

CDMA Gateway Solution



AddPac

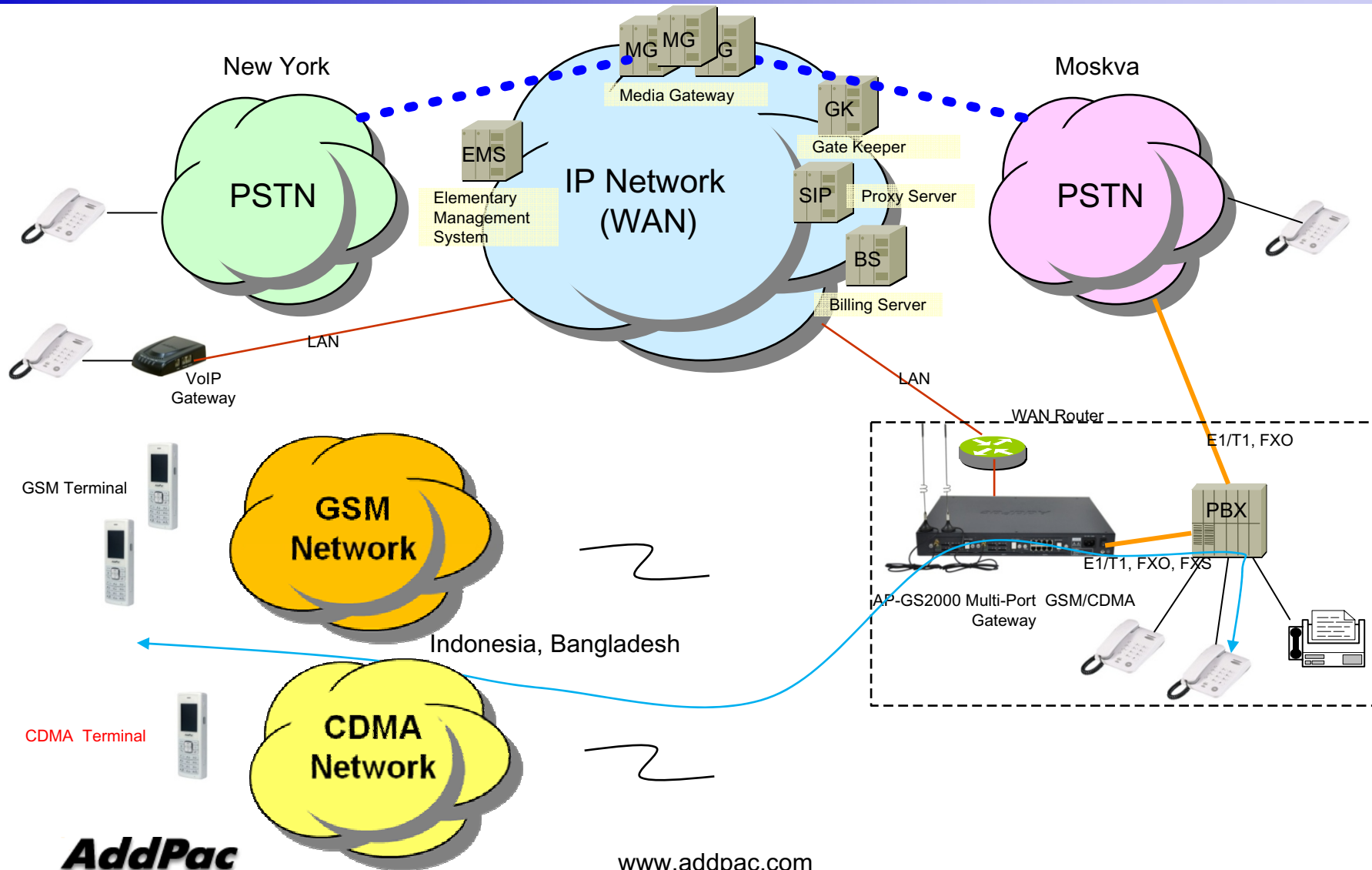
AddPac Technology

Sales and Marketing

Contents

- ? GSM/CDMA Gateway Service Diagram
- ? 4-Port CDMA Module (AP-N1-CDMA4)
- ? CDMA Gateway Series
 - ? AP-GS1500(8ch)
 - ? AP-GS2000(12ch)
 - ? AP-GS2500(16ch)
 - ? AP-GS3000(36ch)
 - ? AP-GS3500(36ch)
- ? Smart Web Manager for GSM/CDMA Gateway
- ? Smart NMS for GSM/CDMA Gateway

GSM/CDMA Gateway Service Diagram



4-Port CDMA Module



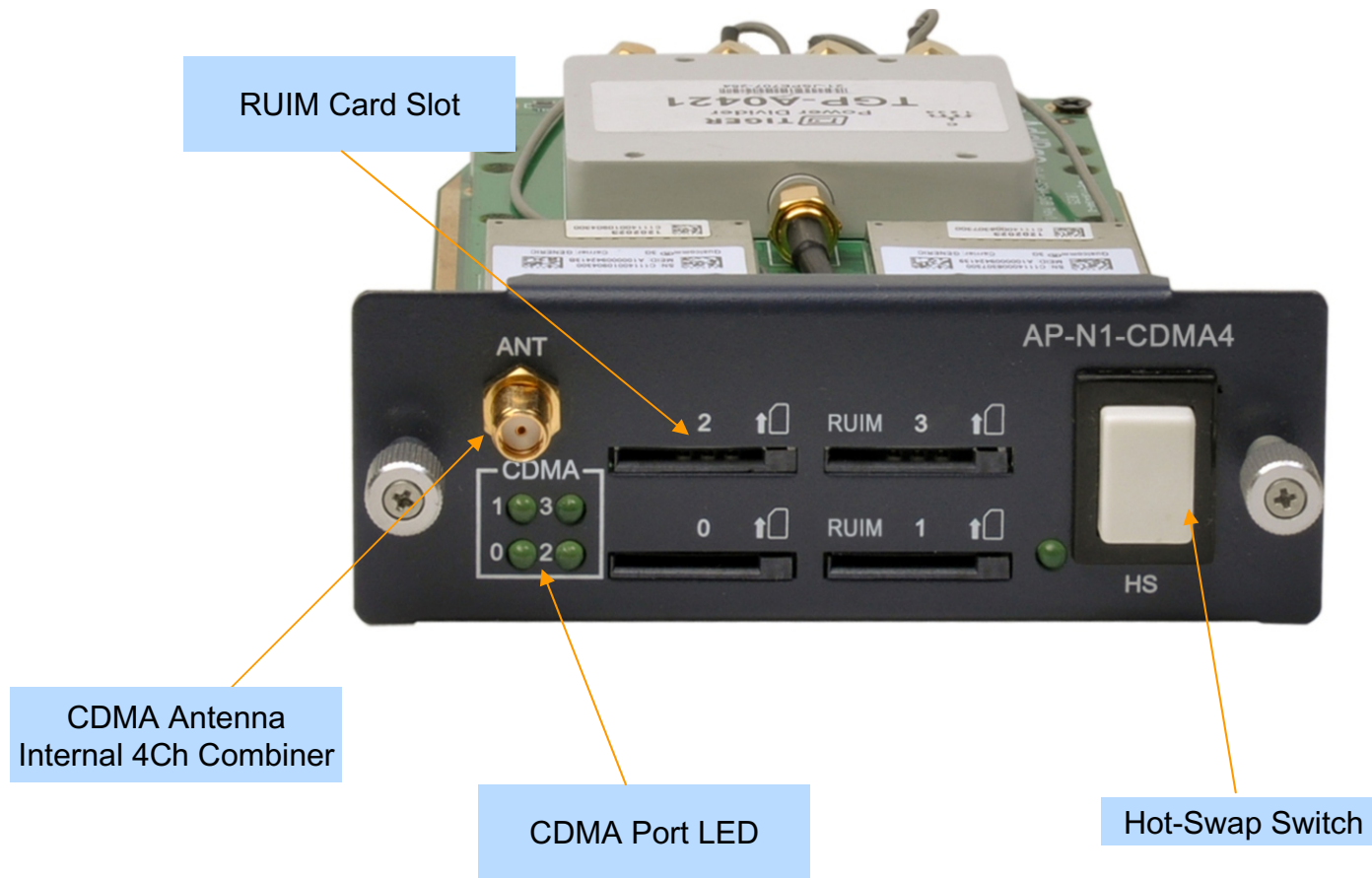
4-Port CDMA Module

AP-N1-CDMA4 4-Port CDMA Module

- ? CDMA2000 1xRTT (IS-2000)-(Dual Band)
- ? Band class0 (TX : 824~849 MHz / RX : 869~894MHz)
- ? Band class1 (TX : 1850~1910 MHz / RX : 1930~1990MHz)
- ? GPS L1 Support
- ? Output Power : 0.25W CDMA
- ? CDMA2000 Release A
- ? IS-637 : Short Message Service (Mobile Originated and Mobile Terminated)
- ? RUIM(for Asia Pacific Countries)
- ? 4-Port CDMA Module(AP-N1-CDMA4)
 - ? 4-Port RUIM Card Slot
 - ? Port LEDs for Link Activation Indication
 - ? One(1) CDMA Antenna Interface (Internal 4 Channel Combiner)
 - ? Hot-Swap Button

Hardware Specification

AP-N1-CDMA4 4-Port CDMA Module











CDMA Gateway Series



CDMA Gateway Series

GSM/CDMA Gateway Comparison Table

Model	AP-GS1500	AP-GS2000	AP-GS2500	AP-GS3000	AP-GS3500
					
Available Modules	AP-N1-GSM4 AP-N1-CDMA4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS404	AP-N1-GSM4 AP-N1-CDMA4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS404 AP-N1-E1	AP-N1-GSM4 AP-N1-CDMA4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS404 AP-N1-E1	AP-N1-GSM4 AP-N1-CDMA4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS404 AP-N1-E1	AP-N1-GSM4 AP-N1-CDMA4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS404 AP-N1-E1
GSM/CDMA Channel	Up to 8 Channel	Up to 12 Channel	Up to 16 Channel	Up to 36 Channel	Up to 36 Channel
GSM/CDMA Antenna	One(1) / 4 Channel GSM/CDMA Module	One(1) / 4 Channel GSM/CDMA Module	One(1) / 4 Channel GSM/CDMA Module	One(1) / 4 Channel GSM/CDMA Module	One(1) / 4 Channel GSM/CDMA Module
Module Slot	Two(2) Module Slots for GSM/CDMA	Three(3) Module Slots for GSM/CDMA	Four(4) Module Slots for GSM/CDMA	Nine(9) Module Slots for GSM/CDMA, E1/T1 Module Slot	Nine(9) Module Slots for GSM/CDMA, E1/T1 Module Slot
LAN Port	2	2	2	2	2
Console	1	1	1	1	1
Power	Single PSU	Single PSU	Single PSU	Single PSU	Dual PSU (module)



AP-GS1500 GSM/CDMA Gateway

GSM Gateway

AP-GS1500 Multi-Port GSM/CDMA Gateway

- ? Two(2) Module Slots for 4-Port GSM Module, 4-Port CDMA Module
8FXS/8FXO Analog Interface (Up to 8-Port CDMA, 4-Port GSM+4-
Port CDMA, 4-Port GSM +8FXS/8FXO Module)
- ? H.323/SIP/MGCP Triple 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
- ? One(1) RS-232C Port for Command Line Interface
- ? Firmware Upgradeable Architecture
- ? VPMS (VoIP Plug&Play Management System) & NMS for Large
Scale Deployment
- ? Advanced Voice QoS Mechanism
- ? Powerful Web based Management
- ? Rack Mountable Chassis with Internal Power Supply

GSM/CDMA Gateway

AP-GS1500 Multi-Port GSM/CDMA Gateway

- ? RISC Microprocessor Computing Power
- ? Two(2) Module Slot for GSM, CDMA, Analog/Digital Interface
- ? 4-Port GSM Module(AP-N1-GSM4), Hot-Swap
 - ? 4-Port SIM Card Slot
 - ? One(1) GSM Antenna Interface (Internal 4 Channel Combiner)
- ? 4-Port CDMA Module(AP-N1-CDMA4), Hot-Swap
 - ? 4-Port RUIM Card Slot
 - ? One(1) CDMA Antenna Interface (Internal 4 Channel Combiner)
- ? VoIP Interface Module, Hot-Swap
 - ? 8-Port FXS,8-Port FXO VoIP Module (AP-N1-FXS8, etc)
- ? Network Interface
 - Two(2) 10/100Mbps Fast Ethernet (RJ45)
- ? RS232C Console Interface for CLI
- ? Run LED, LAN LED, Port LEDs
- ? Internal Power Supply



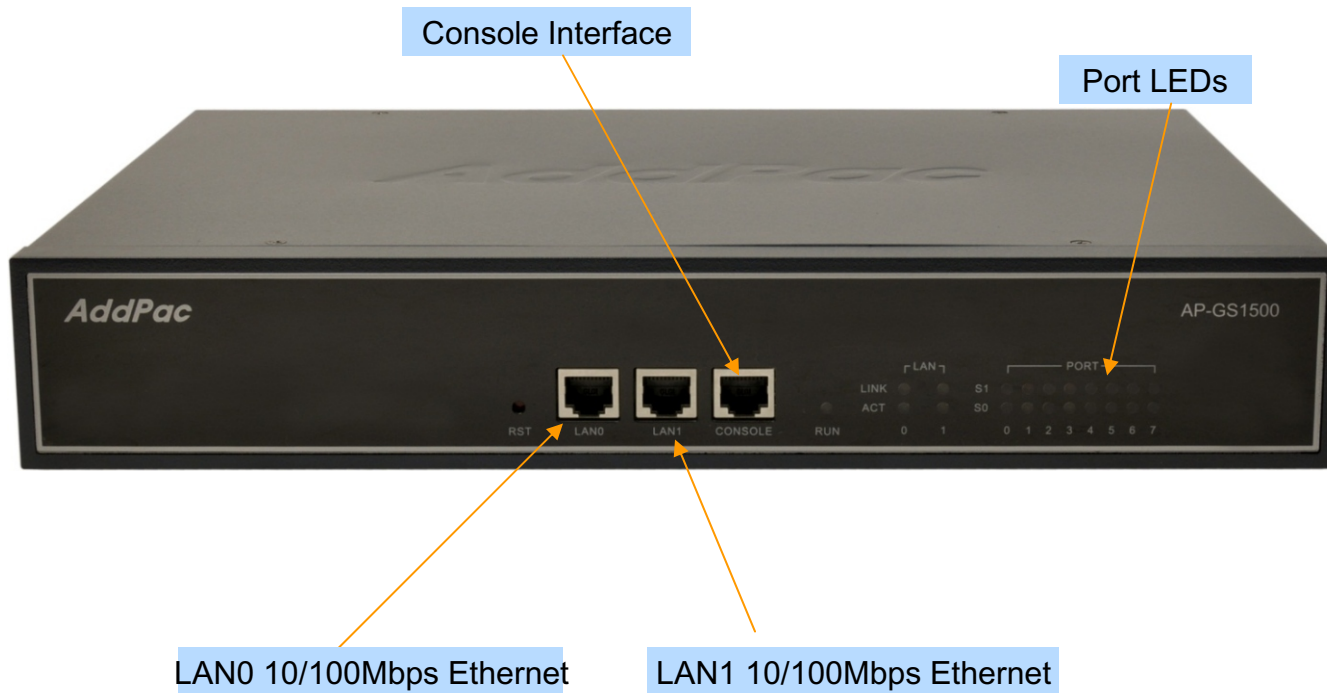
Hardware Specification

AP-GS1500 Multi-Port GSM/CDMA Gateway

RISC
CPU

High-end
DSP

Front Side View



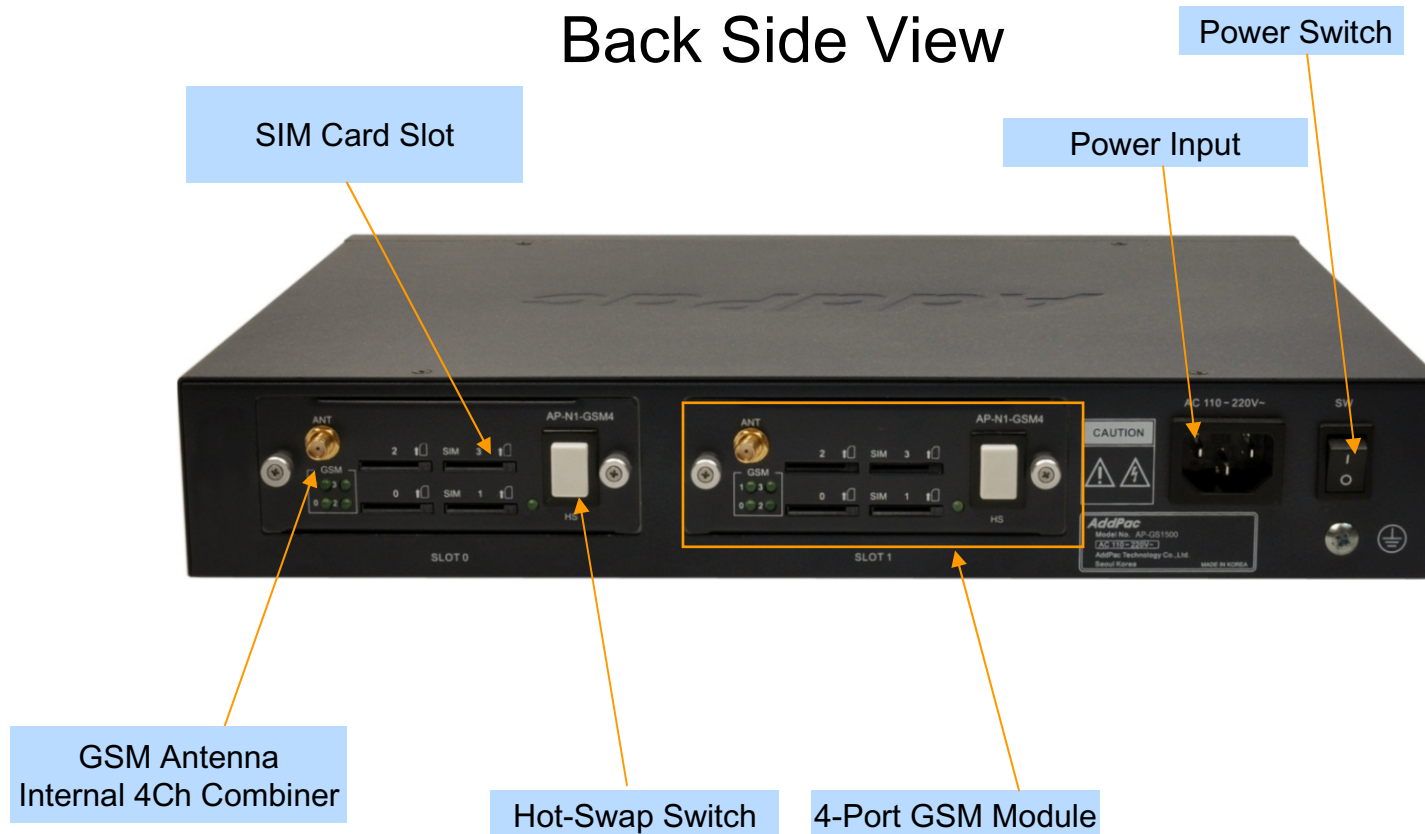
Hardware Specification

AP-GS1500 Multi-Port GSM/CDMA Gateway

RISC
CPU

High-end
DSP

Back Side View



Hardware Specification

AP-GS1500 Multi-Port GSM/CDMA Gateway

RISC
CPU

High-end
DSP



Hardware Specification

AP-GS1500 Multi-Port GSM/CDMA Gateway

AP-GS1500 Voice Modules

AP-N1-GSM4 4-Port GSM Module



AP-N1-CDMA4 4-Port CDMA Module



AP-N1-FXS8 8-Port FXS Module




AP-N1-FXO8 8-Port FXO Module



AP-N1-FXS4O4 4-Port FXS&4-Port FXO Module





AP-GS2000 GSM/CDMA Gateway

Main Features

AP-GS2000 Multi-Port GSM/CDMA Gateway

- ? Three Module Slots for 4-Port GSM Module, 4-Port CDMA Module, 8FXS/8FXO Analog Interface (Up to 8-Port GSM + 8FXS/8FXO Module, 12-Port CDMA, 12-Port GSM, etc)
- ? H.323/SIP/MGCP Triple 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
- ? 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
- ? Powerful Web based Management
- ? Rack Mountable Chassis with Internal Power Supply

Hardware Specification

AP-GS2000 Multi-Port GSM/CDMA Gateway

- ? RISC Microprocessor Computing Power
- ? Three Module Slot for GSM, CDMA, Analog/Digital Interface
- ? 4-Port GSM Module(AP-N1-GSM4), Hot-Swap
 - ? 4-Port SIM Card Slot
 - ? One(1) GSM Antenna Interface (Internal 4 Channel Combiner)
- ? 4-Port CDMA Module(AP-N1-CDMA4), Hot-Swap
 - ? 4-Port RUIM Card Slot
 - ? One(1) CDMA Antenna Interface (Internal 4 Channel Combiner)
- ? VoIP Interface Module, Hot-Swap
 - ? 8-Port FXS Module, Digital E1/T1 Module (AP-N1-FXS8, AP-N1-FXO8, etc)
- ? Network Interface
 - Two(2) 10/100Mbps Fast Ethernet (RJ45)
- ? RS232C Console Interface for CLI
- ? Run LED, LAN LED, Port LEDs
- ? Internal Power Supply

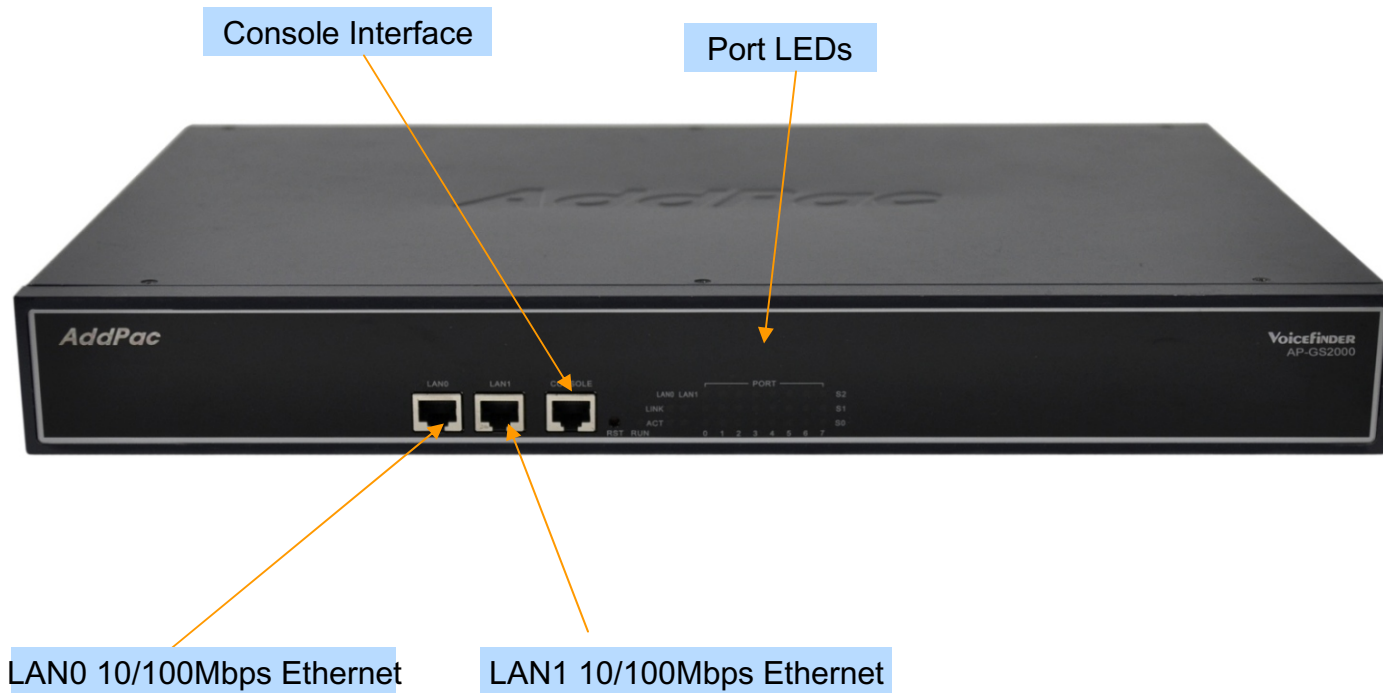


Hardware Specification

AP-GS2000 Multi-Port GSM/CDMA Gateway

Hardware Specification

Front Side View

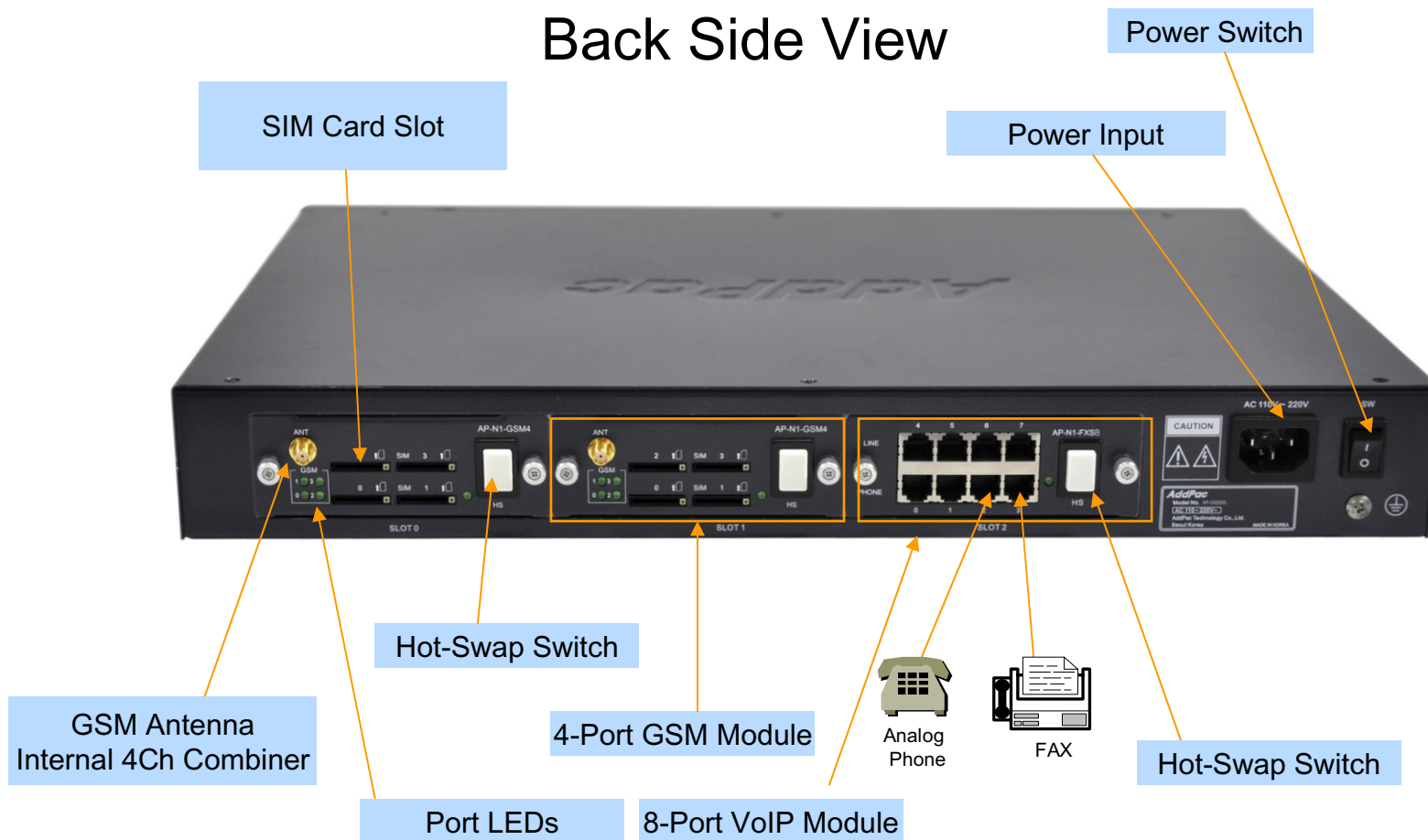


Hardware Specification

AP-GS2000 Multi-Port GSM/CDMA Gateway

Hardware Specification

Back Side View



Hardware Specification







AP-GS2000 Multi-Port GSM/CDMA Gateway



Hardware Specification

AP-GS2000 Multi-Port GSM/CDMA Gateway

AP-GS2000 Voice Modules

AP-N1-GSM4 4-Port GSM Module	
AP-N1-CDMA4 4-Port CDMA Module	
AP-N1-FXS8 8-Port FXS Module	
AP-N1-FXO8 8-Port FXO Module	
AP-N1-FXS4O4 4-Port FXS&4-Port FXO Module	
AP-N1-E1 1-Port Digital E1/T1 Module	



AP-GS2500 GSM Gateway

Main Features

AP-GS2500 Multi-Port GSM/CDMA Gateway

- ? Four(4) Module Slots for 4-Port GSM Module, 8FXS/8FXO Analog Interface (Up to 12-Port GSM +8FXS/8FXO Module, 16-Port CDMA, 16-Port GSM)
- ? H.323/SIP/MGCP Triple 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
- ? One(1) RS-232C Port for Command Line Interface
- ? Firmware Upgradeable Architecture
- ? VPMS (VoIP Plug&Play Management System) & NMS for Large Scale Deployment
- ? Advanced Voice QoS Mechanism
- ? Powerful Web based Management
- ? Rack Mountable Chassis with Internal Power Supply

Hardware Specification

AP-GS2500 Multi-Port GSM/CDMA Gateway

- ? RISC Microprocessor Computing Power
- ? Four(4) Module Slot for GSM, Analog/Digital Interface
- ? 4-Port GSM Module(AP-N1-GSM4), Hot-Swap
 - ? 4-Port SIM Card Slot
 - ? One(1) GSM Antenna Interface (Internal 4 Channel Combiner)
- ? 4-Port CDMA Module(AP-N1-CDMA4), Hot-Swap
 - ? 4-Port RUIM Card Slot
 - ? One(1) CDMA Antenna Interface (Internal 4 Channel Combiner)
- ? VoIP Interface Module, Hot-Swap
 - ? 8-Port FXS Module, Digital E1/T1 Module (AP-N1-FXS8, AP-N1-FXO8, etc)
- ? Network Interface
 - Two(2) 10/100Mbps Fast Ethernet (RJ45)
- ? RS232C Console Interface for CLI
- ? Run LED, LAN LED, Port LEDs
- ? Internal Power Supply



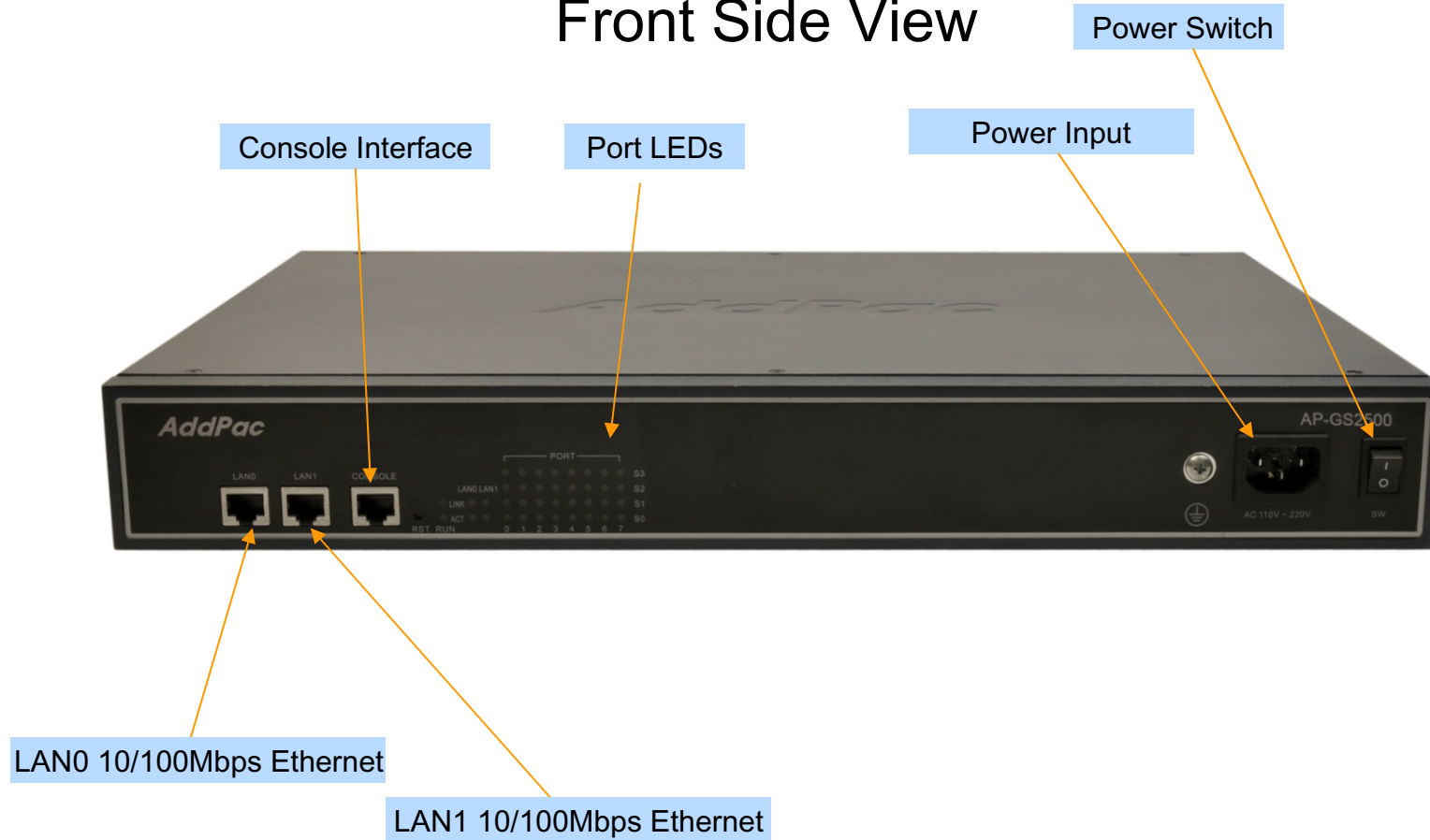
Hardware Specification

AP-GS2500 Multi-Port GSM/CDMA Gateway

RISC
CPU

High-end
DSP

Front Side View



Hardware Specification

AP-GS2500 Multi-Port GSM/CDMA Gateway

RISC
CPU

High-end
DSP

Back Side View (16-Port GSM, 16-Port CDMA)

SIM Card Slot



GSM Antenna
Internal 4Ch Combiner

4-Port GSM Module

Hot-Swap Switch

Hardware Specification

AP-GS2500 Multi-Port GSM/CDMA Gateway

RISC
CPU

High-end
DSP

Back Side View (12-Port GSM+ 8-Port FXS)



Hardware Specification

AP-GS2500 Multi-Port GSM/CDMA Gateway

RISC
CPU







High-end
DSP




Hardware Specification

AP-GS2500 Multi-Port GSM/CDMA Gateway

AP-GS2500 Voice Modules

AP-N1-GSM4 4-Port GSM Module	
AP-N1-CDMA4 4-Port CDMA Module	
AP-N1-FXS8 8-Port FXS Module	
AP-N1-FXO8 8-Port FXO Module	
AP-N1-FXS4O4 4-Port FXS&4-Port FXO Module	
AP-N1-E1 1-Port Digital E1/T1 Module	



AP-GS3000 GSM/CDMA Gateway

Main Features

AP-GS3000 Multi-Port GSM/CDMA Gateway

- ? Ten(10) Module Slots for 4-Port GSM Module, 8FXS/8FXO Analog Interface (Up to 36-Port GSM, Up to 36-Port CDMA, Digital E1/T1 Module, CPU Module)
- ? H.323/SIP/MGCP Triple 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
- ? One(1) RS-232C Port for Command Line Interface
- ? Firmware Upgradeable Architecture
- ? VPMS (VoIP Plug&Play Management System) & NMS for Large Scale Deployment
- ? Advanced Voice QoS Mechanism
- ? Powerful Web based Management
- ? Rack Mountable Chassis with Internal Power Supply

Hardware Specification

AP-GS3000 Multi-Port GSM/CDMA Gateway

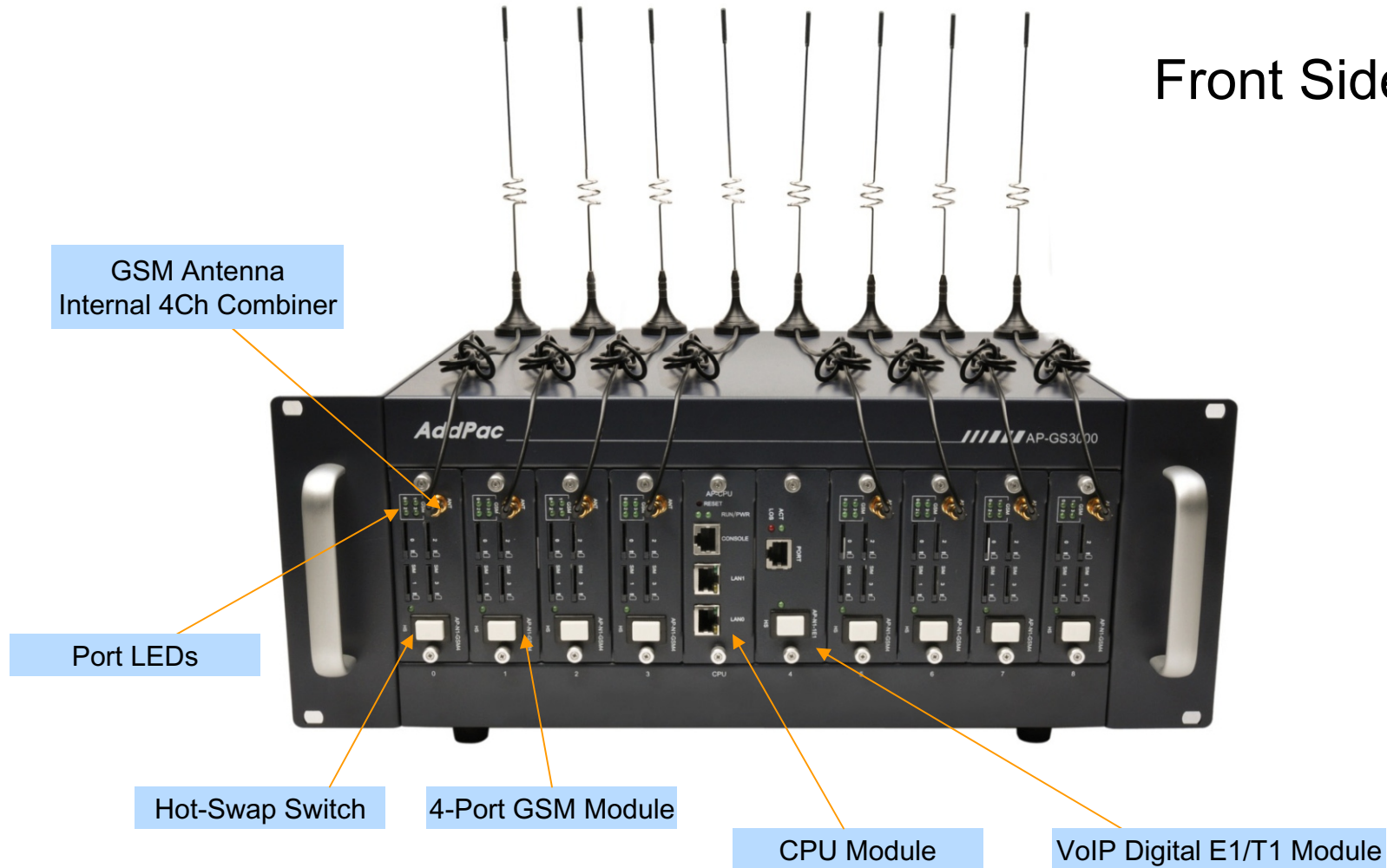
- ? RISC Microprocessor Computing Power
- ? Ten(10) Module Slot for GSM, Analog/Digital Interface
- ? 4-Port GSM Module(AP-N1-GSM4), Hot-Swap
 - ? 4-Port SIM Card Slot
 - ? One(1) GSM Antenna Interface (Internal 4 Channel Combiner)
- ? 4-Port CDMA Module(AP-N1-CDMA4), Hot-Swap
 - ? 4-Port RUIM Card Slot
 - ? One(1) CDMA Antenna Interface (Internal 4 Channel Combiner)
- ? VoIP Interface Module, Hot-Swap
 - ? 8-Port FXS Module, Digital E1/T1 Module (AP-N1-FXS8, AP-N1-FXO8, etc)
- ? 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-Port GSM Gateway

Front Side View



Hardware Specification

AP-GS3000 Multi-Port GSM Gateway



Back Side View

Cooling FAN







Power Switch

Power Inlet (110~220V)

Hardware Specification

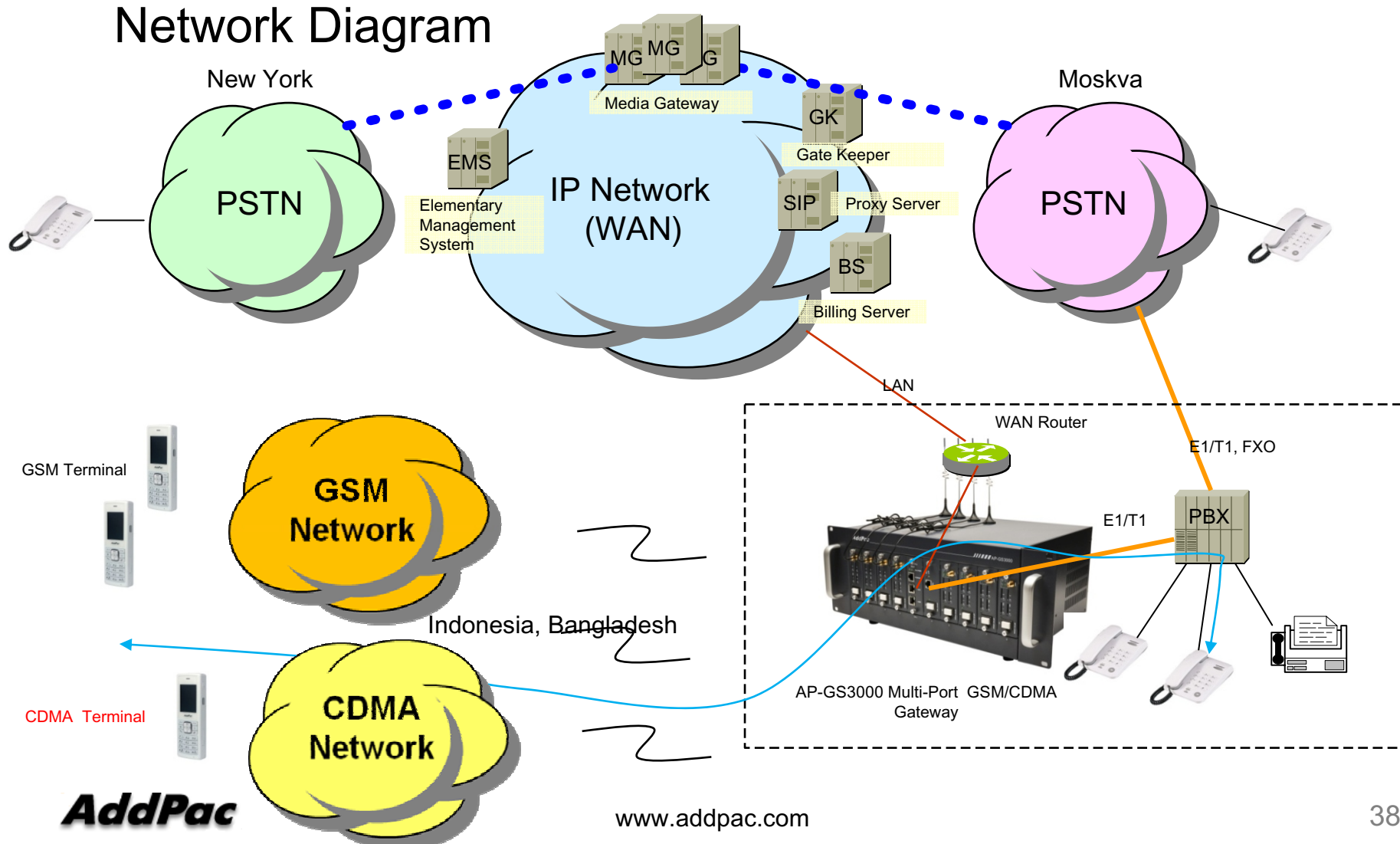
AP-GS3000 Multi-Port GSM/CDMA Gateway


AP-GS3000 Voice Modules

AP-N1-GSM4 4-Port GSM Module	
AP-N1-CDMA4 4-Port CDMA Module	
AP-N1-FXS8 8-Port FXS Module	
AP-N1-FXO8 8-Port FXO Module	
AP-N1-FXS4O4 4-Port FXS&4-Port FXO Module	
AP-N1-E1 1-Port Digital E1/T1 Module	

Network Service Diagram

AP-GS3000 Multi-Port GSM Gateway





AP-GS3500 GSM/CDMA Gateway

Main Features

AP-GS3500 Multi-Port GSM/CDMA Gateway

- ? Ten(10) Module Slots for 4-Port GSM Module, 8FXS/8FXO Analog Interface (Up to 36-Port GSM, Up to 36-Port CDMA, Digital E1/T1 Module, CPU Module)
- ? H.323/SIP/MGCP Triple 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
- ? One(1) RS-232C Port for Command Line Interface
- ? Firmware Upgradeable Architecture
- ? VPMS (VoIP Plug&Play Management System) & NMS for Large Scale Deployment
- ? Advanced Voice QoS Mechanism
- ? Powerful Web based Management
- ? Rack Mountable Chassis with Internal Power Supply

Hardware Specification

AP-GS3500 Multi-Port GSM/CDMA Gateway

RISC
CPU

High-end
DSP

- ? RISC Microprocessor Computing Power
- ? Ten(10) Module Slot for GSM, Analog/Digital Interface
- ? 4-Port GSM Module(AP-N1-GSM4), Hot-Swap
 - ? 4-Port SIM Card Slot
 - ? One(1) GSM Antenna Interface (Internal 4 Channel Combiner)
- ? 4-Port CDMA Module(AP-N1-CDMA4), Hot-Swap
 - ? 4-Port RUIM Card Slot
 - ? One(1) CDMA Antenna Interface (Internal 4 Channel Combiner)
- ? VoIP Interface Module, Hot-Swap
 - ? 8-Port FXS Module, Digital E1/T1 Module (AP-N1-FXS8, AP-N1-FXO8, etc)
- ? Network Interface
 - Two(2) 10/100Mbps Fast Ethernet (RJ45)
- ? RS232C Console Interface for CLI
- ? Run LED, LAN LED, Port LEDs
- ? Dual Power Supply



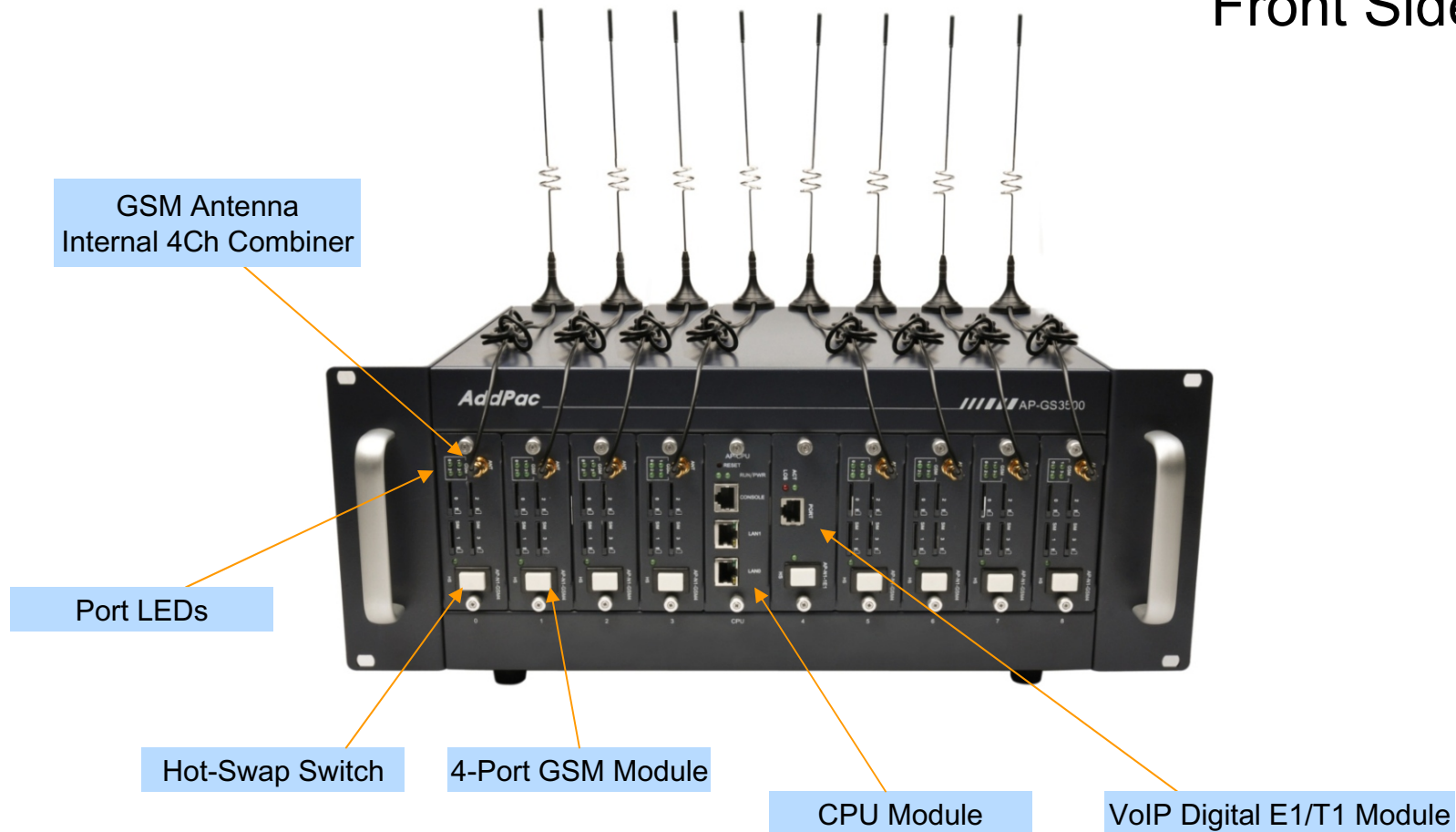
Hardware Specification

AP-GS3500 Multi-Port GSM/CDMA Gateway

RISC
CPU

High-end
DSP

Front Side View



AddPac

www.addpac.com







Hardware Specification

AP-GS3500 Multi-Port GSM/CDMA Gateway

RISC
CPU

High-end
DSP

AP-GS3500 Voice Modules

AP-N1-GSM4 4-Port GSM Module	
AP-N1-CDMA4 4-Port CDMA Module	
AP-N1-FXS8 8-Port FXS Module	
AP-N1-FXO8 8-Port FXO Module	
AP-N1-FXS4O4 4-Port FXS&4-Port FXO Module	
AP-N1-E1 1-Port Digital E1/T1 Module	



Smart Web Manager for GSM/CDMA 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

북MS

- ? Inbox, SMS New Message

Main Page Layout

The screenshot shows the Smart Web Manager interface with the following components and callouts:

- Main Menu:** A sidebar menu on the left with categories: 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), and Advanced (Gain & CID, GSM PINs, Fax, Service, Filtering, Security, SNMP, WEB Callback, GSM Callback).
- Tool Bar:** A top navigation bar containing icons for System, Update, Configuration, Backup, Initialization, Restart, and Telnet.
- System Information:** A central panel displaying system details in a table format.
- Information:** A right-hand panel showing system and status information.
- Description:** A bottom-right panel for help messages.
- Workspace:** A bottom-left area for detailed actions.

H/W Version	2.0
S/W 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
Workspace	0 days 01:49:57
Description	0

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)

System ? Network Setup

The screenshot shows the 'Network Setup' page in the Smart Web Manager. The page is divided into several sections, each with a radio button for selection. The 'Static IP' section is selected. The 'Static IP' section includes fields for IP Address (172.16.9.16), Network Mask (255.255.0.0), Default Router (172.16.1.1), and DNS Server. The 'PPPoE(ADSL)' section includes fields for Username and Password. The 'DHCP' section is currently unselected. The 'VLAN' section includes a field for ID (0). The 'WAN Link Control' section has radio buttons for 'Auto' (selected) and 'Manual', and dropdown menus for Speed (100, 10) and Duplex (full, half). The 'MAC(Hardware) Address' section includes a field for the MAC address. The 'Apply' button is at the bottom left.

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.

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 of the device 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
www.addpac.com

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

Configure Language
English, Korea

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.

System - NAT

Smart Web Manager
www.addpac.com

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"/>	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

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', and 'Service'. The 'Mode' section has radio buttons for 'None (Disable Tunneling, default)', 'PPTP (Point-to-Point Tunneling Protocol)', and 'Authentication' options (None, PAP, CHAP). The 'Source' section has a dropdown menu for 'FastEthernet0/0'. The 'Service' section has radio buttons for 'Voice and Data Use Tunnel Interface (default)', 'Voice Use Tunnel Interface, Data Use Ethernet Interface', and 'Data Use Tunnel Interface, Voice Use Ethernet Interface'. Three yellow callout boxes are present: 'Tunneling Mode Configure Tunneling mode' points to the Mode section; 'Tunneling source & destination Source LAN port & destination IP' points to the Source and Destination fields; 'Tunneling Service Service mode' points to the Service section. A right-hand sidebar contains 'Information' and 'Description' sections.

System

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

Basic

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

Tunneling

Mode

- None(Disable Tunneling, default)
- PPTP(Point-to-Point Tunneling Protocol)

Username

Password

Authentication

- None (No Authentication)
- PAP (PPP Authentication Protocol)
- CHAP(Challenge Handshake Authentication Protocol)

Phone Number

- None (default)
- Hostname (Use hostname as phone number)
- User Define

Source

Destination A.B.C.D (Tunnel End Point Address)

Service

- Voice and Data Use Tunnel Interface (default)
- Voice Use Tunnel Interface, Data Use Ethernet Interface
- Data Use Tunnel Interface, Voice Use Ethernet Interface

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

This is the settings for using PPTP(Point-to-Point Tunneling Protocol). For the setting to be used for tunneling, please contact the manufacturer of the device

Tunneling Mode
Configure Tunneling mode

Tunneling source & destination
Source LAN port & destination IP

Tunneling Service
Service mode

System - NTP

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

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
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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

Protocol

SIP(Session Initiation Protocol)

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)

FORM

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

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

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

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

Smart Web Manager
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System

- Network Setup
- Language
- NAT
- PPTP

Advanced

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

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 0000 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

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

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)

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 = ?8?

 result = 883456

Smart Web Manager
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System

- Network Setup
- Language
- NAT
- PPTP
- NTP

VoIP Dial Plan / Prefix

Plan Table

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

Prefix Table

Index	Prefix	PlanIndex	Control
0	T	2	<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

Configure the settings for the outbound call of main/remote and incoming E1 and routing

Miscellaneous

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

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

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

Basic ? GSM Dial Plan

Smart Web Manager
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System

- Network Setup
- Language
- NAT
- PPTP
- NTP

VoIP

- SIP Registration
- FXS Extension
- GSM Extension

Miscellaneous

- WEB Callback
- GSM Callback

Miscellaneous

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

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"/>

0

Prefix Table

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

0

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

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 = ?8?

result = 883456

Prefix Table
Configure GSM Peer with translation rule.

Basic ? Static Route

Smart Web Manager
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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"/>
*	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

Buttons: Delete, Apply

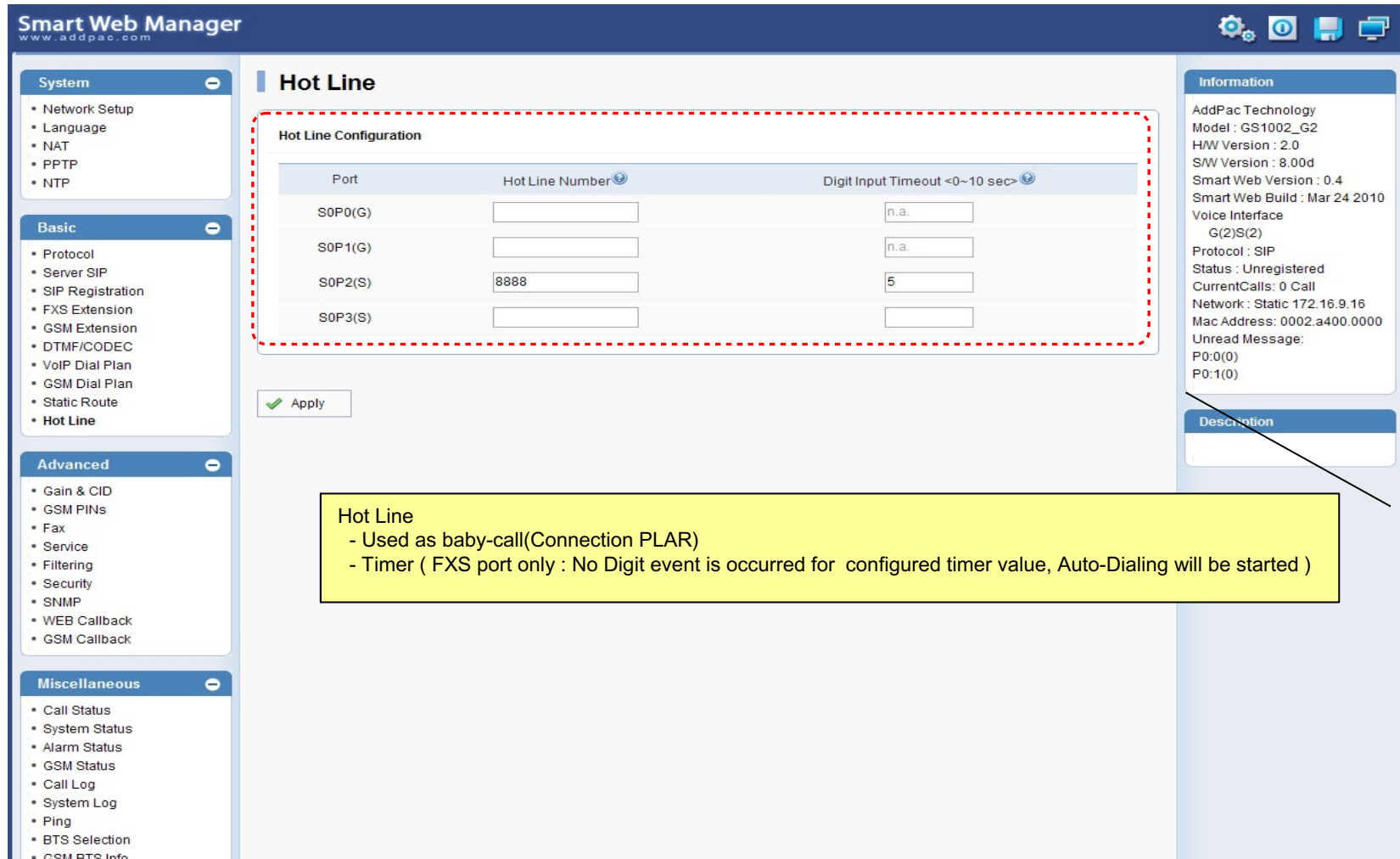
Information

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

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

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
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 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
www.addpac.com

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

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

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

FAX
Configure fax mode & rate (VoIP Lines)

Advanced - Service

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

Service

Applicaton Services

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

Timer

- Inter Digit Time: 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

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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
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

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 Callback

Smart Web Manager
www.addpac.com

System

- FXS Extension
- GSM Extension
- 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

GSM Callback

Calling Number Whitelist

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

3 | 0 | [] | [Delete] | [Add]

Callback

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

[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

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

Smart Web Manager
www.addpac.com

System

- Network Setup
- Language
- NAT
- SIP

Call Status

Port Status (Analog)

Slot	Port	Port Group			
		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)

- 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

Miscellaneous ? System Status

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

Smart Web Manager
www.addpac.com

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

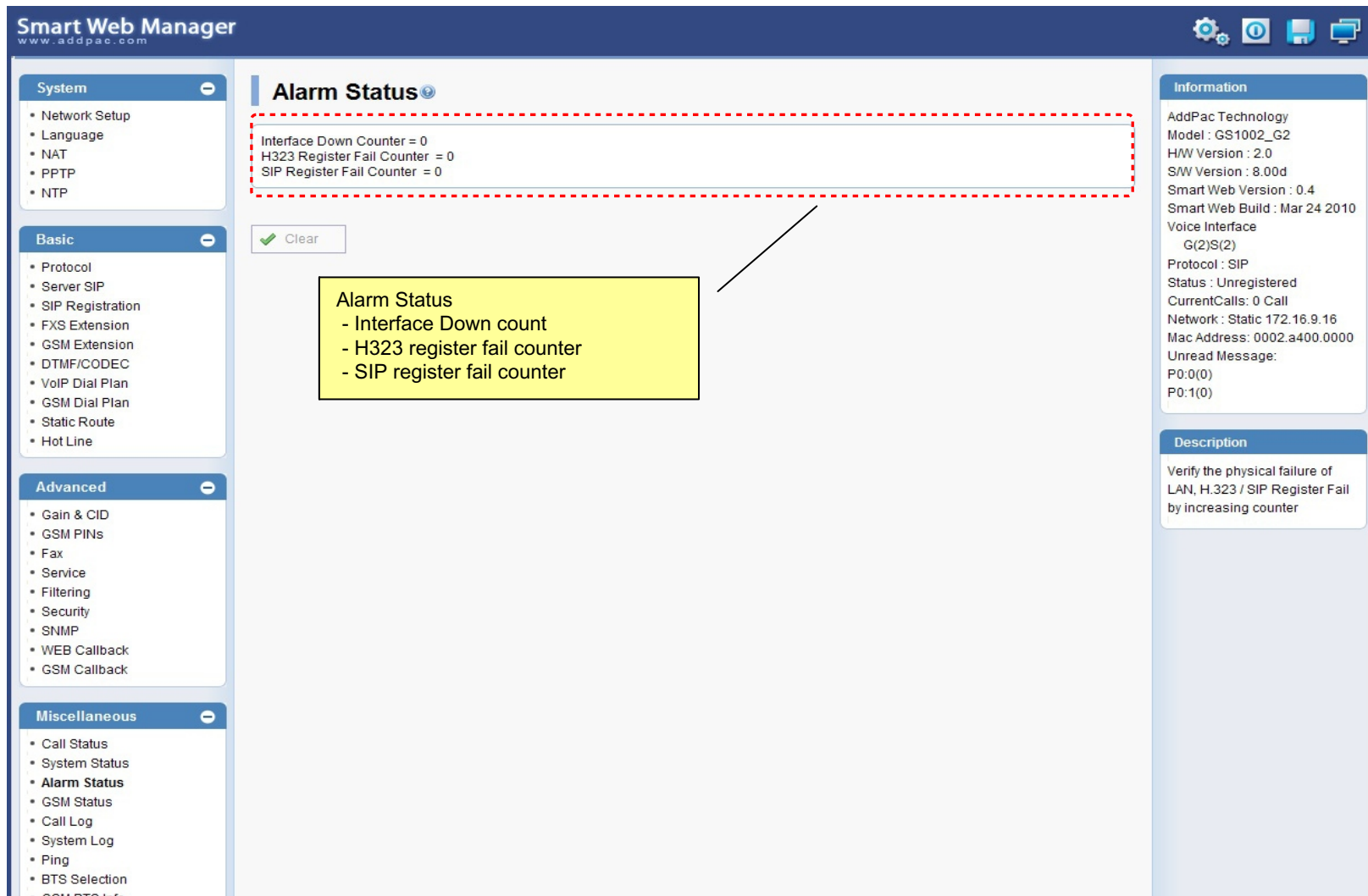
AddPac Technology
 Model : GS1002_G2
 H/W Version : 2.0
 S/W Version : 8.00d
 Smart Web Version : 0.4
 Smart Web Build : Mar 24 2010

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

Miscellaneous ? Alarm Status



The screenshot shows the 'Smart Web Manager' interface with the 'Alarm Status' page selected. The left sidebar contains a navigation menu with categories: System, Basic, Advanced, and Miscellaneous. The 'Alarm Status' page displays three counters: Interface Down Counter = 0, H323 Register Fail Counter = 0, and SIP Register Fail Counter = 0. A red dashed box highlights these counters, and a yellow callout box points to them with the text: 'Alarm Status - Interface Down count - H323 register fail counter - SIP register fail counter'. A 'Clear' button with a green checkmark is visible below the counters. On the right, the 'Information' section provides system details like 'AddPac Technology', 'Model: GS1002_G2', and 'Smart Web Version: 0.4'. The 'Description' section explains the alarm: 'Verify the physical failure of LAN, H.323 / SIP Register Fail by increasing counter'.

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 RTS Info

Alarm Status

Interface Down Counter = 0
H323 Register Fail Counter = 0
SIP Register Fail Counter = 0

Clear

Alarm Status

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

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

Miscellaneous ? GSM Status

Smart Web Manager
www.addpac.com

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)

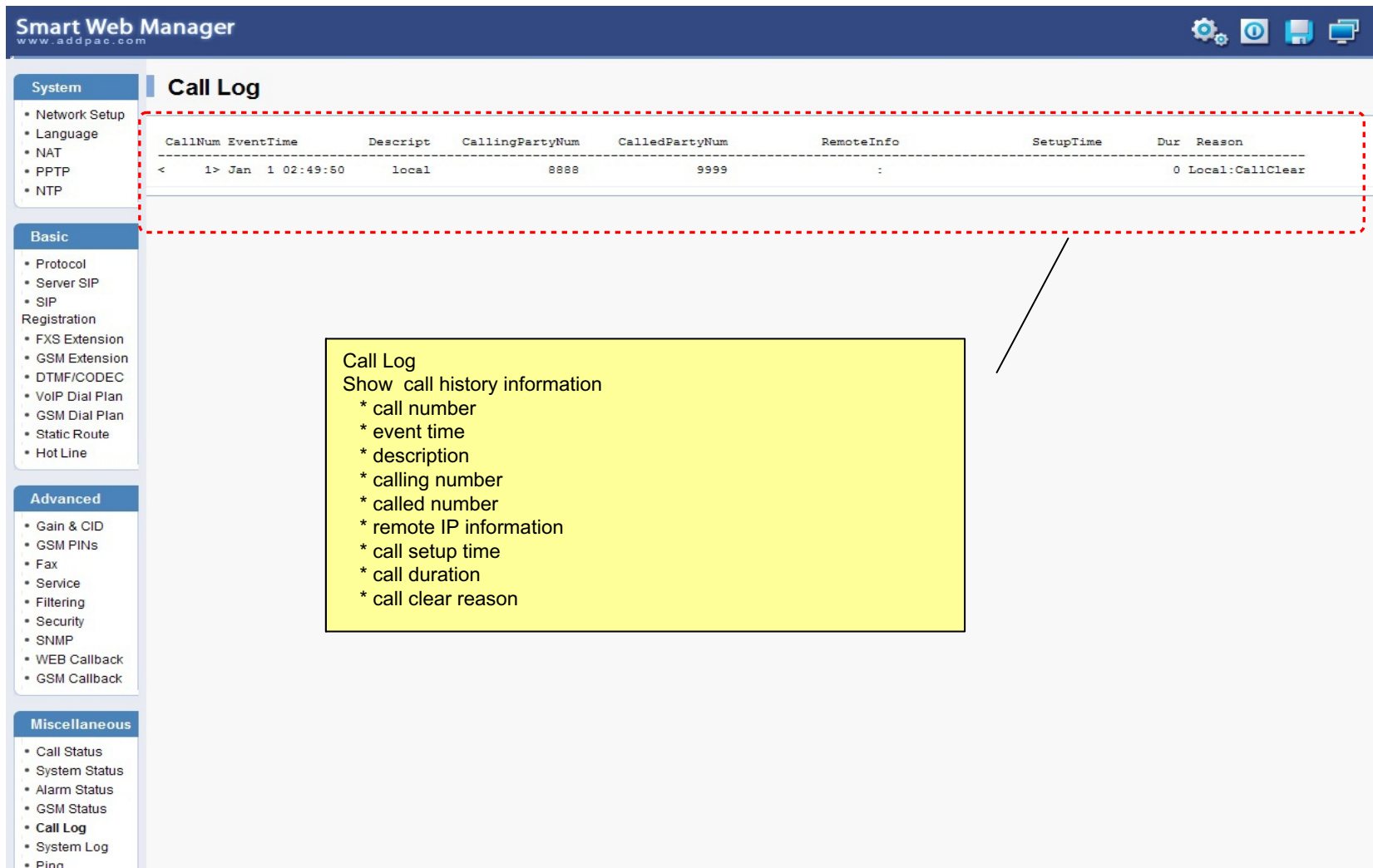
Description

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 a single data row. A yellow box with a black border contains a list of fields shown in the call log table, with a line pointing to the table.

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

Call Log

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

Smart Web Manager
www.addpac.com

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
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
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

Smart Web Manager
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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

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 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

Smart Web Manager
www.addpac.com

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 -10 dB 0 sec

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 BTS selection mode

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

Miscellaneous ? GSM BTS Info

Smart Web Manager
www.addpac.com

GSM BCCH Cell Information

PORT 0:0 PORT 0:1

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 GSM wireless signal status

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

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

LCR ? Black & White List

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

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

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 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 Group. 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 interval: "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 left sidebar shows a navigation menu with categories: System, Basic, Advanced, and Miscellaneous. The right sidebar contains "Information" and "Description" sections. The "Information" section lists system details like AddPac Technology, Model: GS1002_G2, and Smart Web Version: 0.4. The "Description" section contains the text: "Configure time interval group".

LCR ? Tariff Group

Smart Web Manager
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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					<input type="checkbox"/>

TariffPort

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

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 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 contains input fields for 'Caller' (8888) and 'Called Number' (9999), a 'Start' button, and a log window showing the simulation results. Two yellow callout boxes provide additional context: 'LCR Test LCR simulator' points to the input fields, and 'LCR Test Show real time simulation status.' points to the log output.

System

- Network Setup
- Language
- NAT
- PPTP
- NTP

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

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

LCR Test

Advanced

- Gain & CID
- GSM PIN

SMS ? Inbox

Smart Web Manager
www.addpac.com

GSM SMS / InBox

number of messages are 0 P0:0 OK

Index	Sender	Received	Message	Select
-------	--------	----------	---------	--------

< > Delete

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

GSM SMS / In Box

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

SMS ? SMS New Message

Smart Web Manager
www.addpac.com

GSM SMS / New Message

Max size is 80 characters

Phone Number:

Message:

Port: P0:0

Send

Information

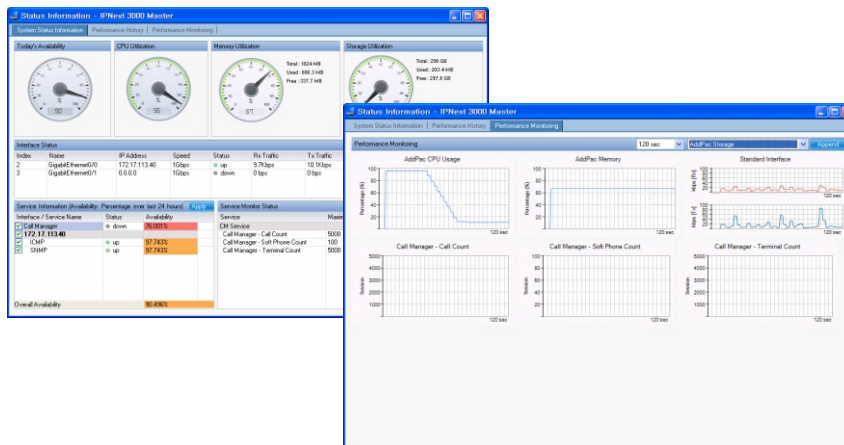
AddPac Technology
Model : GS1002_G2
HW Version : 2.0
SW Version : 8.00d
Smart Web Version : 0.4
Smart Web Build : Mar 24 2010
Voice Interface
G(2)S(2)
Protocol : SIP
Status : Unregistered
CurrentCalls : 0 Call
Network : Static 172.16.9.16
Mac Address : 0002.a400.0000
Unread Message:
P0:0(0)
P0:1(0)

Description

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

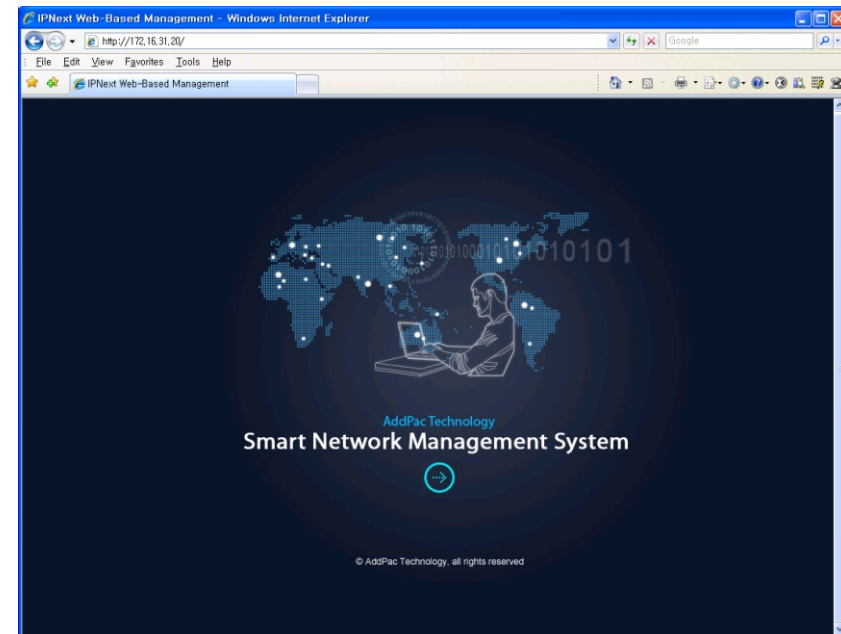
Smart NMS

Smart Network Management System for GSM/CDMA Gateway



Contents

- ? System Requirement
- ? Smart NMS Networking Diagram
- ? Web-based Management
- ? Network Resource Management
- ? Device Fault Management
- ? Device Fault History Management
- ? Device Status Information
- ? Notification Management
- ? Fault Statistics
- ? Model & Service Management



System Requirement

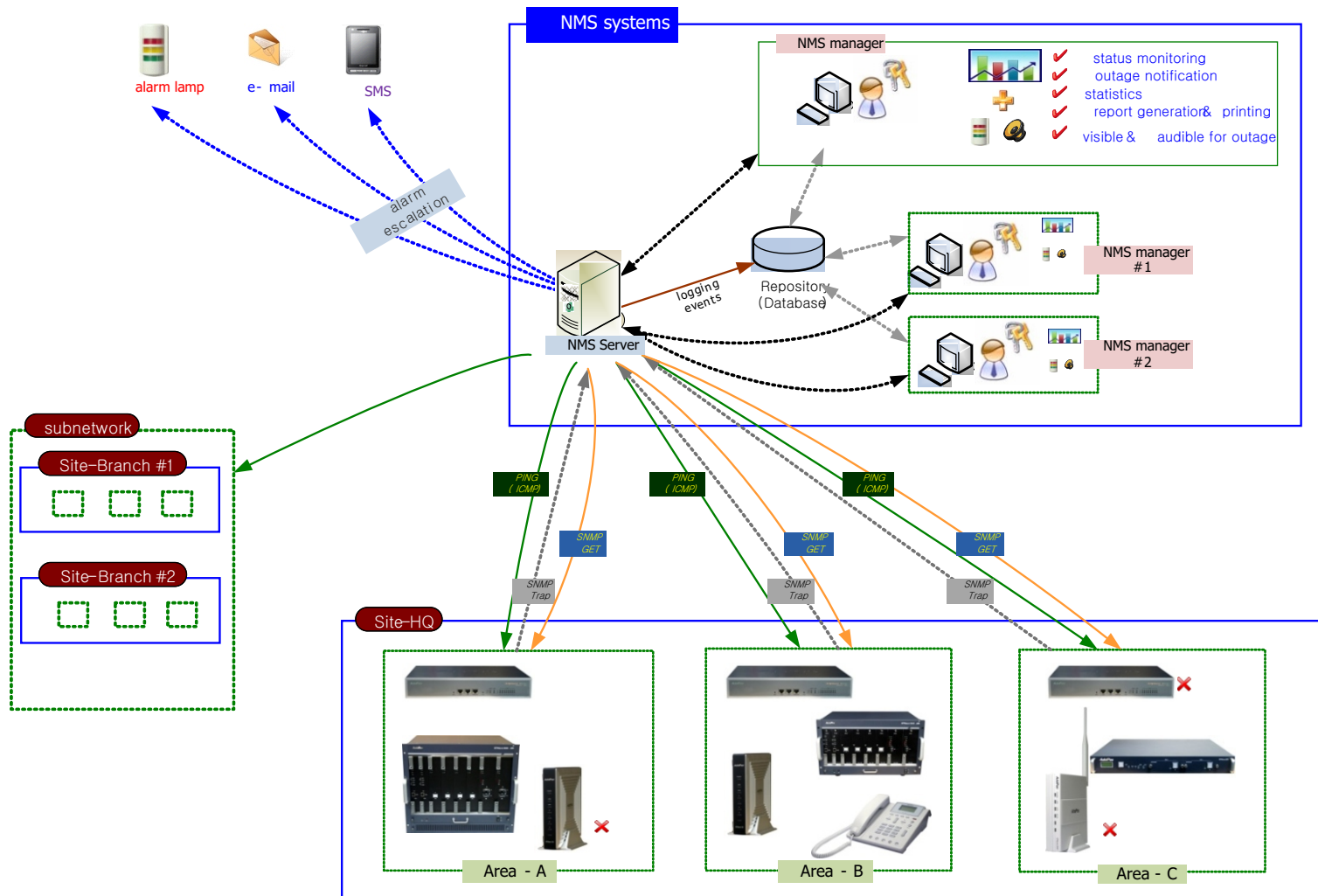
NMS Server

- ? OS : RHEL (Redhat Enterprise Linux) 5.0 or higher
- ? CPU : Quad-Core 2.0 GHz / 1333MHz FSB 2x4 MB cache
- ? Physical Memory : 4 GB
- ? HDD : 300 G
- ? JRE (Java Runtime Environment) 1.5.1 or Higher
- ? Database : PostgreSQL 8.1.11

NMS Client

- ? Windows XP, Vista, Windows Server 2000/2003
- ? Microsoft Internet Explorer 6.0 or higher

NMS Networking Diagram



Web-based Management

- ? Easy Access via Web browser
 - ? Microsoft Internet Explorer 6.0 or higher compatible
- ? Version Control
 - ? Automatic version check
 - ? New version software download feature
- ? UI control
 - ? User friendly GUI management

Version Control

The screenshot displays the IPNext Web-Based Management interface within a Windows Internet Explorer browser window. The browser's address bar shows the URL `http://172.16.31.20/`. The main content area features a dark blue background with a world map and binary code, and the text "AddPac Technology Smart Network Management System".

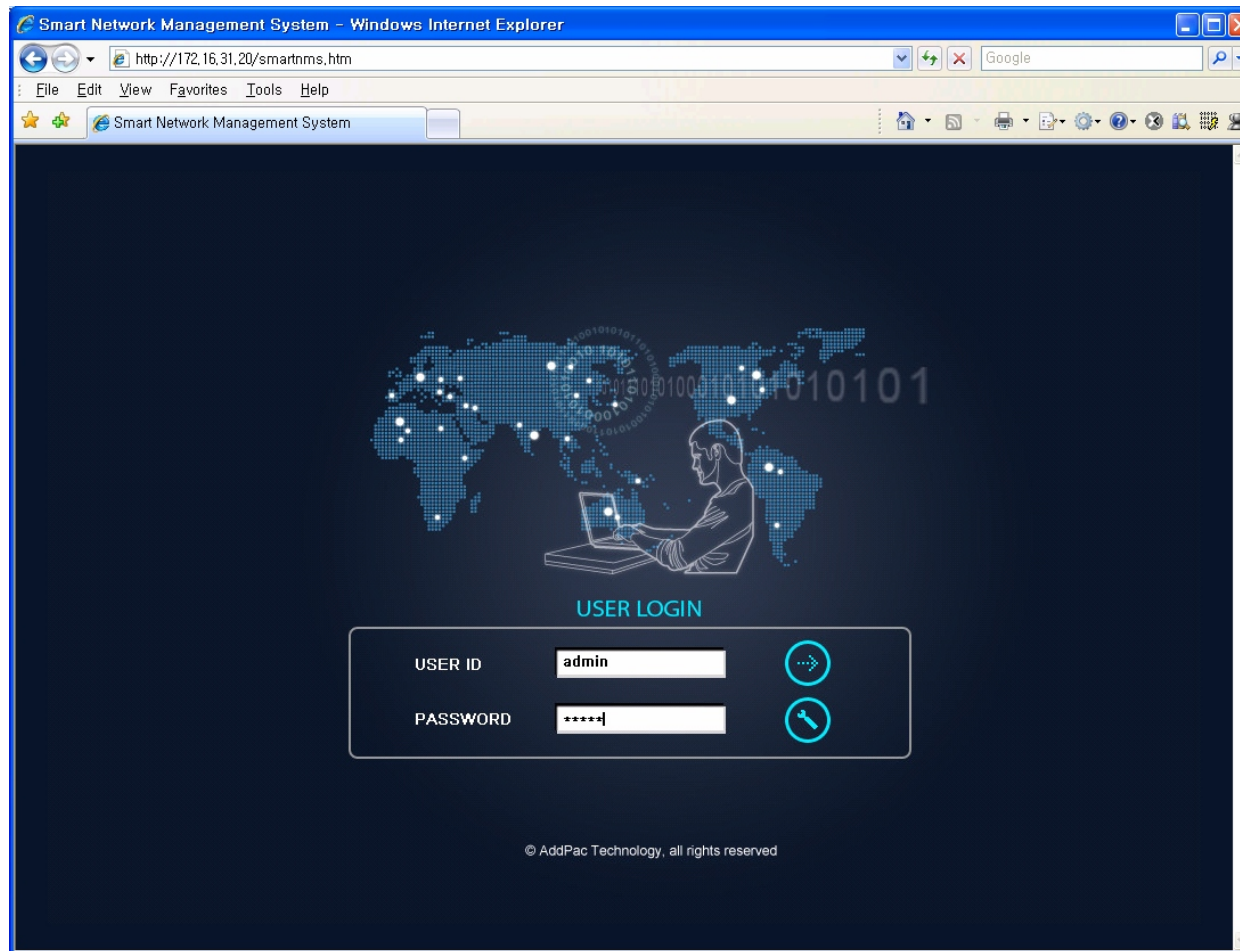
Two yellow callout boxes highlight specific features:

- Automatic version check:** A yellow box with an arrow pointing to the top right of the browser window.
- New S/W version update:** A yellow box with an arrow pointing to the bottom right of the browser window.

Two Windows-style dialog boxes are overlaid on the interface:

- Launching Application:** A dialog box with a blue title bar and a close button. It contains a progress bar and the text: "Verifying application requirements. This may take a few moments."
- (61%) Downloading installnms:** A dialog box with a blue title bar and standard window controls. It contains a progress bar and the text: "Downloading installnms. This may take several minutes. You can use your computer to do other tasks during the installation." Below the progress bar, it lists: "Name: installnms", "From: 172.16.31.20", and "Downloading: 6.29 MB of 10.1 MB". A "Cancel" button is at the bottom right.

Web-based Login



Network Resource Management

- ? Network resource management with hierarchical structure
- ? Role-based resource management for each administrator

The screenshot displays the AddPac Network Resource Management interface. On the left, a hierarchical tree structure shows the organization of network resources, including sites like 'AddPac' and 'Seoul', and various sub-networks and centers. A context menu is open over the tree, with 'Execute SMM' highlighted. In the center, a table lists device categories such as Desktop, Network Camera, Phone, Server, Switch, and VoIP Gateway. On the right, a 'User Properties' dialog box is open, showing a selection of site nodes for role-based policy assignment. Three orange callout boxes provide additional context: one points to the tree structure, another to the 'Execute SMM' menu item, and a third to the 'User Properties' dialog.

manage the complex network with a structured, hierarchical form

can assign the hierarchical node to the operator and manage role-based policy

can cooperate with the application executables such as SMM

Device Fault Management

- ? Centralized fault summary information in main window
- ? Display current fault device through tree view
- ? Notify administrator with detailed fault information
- ? Provide device availability information for 24hrs

Device Fault Management

main window

The screenshot displays the Smart Network Management System (NMS) interface. The main window shows a navigation menu with options like NMS, Account, Configuration, Monitoring, Notification, Fault, Statistics, and View. The interface is divided into several sections:

- Current Outage Devices (11):** A tree view showing the hierarchy of devices. Under 'Subnetwork #2', 'NMS_SOHO_...' is highlighted with 2 of 2 devices at 98.115% availability.
- Site Device Fault Summary:** A table showing overall statistics for the site.

Site	Type	Outages	Availability	Description
AddPac	Sub Netw...	28 / 10 / 32	53%	AddPac Technology C...
Seoul	Sub Netw...	2 / 1 / 2	98%	Seoul subnetwork
- Device Categories:** A table showing fault statistics for various device categories.

Category	Outages	Availability
Desktop	0 / 0 / 1	100%
Network Camera	6 / 1 / 2	54%
Phone	0 / 0 / 3	98%
Server	24 / 10 / 22	58%
Switch	0 / 0 / 0	100%
VoIP Gateway	0 / 0 / 6	98%
- Your Outstanding Notices (16):** A table listing recent fault events.

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
<input checked="" type="checkbox"/>	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Center	NMS_SOHO_PBX			device NMS_SOHO_PBX, all services are down
<input type="checkbox"/>	9495	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Slave	172.17.113.41	Call Manager	interface 172.17.113.41 (172.17.113.41) device (IPNext 3000 Slave) service Call Manager 2009-4-10 11:37:12 failed
<input type="checkbox"/>	9494	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Master	172.17.113.40	Call Manager	interface 172.17.113.40 (172.17.113.40) device (IPNext 3000 Master) service Call Manager 2009-4-10 11:37:12 failed
<input type="checkbox"/>	9418	4/9/2009 2:20:01 PM	/AddPac/Branch GX	00_IVR_server			device 00_IVR_server all services are down
<input type="checkbox"/>	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_31.13			device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) not response or deleted by administrator
<input type="checkbox"/>	9239	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118		device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) service ICMP not response or deleted by administrator
<input type="checkbox"/>	9238	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	ICMP	device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) service SNMP not response or deleted by administrator
<input type="checkbox"/>	9237	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	SNMP	device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) service ICMP not response or deleted by administrator
<input type="checkbox"/>	9236	4/6/2009 7:41:25 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	ICMP	device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) service ICMP not response or deleted by administrator
<input type="checkbox"/>	9235	4/6/2009 7:41:25 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	SNMP	device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) service SNMP not response or deleted by administrator

site device fault summary

device fault summary for category (classification)

current device fault list with hierarchy view

overall total device fault statistics

current device fault event message are shown as below

Device Fault Management

Smart Network Management System - Windows Internet Explorer

http://172.16.31.20/smartnms.htm

NMS Account Configuration Monitoring Notification Fault Statistics View Help

Current Outage Devices (12) Site

Service Outages Device Monitoring - <All>

View Mode Large Small Refresh Import

display message icon when the device have a notification for event

device status matrix with several severity such as critical, major, minor

* severity color
 1) red : critical
 2) orange : major
 3) light blue : normal

Total Monitoring Devices : 34

PK	ID	Send Time	Site	Device Name	IP Address	Service	Message
9525		4/10/2009 5:21:06 PM	/AddPac/Branch GX	00_NR_server	172.17.111.21	SNMP	인터페이스 172.17.111.21 (172.17.111.21)의 장비명(00_NR_server)의 서비스 SNMP가 2009년 4월 10일 금요일 오후 5시 21분 06초에 실패함.
9502		4/10/2009 3:34:29 PM	/Subnetwork.#2/Center	NMS_SOHO_PBX			device NMS_SOHO_PBX, all services are down
9495		4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Slave	172.17.113.41	Call Manager	interface 172.17.113.41 (172.17.113.41) device (IPNext 3000 Slave) service Call Manager 2009-4-10 11:37:12 failed.
9494		4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Master	172.17.113.40	Call Manager	interface 172.17.113.40 (172.17.113.40) device (IPNext 3000 Master) service Call Manager 2009-4-10 11:37:12 failed.
9418		4/9/2009 2:20:01 PM	/AddPac/Branch GX	00_IVR_server			device 00_IVR_server all services are down

4/10/2009 5:16:30 PM 172.16.31.20:5101 admin Version 1.2.3384

Device Fault Management

The screenshot displays the Smart Network Management System (NMS) interface within a Windows Internet Explorer browser. The main content area shows a 'Device Monitoring' page with a 'device status matrix with small view mode'. The matrix consists of a grid of icons representing various network devices, each with a status indicator (green for healthy, red for faulted). A red arrow points to the 'NMS Camera' device, which is highlighted with a red box. An orange callout box contains the text 'device status matrix with small view mode'.

Below the device status matrix, there is a section for 'Your Outstanding Notices (18)'. This section contains a table of alerts:

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
<input type="checkbox"/>	9535	4/10/2009 9:26:04 PM	/AddPac/Branch GX	00_RBT_server			device 00_RBT_server's all services are down.
<input type="checkbox"/>	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th floor meeting			device 5th floor meeting room phone device, all services are down.
<input type="checkbox"/>	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Cent.	NMS_SOHD_PBX			device NMS_SOHD_PBX, all services are down
<input type="checkbox"/>	9495	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Slave	172.17.113.41	Call Manager	interface 172.17.113.41 (172.17.113.41) device (IPNext 3000 Slave) service Call Manager 2009-4-10 11:37:12 failed.
<input type="checkbox"/>	9494	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Master	172.17.113.40	Call Manager	interface 172.17.113.40 (172.17.113.40) device (IPNext 3000 Master) service Call Manager 2009-4-10 11:37:12 failed
<input type="checkbox"/>	9418	4/9/2009 2:20:01 PM	/AddPac/Branch GX	00_IVR_server			device 00_IVR_server all services are down.
<input type="checkbox"/>	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_3...			device NMS_IP_PBX_31.13 all services down.
<input type="checkbox"/>	9239	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118		device [NMS_Camera 2] interface 172.16.253.118 (172.16.253.118) not response or delete by administrator
<input type="checkbox"/>	9238	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	ICMP	device [NMS_Camera 2] interface 172.16.253.118 (172.16.253.118) service ICMP not response or delete by administrator

Device Fault History Management

- ? Provide both summary view and detailed event message
- ? Can Write troubleshooting job note for each event manually
- ? Administrator can query for a history fault with search condition
- ? Each fault is related to the several raw events

Device Fault History Management

The screenshot displays the Smart Network Management System (NMS) interface. The main window shows a list of fault events with columns for Ack, ID, Send Time, Site, Device Name, IP Address, Service, Message, and Respond Time. An 'Advanced Search' dialog box is open, allowing users to filter events based on Sub Network, Site, IP Address, Notice Status Type, Level (Severity), Message Contains, Notices After, Notices Before, and Sort By.

daily fault event summary statistics information

DateTime	Outstanding	Acknowledge
2009-04-10	4	27
2009-04-09	2	76
2009-04-08	0	96
2009-04-07	0	40
2009-04-06	7	489
2009-04-05	0	722
2009-04-04	0	708
2009-04-03	1	476
2009-04-02	0	248
2009-04-01	0	19
2009-03-31	0	37
2009-03-30	0	9
2009-03-29	0	3
2009-03-28	0	1
2009-03-27	0	14
2009-03-26	0	52
2009-03-25	0	8
2009-03-24	0	19
2009-03-23	0	59
2009-03-22	0	102
2009-03-21	0	17
2009-03-20	0	21
2009-03-18	0	48
2009-03-17	0	41
2009-03-13	0	36
2009-03-07	0	1
2009-03-06	0	482
2009-03-05	0	38
2009-03-04	0	13

detail fault event history list up with filter condition (advanced search)

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message	Respond Time
<input type="checkbox"/>	9528	4/10/2009 5:51:06 PM	/AddPac/Branch AQ	NMS Camera	172.16.4.180	SNMP	interface 172.16.4.180 (172.16.4.180) device(NMS Camera) service SNMP failed at 2009-4-10 5:51 06 PM	4/10/2009 5:51:35 PM
<input type="checkbox"/>	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th floor meeting room phone device			device 5th floor meeting room phone device, all services are down.	4/10/2009 5:35:25 PM
<input type="checkbox"/>	9526	4/10/2009 5:33:42 PM	/AddPac/Branch GX	00_NR_server	172.17.11.1			4/10/2009 5:22:43 PM
<input type="checkbox"/>	9525	4/10/2009 5:21:06 PM	/AddPac/Branch GX	00_NR_server	172.17.11.1			4/10/2009 5:17:56 PM
<input type="checkbox"/>	9524	4/10/2009 5:17:29 PM	/AddPac/Branch GX	00_NR_server	172.17.11.1			4/10/2009 4:03:13 PM
<input type="checkbox"/>	9522	4/10/2009 3:36:26 PM	/AddPac/HeadQuarter	IP_PBX_Slave(our company)				4/10/2009 4:03:13 PM
<input type="checkbox"/>	9521	4/10/2009 3:36:18 PM	/AddPac/HeadQuarter	PS_server(our co...				4/10/2009 4:03:13 PM
<input type="checkbox"/>	9520	4/10/2009 3:36:17 PM	/AddPac/HeadQuarter	RBT server(our company)				4/10/2009 4:03:13 PM
<input type="checkbox"/>	9519	4/10/2009 3:36:17 PM	/AddPac/HeadQuarter	UMS_server #2				4/10/2009 4:03:13 PM
<input type="checkbox"/>	9518	4/10/2009 3:36:09 PM	/AddPac/HeadQuarter	Recording Server (our company)				4/10/2009 4:03:13 PM
<input type="checkbox"/>	9517	4/10/2009 3:36:08 PM	/AddPac/HeadQuarter	company_MCU_s...				4/10/2009 4:03:14 PM
<input type="checkbox"/>	9516	4/10/2009 3:36:00 PM	/AddPac/Branch GX	00_PS_Slave_ser...				4/10/2009 4:03:13 PM
<input type="checkbox"/>	9514	4/10/2009 3:35:50 PM	/AddPac/Branch GX	00_PS_server				4/10/2009 4:02:54 PM
<input type="checkbox"/>	9513	4/10/2009 3:35:41 PM	/AddPac/HeadQuarter	5th floor meeting room phone device				4/10/2009 4:02:43 PM
<input type="checkbox"/>	9512	4/10/2009 3:35:41 PM	/AddPac/HeadQuarter	IP_PBX_Master (our company)				4/10/2009 4:02:44 PM
<input type="checkbox"/>	9511	4/10/2009 3:35:33 PM	/AddPac/Branch KT	172.16.51.12				4/10/2009 4:02:43 PM

Results: 1 to 20 of 6701 Search Constraints: user=admin

Your Outstanding Notices (17)

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
<input type="checkbox"/>	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th floor meeting ro...			device 5th floor meeting room phone device, all services are down.
<input type="checkbox"/>	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Center	NMS_SOHD_PBX			device NMS_SOHD_PBX, all services are down
<input type="checkbox"/>	9495	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Slave	172.17.113.41	Call Manager	interface 172.17.113.41 (172.17.113.41) device (IPNext 3000 Slave) service Call Manager 2009-4-10 11:37:12 failed.
<input type="checkbox"/>	9494	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Master	172.17.113.40	Call Manager	interface 172.17.113.40 (172.17.113.40) device (IPNext 3000 Master) service Call Manager 2009-4-10 11:37:12 failed.
<input type="checkbox"/>	9418	4/9/2009 2:20:01 PM	/AddPac/Branch GX	00_IVR_server			device 00_IVR_server all services are down.
<input type="checkbox"/>	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_31.13			device NMS_IP_PBX_31.13 all services down.
<input type="checkbox"/>	9239	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118		device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) not response or delete by administrator
<input type="checkbox"/>	9238	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	ICMP	device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) service ICMP not response or deleted by administrator
<input type="checkbox"/>	9237	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	SNMP	device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) service SNMP not response or deleted by administrator

Current Device Fault (Outage)

The screenshot displays the Smart Network Management System (NMS) interface. The main window shows a tree view of network devices on the left and a table of 'Current Outage Devices' in the center. An 'Event Detail' window is open, showing information for event ID 45412, including the event time, site, device name, IP address, service, and severity. The event description states: 'device 00_RBT_server's all interface down. A new Outage record has been created and service level availability calculations will be impacted until this outage is resolved.' Below the description is a 'Troubleshooting Note List' table.

Outage ID	Site	Device Name	IP Address	Service	Time Down
13968	/AddPac/Branch GX	00_RBT_server	172.17.114.60	Media	4/10/2009 9:26:04 PM
13967	/AddPac/Branch GX	00_RBT_server	172.17.114.60	SNMP	4/10/2009 9:26:04 PM
13966	/AddPac/Branch GX	00_RBT_server	172.17.114.60	SNMP	4/10/2009 9:26:04 PM
13948	/AddPac/HeadQuarter	5th floor meeting room p...	172.17.114.60	ICMP	4/10/2009 5:34:10 PM
13907	/Subnetwork #2/Cent.	NMS_SOHO_PBX	172.16.19.50	ICMP	4/10/2009 3:34:29 PM
13906	/Subnetwork #2/Cent.	NMS_SOHO_PBX	172.16.19.50	SNMP	4/10/2009 3:34:29 PM
13896	/AddPac/Branch GX	IPNext 3000 Slave	172.17.113.41	Call Manager	2009-4-10 11:37:12 failed.
13895	/AddPac/Branch GX	IPNext 3000 Master	172.17.113.40	Call Manager	interface 172.17.113.40 (172.17.113.40) device (IPNext 3000 Master) service Call Manager: 2009-4-10 11:37:12 failed
13802	/AddPac/Branch GX	00_IVR_server	172.17.113.40	Call Manager	device 00_IVR_server all services are down.
13801	/AddPac/Branch GX	00_IVR_server	172.17.113.40	Call Manager	device NMS_IP_PBX_31.13 all services down.
13800	/AddPac/Branch GX	00_IVR_server	172.17.113.40	Call Manager	device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) not response or delete by administrator
13773	/AddPac/Branch AQ	NMS_IP_PBX_31.13	172.16.253.118	Call Manager	
13772	/AddPac/Branch AQ	NMS_IP_PBX_31.13	172.16.253.118	Call Manager	
13771	/AddPac/Branch AQ	NMS_IP_PBX_31.13	172.16.253.118	Call Manager	
13611	/AddPac/Branch AQ	NMS Camera	172.16.253.118	Call Manager	
13610	/AddPac/Branch AQ	NMS Camera	172.16.253.118	Call Manager	
13609	/AddPac/Branch AQ	NMS Camera	172.16.253.118	Call Manager	
13608	/AddPac/Branch AQ	NMS Camera	172.16.253.118	Call Manager	
13607	/AddPac/Branch AQ	NMS Camera	172.16.253.118	Call Manager	
13606	/AddPac/Branch AQ	NMS Camera	172.16.253.118	Call Manager	
9021	/AddPac/Branch GX	UMS slave	172.16.253.118	Call Manager	
9020	/AddPac/Branch GX	UMS slave	172.16.253.118	Call Manager	
9019	/AddPac/Branch GX	UMS slave	172.16.253.118	Call Manager	
6489	/AddPac/Branch GX	00_PS_server	172.16.253.118	Call Manager	

Event Detail (ID: 45412)

Event Time: 4/10/2009 9:26:04 PM | IP Address: 172.17.114.60 | Severity: Critical

Site: /AddPac/Branch GX | Device Name: 00_RBT_server | Device Model: AP-RBT1000

Service: | Status: | Acknowledged By: |

Log Message: device 00_RBT_server down

Description: device 00_RBT_server's all interface down. A new Outage record has been created and service level availability calculations will be impacted until this outage is resolved.

Troubleshooting Note List:

Time	User	Status	Note

Device Event History

Smart Network Management System - Windows Internet Explorer

http://172.16.31.20/smartnms.htm

File Edit View Favorites Tools Help

Smart Network Management System

NMS Account Configuration Monitoring Notification Fault Statistics View Help

Site Event Summary Service Outages Event Notification Destination Paths Users View Current Outages View Outages View Events

Limit 20 Refresh Advanced Search Acknowledge Events Troubleshooting Note

Event Time	Outsta...	Ackno...	Not Clea...	Cleared	In Pr...
2009-04-13	40	0	40	0	0
2009-04-12	6	0	6	0	0
2009-04-11	314	0	314	0	0
2009-04-10	182	0	182	0	0
2009-04-09	290	0	290	0	0
2009-04-08	412	0	412	0	0
2009-04-07	448	0	448	0	0
2009-04-06	1453	0	1453	0	0
2009-04-05	1704	0	1704	0	0
2009-04-04	1712	0	1712	0	0
2009-04-03	1276	0	1276	0	0
2009-04-02	799	0	799	0	0
2009-04-01	271	0	271	0	0
2009-03-31	277	0	277	0	0
2009-03-30	212	0	212	0	0
2009-03-29	17	0	17	0	0
2009-03-28	2	0	2	0	0
2009-03-27	108	0	108	0	0
2009-03-26	292	0	292	0	0
2009-03-25	46	0	46	0	0
2009-03-24	121	0	121	0	0
2009-03-23	1904	0	1904	0	0
2009-03-22	2643	0	2643	0	0
2009-03-21	354	0	354	0	0
2009-03-20	172	0	172	0	0
2009-03-19	1	0	1	0	0
2009-03-18	1294	0	1294	0	0
2009-03-17	788	0	788	0	0
2009-03-16	14	0	14	0	0
2009-03-15	3	0	3	0	0

Ack	ID	Severity	Event Time	Site	Device Name	IP Address	Service	Message
<input type="checkbox"/>	45786	Critical	4/13/2009 11:24:42 AM	/AddPac/Branch GX	SE_MG3000N_A	172.17.111.25		Agent Up with enterprise: 1.3.6.1.4.1.4855.3.2.255 args [1]: 1.3.6.1.4.1.4855.3.2.255"
<input type="checkbox"/>	45785	Cleared	4/13/2009 11:15:59 AM	/AddPac/Branch GX	00_NR_server	172.17.111.21	SNMP	SNMP data collection on interface 172.17.111.21 previously failed and has been restored. Node 00_NR_server is up.
<input type="checkbox"/>	45784	Cleared	4/13/2009 11:15:52 AM	/AddPac/Branch GX	00_NR_server	172.17.111.21		Agent Up with Possible Changes (coldStart Trap) enterprise: 1.3.6.1.4.1.4855.3.2.10 [1]: 1.3.6.1.4.1.4855.3.2.10" args [1]: 1.3.6.1.4.1.4855.3.2.10"
<input type="checkbox"/>	45783	Critical	4/13/2009 11:15:51 AM	/AddPac/Branch GX	00_NR_server	172.17.111.21		Node 00_NR_server is down.
<input type="checkbox"/>	45782	Critical	4/13/2009 11:15:13 AM	/AddPac/Branch GX	00_NR_server	172.17.111.21	SNMP	SNMP data collection on interface 172.17.111.21 failed.
<input type="checkbox"/>	45781	Warning	4/13/2009 11:14:57 AM	/AddPac/Branch GX	00_NR_server	172.17.111.21	SNMP	SNMP thresholding on interface 172.16.31.13 failed.
<input type="checkbox"/>	45780	Warning	4/13/2009 10:00:15 AM	/AddPac/Branch AQ	NMS_IP_PBX_31...	172.16.31.13	SNMP	SNMP thresholding on interface 172.16.31.16 failed.
<input type="checkbox"/>	45779	Warning	4/13/2009 10:00:15 AM	/Subnetwork #2/Cent...	NMS_IP_PBX_31...	172.16.31.16	SNMP	SNMP data collection on interface 172.17.113.201 failed.
<input type="checkbox"/>	45778	Warning	4/13/2009 9:59:51 AM	/AddPac/Branch GX	UMS slave	172.17.113.201	SNMP	SNMP data collection on interface 172.17.113.201 failed.
<input type="checkbox"/>	45777	Warning	4/13/2009 9:59:46 AM	/AddPac/Branch GX	UMS slave	172.17.113.201	SNMP	SNMP data collection on interface 61.33.161.43 failed.
<input type="checkbox"/>	45776	Warning	4/13/2009 9:59:42 AM	/AddPac/HeadQuarter	UMS server(our co...	61.33.161.43	SNMP	SNMP data collection on interface 61.33.161.43 failed.
<input type="checkbox"/>	45775	Warning	4/13/2009 9:59:41 AM	/AddPac/HeadQuarter	UMS server(our co...	61.33.161.43	SNMP	SNMP data collection on interface 172.16.19.50 failed.
<input type="checkbox"/>	45774	Warning	4/13/2009 9:59:36 AM	/Subnetwork #2/Cent...	NMS_SDHO_PBX	172.16.19.50	SNMP	SNMP data collection on interface 172.16.19.50 failed.
<input type="checkbox"/>	45773	Warning	4/13/2009 9:59:33 AM	/Subnetwork #2/Cent...	NMS_SDHO_PBX	172.16.19.50	SNMP	SNMP data collection on interface 172.16.19.50 failed.
<input type="checkbox"/>	45772	Warning	4/13/2009 9:59:32 AM	/Subnetwork #2/Cent...	NMS_SDHO_PBX	172.16.19.50	SNMP	SNMP data collection on interface 172.16.19.50 failed.
<input type="checkbox"/>	45771	Warning	4/13/2009 9:59:27 AM	/Subnetwork #2/Cent...	NMS_SDHO_PBX	172.16.19.50	SNMP	SNMP data collection on interface 172.16.19.50 failed.
<input type="checkbox"/>	45770	Warning	4/13/2009 9:59:24 AM	/Subnetwork #2/Cent...	NMS_SDHO_PBX	172.16.19.50	SNMP	SNMP data collection on interface 172.16.19.50 failed.
<input type="checkbox"/>	45769	Warning	4/13/2009 9:59:23 AM	/Subnetwork #2/Cent...	NMS_SDHO_PBX	172.16.19.50	SNMP	SNMP data collection on interface 172.16.31.13 failed.
<input type="checkbox"/>	45768	Warning	4/13/2009 9:59:18 AM	/AddPac/Branch AQ	NMS_IP_PBX_31...	172.16.31.13	SNMP	SNMP data collection on interface 172.16.31.13 failed.
<input type="checkbox"/>	45767	Warning	4/13/2009 9:59:15 AM	/AddPac/Branch AQ	NMS_IP_PBX_31...	172.16.31.13	SNMP	SNMP data collection on interface 172.16.31.13 failed.

Results: 1 to 20 of 25346 Search Constraints: user=admin

Site	Device Name	IP Address	Service	Message
/AddPac/Branch GX	00_RBT_server			device 00_RBT_server's all services are down.
/AddPac/HeadQuarter	5th floor meeting...			device 5th floor meeting room phone device, all services are down.
/Subnetwork #2/Cent...	NMS_SDHO_PBX			device NMS_SDHO_PBX, all services are down.
<input type="checkbox"/>	9495	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Slave 172.17.113.41
<input type="checkbox"/>	9494	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Master 172.17.113.40
<input type="checkbox"/>	9418	4/9/2009 2:20:01 PM	/AddPac/Branch GX	00_IVR_server
<input type="checkbox"/>	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_3...
<input type="checkbox"/>	9239	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2 172.16.253.118

Your Outstanding Notices (18) All Outstanding Notices (18)

4/13/2009 11:46:45 AM 172.16.31.20:5101 admin Version 1.2.3384

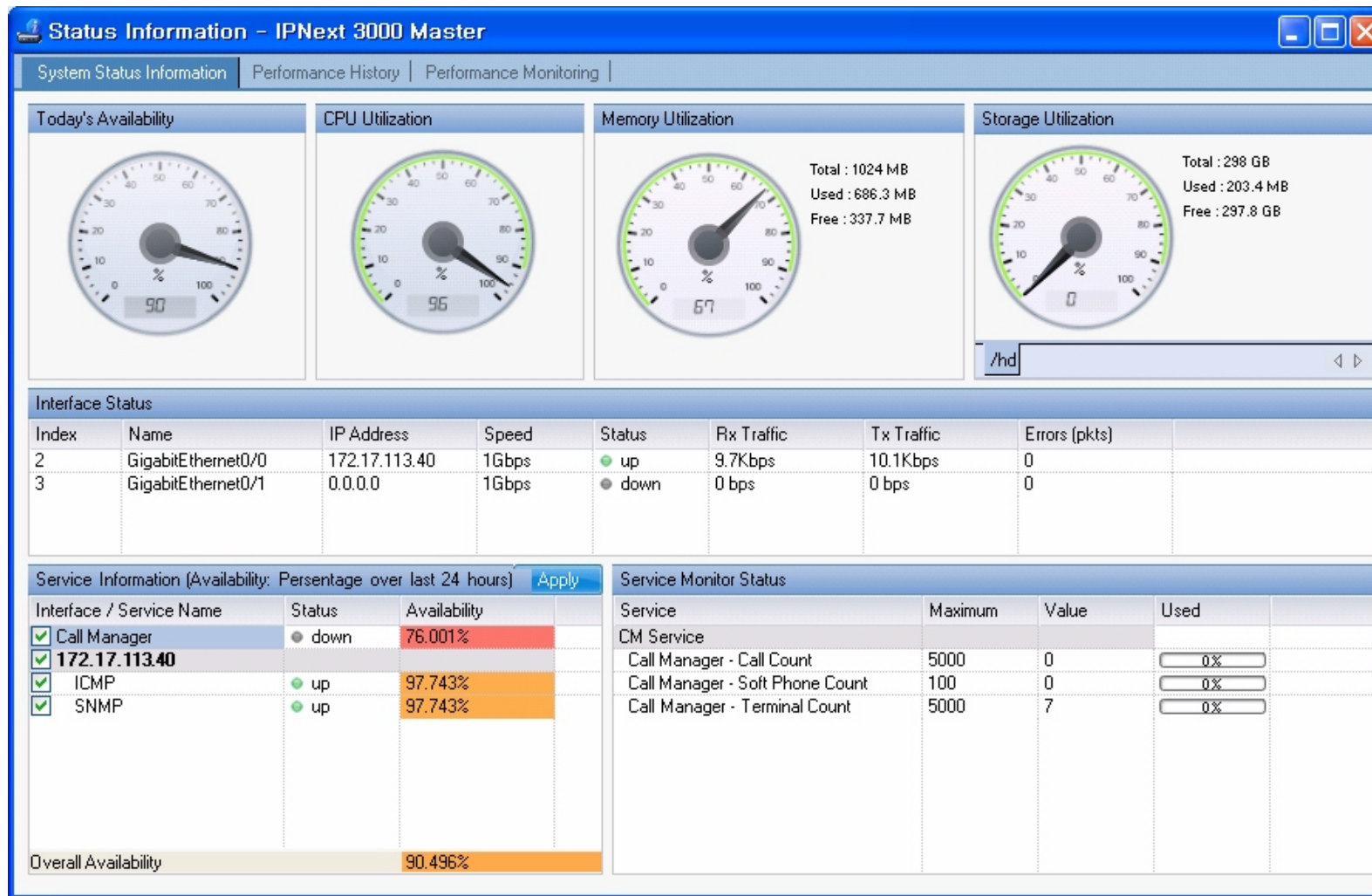
Can view all events for devices with search condition

summarize daily event statistics data

Device Status Information

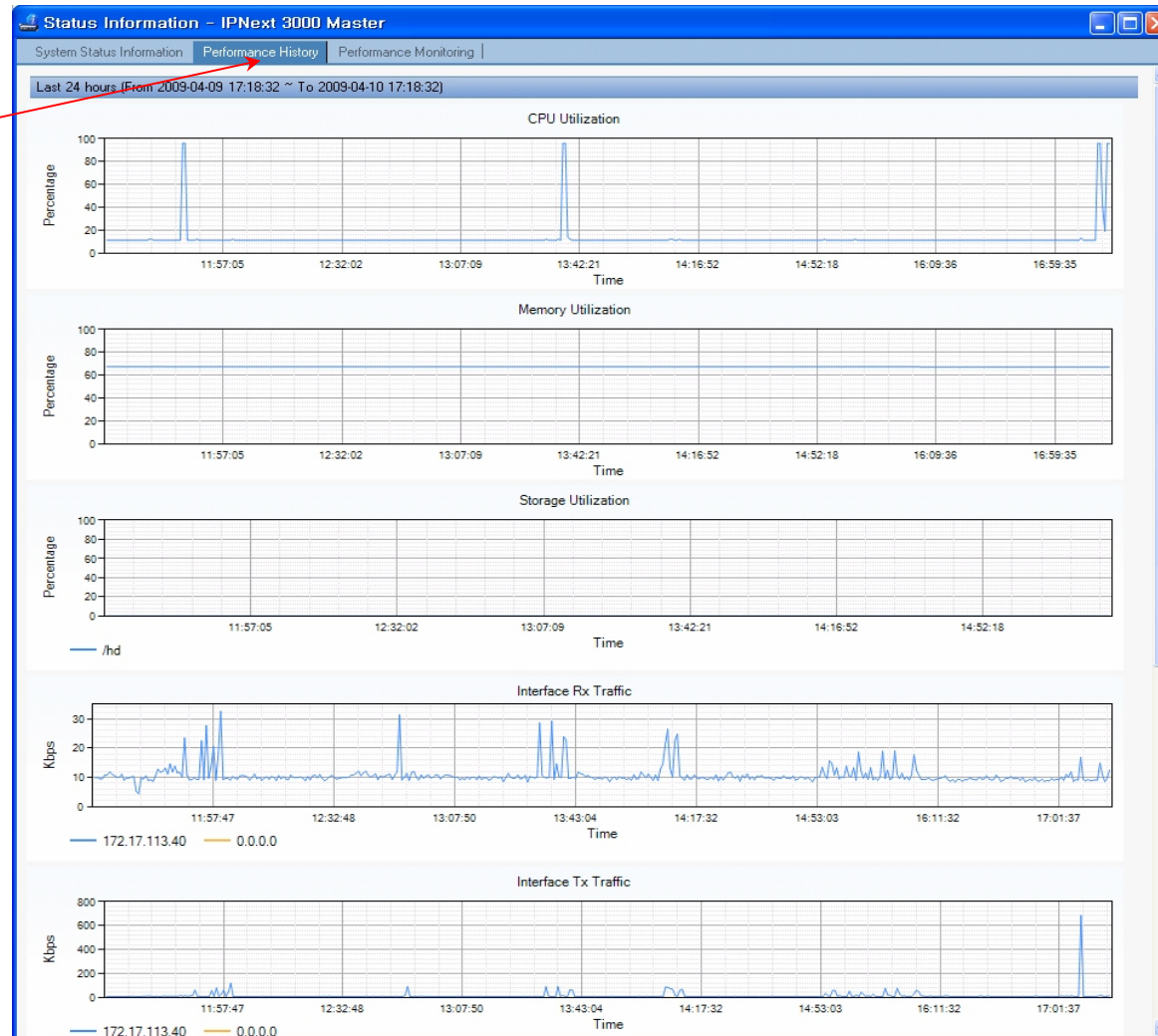
- ? System Performance Information (CPU, HDD, Memory,?)
- ? Provide device current service status (up/down)
- ? Provide device main status (max value vs current value)
- ? Display Graph Series with System Performance Information
- ? Monitor Main Status Flow with System Monitoring View

Device Status Information

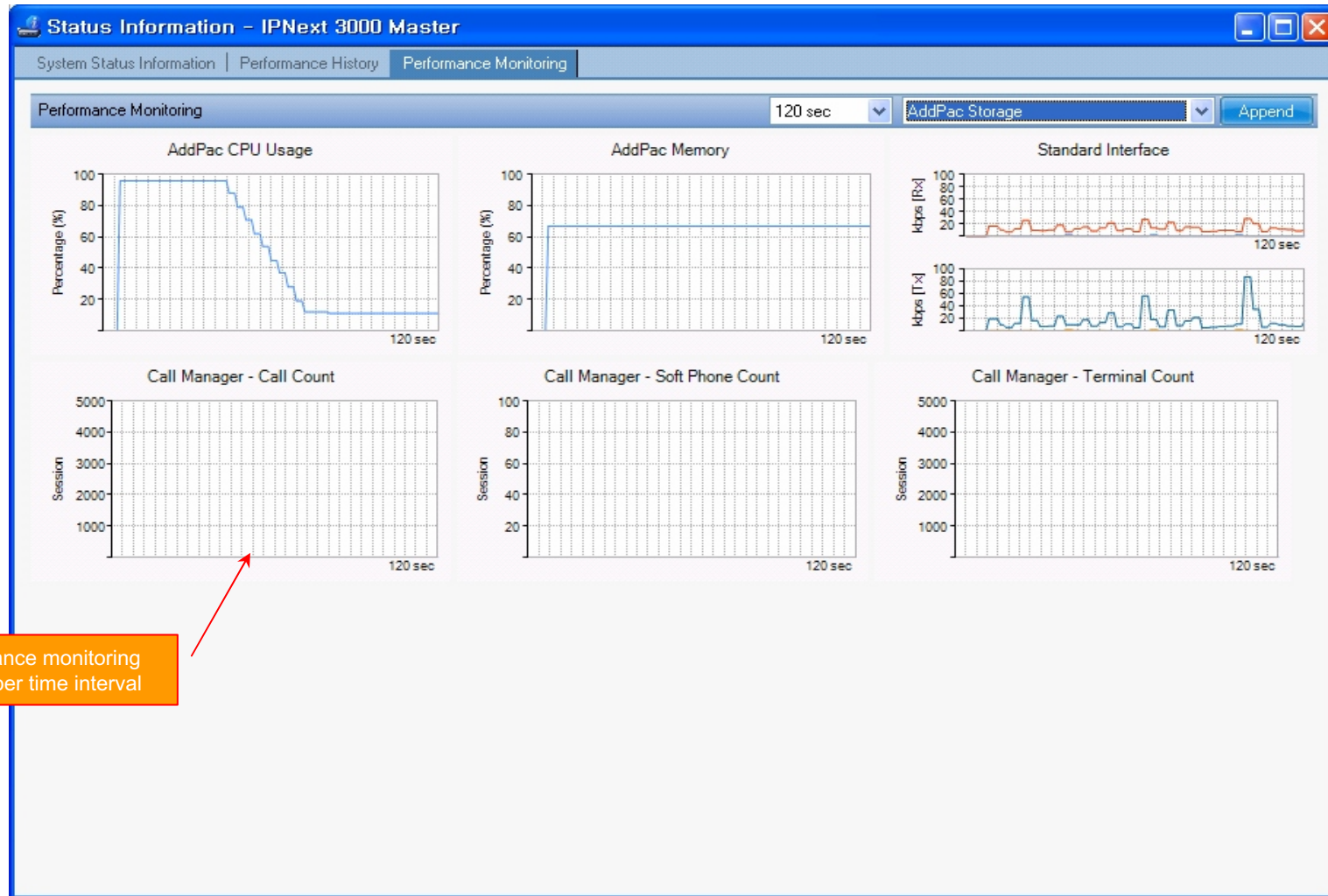


Device Status Information

performance analysis graph for last 24 hours



Device Status Information



Notification Management

- ? Notify administrator for important event such as critical device fault when proper action needs
- ? Provide several notification channels such as SMS, e-mail, alarm lamp
- ? Notification channel configuration for each event
- ? Manage notification with device category such as Server, Terminal, PC, etc
- ? Provide Alarm with audible (playsound), visible (alarm lamp) form

Event Notification Management

The screenshot displays the Smart Network Management System (NMS) interface. The main window shows a tree view of devices and a table of event notifications. A dialog box titled 'Event Notification Properties' is open, showing configuration for a notification named 'serviceUnresponsive'. The dialog includes fields for Notification Name, Description, Event, Destination Path, Notification Type, Current Rule, Apply Category, Email Subject, and Text Message. Three orange callout boxes provide instructions:

- apply notification policy with event-based filter** (example : notify me when network link of device is downed through SMS, e-mail)
- specify category when each event occurs**
- describe notification message content for e-mail or SMS**

The 'Event Notification Properties' dialog shows the following configuration:

- Notification Name: serviceUnresponsive
- Description: test
- Event: Node event: serviceUnresponsive
- Destination Path: default
- Notification Type: sms, alarmLamp, email
- Current Rule: IPADDR IPLIKE ****
- Apply Category: Desktop, Network Camera, Phone, Server, Switch
- Email Subject: Notice #%noticeid%: %service% service on %interface% (%interface%)
- Text Message: The %service% poll to interface %interface% (%interface%) on node %nodename% successfully completed a connection to the service listener on the remote machine. However, the synthetic transaction failed to complete within %parm[timeout]% milliseconds, over %parm[attempts]% attempts. This event will NOT impact service level agreements, but may be an indicator of other problems on that node.

The 'Your Outstanding Notices (18)' table shows the following data:

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
<input type="checkbox"/>	9535	4/10/2009 9:26:04 PM	/AddPac/Branch GX	00_RBTT_server		device.00_RBTT_server.all services	
<input type="checkbox"/>	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th_floor_meeting...			
<input type="checkbox"/>	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Cent...	NMS_SOHO_PBX			
<input type="checkbox"/>	9495	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Slave	172.17.113.41	Call Manager	
<input type="checkbox"/>	9494	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Master	172.17.113.40	Call Manager	
<input type="checkbox"/>	9418	4/9/2009 2:20:01 PM	/AddPac/Branch GX	00_IVR_server			
<input type="checkbox"/>	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_3...			
<input type="checkbox"/>	9239	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118		

Event Notification Management

The screenshot displays the Smart Network Management System (NMS) interface. The main window shows a tree view of network devices and their service availability. A dialog box titled "Destination Path Properties" is open, showing configuration options for a destination path named "default". The dialog includes a table for defining notification channels:

Notification Type	Target	Auto Notify
alarmLamp	alarmLamp	on
email	admin	on
sms	admin	on

A red callout box with the text "define notification channel such as e-mail, sms, or alarmlamp" points to the "alarmLamp" entry in the table. The dialog also includes an "Escalation" section with a similar table and "Add", "Delete", "Help", "Ok", and "Cancel" buttons.

At the bottom of the interface, a table lists "Your Outstanding Notices (18)":

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
<input type="checkbox"/>	9535	4/10/2009 9:26:04 PM	/AddPac/Branch GX	00_RB_T_server			device 00_RB_T_server's all services are down.
<input type="checkbox"/>	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th floor meeting...			device 5th floor meeting room phone device, all services are down.
<input type="checkbox"/>	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Cent...	NMS_SOHD_PBX			device NMS_SOHD_PBX, all services are down
<input type="checkbox"/>	9495	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Slave	172.17.113.41	Call Manager	interface 172.17.113.41 (172.17.113.41) device (IPNext 3000 Slave) service Call Manager 2009-4-10 11:37:12 failed
<input type="checkbox"/>	9494	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Master	172.17.113.40	Call Manager	interface 172.17.113.40 (172.17.113.40) device (IPNext 3000 Master) service Call Manager 2009-4-10 11:37:12 failed
<input type="checkbox"/>	9418	4/9/2009 2:20:01 PM	/AddPac/Branch GX	00_IVR_server			device 00_IVR_server all services are down.
<input type="checkbox"/>	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_3...			device NMS_IP_PBX_31.13 all services down.
<input type="checkbox"/>	9239	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118		device (NMS_Camera 2) interface 172.16.253.118 (172.16.253.118) not response or delete by administrator

Event Notification Management

The screenshot displays the Smart Network Management System (NMS) interface. The main window shows a tree view of network devices and their availability. Two dialog boxes are open: 'Destination Path Properties' and 'Target Properties'. The 'Target Properties' dialog is the primary focus, showing configuration for event notifications. It includes a dropdown for 'Choose the notification type' (set to 'sms'), a list for 'Target Information' (with 'alarmLamp' selected), and a dropdown for 'Send to select user' (set to 'Account Administrator'). An orange callout box with a red arrow points to the 'Send to select user' dropdown, containing the text: 'user account (administrator) setting for SMS, E-mail Notification or specify e-mail address or SMS phone number'. The 'Your Outstanding Notices' table at the bottom shows a list of events with columns for Ack, ID, Send Time, Site, Device Name, and IP Address.

Ack	ID	Send Time	Site	Device Name	IP Address
<input type="checkbox"/>	9535	4/10/2009 9:26:04 PM	/AddPac/Branch GX	00_RBT_server	
<input type="checkbox"/>	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th floor meeti...	
<input type="checkbox"/>	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Cent...	NMS_SOHO_PBX...	
<input type="checkbox"/>	9495	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Slave	172.17.113.41
<input type="checkbox"/>	9494	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Master	172.17.113.40
<input type="checkbox"/>	9418	4/9/2009 2:20:01 PM	/AddPac/Branch GX	00_IVR_server	
<input type="checkbox"/>	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_3...	
<input type="checkbox"/>	9239	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118

Configuration

The screenshot displays the Smart Network Management System (NMS) configuration interface. The main window shows a tree view of network devices and a 'Configure Notification' dialog box. The dialog box is titled 'Configure Notification' and has tabs for 'External Notification' and 'Alarm Lamp'. The 'External Notification' tab is active, showing fields for 'Sender Email Address' (nms@addpac.com), 'SMTP Server Host' (61.33.161.2), and an 'Authentication' section with 'Username' and 'Password' fields. A red arrow points from an orange callout box labeled 'global notification channel configuration' to the dialog box. The background shows a table of 'Current Outage Devices' and a list of 'Your Outstanding Notices'.

Name	Service...	Availability
AddPac		
Branch AQ		
NMS Camera	6 of 12	50.000 %
NMS_IP_PBX...	3 of 3	0.000 %
Branch GX		
00_IVR_server	3 of 3	0.000 %
00_IVR_slave...	3 of 3	0.000 %
00_PS_server	3 of 3	0.000 %
00_PS_slave...	2 of 3	33.333 %
00_FBT_server	3 of 3	0.000 %
IPNext 3000 ...	1 of 3	66.667 %
IPNext 3000 S...	1 of 3	66.667 %
UMS slave	3 of 3	0.000 %
HeadQuarter		
5th floor meeti	1 of 1	0.000 %
UMS serverfo...	3 of 3	0.000 %
Subnetwork #2		
Center		
NMS_S0HD_...	2 of 2	0.000 %

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
<input type="checkbox"/>	9535	4/10/2009 9:26:04 PM	/AddPac/Branch GX	00_FBT_server			device 00_FBT_server's all services are down.
<input type="checkbox"/>	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th floor meeting...			device 5th floor meeting room phone device, all services are down.
<input type="checkbox"/>	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Cent...	NMS_S0HD_PBX			device NMS_S0HD_PBX, all services are down
<input type="checkbox"/>	9495	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Slave	172.17.113.41	Call Manager	interface 172.17.113.41 (172.17.113.41) device (IPNext 3000 Slave) service
<input type="checkbox"/>	9494	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Master	172.17.113.40	Call Manager	interface 172.17.113.40 (172.17.113.40) device (IPNext 3000 Master) service Call Manager 2009-4-10 11:37:12 failed
<input type="checkbox"/>	9418	4/9/2009 2:20:01 PM	/AddPac/Branch GX	00_IVR_server			device 00_IVR_server all services are down.
<input type="checkbox"/>	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_3...			device NMS_IP_PBX_31.13 all services down.
<input type="checkbox"/>	9239	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118		device (NMS_Camera 2) interface 172.16.253.118 (172.16.253.118) not response or delete by administrator

Audible & Visible Alarm

The screenshot displays the Smart Network Management System (NMS) interface within a Windows Internet Explorer browser. The interface includes a navigation menu, a site tree on the left, and several data tables. Two orange callout boxes highlight specific features:

- notify operator (or administrator)**
 - Alarm lamp blink (on&off) (visible)
 - play alarm sound (audible)
- can synchronize with alarm lamp equipment**

The interface shows the following data tables:

Site	Type	Outages	Availability	Description
AddPac	Sub Netw...	32 / 12 / 33	92%	AddPac Technology C...
Seoul	Sub Netw...	2 / 1 / 2	33%	Seoul subnetwork
Overall Availability		34 / 13 / 34	27.690 %	

Category	Outages	Availability
Desktop	0 / 0 / 1	100%
Network Camera	6 / 1 / 2	59%
Phone	1 / 1 / 3	66%
Server	27 / 11 / 22	42%
Switch	0 / 0 / 0	100%
VoIP Gateway	0 / 0 / 6	100%
Overall Categories Availability		34 / 13 / 34
		49.470 %

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
<input type="checkbox"/>	9535	4/10/2009 9:26:04 PM	/AddPac/Branch GX	00_RBT_server			device 00_RBT_server's all services are down.
<input type="checkbox"/>	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th floor meeting...			device 5th floor meeting room phone device, all services are down.
<input type="checkbox"/>	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Cent...	NMS_SDHO_PBX			device NMS_SDHO_PBX, all services are down
<input type="checkbox"/>	9495	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Slave	172.17.113.41	Call Manager	interface 172.17.113.41 (172.17.113.41) device (IPNext 3000 Slave) service Call Manager 2009-4-10 11:37:12 failed.
<input type="checkbox"/>	9494	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Master	172.17.113.40	Call Manager	interface 172.17.113.40 (172.17.113.40) device (IPNext 3000 Master) service Call Manager 2009-4-10 11:37:12 failed
<input type="checkbox"/>	9418	4/9/2009 2:20:01 PM	/AddPac/Branch GX	00_IVR_server			device 00_IVR_server all services are down.
<input type="checkbox"/>	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_3...			device NMS_IP_PBX_31.13 all services down.
<input type="checkbox"/>	9239	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118		device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) not response or deleted by administrator
<input type="checkbox"/>	9238	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	ICMP	device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) service ICMP not response or deleted by administrator
<input type="checkbox"/>	9237	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	SNMP	device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) service SNMP not response or deleted by administrator
<input type="checkbox"/>	9236	4/6/2009 7:41:25 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	ICMP	device(NMS Camera 2) interface 172.16.253.118 (172.16.253.118) service ICMP not response or deleted by administrator
<input type="checkbox"/>	9235	4/6/2009 7:41:25 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	SNMP	device(NMS Camera 2) interface 172.16.253.118 (172.16.253.118) service SNMP not response or deleted by administrator

Fault Statistics

- ? analyze for a fault event with graph and detailed list data
- ? Report form generation and print out for statistics result

Fault Statistics

The screenshot displays the Smart Network Management System (NMS) interface. The main content area is divided into several sections:

- Search Condition:** A panel at the top right allows filtering by 'Hour' (4/ 9/2009) and 'Site' (Branch A, Branch AQ, B).
- Fault Statistics (Site):** A bar chart showing fault counts over time (01:00 to 23:00) for various sites. The legend includes Seoul, HeadQuarter, Center, Branch TG, Branch KT, Branch GX, Branch B, Branch AQ, and Branch A.
- 4/9/2009 Data Table:** A detailed table showing fault counts for each hour across different sites. The total fault count for the day is 118.
- Your Outstanding Notices (18):** A table at the bottom showing various system notices.

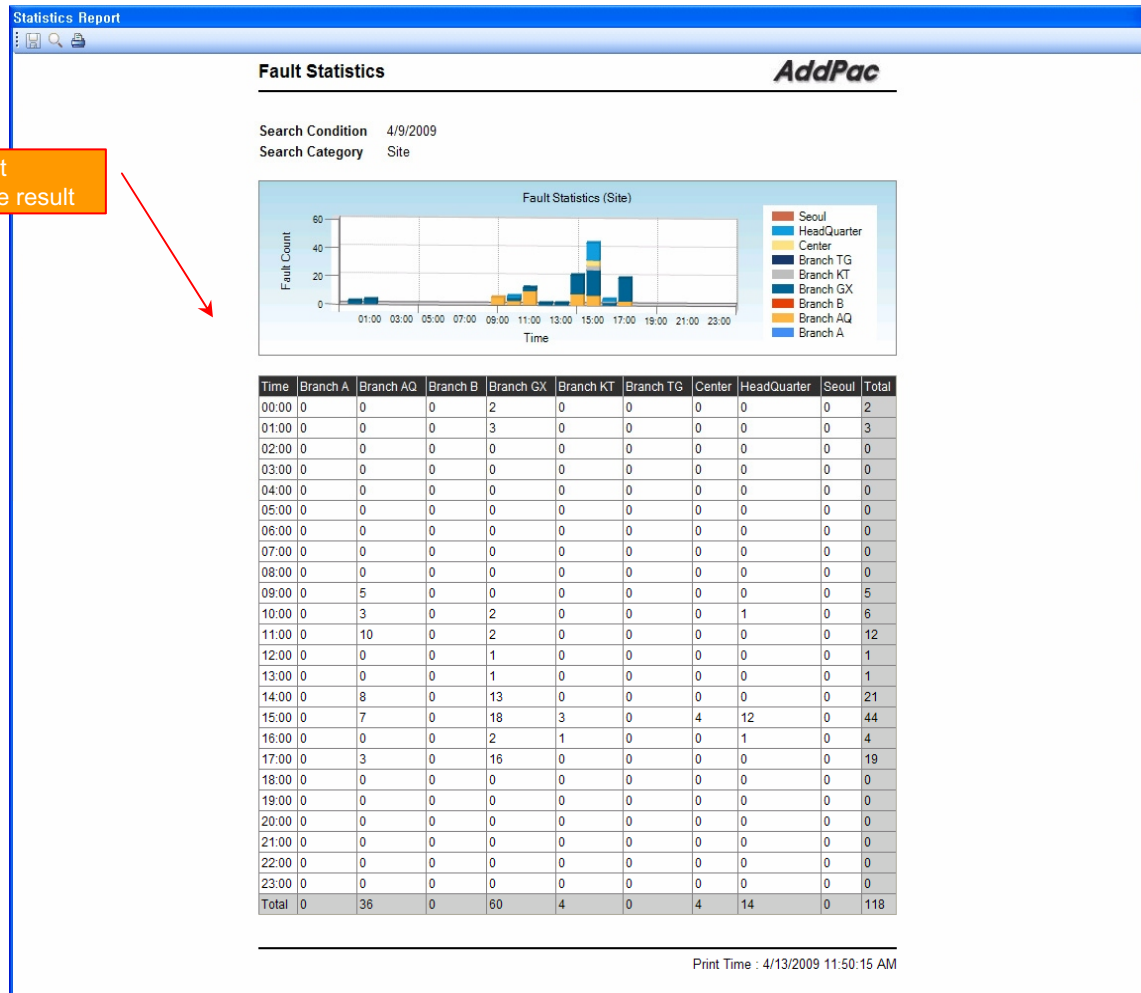
Two orange callout boxes provide additional context:

- display graph for fault statistics with various search condition:** Points to the 'Fault Statistics (Site)' bar chart.
- display detailed data for fault statistics:** Points to the '4/9/2009' data table.

Time	Branch A	Branch AQ	Branch B	Branch GX	Branch KT	Branch TG	Center	HeadQuarter	Seoul	Total
07:00	0	0	0	0	0	0	0	0	0	0
08:00	0	0	0	0	0	0	0	0	0	0
09:00	0	5	0	0	0	0	0	0	0	5
10:00	0	3	0	2	0	0	0	1	0	6
11:00	0	10	0	2	0	0	0	0	0	12
12:00	0	0	0	1	0	0	0	0	0	1
13:00	0	0	0	1	0	0	0	0	0	1
14:00	0	8	0	13	0	0	0	0	0	21
15:00	0	7	0	18	3	0	4	12	0	44
16:00	0	0	0	2	1	0	0	1	0	4
17:00	0	3	0	16	0	0	0	0	0	19
18:00	0	0	0	0	0	0	0	0	0	0
19:00	0	0	0	0	0	0	0	0	0	0
20:00	0	0	0	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0	0	0	0
Total	0	36	0	60	4	0	4	14	0	118

Fault Statistics ? Report Generation

report generation for fault statistics and print out the result



Model & Service Management

- ? Define new model with provided template image & properties
- ? Customize data collection with standard protocol such as TCP, SNMP

Device Model Management

manage device model with various properties such as model image

model image repository for selection

Name	Description
AddPac	AddPac Technology C...
Branch AQ	Branch AQ
Branch GX	Branch GX description
Branch KT	
HeadQuarter	Main HeadQuarter Cen...
Seoul	Seoul subnetwork
Seoul East Area	Seoul East Area
SongPaGu Area Ce...	SongPaGu Area Center
Subnetwork #2	Subnetwork #2
Branch TG	Yeoksam Area
SeoChoGu	seoul seocho district
Seoul West Area	Seoul West Area
Gangseo Area	Gangseo Area
Seoul	
MokDong Area	MokDong Area

Model Name	Category
AP-IP200	Phone
AP-IP300	Phone
AP-IPC	Network Camera
AP-IPC250M	Network Camera
AP-IVR1000	Server
AP-MC1000	Server
AP-MC3000	Server
AP-MC5000	Server
AP-NR2000	Server
AP-PS2000	Server
AP-RBT1000	Server
AP-RS2000	Server
AP-UMS1000	Server
AP-UMS2000	Server
AP-VC2000	Phone
AP-VP200	Phone
AP-VP300	Phone
AP-VP350	Phone
AP-VP500	Phone
IPNext100	Server
IPNext1000	Server
IPNext180	Server
IPNext200	Server

Model Name	Category	SSCP Port
AP-IPC250M	Network Camera	5061 (1~65535)

Model Image
[Image 1]
[Image 2]
[Image 3]
[Image 4]
[Image 5]
[Image 6]
[Image 7]
[Image 8]
[Image 9]
[Image 10]
[Image 11]
[Image 12]
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[Image 100]

Service Definition

The screenshot displays the Smart NMS web interface in Internet Explorer. The main window shows a tree view of sites on the left and a table of services in the center. A 'Service Properties' dialog box is open, showing the configuration for the 'Camera Operation Status' service. The dialog has two tabs: 'General' and 'SNMP'. The 'General' tab is active, showing the service name, protocol (SNMP), and port (161). The 'SNMP' tab is also visible, showing the Service OID (1.3.6.1.4.1.4855.7.51.1.3.0) and a Service Condition (Operator: =, Operand: 1).

Service Properties Dialog (General Tab):

- Service Name: Camera Operation Status
- Protocol: SNMP
- Port: 161
- Interval: 30000 (msec)
- Timeout: 3000 (msec)
- Retry: 3

Service Properties Dialog (SNMP Tab):

- Service OID: 1.3.6.1.4.1.4855.7.51.1.3.0
- Service Condition: Operator =, Operand 1

Service Table (Visible Services):

Service Name	Protocol	Port
Call Manager	SNMP	161
Presence	SNMP	161
Media	SNMP	161
UPL	SNMP	161
RtpProxy	SNMP	161
MCU	SNMP	161
IVR	SNMP	161
Recording	SNMP	161
Tomcat	TCP	8080
FTP	TCP	21
Camera Pan	SNMP	161
Camera Tilt	SNMP	161
Camera Zoom	SNMP	161
Camera Operation Status	SNMP	161

Your Outstanding Notices (18):

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
<input type="checkbox"/>	9535	4/10/2009 9:26:04 PM	/AddPac/Branch GX	00_RBT_server			device 00_RBT_serv
<input type="checkbox"/>	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th floor meeting...			device 5th floor meet
<input type="checkbox"/>	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Cent...	NMS_SDHD_PBX			device NMS_SDHD_
<input type="checkbox"/>	9495	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Slave	172.17.113.41	Call Manager	interface 172.17.113
<input type="checkbox"/>	9494	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Master	172.17.113.40	Call Manager	Call Manager 2009-4
<input type="checkbox"/>	9418	4/9/2009 2:20:01 PM	/AddPac/Branch GX	00_IVR_server			interface 172.17.113
<input type="checkbox"/>	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_3...			device NMS_IP_PBX
<input type="checkbox"/>	9239	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118		device (NMS Camera
<input type="checkbox"/>	9238	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	ICMP	response or delete by
<input type="checkbox"/>	9237	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	SNMP	device (NMS Camera
<input type="checkbox"/>	9236	4/6/2009 7:41:25 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.118	ICMP	SNMP not response o

define the service for data collection, current status with standard protocol such as TCP or SNMP



Thank you!

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