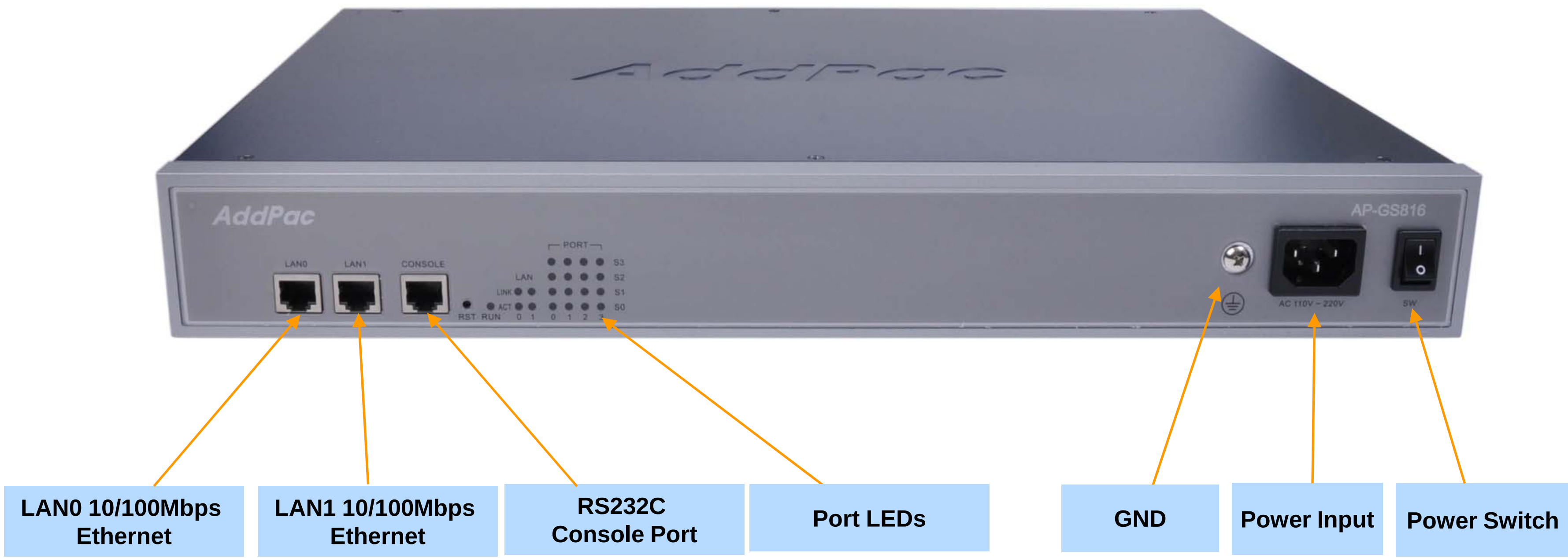
Hardware Specification

AP-GS816 16-Port GSM VoIP Gateway

RISC CPU

High-end DSP

Front Side View



Hardware Specification

AP-GS816 16-Port GSM VoIP Gateway

RISC CPU

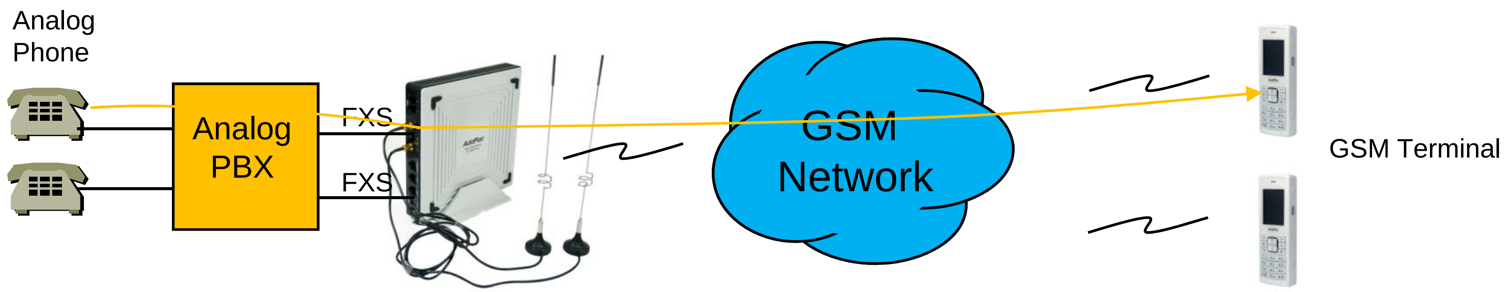
High-end DSP

Back Side View

GSM Gateway Function List

Contents

GSM Outbound Call



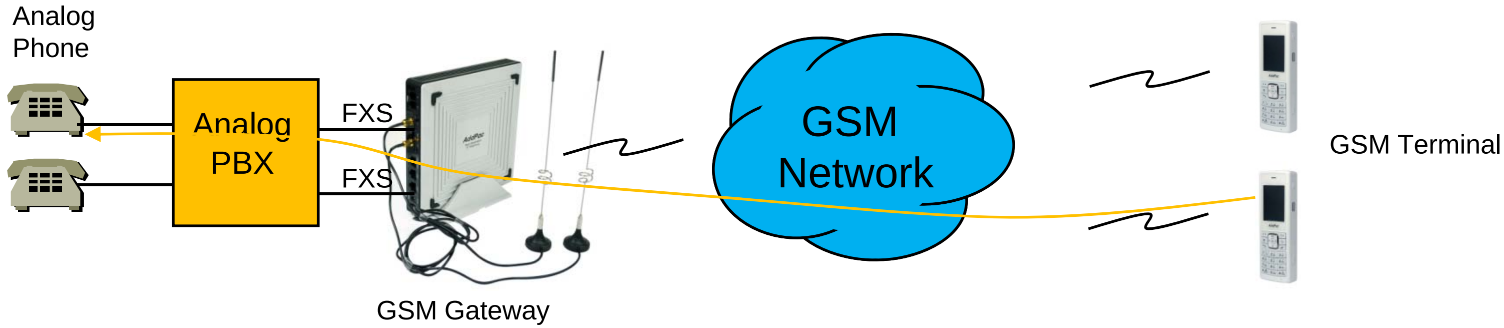
One(1) Stage Call

Two(2) Stage Call

Outbound Call (1 Stage)
: Making call to mobile phone from analog phone connected to FXS directly.

Outbound Call (2 Stage)
: Making call to mobile phone from analog phone connected to FXS after hearing of 2nd dial tone from AddPac GSM Gateway

GSM Inbound Call



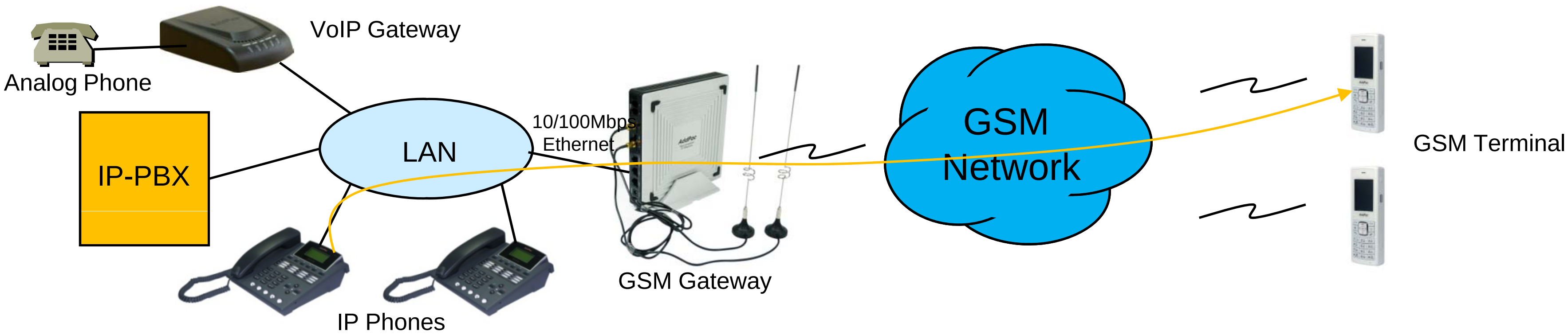
1 Stage Call (Baby Call)

2 Stage Call

Inbound Call (1 Stage) – Baby Call
: Making call to analog phone connected to FXS directly

Inbound Call (2 Stage)
: Making call to analog phone connected to FXS after hearing of 2nd dial tone from AP-GS1002

VoIP to GSM Outbound Call



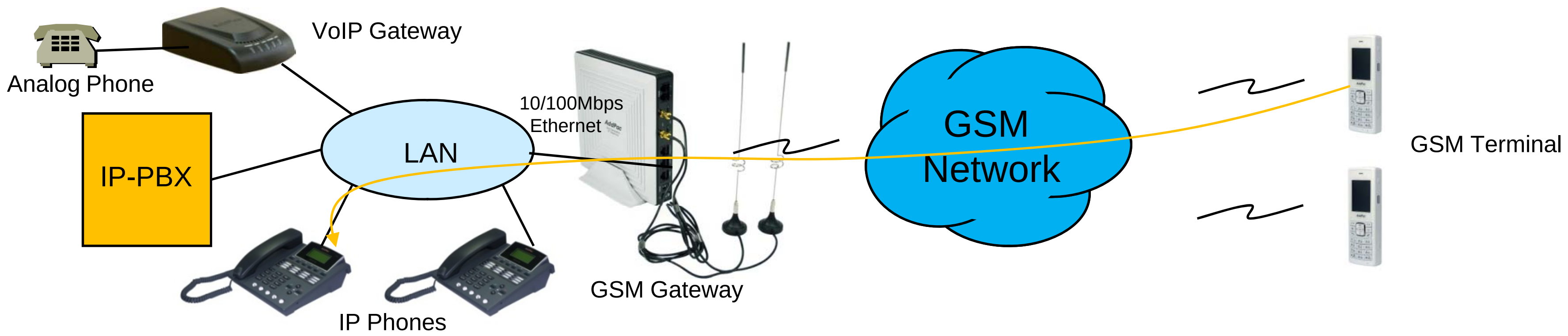
1 Stage Call

2 Stage Call

Outbound Call (1 Stage)
: Making call to mobile phone from analog phone connected to VoIP gateway or IP Phone directly

Outbound Call (2 Stage)
: Making call to mobile phone from analog phone connected to VoIP gateway after hearing of 2nd dial tone from GSM Gateway

VoIP to GSM Inbound Call



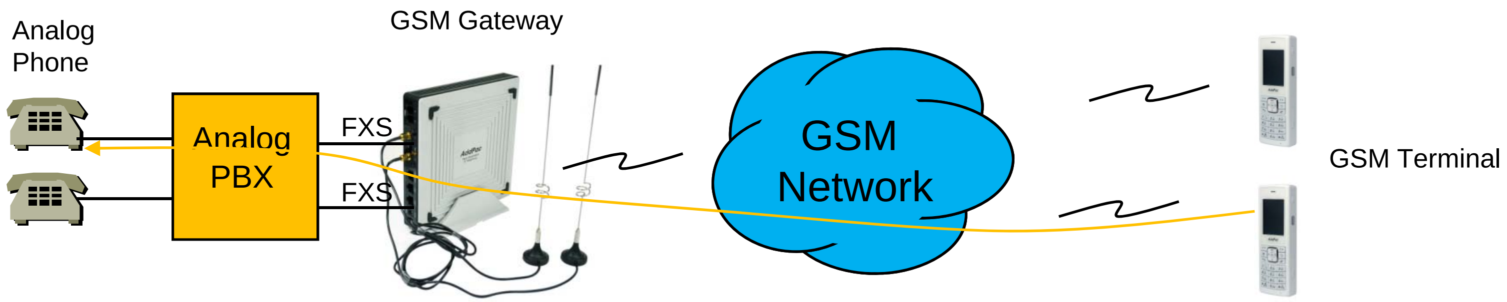
1 Stage Call (Baby Call)

2 Stage Call

Inbound Call (1 Stage) – Baby Call
: Making call to IP phone in VoIP network directly.

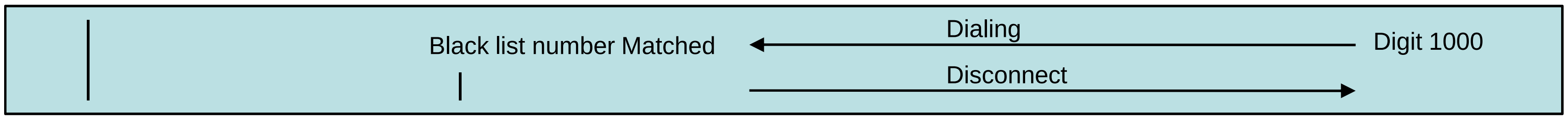
Inbound Call (2 Stage)
: Making call to IP phone in VoIP network after hearing of 2nd dial tone from GSM Gateway

GSM Inbound Call Black / White list

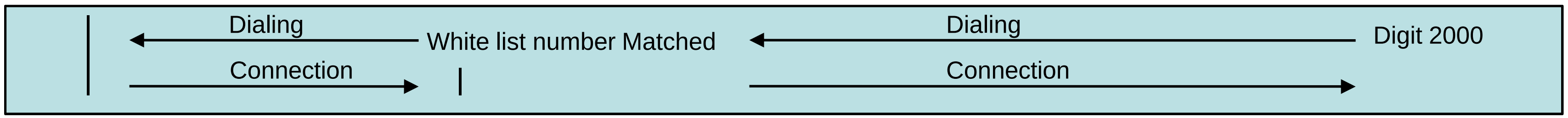


Black list	1000
White list	2000

Black list



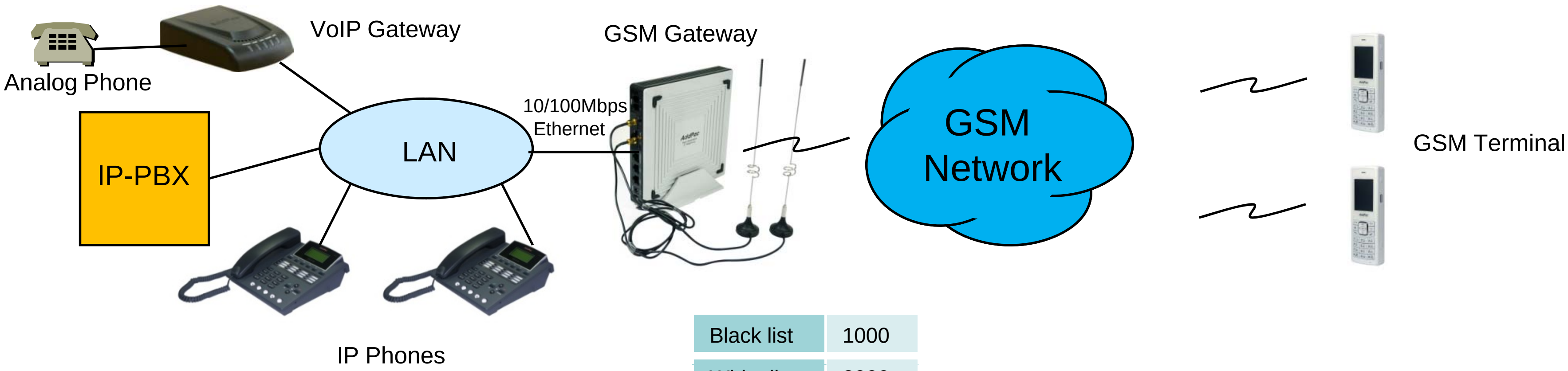
White list



Black list
: The number on black list is restricted to receive call.

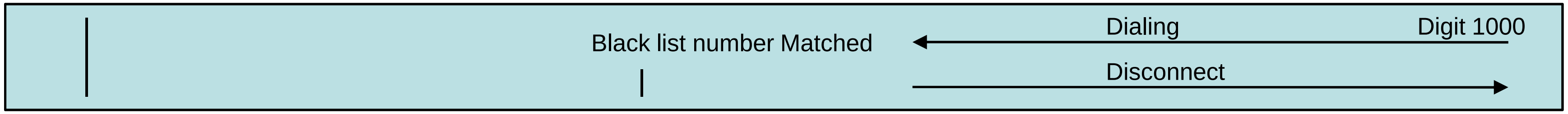
White list
: The only number on white list is allowed to receive call

VoIP to GSM Black / White list

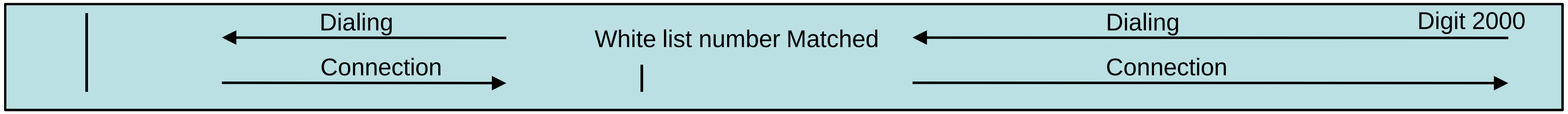


Black list	1000
White list	2000

Black list



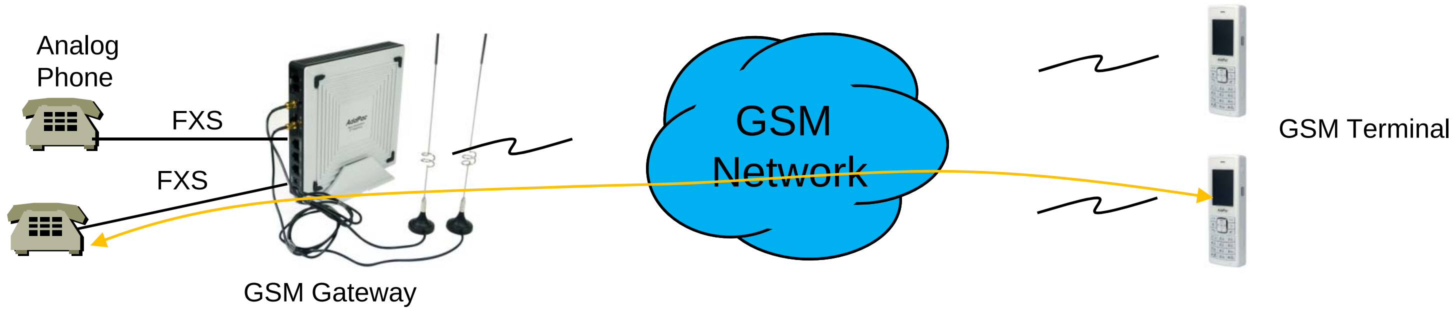
White list



Black list
: The number on black list is restricted to receive call.

White list
: The only number on white list is allowed to receive call

WEB Callback Service

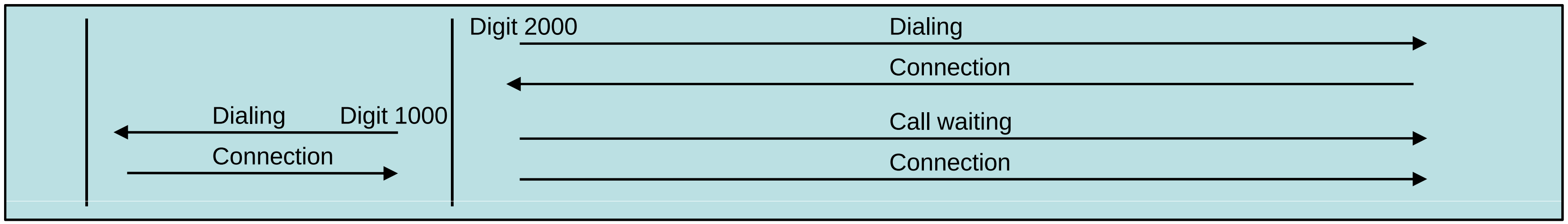


Origination number(1000)

WEB Call back White list	1000

Destination number(2000)

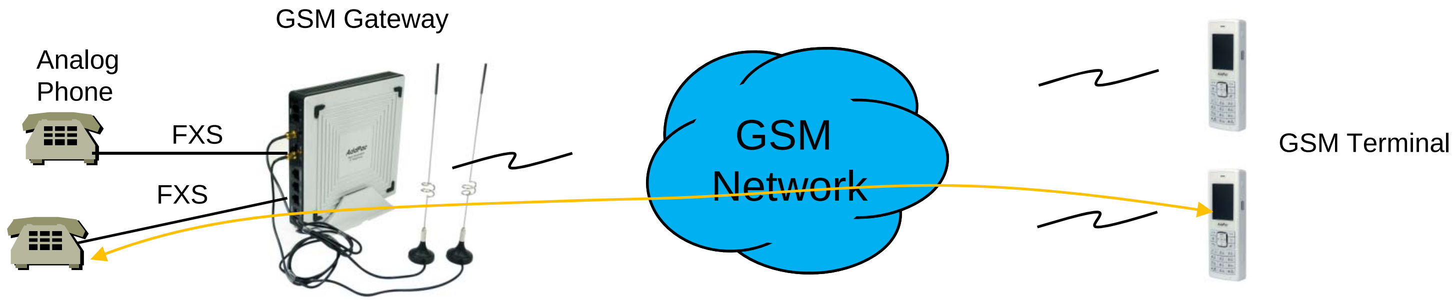
WEB Callback Service



WEB Callback Service

: The remote call is made by user's control by WEB Interface.
The WEB callback number on white list must be the same of source number.

GSM Callback Service

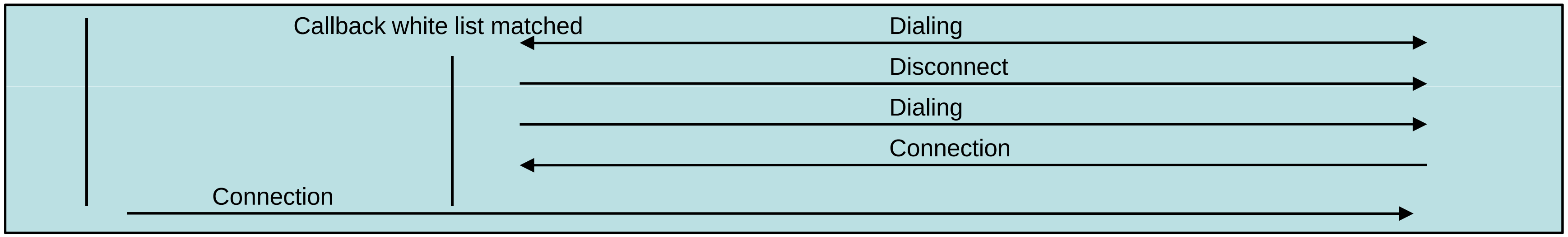


Origination number(1000)

Call back White list	2000

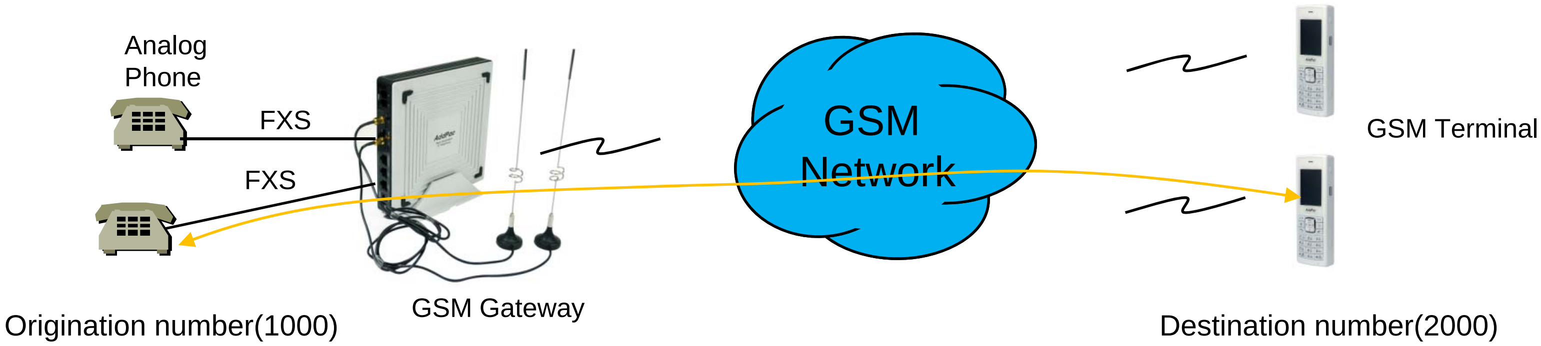
Destination number(2000)

GSM Callback Service

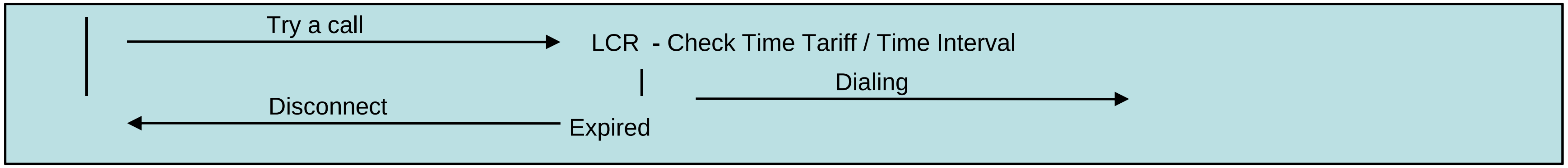


GSM Callback Service
: When the user on the callback white list makes call, GSM Gateway disconnects it and makes call back to the user

LCR(Least Cost Routing)



LCR(Least Cost Routing)

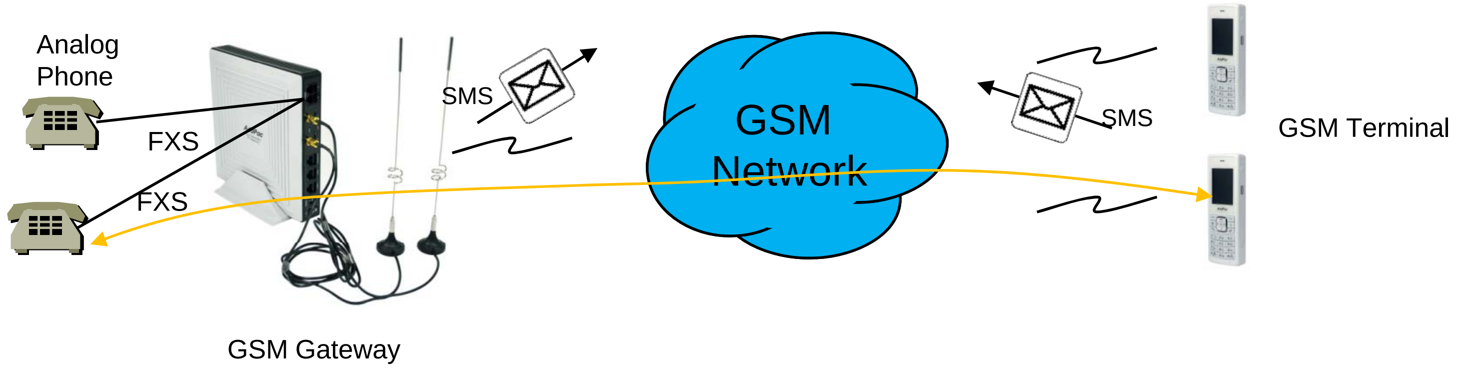


GSM LCR Time Interval
: The only registered user is allowed to use GSM call in the rule of date, week, and time

GSM LCR Time Tariff
: User is able to check remained time, used time listed on LCR, etc

GSM LCR Simulator
: GSM Gateway supports virtual call simulation used on WEB

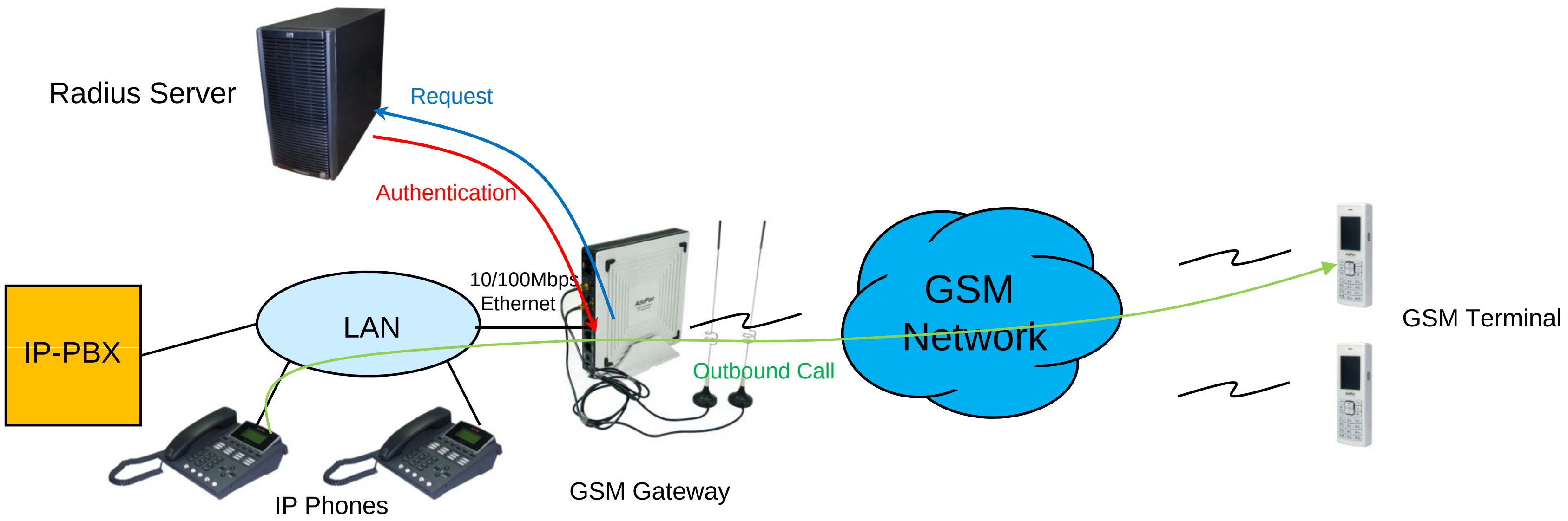
GSM Messaging Service



GSM Messaging Service
: SMS is able to send and receive by GSM Gateway's WEB Interface
: English, Korean, Spanish, Russian, Portuguese

USSD
: In case of using Pre-paid SIM card, checking and recharging is allowed by GSM Gateway

Radius Server Interoperability



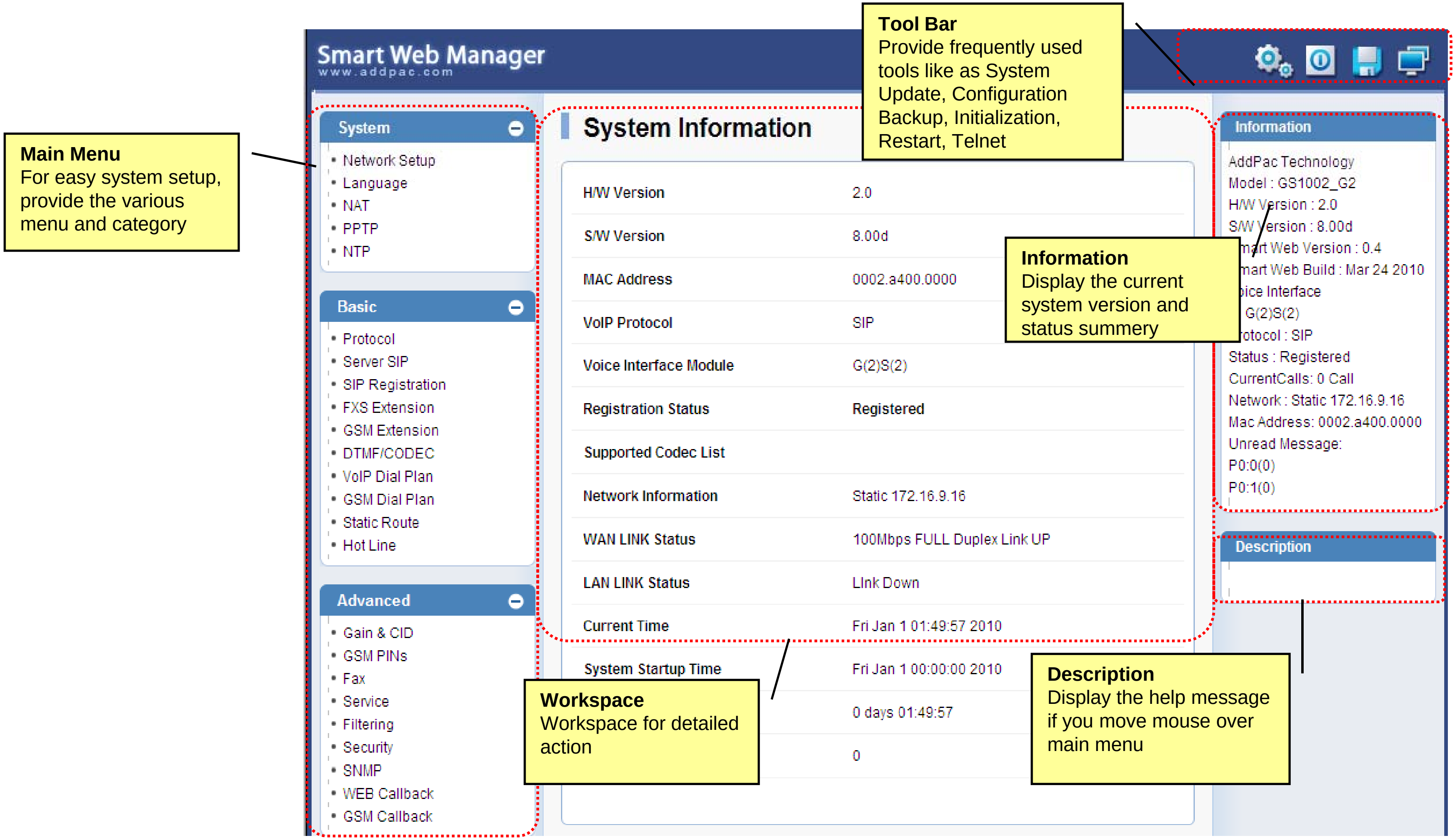
Radius Server Interoperability
: When billing system is required, GSM gateway supports radius server interoperability

Smart Web Manager for GSM 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



System – Network Setup

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

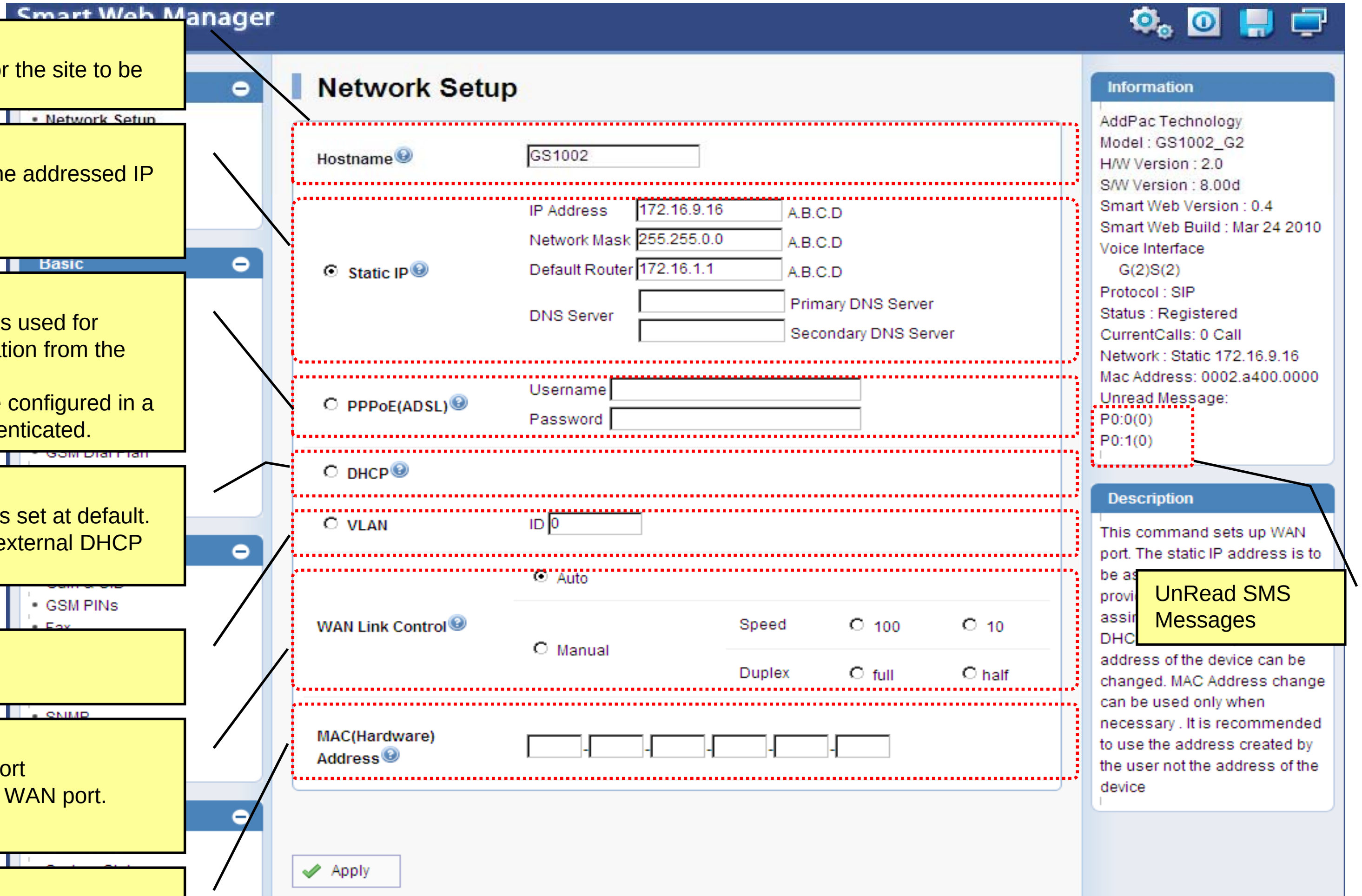
PPPoE
This is ADSL mode. This mode is used for addressing IP though authentication from the modem.
At this time, the modem must be configured in a way that the device can be authenticated.

DHCP
This is dynamic IP mode which is set at default. The IP can 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.

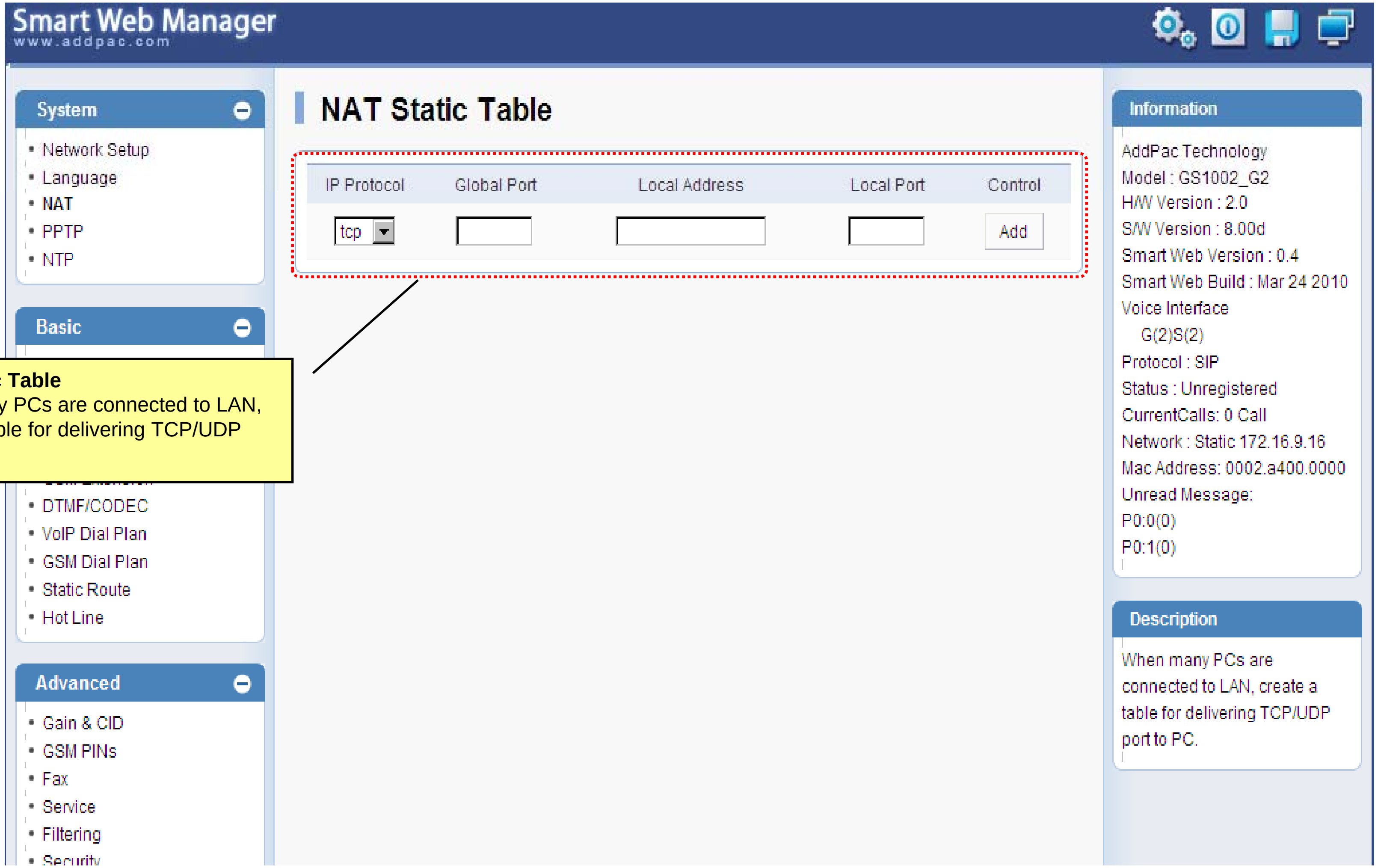


UnRead SMS Messages

System - Language

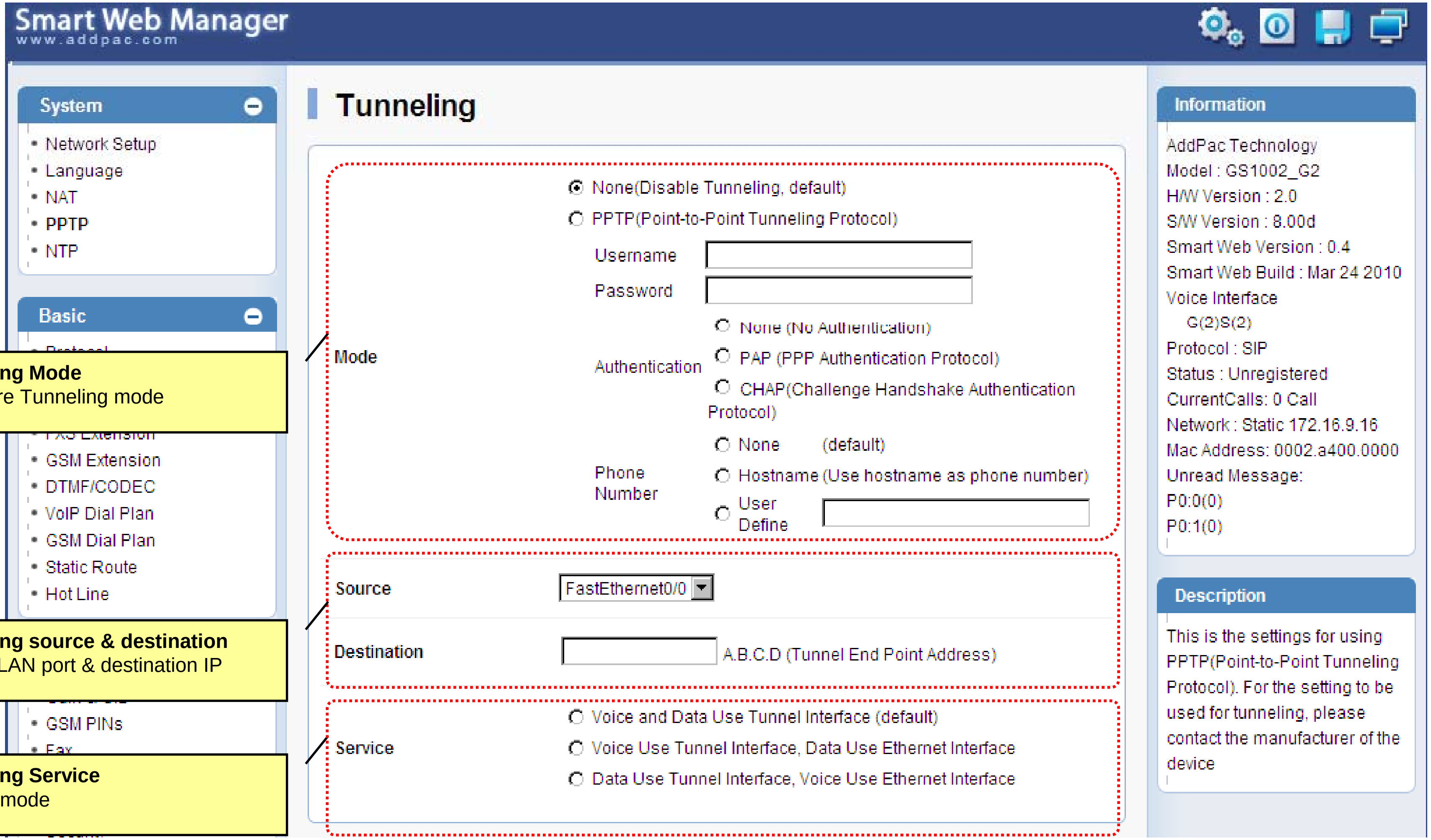
Configure Language
English, Korea

System - NAT



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

System - PPTP

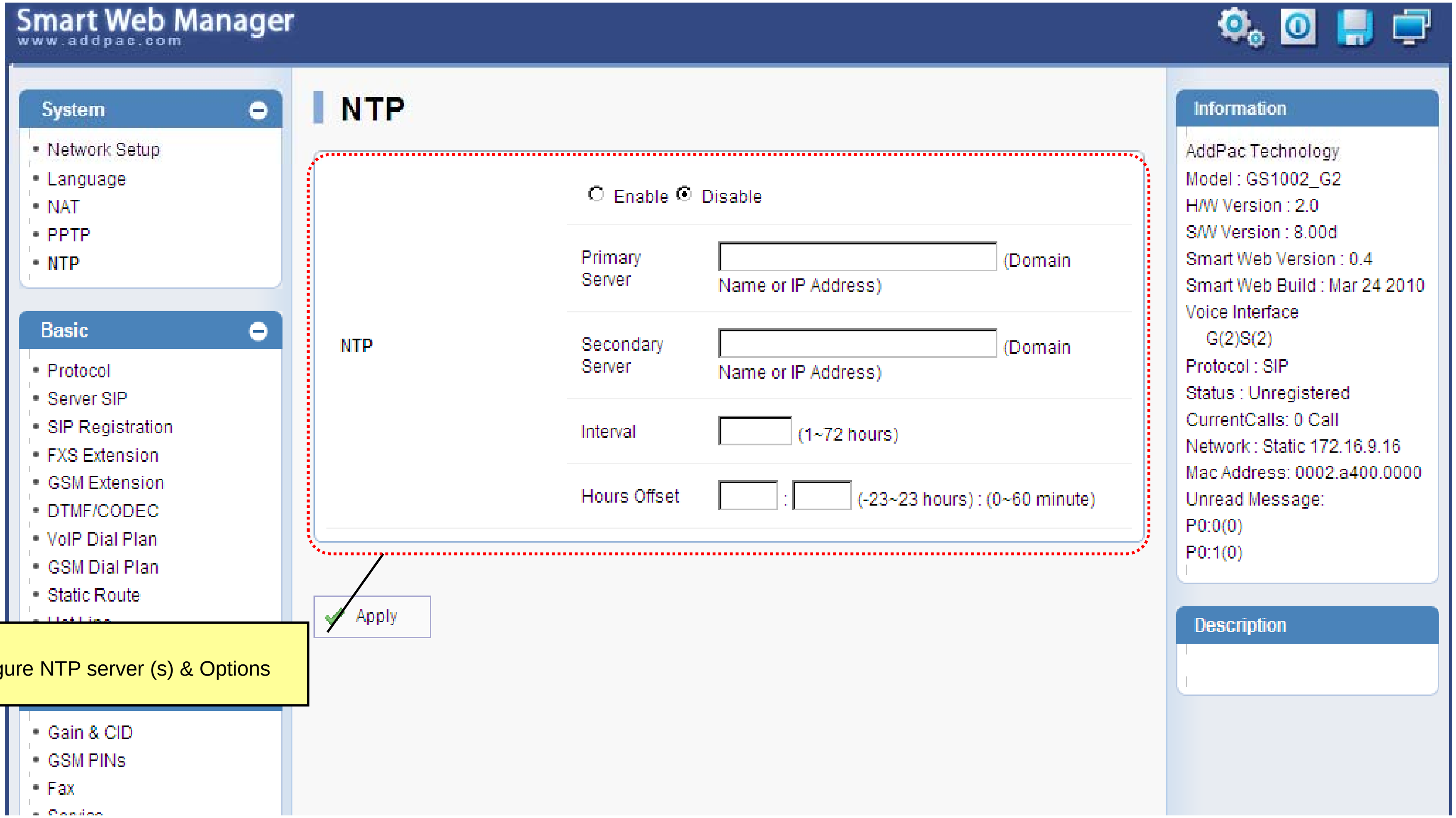


Tunneling Mode
Configure Tunneling mode

Tunneling source & destination
Source LAN port & destination IP

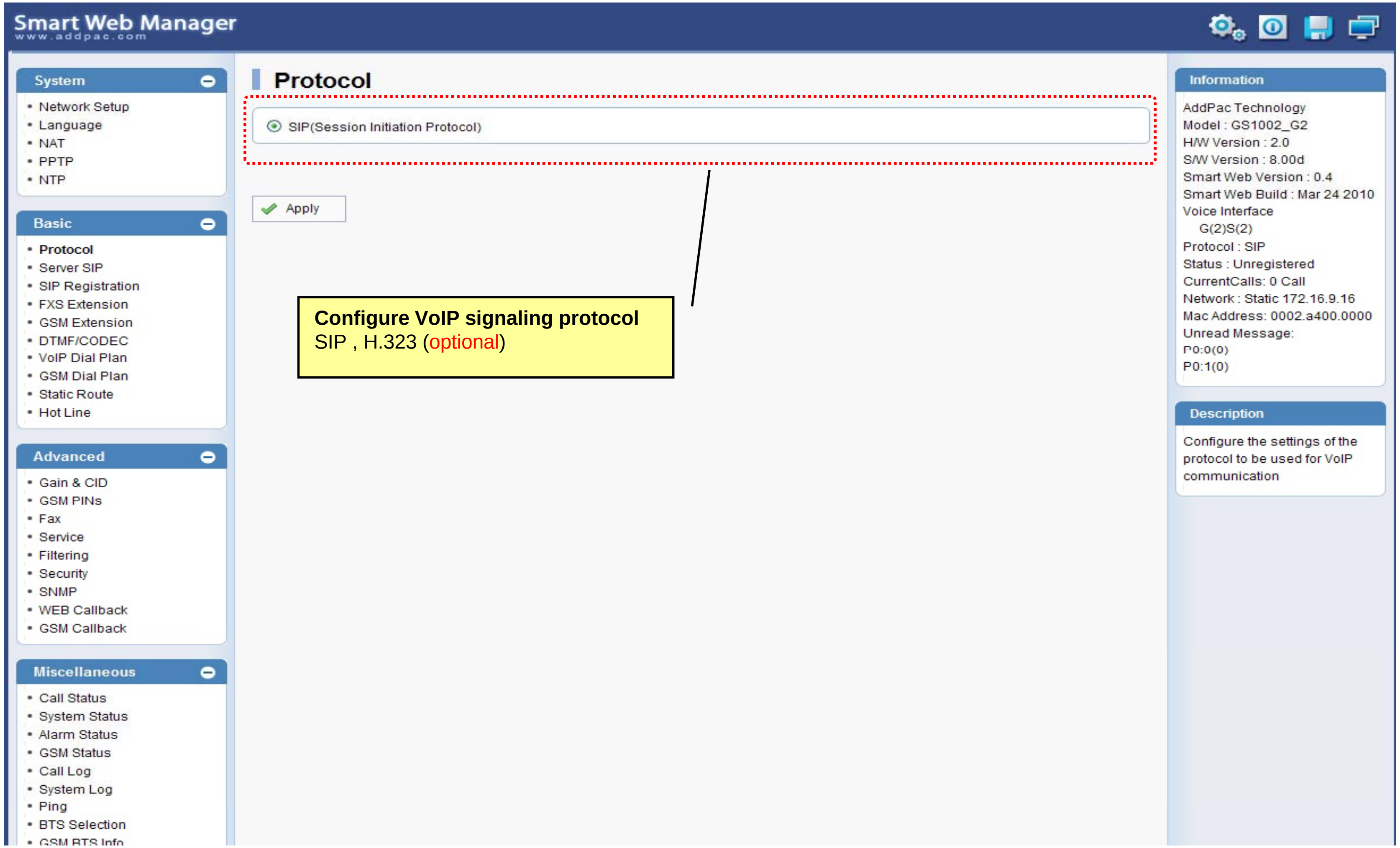
Tunneling Service
Service mode

System - NTP

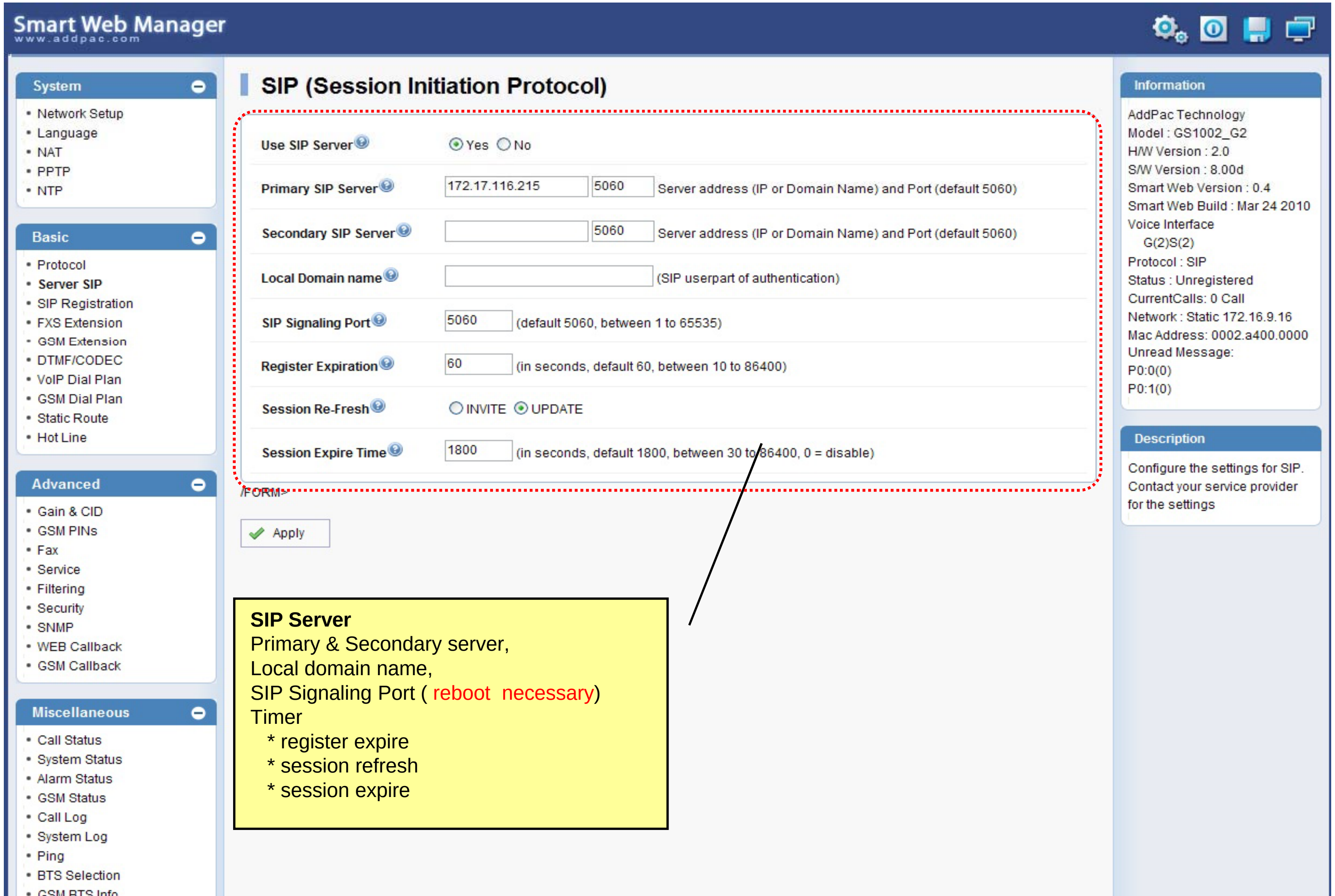


NTP
Configure NTP server (s) & Options

Basic - Protocol

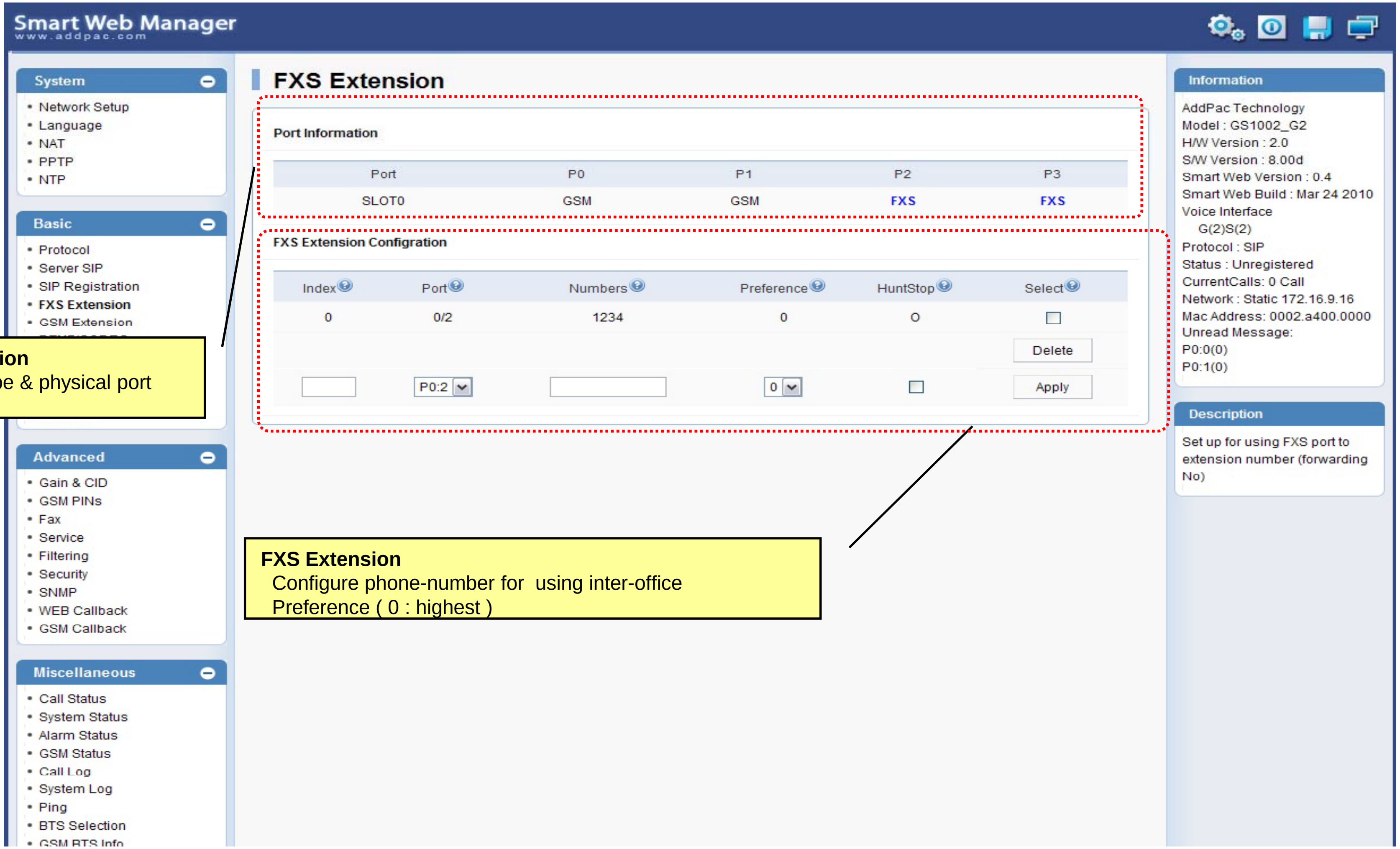


Basic – SIP Server



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

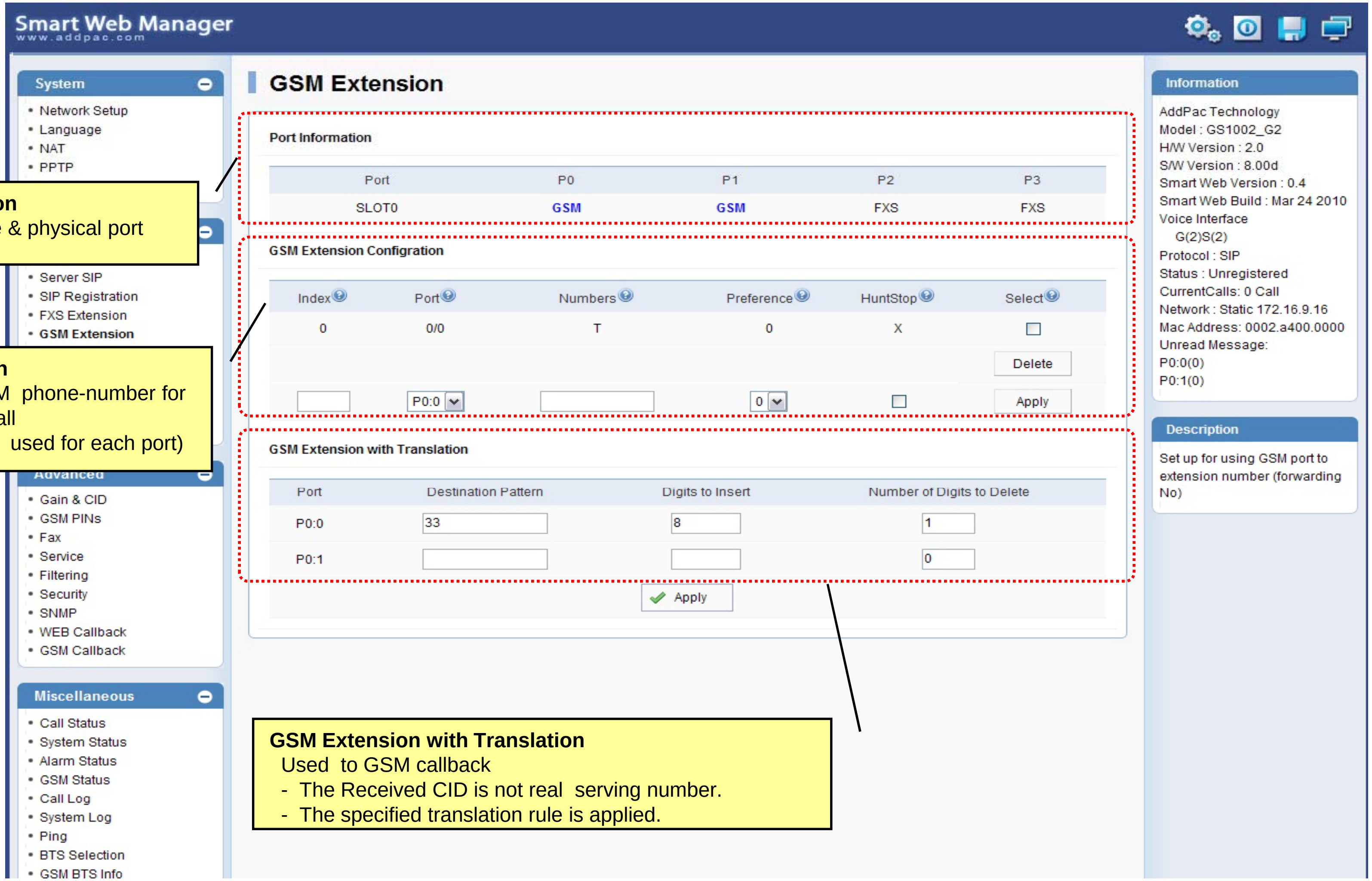
Basic – FXS Extension



Port Information
voice port type & physical port

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

Basic – GSM Extension



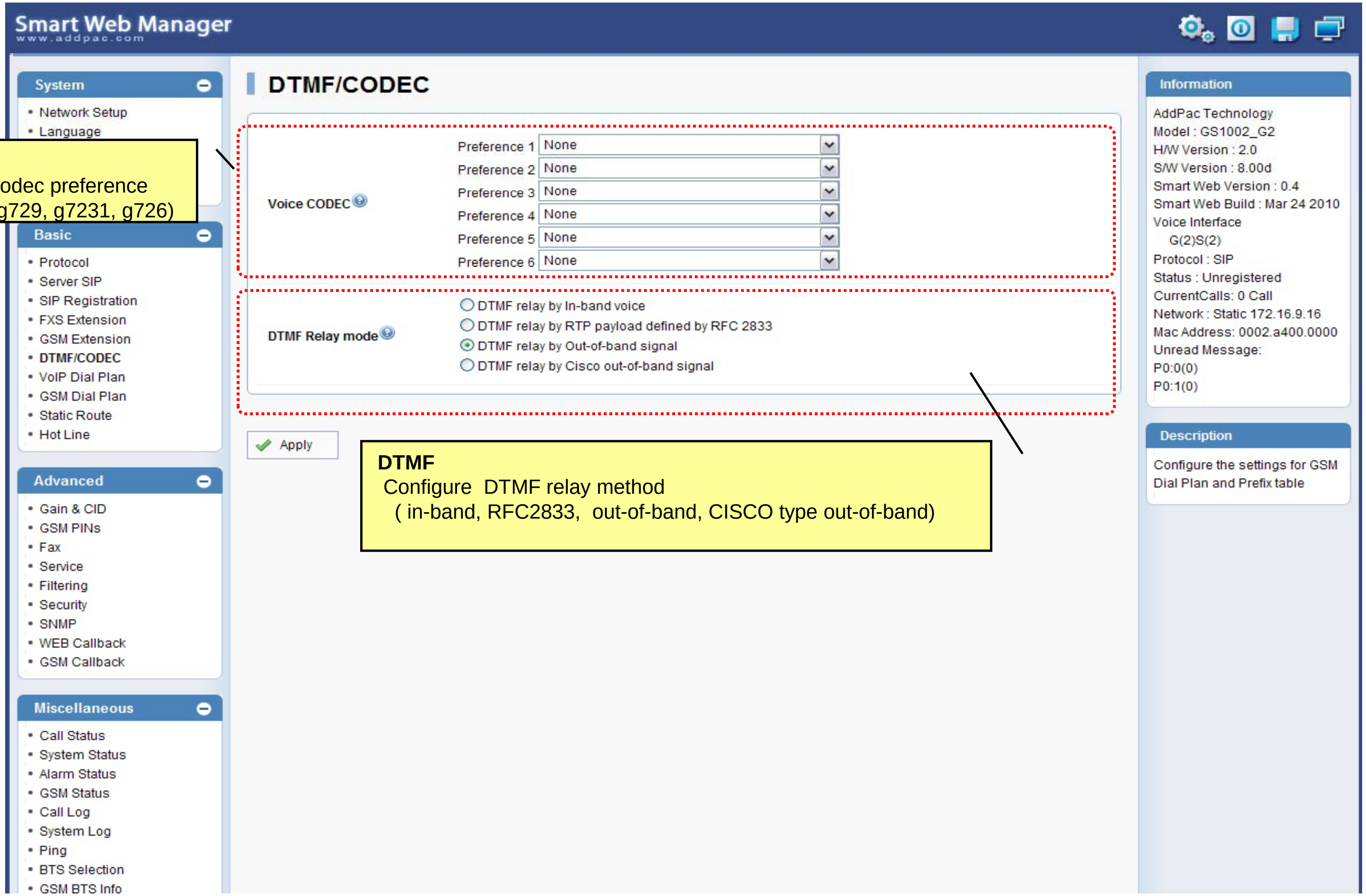
Port Information
voice port type & physical port

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.

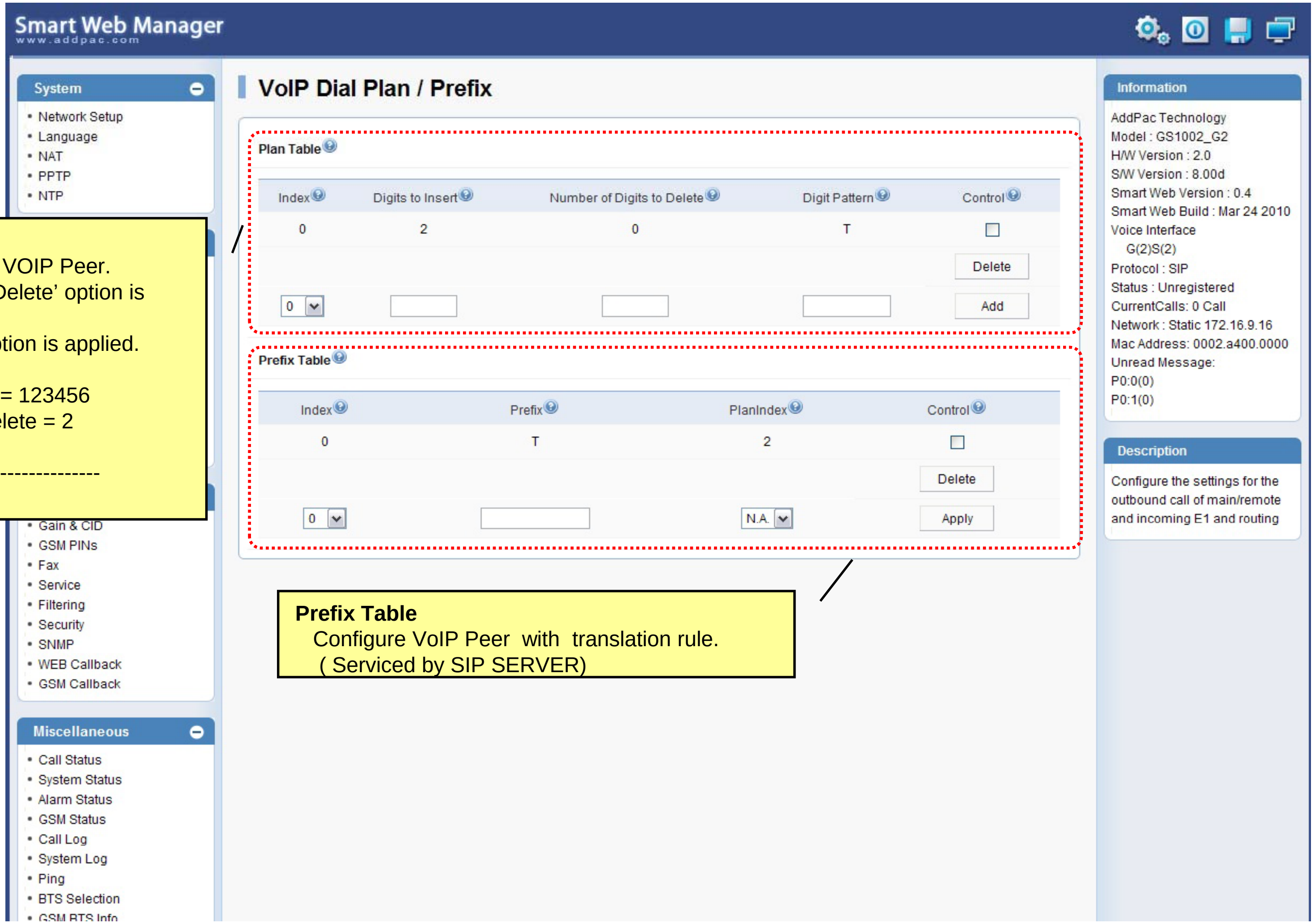
Basic – DTMF/CODEC

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)

Basic – VoIP Dial Plan

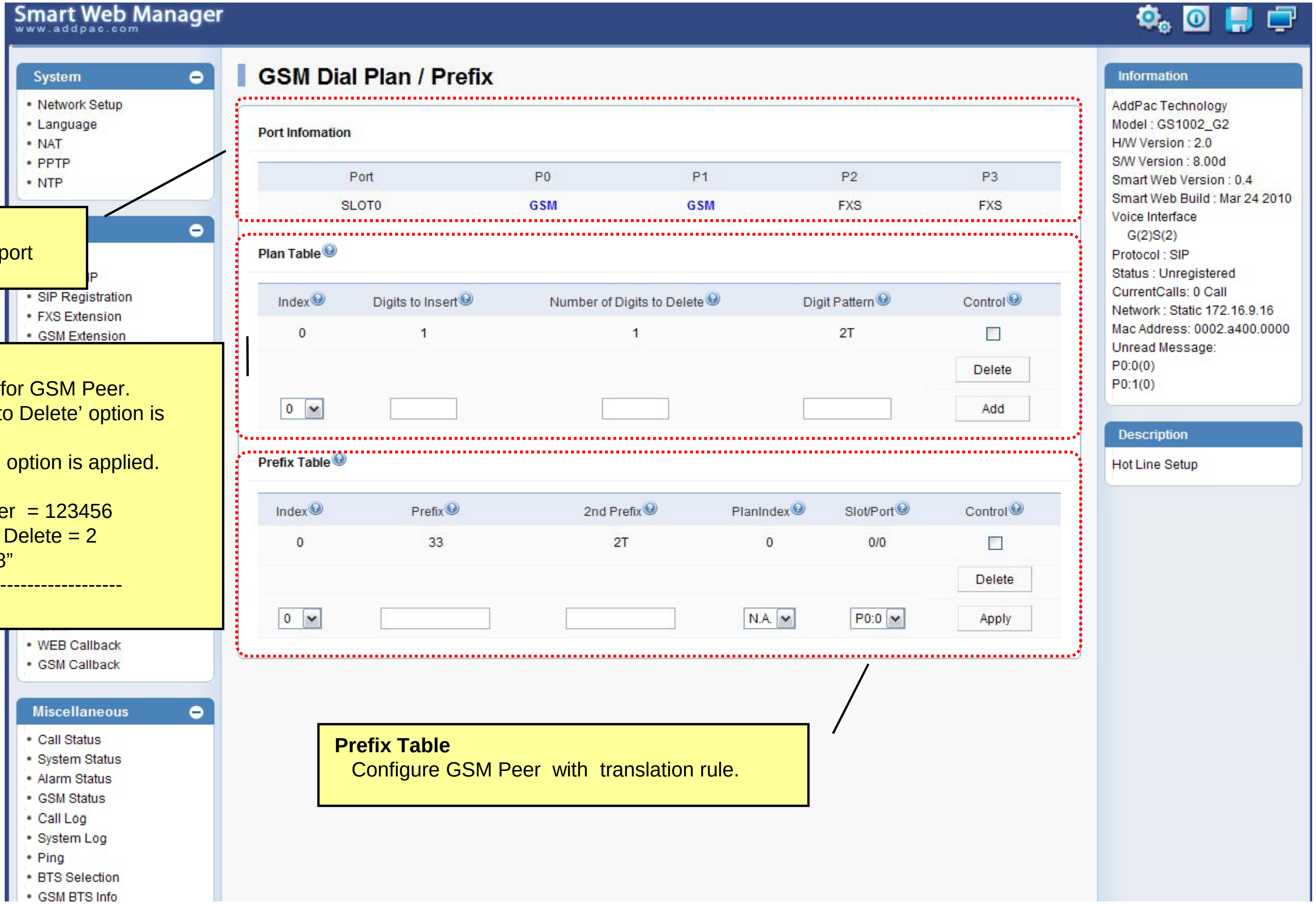


VoIP PLAN
Configure translation rule for VOIP Peer.
- first, 'Number of Digits to Delete' option is applied.
- second, 'Digits to Insert' option is applied.

(ex) Origin called Number = 123456
Number of Digits to Delete = 2
Digits to Insert = "88"
----
result = 883456

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

Basic – GSM Dial Plan



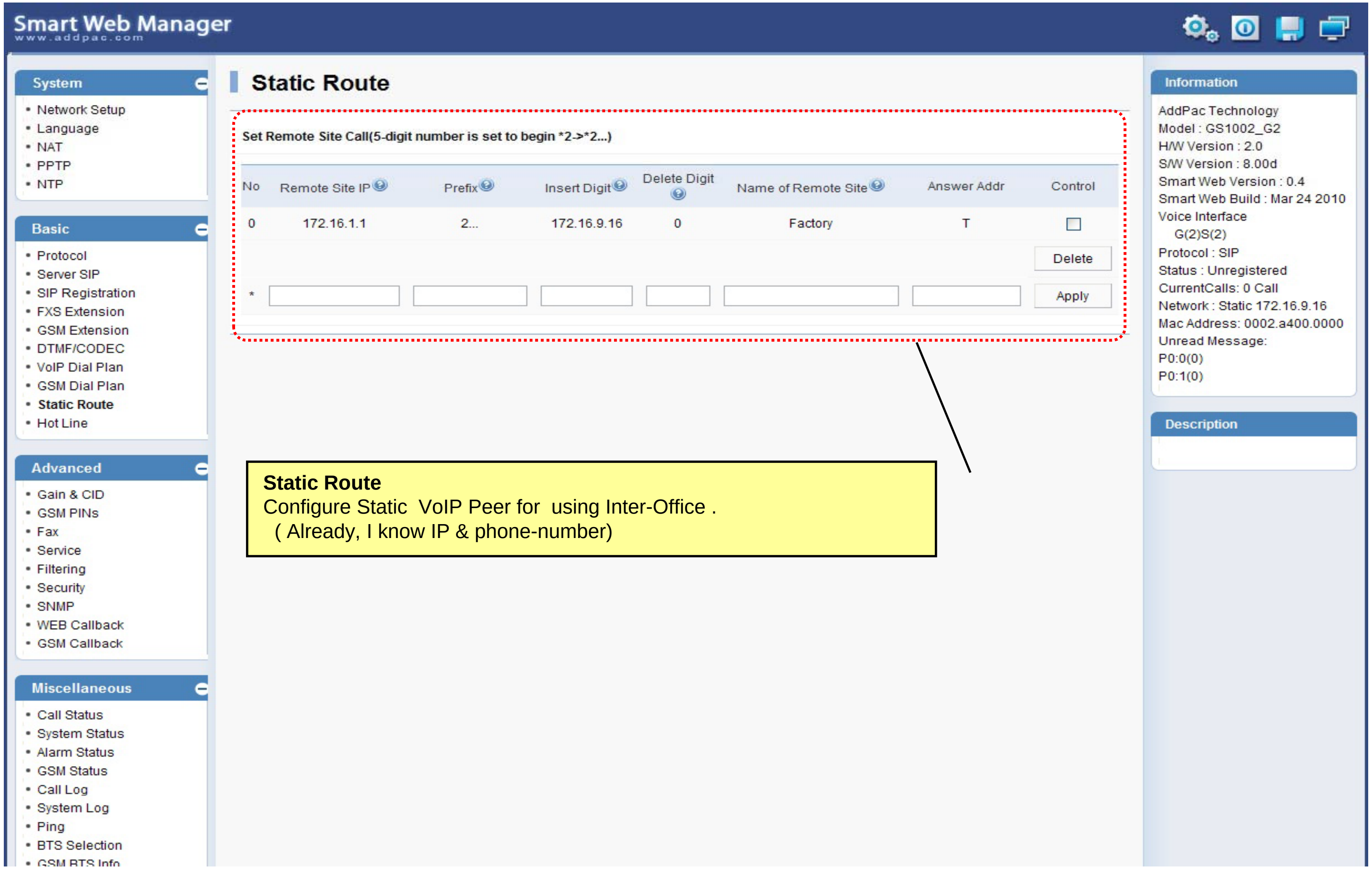
Port Information
voice port type & physical port

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

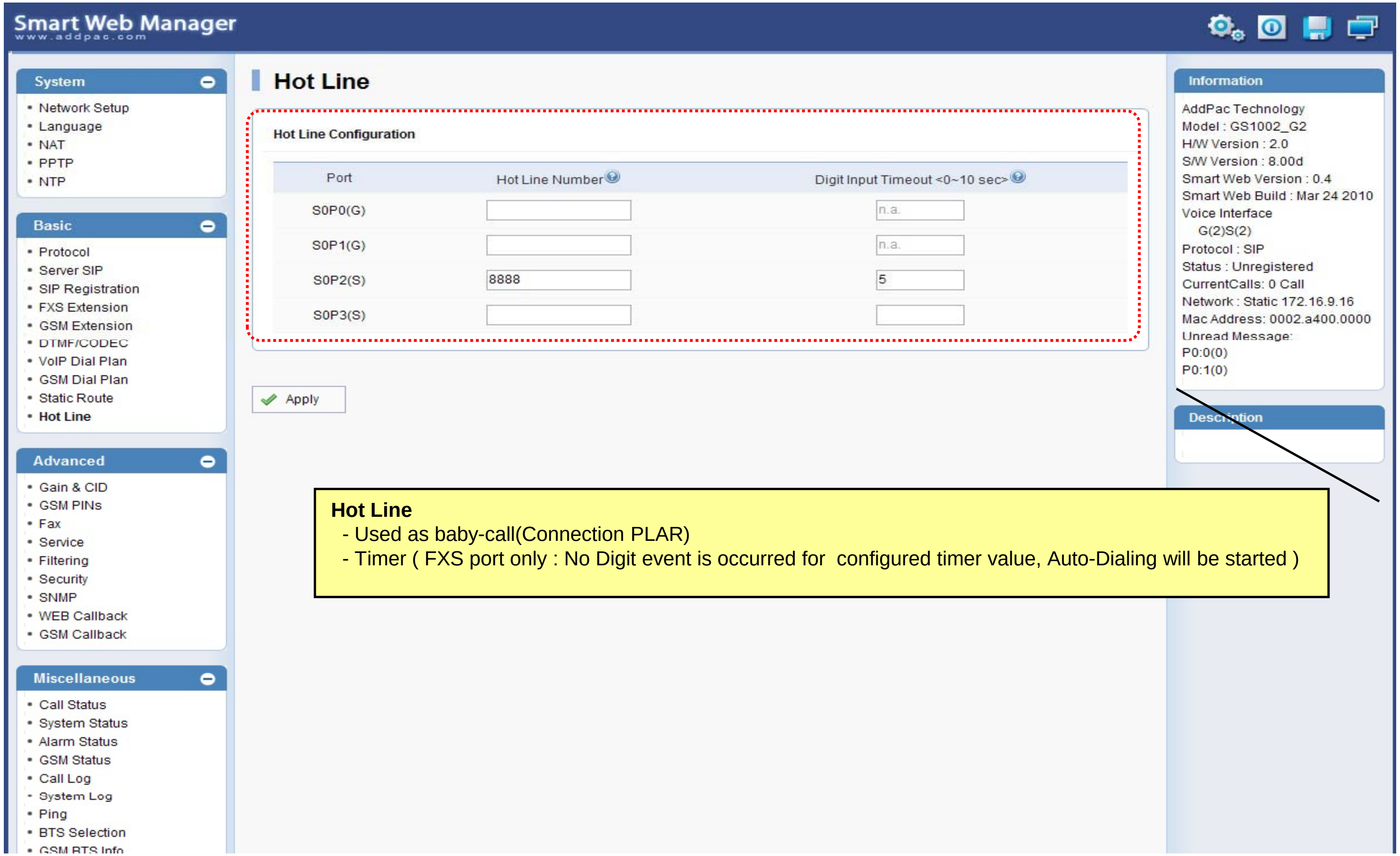
Prefix Table
Configure GSM Peer with translation rule.

Basic – Static Route



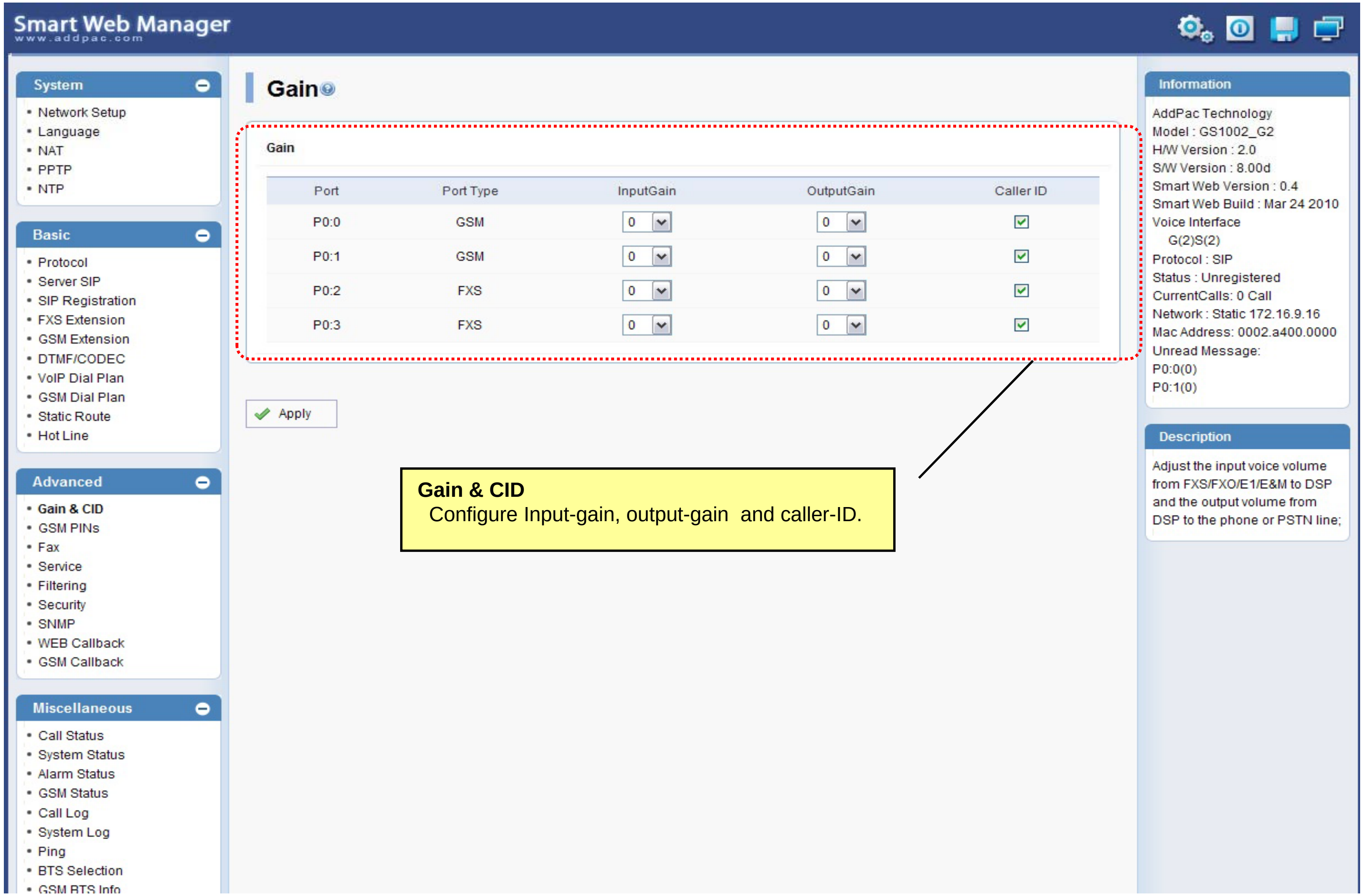
Static Route
Configure Static VoIP Peer for using Inter-Office .
(Already, I know IP & phone-number)

Basic – Hot Line



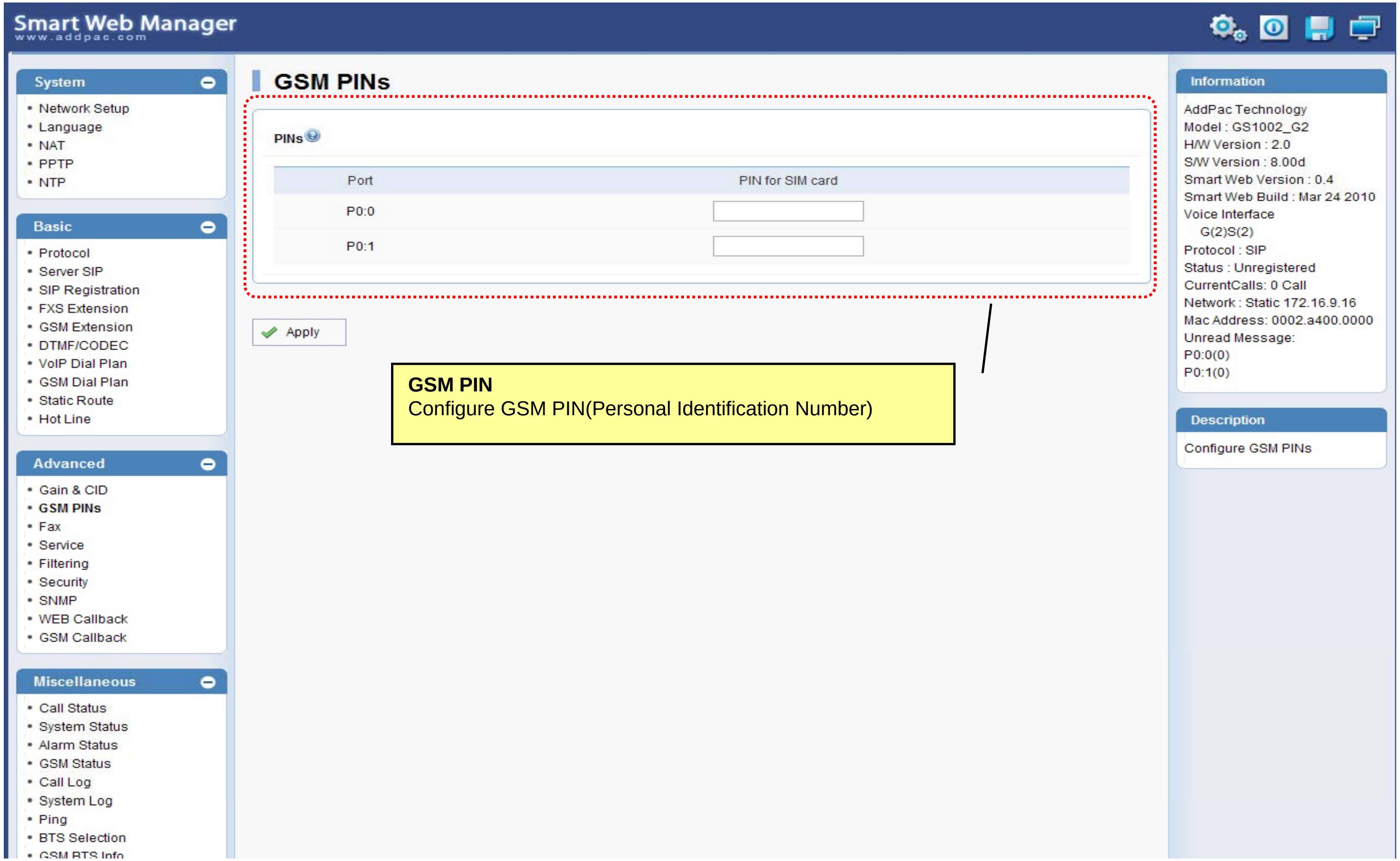
Hot Line
- Used as baby-call(Connection PLAR)
- Timer (FXS port only : No Digit event is occurred for configured timer value, Auto-Dialing will be started)

Advanced – Gain & CID



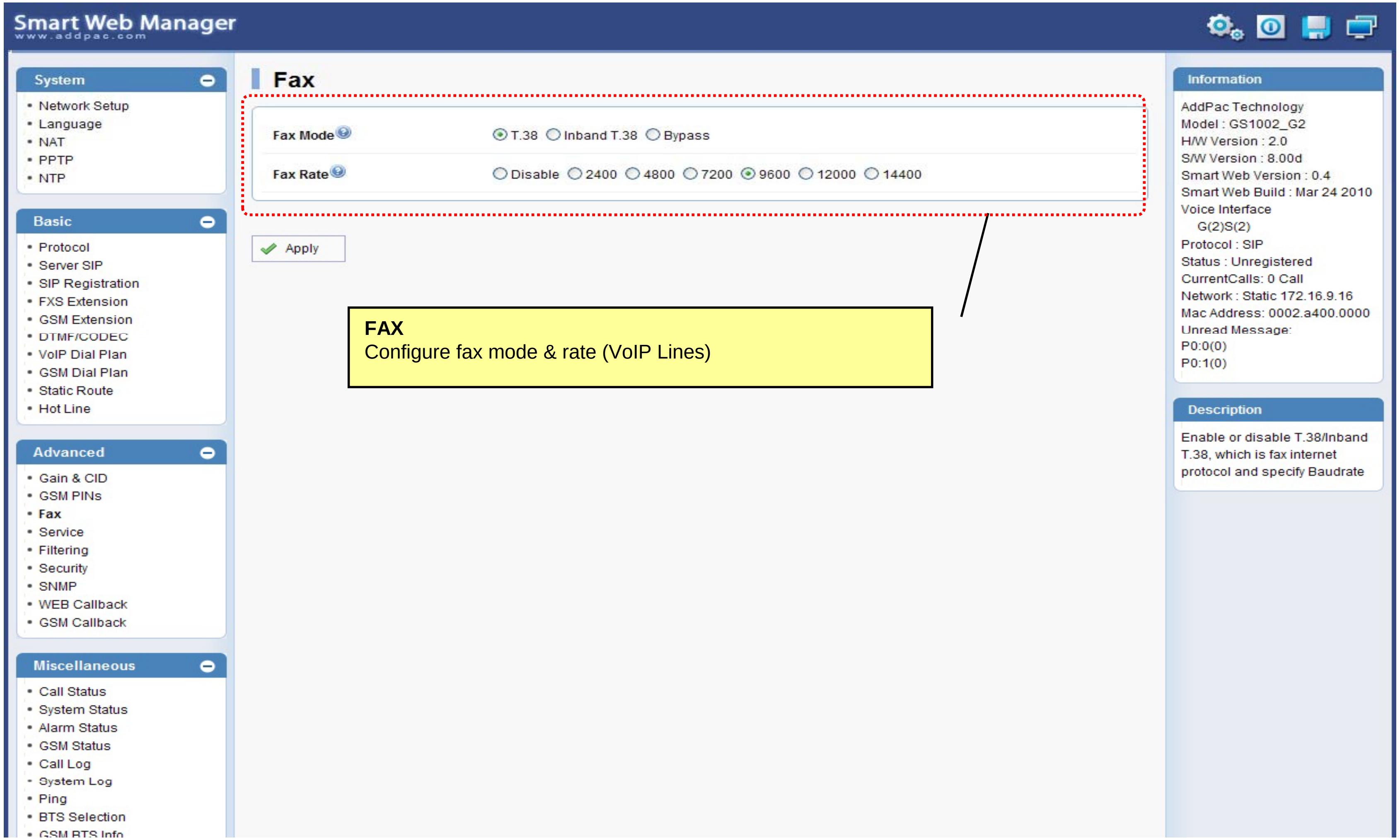
Gain & CID
Configure Input-gain, output-gain and caller-ID.

Advanced – GSM PINs

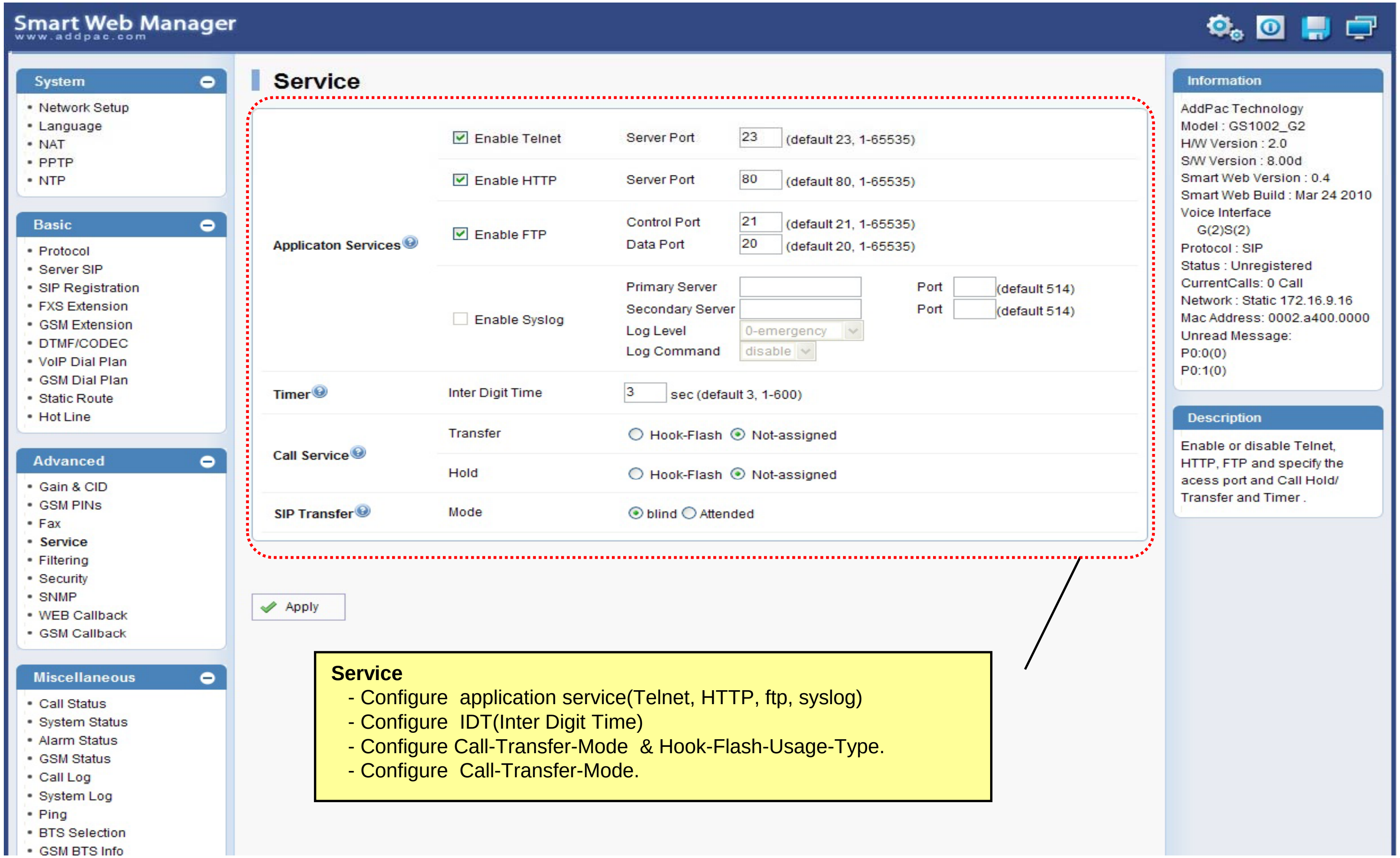


GSM PIN
Configure GSM PIN(Personal Identification Number)

Advanced - Fax

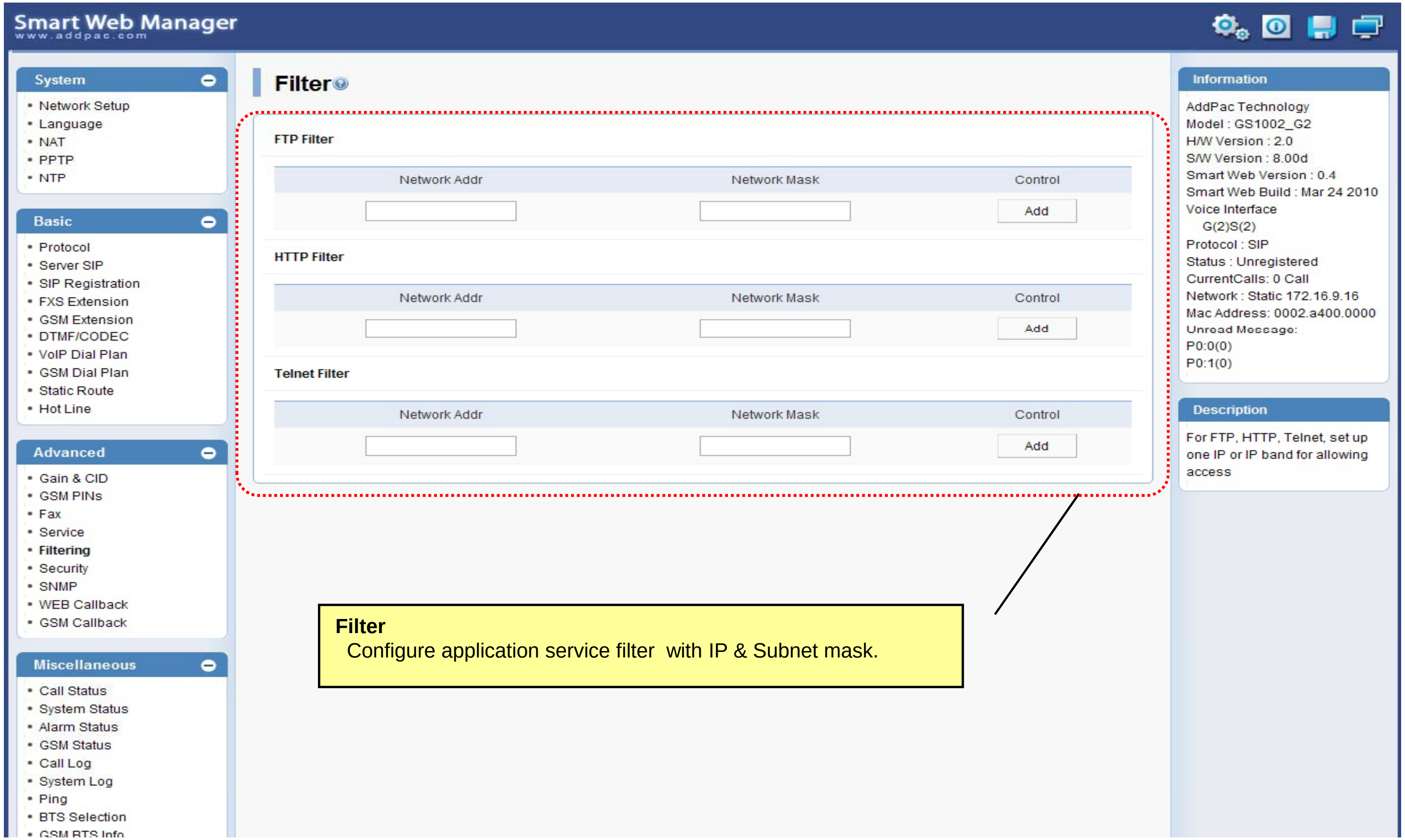


Advanced - Service



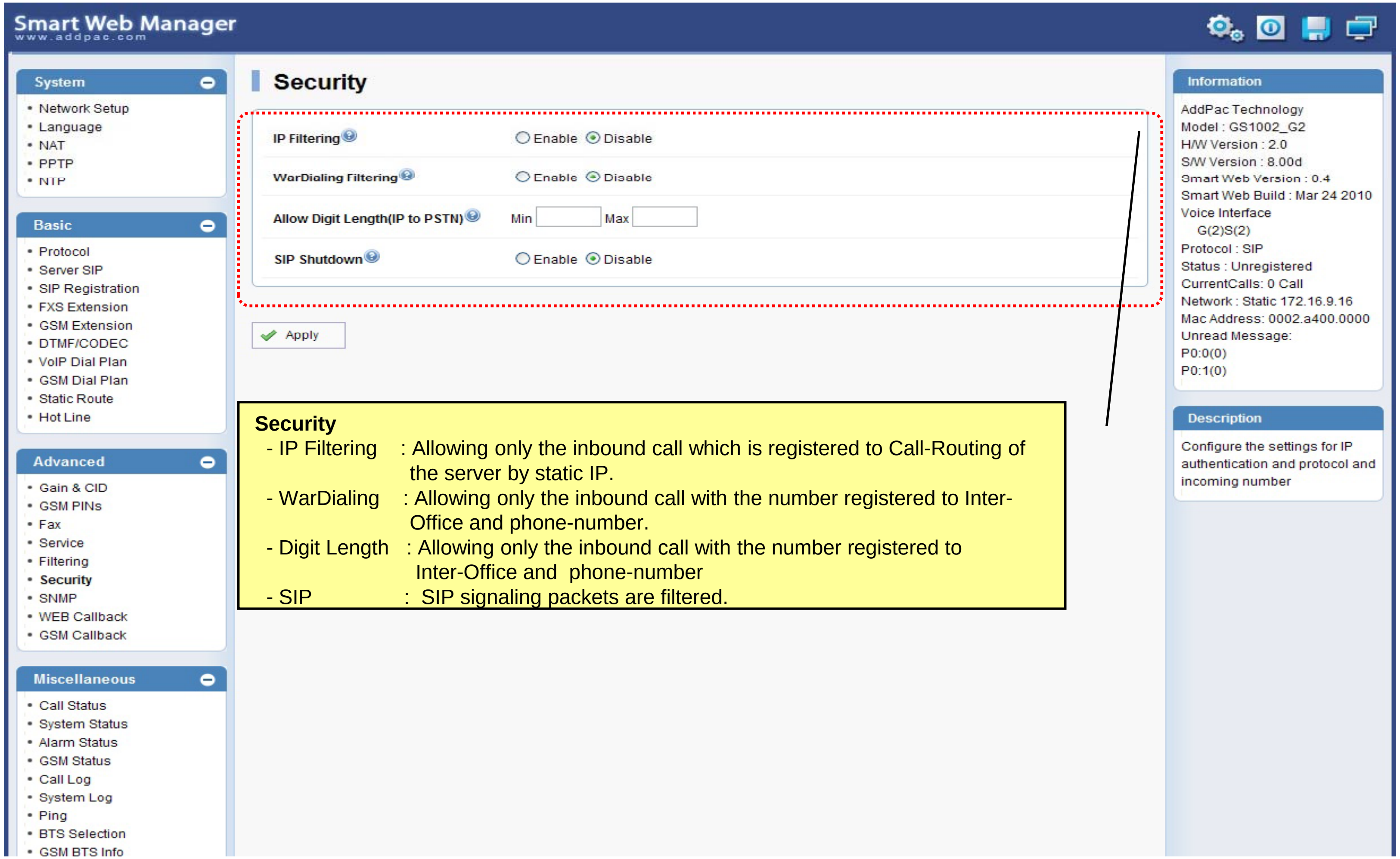
Service
- Configure application service(Telnet, HTTP, ftp, syslog)
- Configure IDT(Inter Digit Time)
- Configure Call-Transfer-Mode & Hook-Flash-Usage-Type.
- Configure Call-Transfer-Mode.

Advanced - Filtering



Filter
Configure application service filter with IP & Subnet mask.

Advanced - Security



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

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.

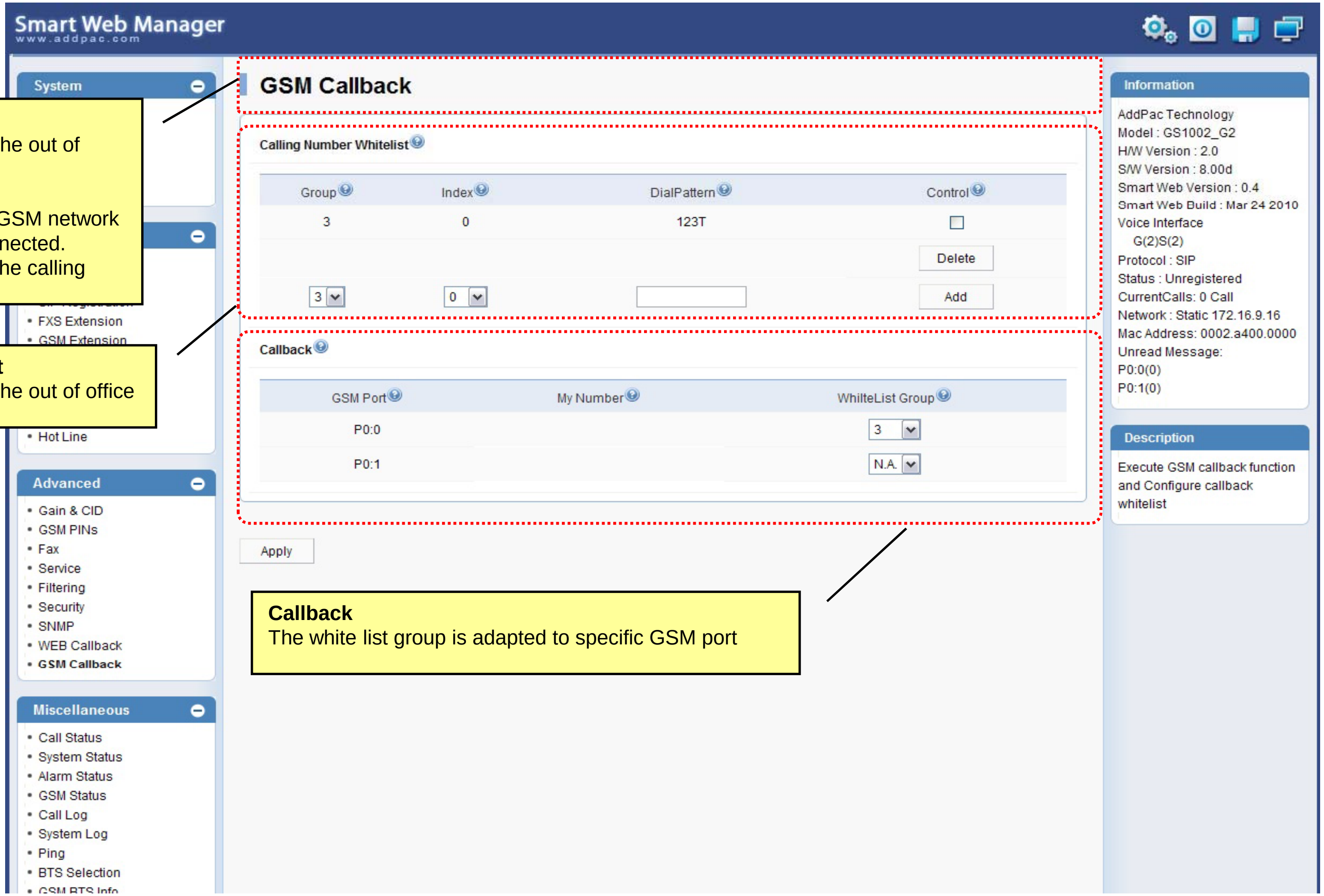
Status Viewer
Display real-time call staus.

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.

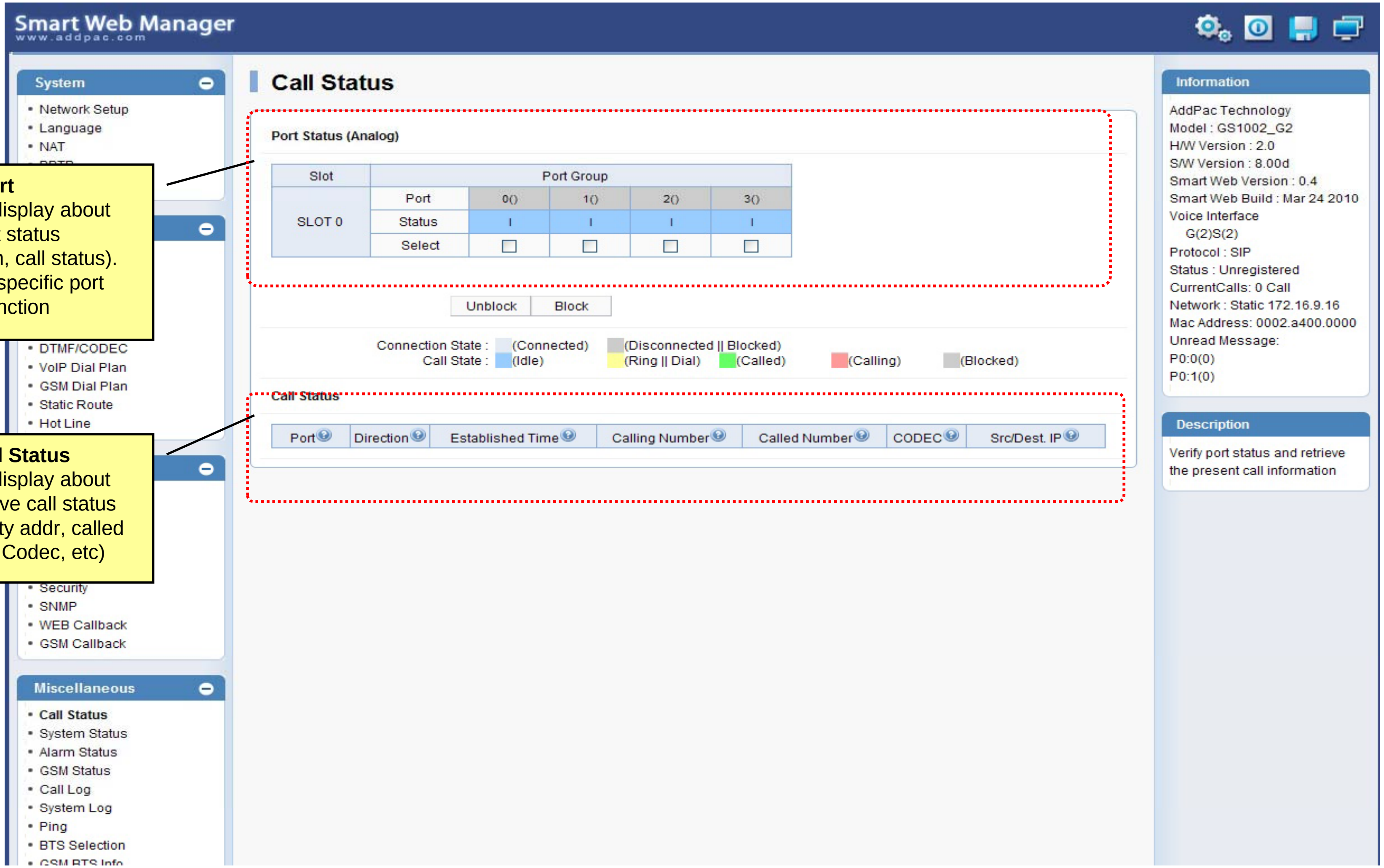


Callback
The white list group is adapted to specific GSM port

Miscellaneous – Call Status

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

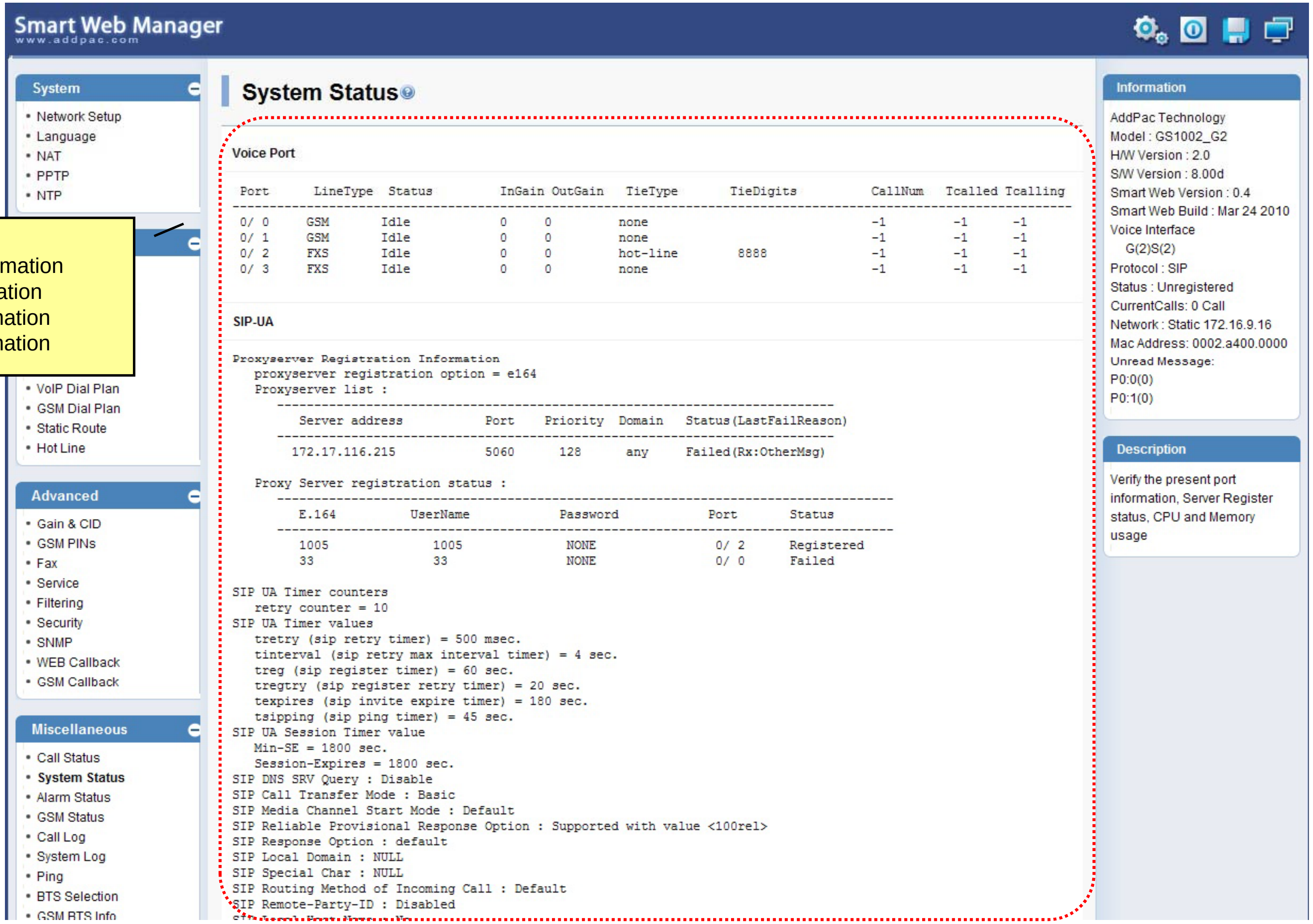
Active Call Status
Real-time display about current active call status (calling party addr, called party addr. Codec, etc)



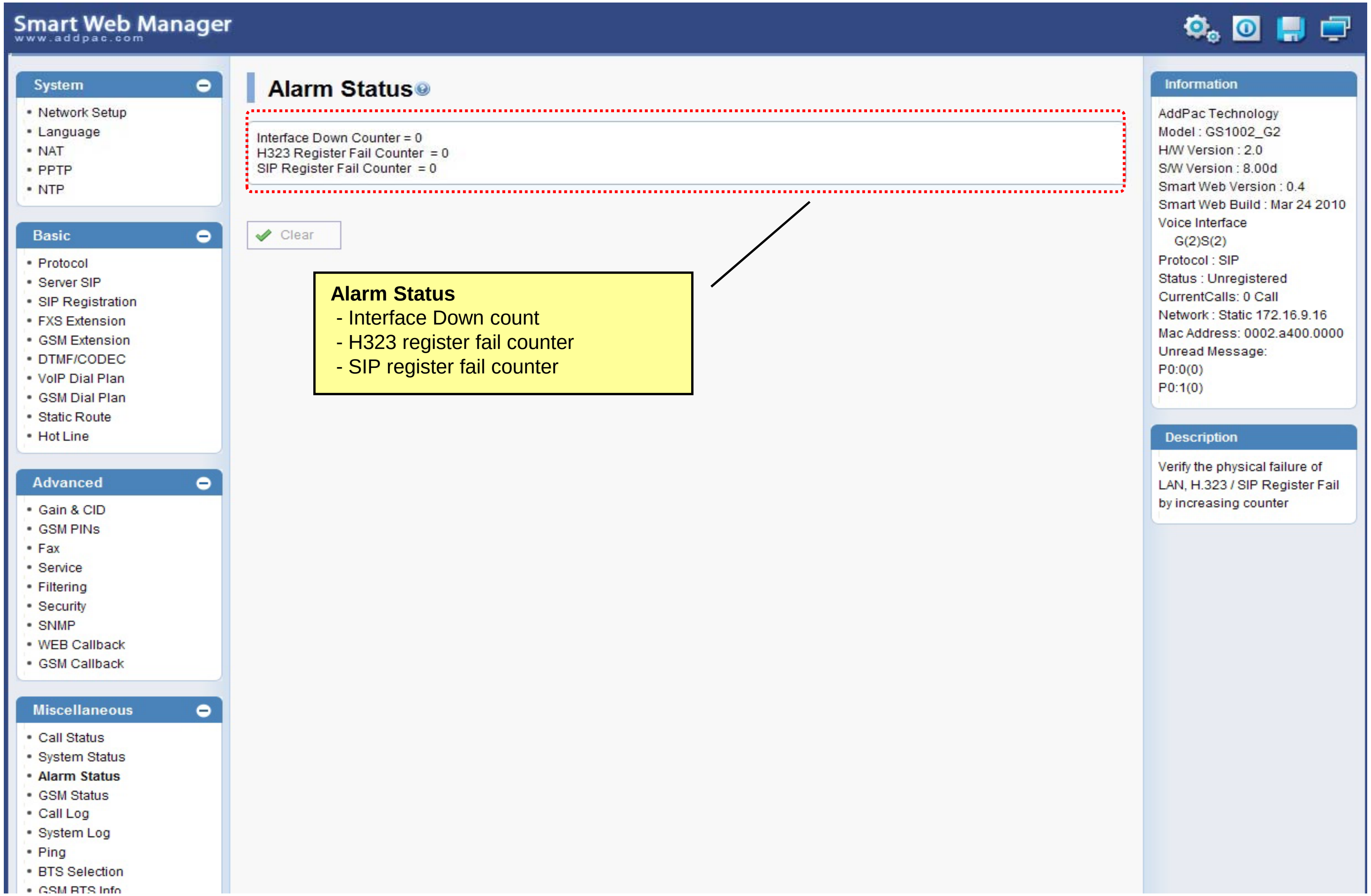
Miscellaneous – System Status

System Status

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



Miscellaneous – Alarm Status

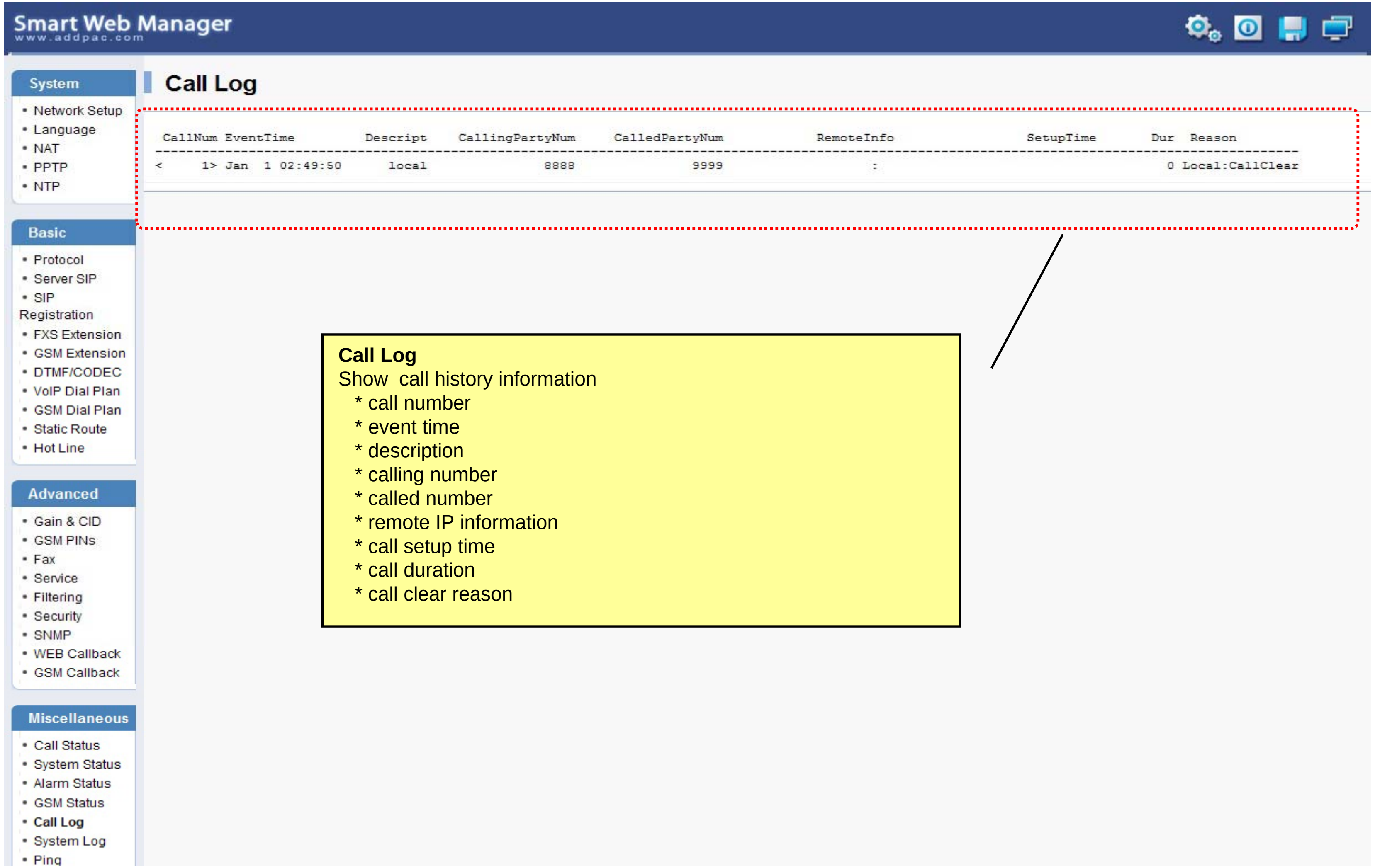


Alarm Status
- Interface Down count
- H323 register fail counter
- SIP register fail counter

Miscellaneous – GSM Status

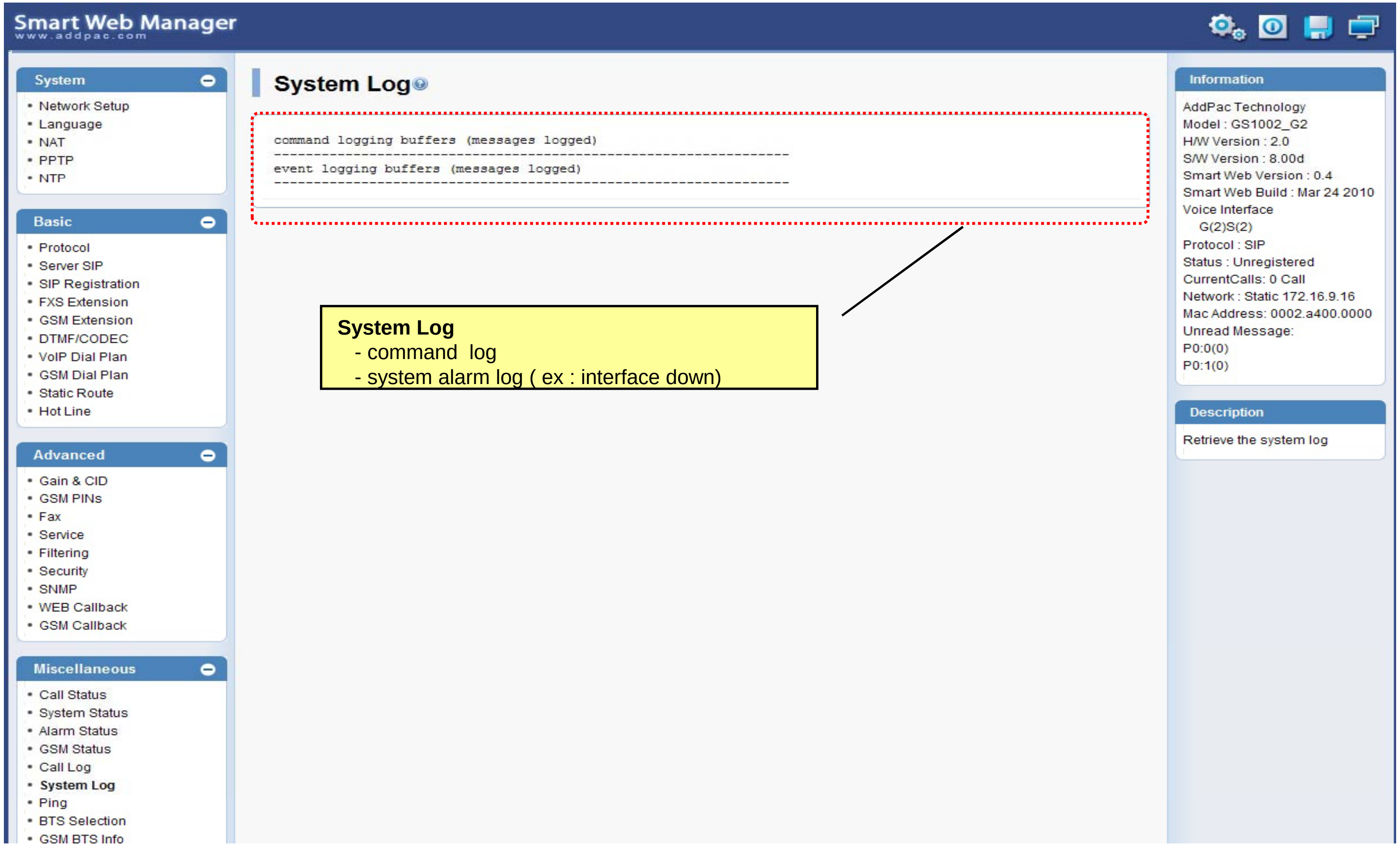
GSM Status
- my number
- GSM register status
- GSM signal strength
- Account information
  * voice quota (used / quota / free)
  * SMS quota (used / quota / free)

Miscellaneous – Call Log

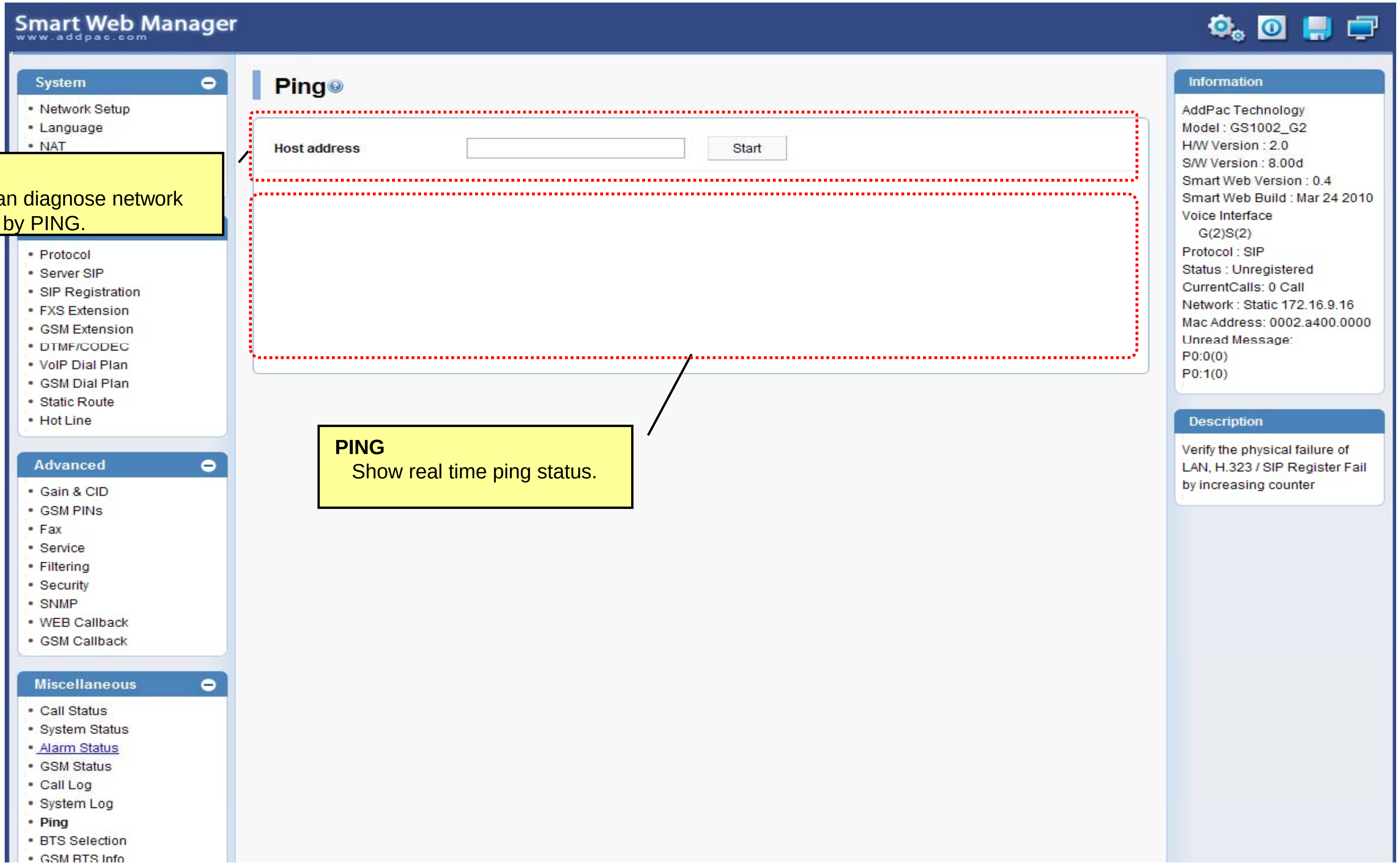


Call Log
Show call history information
* call number
* event time
* description
* calling number
* called number
* remote IP information
* call setup time
* call duration
* call clear reason

Miscellaneous – System Log



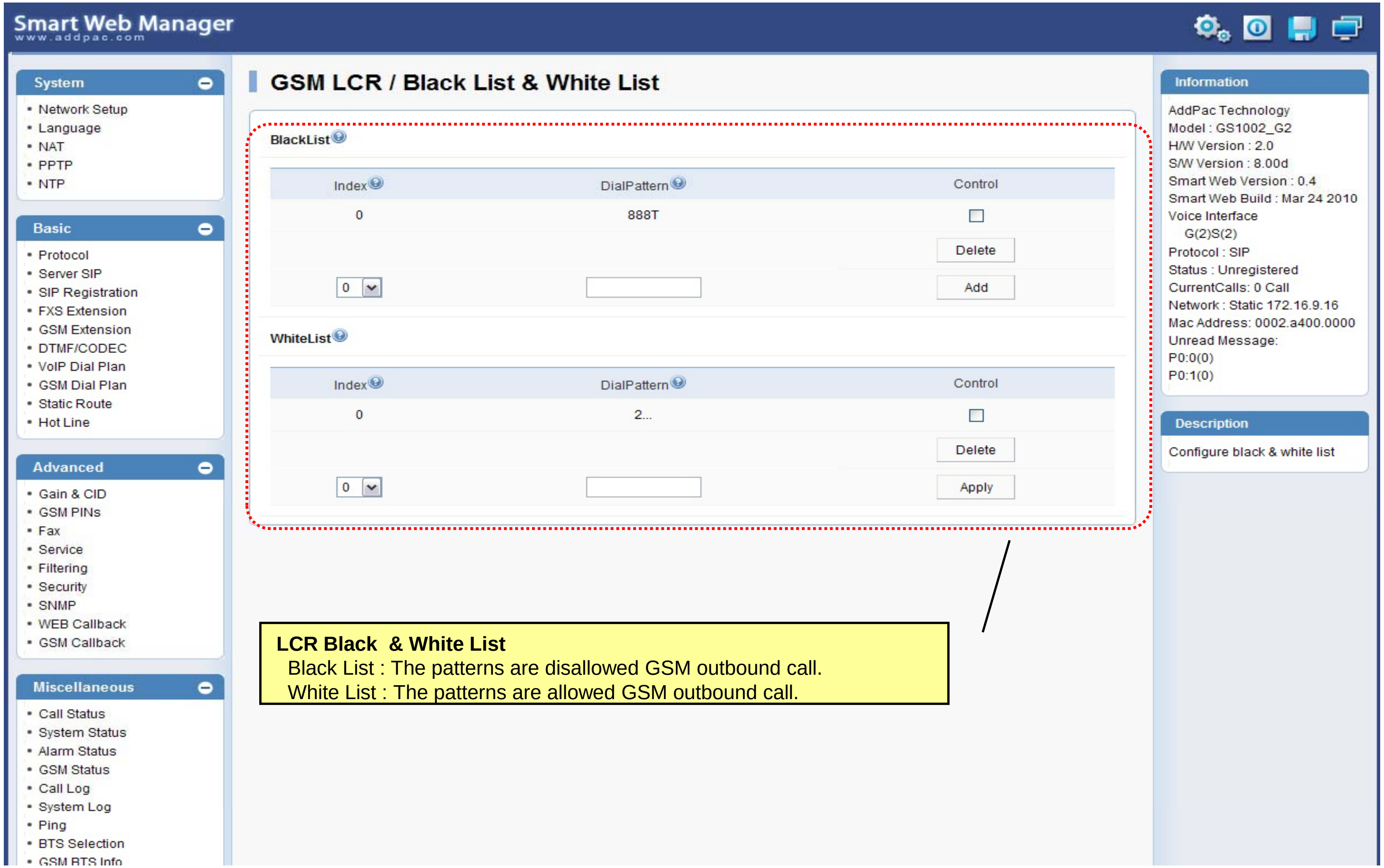
Miscellaneous - Ping



PING
You can diagnose network status by PING.

PING
Show real time ping status.

LCR – Black & White List

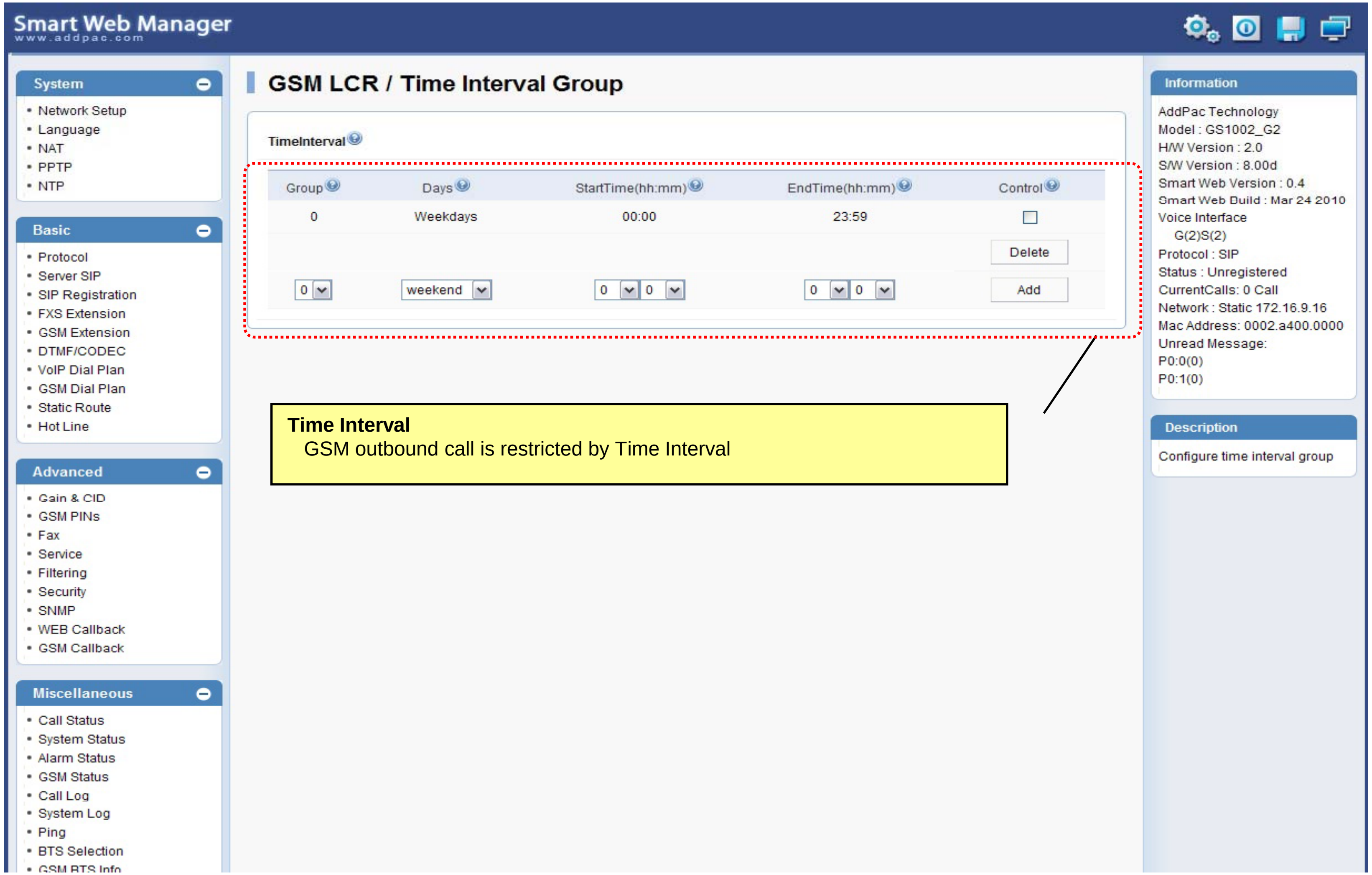


LCR Black & White List

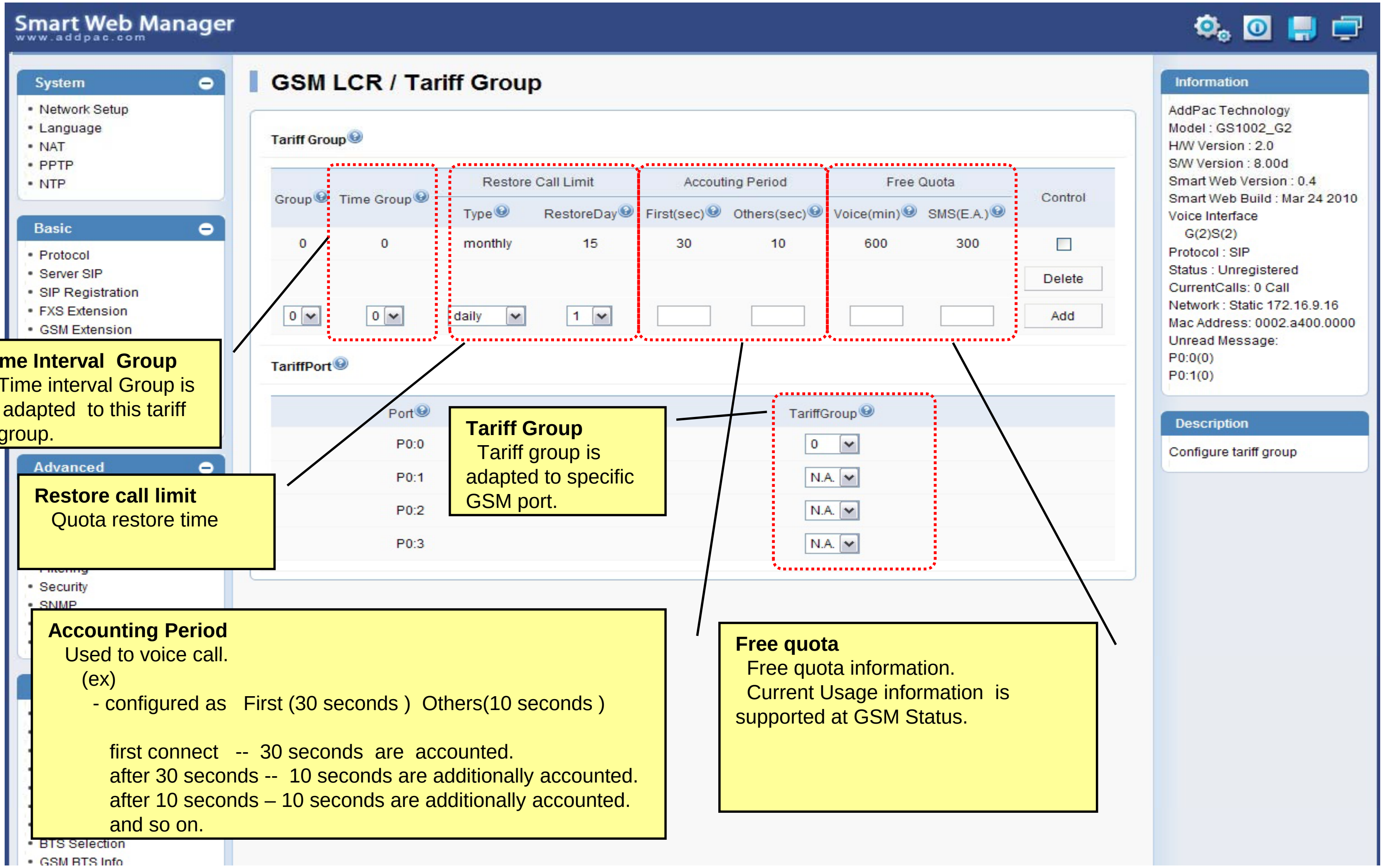
Black List : The patterns are disallowed GSM outbound call.

White List : The patterns are allowed GSM outbound call.

LCR – Time Interval



LCR – Tariff Group



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

Restore call limit
Quota restore time

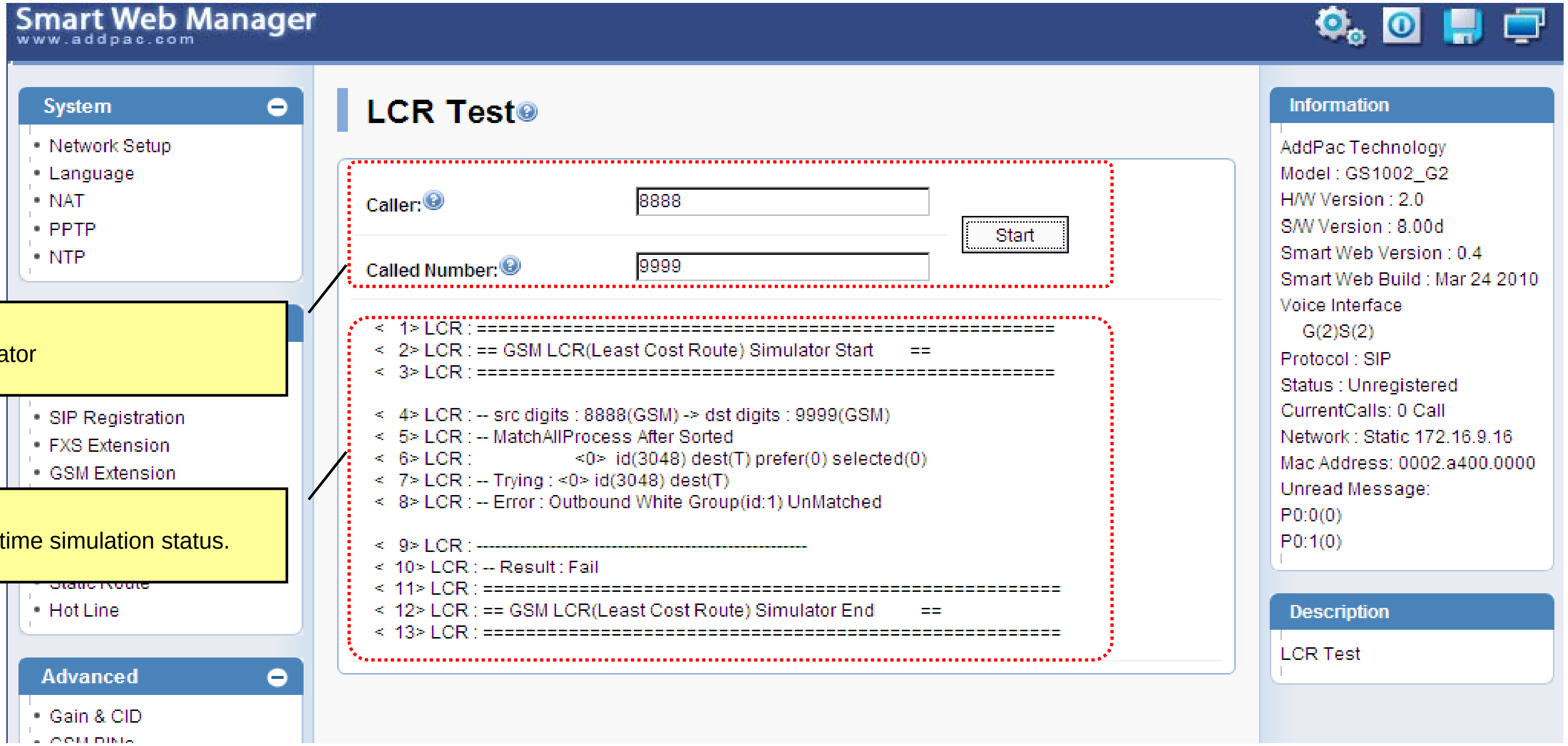
Tariff Group
Tariff group is adapted to specific GSM port.

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.

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

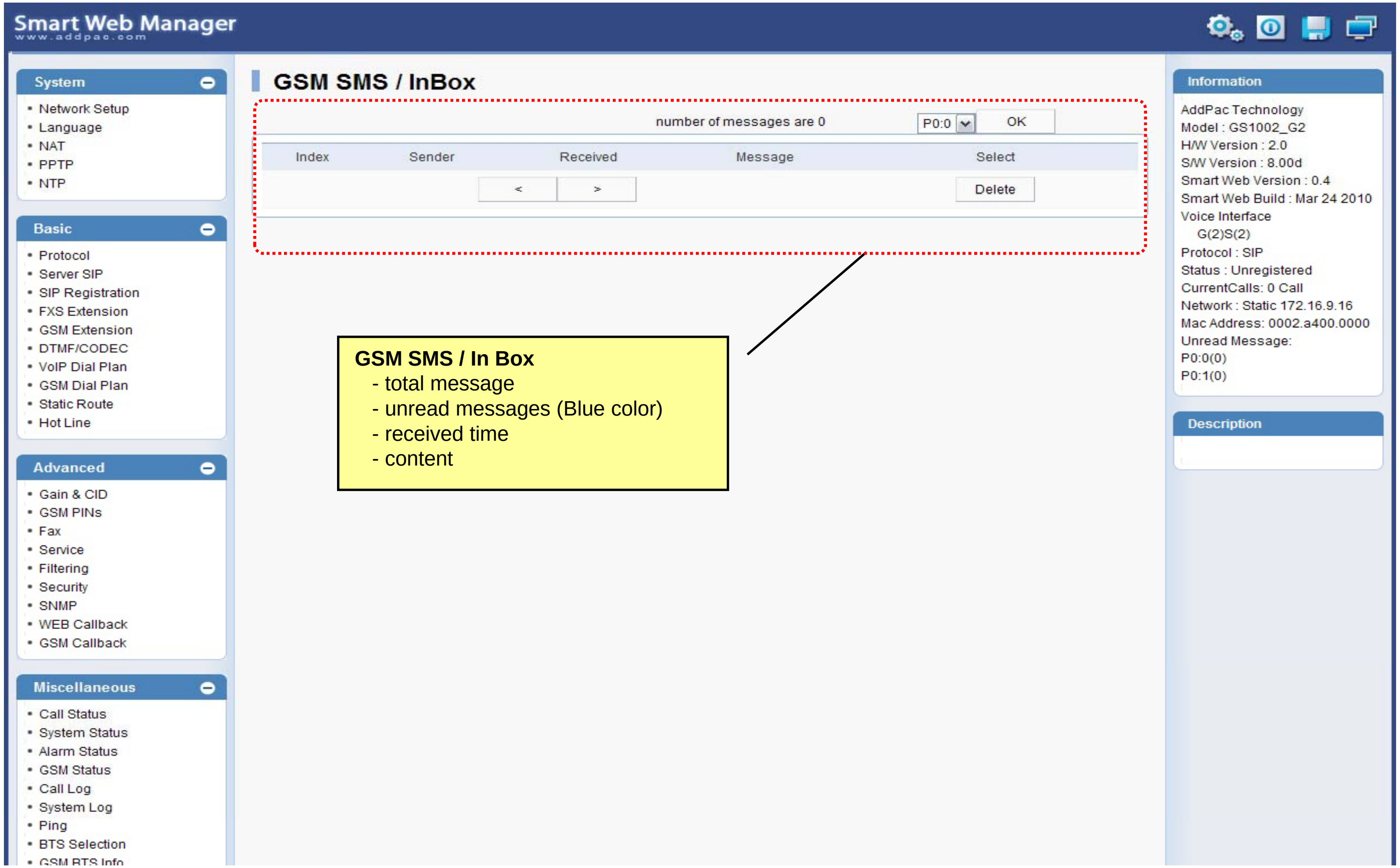
LCR – LCR Test



LCR Test
LCR simulator

LCR Test
Show real time simulation status.

SMS – Inbox


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 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
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

SMS – SMS New Message

Thank you!

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Sales and Marketing

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E-mail sales@addpac.com