

3G Gateway Solution



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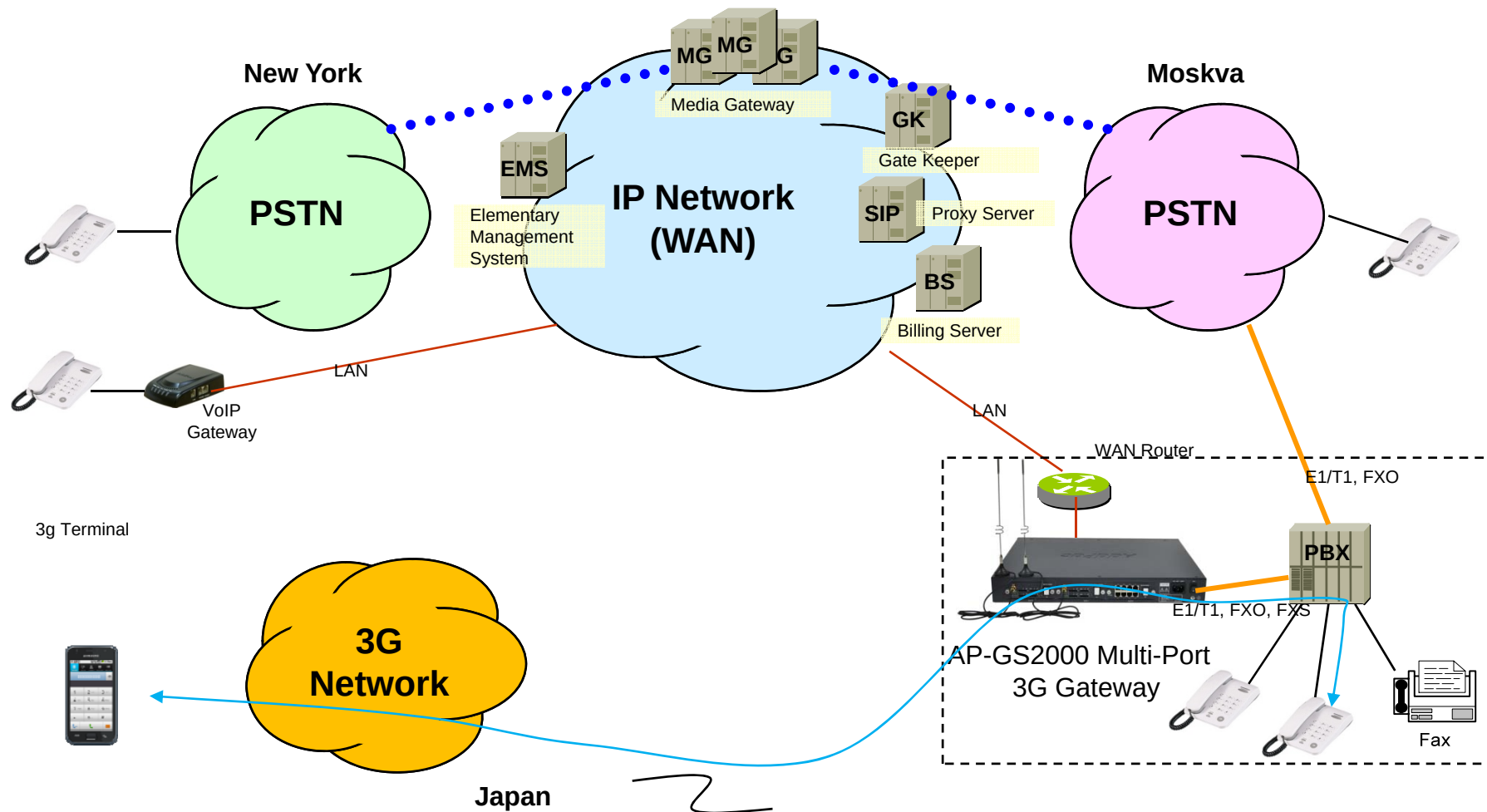
2011, Sales and Marketing

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Contents

- 3G Gateway Service Diagram
- 4-Port 3G Module (AP-N1-3G4)
- 3G Gateway Series
 - AP-GS1500(8ch)
 - AP-GS2000(12ch)
 - AP-GS2500(16ch)
 - AP-GS3000(36ch)
 - AP-GS3500(36ch)
- Smart Web Manager for 3G Gateway
- Smart NMS for 3G Gateway

3G Gateway Service Diagram



4-Port 3G Module



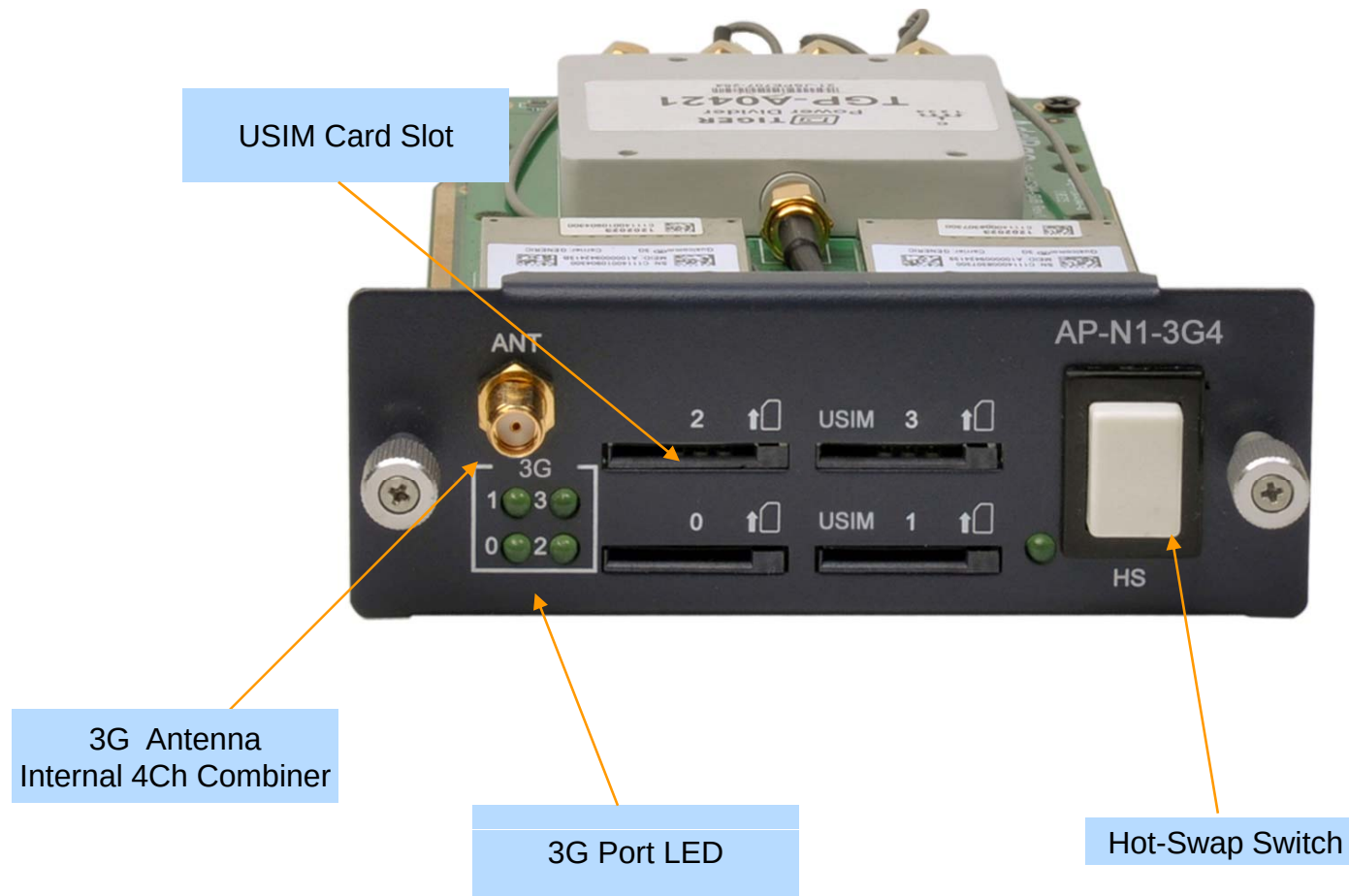
4-Port 3G Module

AP-N1-3G4 4-Port 3G Module

- WCDMA 2100MHz - Power Class 3 + 24dBm , etc
- GSM 900Mhz – Power Class 4 -2W
- GSM 1800MHz– Power Class 1-1W
- Network Backward Compatibility
- USIM Slot Interface
- Data Transfer Rate
 - HSUPA : Up to 7.2Mbps
 - HSDPA : Up to 3.6Mbps
- 4-Port 3G Module(AP-N1-3G4)
 - 4-Port USIM Card Slot
 - Port LEDs for Link Activation Indication
 - One(1) 3G Antenna Interface (Internal 4 Channel Combiner)
 - Hot-Swap Button

Hardware Specification

AP-N1-CDMA4 4-Port CDMA Module





3G Gateway Series

3G Gateway Comparison Table

Model	AP-GS1500	AP-GS2000	AP-GS2500	AP-GS3000	AP-GS3500
					
Available Modules	AP-N1-3G4 AP-N1-GSM4 AP-N1-CDMA4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4	AP-N1-3G4 AP-N1-GSM4 AP-N1-CDMA4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4 AP-N1-E1	AP-N1-3G4 AP-N1-GSM4 AP-N1-CDMA4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4 AP-N1-E1	AP-N1-3G4 AP-N1-GSM4 AP-N1-CDMA4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4 AP-N1-E1	AP-N1-3G4 AP-N1-GSM4 AP-N1-CDMA4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4 AP-N1-E1
3G Channel	Up to 8 Channel	Up to 12 Channel	Up to 16 Channel	Up to 36 Channel	Up to 36 Channel
3G Antenna	One(1) / 4 Channel 3G Module	One(1) / 4 Channel 3G Module	One(1) / 4 Channel 3G Module	One(1) / 4 Channel 3G Module	One(1) / 4 Channel 3G Module
Module Slot	Two(2) Module Slots for 3G	Three(3) Module Slots for 3G	Four(4) Module Slots for 3G	Nine(9) Module Slots for 3G, E1/T1 Module Slot	Nine(9) Module Slots for 3G, 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 3G Gateway

3G Gateway

AP-GS1500 Multi-Port 3G Gateway

- Two(2) Module Slots for 4-Port 3G Module, 4-Port GSM Module, 4-Port CDMA Module 8FXS/8FXO Analog Interface (Up to 8-Port 3G, 4-Port 3G +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

3G Gateway

AP-GS1500 Multi-Port 3G Gateway

- RISC Microprocessor Computing Power
- Two(2) Module Slot for 3G, GSM, CDMA, Analog/Digital Interface
- 4-Port 3G Module(AP-N1-3G4), Hot-Swap
 - One(1) 3G Antenna Interface (4 Channel Combiner), 4-Port USIM Card Slot
- 4-Port GSM Module(AP-N1-GSM4), Hot-Swap
 - One(1) GSM Antenna Interface (4 Channel Combiner), 4-Port SIM Card Slot
- 4-Port CDMA Module(AP-N1-CDMA4), Hot-Swap
 - One(1) CDMA Antenna Interface (4 Channel Combiner), 4-Port RUIM Card Slot
- 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



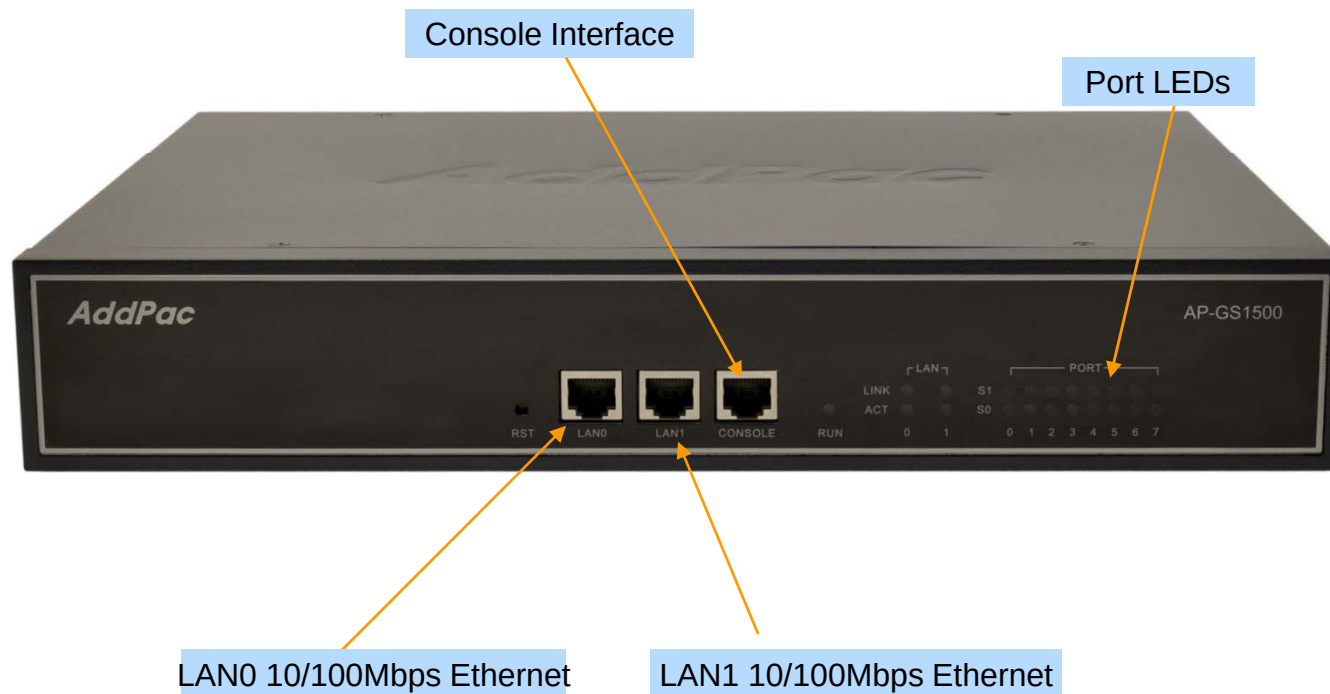
Hardware Specification

AP-GS1500 Multi-Port 3G Gateway

RISC
CPU

High-end
DSP

Front Side View



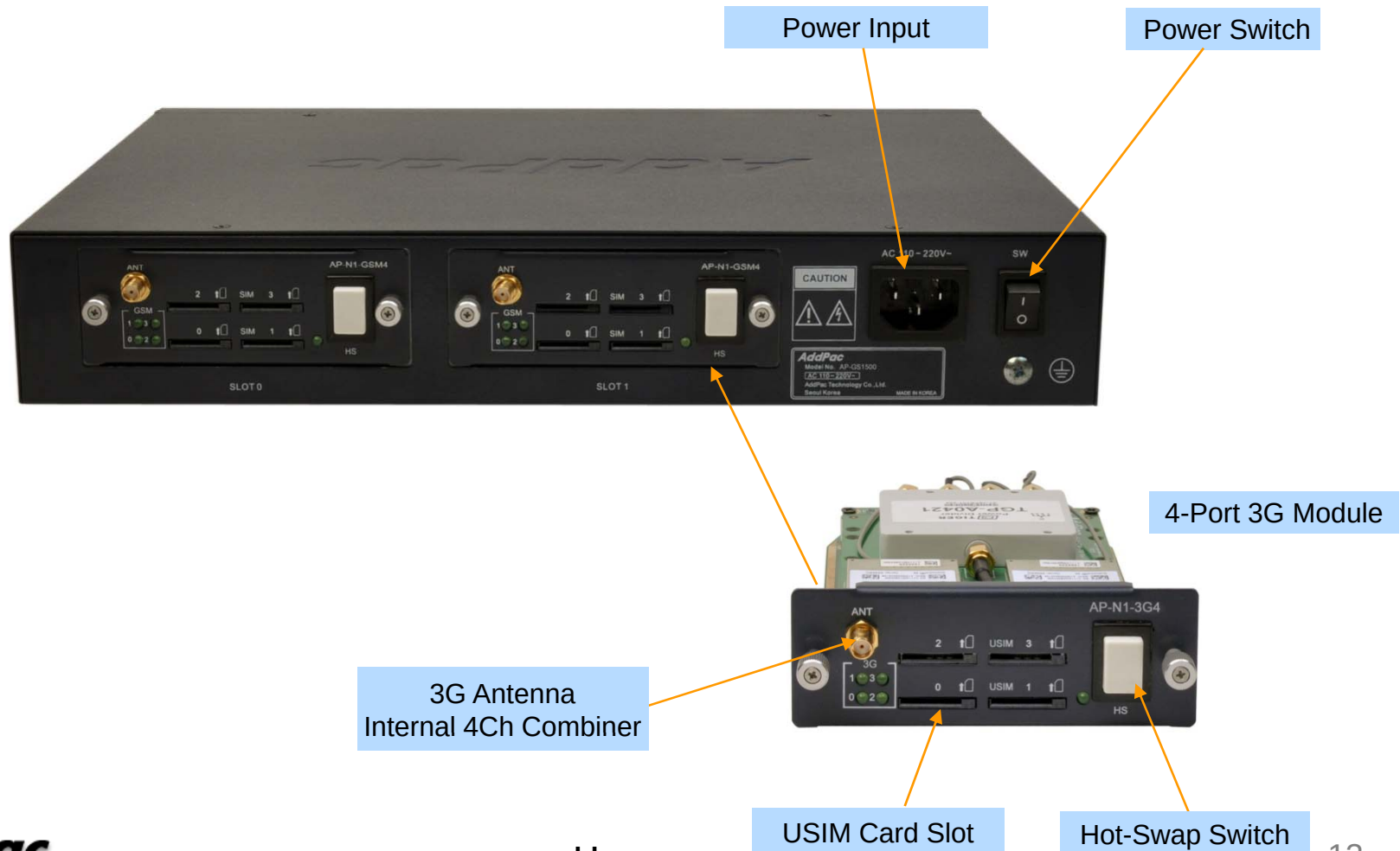
Hardware Specification

AP-GS1500 Multi-Port 3G Gateway

RISC
CPU

High-end
DSP

Back Side View



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Hardware Specification

AP-GS1500 Multi-Port 3G Gateway

RISC
CPU

High-end
DSP



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Hardware Specification (Voice Module)

AP-GS1500 Multi-Port 3G Gateway

AP-N1-3G4 4-Port 3GModule



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 3G Gateway

Main Features

AP-GS2000 Multi-Port 3G Gateway

- Three Module Slots for 4-Port 3G Module, GSM Module, 4-Port CDMA Module 8FXS/8FXO Analog Interface (Up to 8-Port 3G +8FXS/8FXO Module, 12-Port 3G, 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 3G Gateway

- RISC Microprocessor Computing Power
- Three Module Slot for 3G, GSM, CDMA, Analog/Digital Interface
- 4-Port 3G Module(AP-N1-3G4), Hot-Swap
 - One(1) 3G Antenna Interface (4 Channel Combiner), 4-Port USIM Card Slot
- 4-Port GSM Module(AP-N1-GSM4), Hot-Swap
 - One(1) GSM Antenna Interface (4 Channel Combiner), 4-Port SIM Card Slot
- 4-Port CDMA Module(AP-N1-CDMA4), Hot-Swap
 - One(1) CDMA Antenna Interface (4 Channel Combiner), 4-Port RUIM Card Slot
- 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

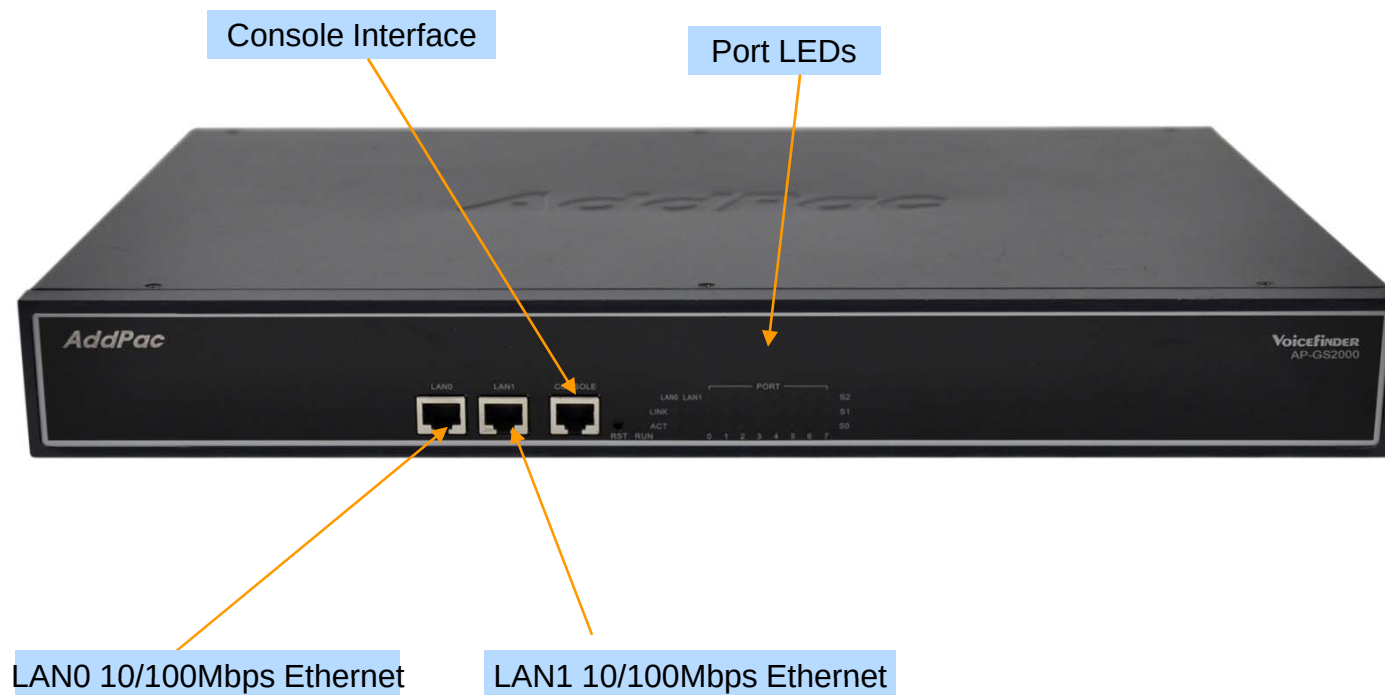


Hardware Specification

AP-GS2000 Multi-Port 3G Gateway

Hardware Specification

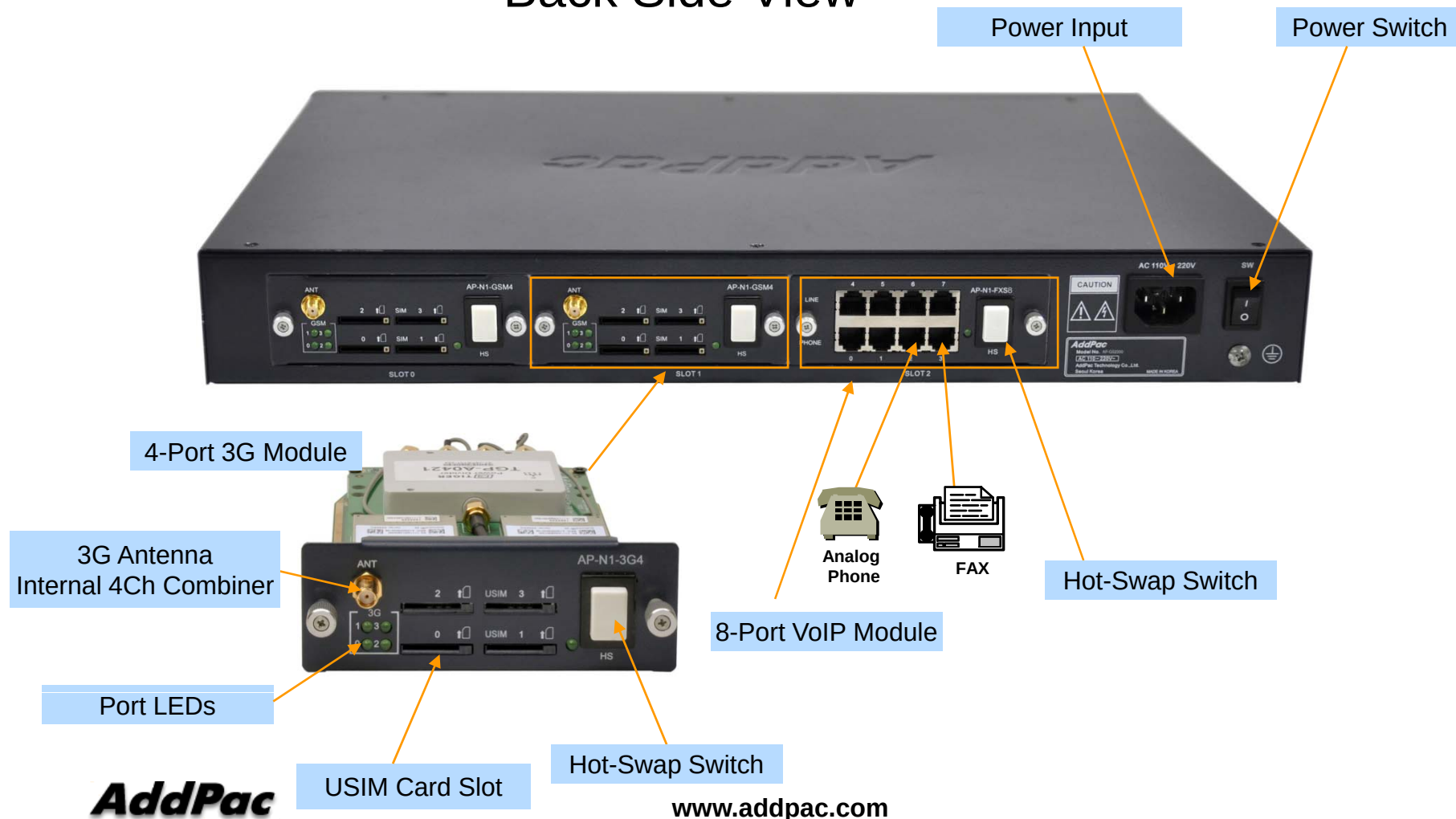
Front Side View



Hardware Specification

AP-GS2000 Multi-Port 3G Gateway

Back Side View



Hardware Specification

AP-GS2000 Multi-Port 3G Gateway



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Hardware Specification (Voice Module)

AP-GS2000 Multi-Port 3G Gateway

AP-N1-3G4 4-Port 3G Module



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 3G Gateway

Main Features

AP-GS2500 Multi-Port 3G Gateway

- Four(4) Module Slots for 4-Port 3G Module, 4-Port GSM Module, 8FXS/8FXO Analog Interface (Up to 12-Port 3G +8FXS/8FXO Module, 16-Port 3G)
- 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 3G Gateway

- RISC Microprocessor Computing Power
- Four(4) Module Slot for 3G, GSM, CDMA, Analog/Digital Interface
- 4-Port 3G Module(AP-N1-3G4), Hot-Swap
 - One(1) 3G Antenna Interface (4 Channel Combiner), 4-Port USIM Card Slot
- 4-Port GSM Module(AP-N1-GSM4), Hot-Swap
 - One(1) GSM Antenna Interface (4 Channel Combiner), 4-Port SIM Card Slot
- 4-Port CDMA Module(AP-N1-CDMA4), Hot-Swap
 - One(1) CDMA Antenna Interface (4 Channel Combiner), 4-Port RUIM Card Slot
- 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



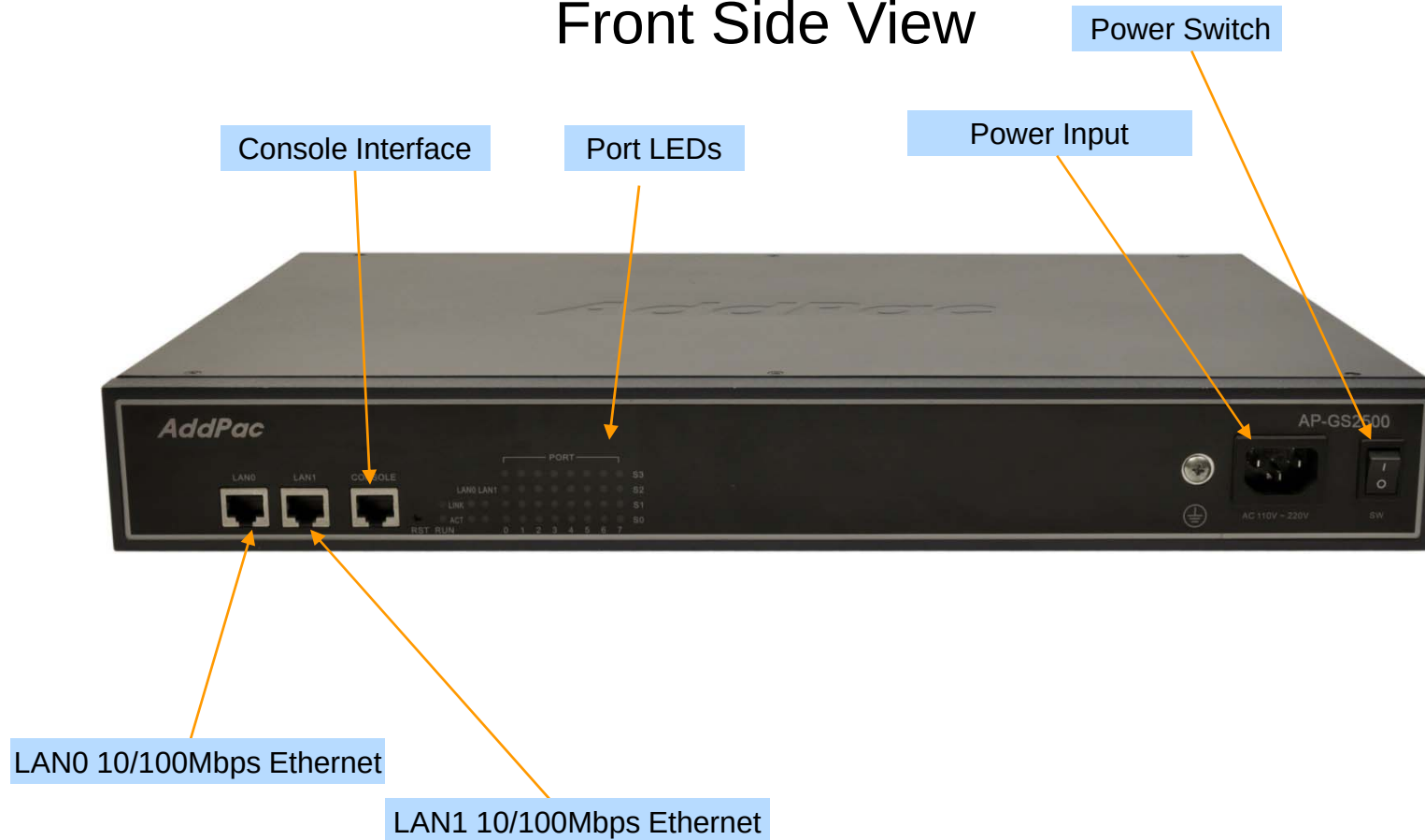
Hardware Specification

AP-GS2500 Multi-Port 3G Gateway

RISC
CPU

High-end
DSP

Front Side View



Hardware Specification

AP-GS2500 Multi-Port 3G Gateway

RISC
CPU

High-end
DSP

Back Side View



4-Port 3G Module

3G Antenna
Internal 4Ch Combiner

Port LEDs

USIM Card Slot

Hot-Swap Switch

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Hardware Specification

AP-GS2500 Multi-Port 3G Gateway

RISC
CPU

High-end
DSP

Back Side View



Hardware Specification

AP-GS2500 Multi-Port 3G Gateway

RISC
CPU

High-end
DSP



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Hardware Specification(Voice Module)

AP-GS2500 Multi-Port 3G Gateway

AP-N1-3G4 4-Port 3G Module



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 3G Gateway

Main Features

AP-GS3000 Multi-Port 3G Gateway

- Ten(10) Module Slots for 4-Port 3G Module, 4-Port GSM Module, 8FXS/8FXO Analog Interface (Up to 36-Port 3G, 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 3G Gateway

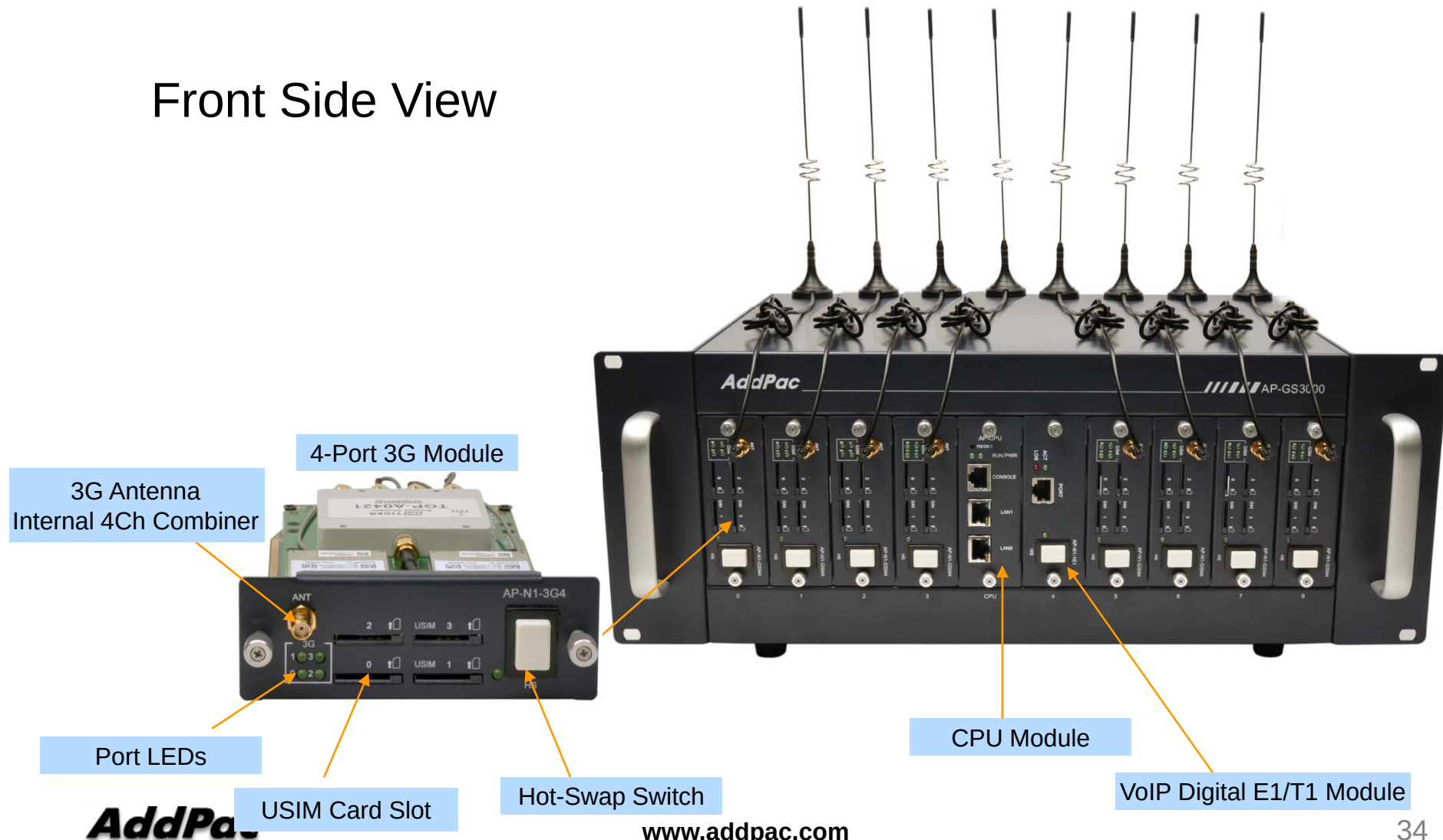
- RISC Microprocessor Computing Power
- Ten(10) Module Slot for 3G, GSM, CDMA, Analog/Digital Interface
- 4-Port 3G Module(AP-N1-3G4), Hot-Swap
 - One(1) 3G Antenna Interface (4 Channel Combiner), 4-Port USIM Card Slot
- 4-Port GSM Module(AP-N1-GSM4), Hot-Swap
 - One(1) GSM Antenna Interface (4 Channel Combiner), 4-Port SIM Card Slot
- 4-Port CDMA Module(AP-N1-CDMA4), Hot-Swap
 - One(1) CDMA Antenna Interface (4 Channel Combiner), 4-Port RUIM Card Slot
- 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 3G Gateway

Front Side View



Hardware Specification

AP-GS3000 Multi-Port 3G Gateway



Back Side View

Cooling FAN

Power Switch

Power Inlet (110~220V)

Hardware Specification(Voice Module)

AP-GS3000 Multi-Port 3G Gateway

AP-N1-3G4 4-Port 3G Module



AP-N1-GSM4 4-Port GSM Module



AP-N1-CDMA4 4-Port CDMA Module



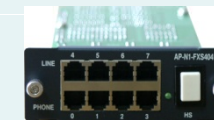
AP-N1-FXS8 8-Port FXS Module



AP-N1-FXO8 8-Port FXO Module



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

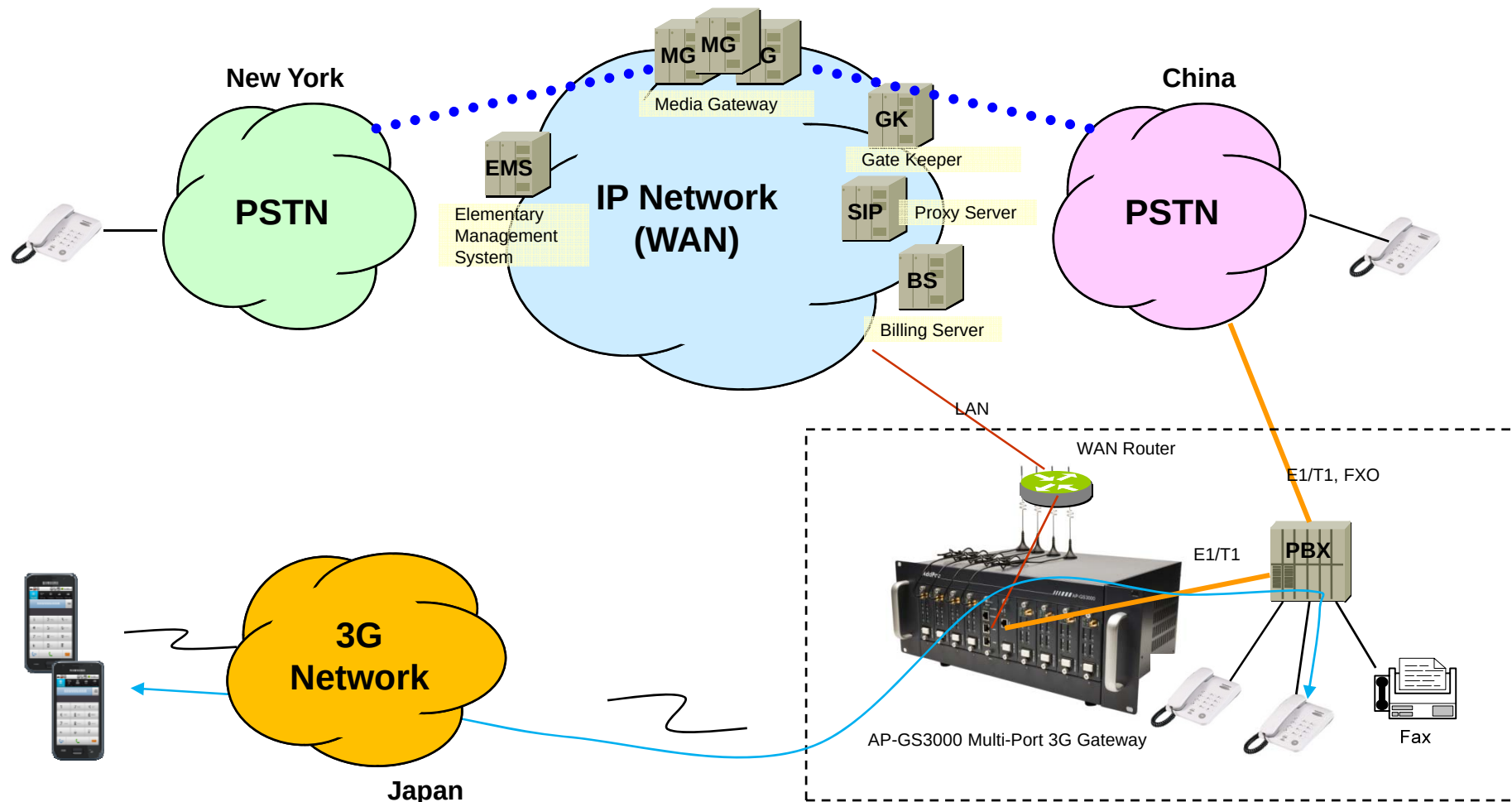


AP-N1-E1 1-Port Digital E1/T1 Module



Network Service Diagram

AP-GS3000 Multi-Port 3G Gateway





AP-GS3500 3G Gateway

Main Features

AP-GS3500 Multi-Port 3G Gateway

- Ten(10) Module Slots for 4-Port 3G Module, 4-Port GSM Module, 8FXS/8FXO Analog Interface (Up to 36-Port 3G, 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 Dual Internal Power Supply

Hardware Specification

AP-GS3500 Multi-Port 3G Gateway

RISC
CPU

High-end
DSP

- RISC Microprocessor Computing Power
- Ten(10) Module Slot for 3G, GSM, CDMA, Analog/Digital Interface
- 4-Port 3G Module(AP-N1-3G4), Hot-Swap
 - One(1) 3G Antenna Interface (4 Channel Combiner), 4-Port USIM Card Slot
- 4-Port GSM Module(AP-N1-GSM4), Hot-Swap
 - One(1) GSM Antenna Interface (4 Channel Combiner), 4-Port SIM Card Slot
- 4-Port CDMA Module(AP-N1-CDMA4), Hot-Swap
 - One(1) CDMA Antenna Interface (4 Channel Combiner), 4-Port RUIM Card Slot
- 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



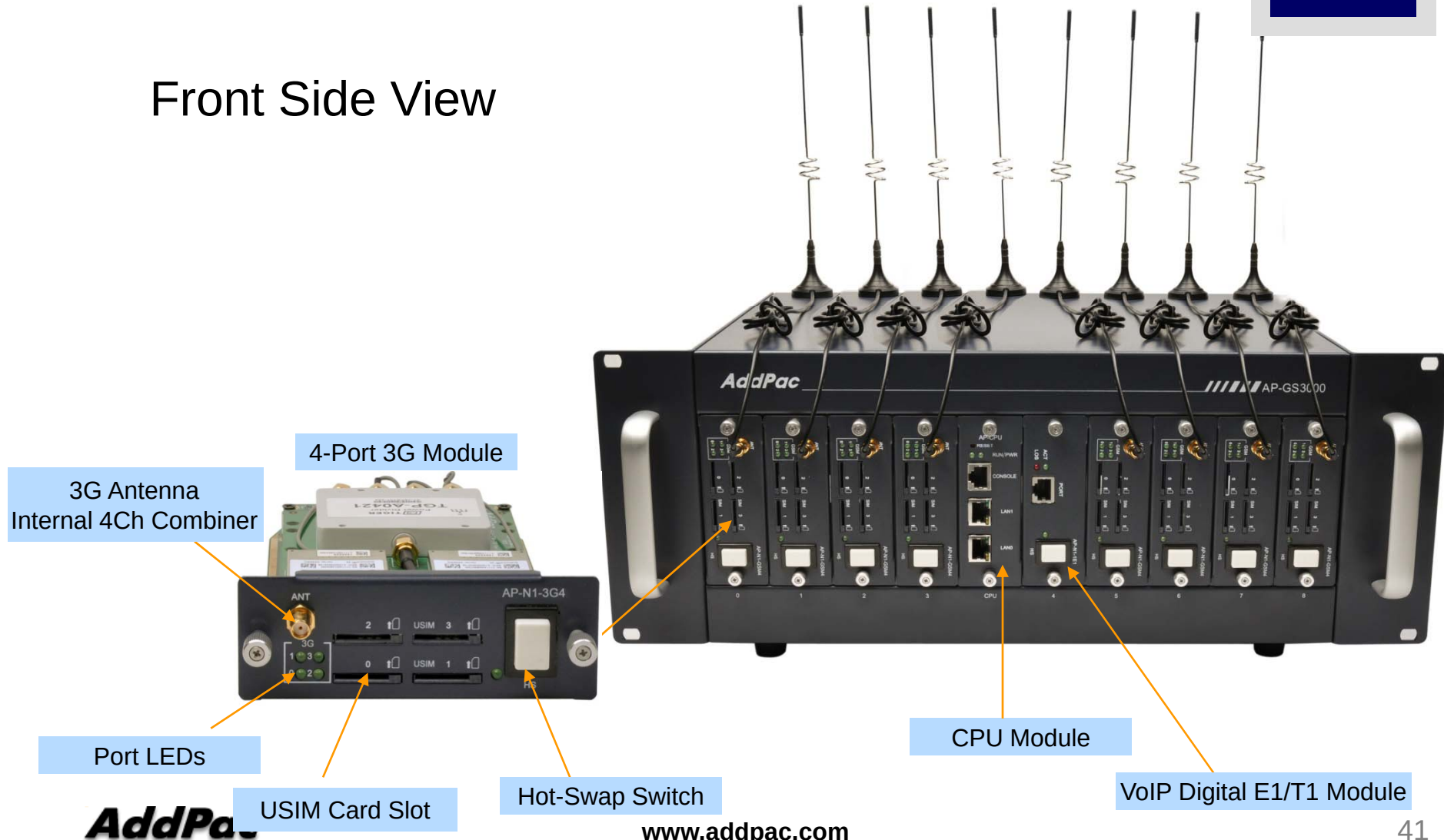
Hardware Specification

AP-GS3500 Multi-Port 3G Gateway

RISC
CPU

High-end
DSP

Front Side View



Hardware Specification

AP-GS3500 Multi-Port 3G Gateway

RISC
CPU

High-end
DSP

Back Side View



Hardware Specification(Voice Module)

AP-GS3500 Multi-Port 3G Gateway

RISC
CPU

High-end
DSP

AP-N1-3G4 4-Port 3G Module



AP-N1-GSM4 4-Port GSM Module



AP-N1-CDMA4 4-Port CDMA Module



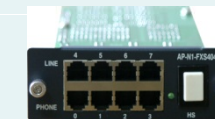
AP-N1-FXS8 8-Port FXS Module



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 3G Gateway

Contents

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

Main Page Layout

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

- 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

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

System Information

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
	0 days 01:49:57
	0

Information
Display the current system version and status summary

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
Display the help message if you move mouse over main menu

Workspace
Workspace for detailed action

System – Network Setup

Host Name Create a representative name for the site to be installed	• Network Setup
Static IP This is static IP mode. Specify the addressed IP from the service provider	Basic
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.	• GSM Dial Plan
DHCP This is dynamic IP mode which is set at default. The IP can addressed from the external DHCP server.	• GSM PINs • Fax
VLAN Configure VLAN mode and ID.	• SNMP
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.	

System - Language

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System

- Network Setup
- NTP

Basic

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

Advanced

- Gain & CID
- GSM PIN

Configure Language

☐ 한국어

☒ English

✓ Apply

Information

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

Description

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

Configure Language
English, Korea

System - NAT

Smart Web Manager
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System

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

Basic

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

Advanced

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

NAT Static Table

IP Protocol	Global Port	Local Address	Local Port	Control
tcp				Add

Information

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

Description

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

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

System - PPTP

Smart Web Manager
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System

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

Basic

- PPTP 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
- Utilities

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)

☒ 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

NTP
Configure NTP server (s) & Options

- Gain & CID
- GSM PINs
- Fax
- Service

Basic - Protocol

Smart Web Manager
www.addpac.com

System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

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

Advanced

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

Miscellaneous

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

Protocol

SIP(Session Initiation Protocol)

Apply

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

Information

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

Description

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

Basic – SIP Server

Smart Web Manager
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

SIP (Session Initiation Protocol)

Use SIP Server ☒ Yes ☐ No

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

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

Local Domain name (SIP userpart of authentication)

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

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

Session Re-Fresh ☐ INVITE ☒ UPDATE

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

Apply

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

Information

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

Description

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

Basic – FXS Extension

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
www.addpac.com

System

- Network Setup
- Language
- NAT
- PPTP

Port Information
voice port type & physical port

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

Advanced

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

Miscellaneous

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

GSM Extension

Port Information

Port	P0	P1	P2	P3
SLOT0	GSM	GSM	FXS	FXS

GSM Extension Configuration

Index	Port	Numbers	Preference	HuntStop	Select
0	0/0	T	0	X	☐

GSM Extension with Translation

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

GSM Extension with Translation
Used to GSM callback

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

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)

Basic – DTMF/CODEC

Smart Web Manager
www.addpac.com

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

☒ Apply

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 = "88"

result = 883456

Smart Web Manager
www.addpac.com

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	☐

0 [v] [] [] [] [Delete] [Add]

Prefix Table

Index	Prefix	PlanIndex	Control
0	T	2	☐

0 [v] [] [N.A.] [Delete] [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 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.
 (Served by SIP SERVER)

Basic – GSM Dial Plan

Port Information
 voice port type & physical port

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

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

 result = 883456

Prefix Table
 Configure GSM Peer with translation rule.

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System

- Network Setup
- Language
- NAT
- PPTP
- NTP

SIP Registration

- SIP Registration
- FXS Extension
- GSM Extension

WEB Callback

- 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	☐

Prefix Table

Index	Prefix	2nd Prefix	PlanIndex	Slot/Port	Control
0	33	2T	0	0/0	☐

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

Basic – Static Route

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

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	☐
							Delete
*							Apply

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

Information

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

Description

Basic – Hot Line

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

Hot Line

Hot Line Configuration

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

☒ 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

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	☒
P0:1	GSM	0	0	☒
P0:2	FXS	0	0	☒
P0:3	FXS	0	0	☒

☒ 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

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 PINs

PINs ⓘ

Port	PIN for SIM card
P0:0	
P0:1	

Apply

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
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

Fax

Fax Mode

☒ T.38 ☐ Inband T.38 ☐ Bypass

Fax Rate

☐ Disable ☐ 2400 ☐ 4800 ☐ 7200 ☒ 9600 ☐ 12000 ☐ 14400

Apply

FAX
Configure fax mode & rate (VoIP Lines)

Information

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

Description

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

Advanced - Service

Smart Web Manager
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

☒ 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

Information

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

Description

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

Service

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

Advanced - Filtering

Smart Web Manager
www.addpac.com

System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

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

Advanced

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

Miscellaneous

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

Filter

FTP Filter

Network Addr	Network Mask	Control
		Add

HTTP Filter

Network Addr	Network Mask	Control
		Add

Telnet Filter

Network Addr	Network Mask	Control
		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

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.

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

Advanced – GSM Web Callback

Smart Web Manager
www.addpac.com

System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

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

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

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

Status Viewer
Display real-time call status.

GSM WEB Callback

Calling Number Whitelist

index	DialPattern	Control
0	01023234444	☐

WEB Callback

Destination Numbers **Source Numbers** **Control**

Call Fail

Information

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

Description

Execute GSM call service function and Configure call service whitelist

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	☐

Callback

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

Information

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

Description

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
- 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

Call Status

Port Status (Analog)

Slot	Port	Port Group			
		0()	1()	2()	3()
SLOT 0	Status	I	I	I	I
	Select	☐	☐	☐	☐
	Unblock Block				

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

Call Status

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

Information

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

Description

Verify port status and retrieve the present call information

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

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

Miscellaneous – System Status

System Status

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

Smart Web Manager
www.addpac.com

System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Advanced

- 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

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

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

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

Description

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

Miscellaneous – GSM Status

Smart Web Manager
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

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

GSM Status

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

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

Display GSM wireless status

Miscellaneous – Call Log

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

- 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

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
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

Retrieve the system log

Miscellaneous - Ping

The screenshot displays the 'Smart Web Manager' interface with the 'Ping' page selected. The left sidebar contains three main categories: 'System' (Network Setup, Language, NAT), 'Advanced' (Gain & CID, GSM PINs, Fax, Service, Filtering, Security, SNMP, WEB Callback, GSM Callback), and 'Miscellaneous' (Call Status, System Status, Alarm Status, GSM Status, Call Log, System Log, Ping, BTS Selection, GSM BTS Info). The 'Ping' page features a 'Host address' input field and a 'Start' button, both enclosed in a red dashed box. Below this is a large empty rectangular area, also outlined with a red dashed box, which is pointed to by a callout box. The right sidebar shows 'Information' (AddPac Technology, Model: GS1002_G2, H/W Version: 2.0, S/W Version: 8.00d, Smart Web Version: 0.4, Smart Web Build: Mar 24 2010, Voice Interface: G(2)S(2), Protocol: SIP, Status: Unregistered, CurrentCalls: 0 Call, Network: Static 172.16.9.16, Mac Address: 0002.a400.0000, Unread Message: P0:0(0), P0:1(0)) and '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.

Smart Web Manager
www.addpac.com

System

- Network Setup
- Language
- NAT

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

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

Miscellaneous – BTS Selection

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

GSM / BTS Control

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

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

Apply

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

Information

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 BTS selection mode

Miscellaneous – GSM BTS Info

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

GSM BCCH Cell Information

PORT 0:0

PORT 0:1

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

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 GSM wireless signal status

LCR – Black & White List

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

GSM LCR / Black List & White List

BlackList

Index	DialPattern	Control
0	888T	☐
		Delete
0		Add

WhiteList

Index	DialPattern	Control
0	2...	☐
		Delete
0		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

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

GSM LCR / Time Interval Group

TimeInterval

Group	Days	StartTime(hh:mm)	EndTime(hh:mm)	Control
0	Weekdays	00:00	23:59	☐

0 | weekend | 0 | 0 | 0 | 0 | 0 | 0 |

Time Interval
GSM outbound call is restricted by Time Interval

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 time interval group

LCR – Tariff Group

Smart Web Manager
www.addpac.com

System

- Network Setup
- Language
- NAT
- PPTP
- NTP

Basic

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

Advanced

- Security
- SNMP
- BTS Selection
- GSM BTS Info

GSM LCR / Tariff Group

Tariff Group

Group	Time Group	Type	RestoreDay	First(sec)	Others(sec)	Voice(min)	SMS(E.A.)	Control
0	0	monthly	15	30	10	600	300	☐
0	0	daily	1					☐

TariffPort

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

Information

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

Description

Configure tariff group

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

Restore call limit
Quota restore time

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

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

Tariff Group
Tariff group is adapted to specific GSM port.

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

LCR – LCR Test

Smart Web Manager
www.addpac.com

System

- Network Setup
- Language
- NAT
- PPTP
- NTP

LCR Test
LCR simulator

- SIP Registration
- FXS Extension
- GSM Extension

LCR Test
Show real time simulation status.

Advanced

- Gain & CID
- GSM PIN

LCR Test

Caller: 8888

Called Number: 9999

Start

```
< 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

SMS – Inbox

Smart Web Manager
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GSM SMS / InBox

number of messages are 0 P0:0 OK

Index	Sender	Received	Message	Select
< > Delete				

GSM SMS / In Box

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

Information

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

Description

SMS – SMS New Message

Smart Web Manager
www.addpac.com

GSM SMS / New Message

Max size is 80 characters

Phone Number

Message

Port

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.

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

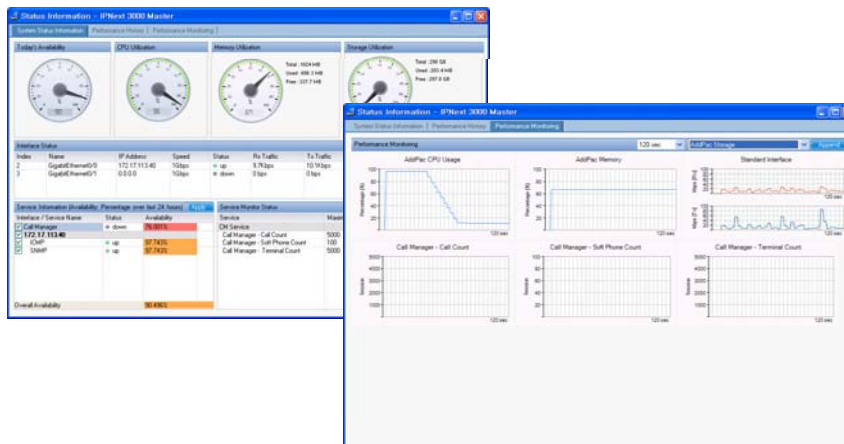
- Gain & CID
- GSM PINs
- Fax
- Service
- Filtering
- Security
- SNMP
- WEB Callback
- GSM Callback

Miscellaneous

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

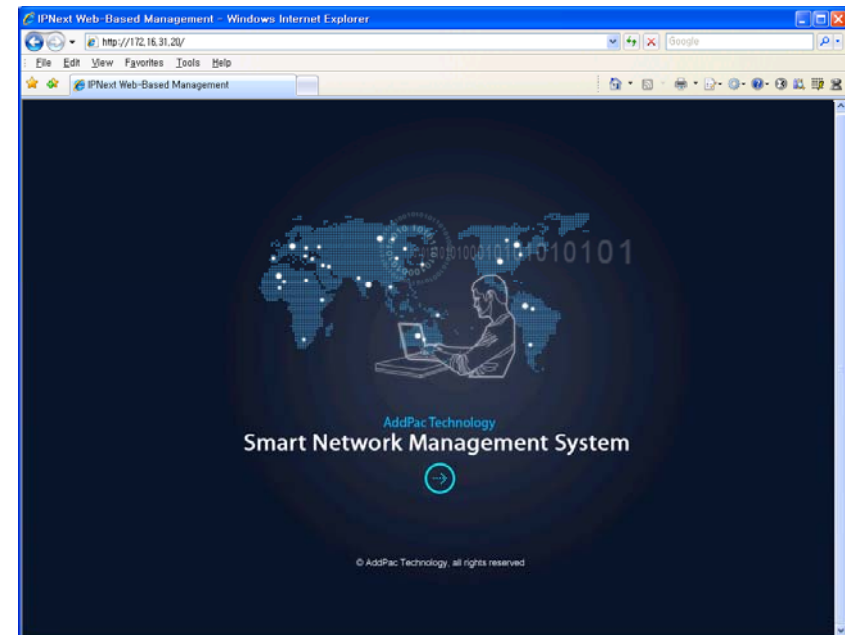
Smart NMS

Smart Network Management System for 3G 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

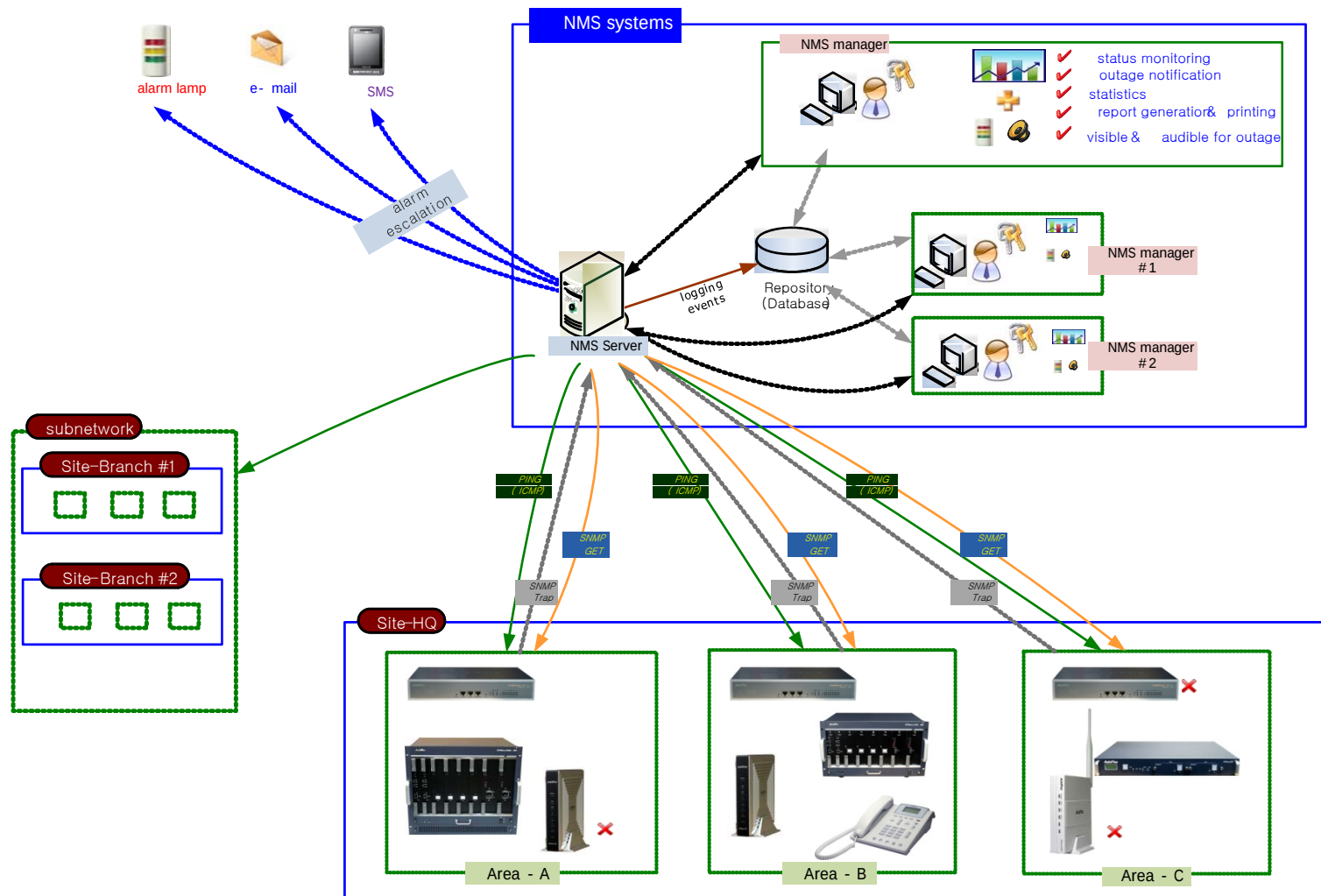
NMS Server

- 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

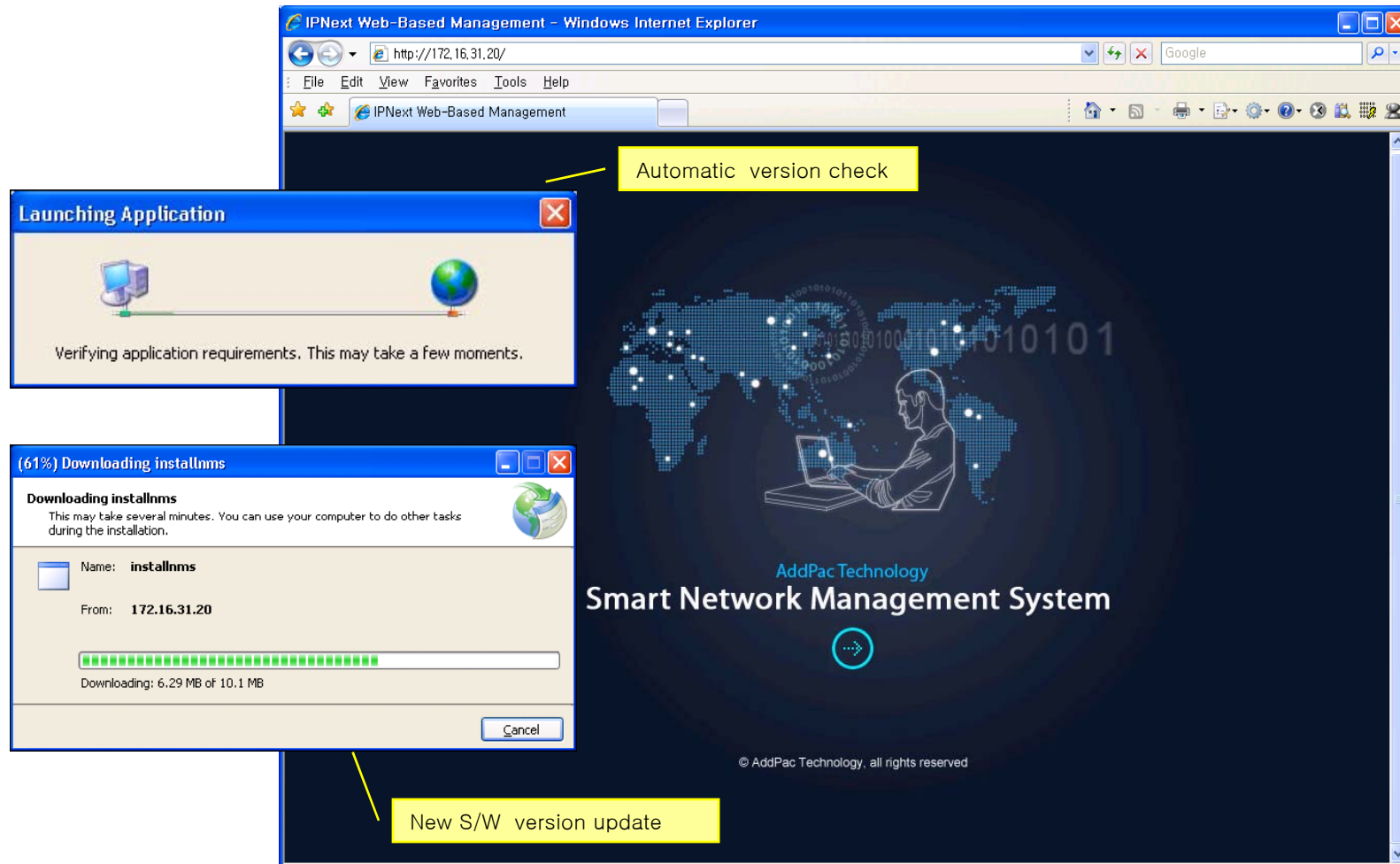
NMS Networking Diagram



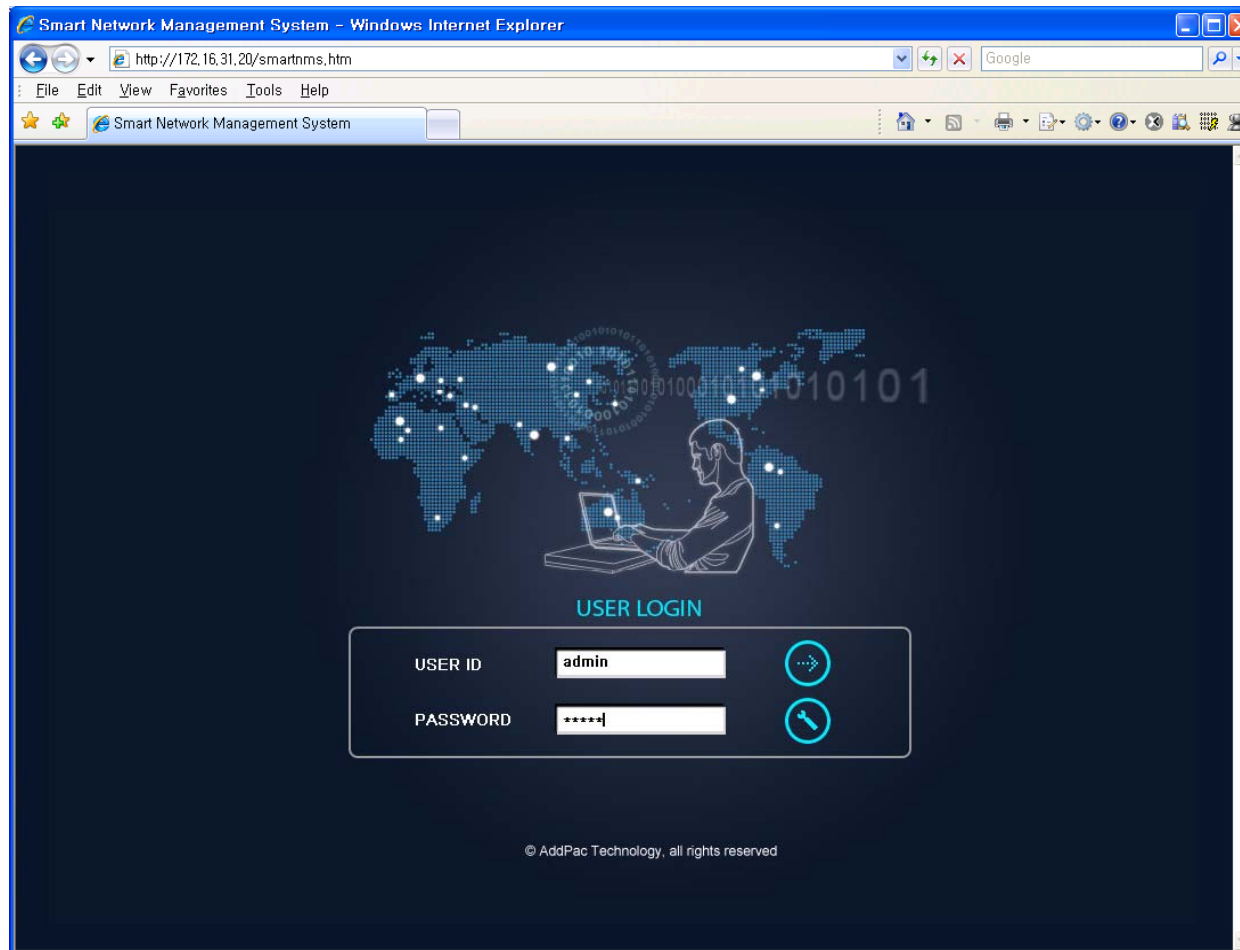
Web-based Management

- **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



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. The main window is divided into several sections:

- Left Panel (Tree View):** Shows a hierarchical structure of network resources. The tree is expanded to show the 'Seoul' node, which includes 'Seoul East Area', 'Seoul South Area', 'Seoul West Area', and 'Seoul' (which further branches into 'Branch A', 'Branch B', 'Branch TG', 'SeoChoGu', 'Gangseo Area', and 'MokDong Area').
- Right Panel (Table View):** Displays a list of categories with columns 'Category Name' and 'Description'. The categories listed are: Desktop, Network Camera, Phone, Server, Switch, and VoIP Gateway.
- Bottom Panel (Buttons):** Includes buttons for 'Add', 'Edit', and 'Delete'.
- User Properties Dialog:** A separate window titled 'User Properties' is open, showing a 'Site' tab. It contains a tree view of the same hierarchical structure as the main window, with checkboxes next to each node to assign permissions.

Annotations with red arrows point to specific features:

- An orange box with the text 'manage the complex network with a structured, hierarchical form' points to the tree view in the main window.
- An orange box with the text 'can assign the hierarchical node to the operator and manage role-based policy' points to the 'User Properties' dialog.
- An orange box with the text 'can cooperate with the application executables such as SMM' points to the 'Execute SMM' button in the bottom panel.

At the bottom of the main window, a status bar shows 'Total Categories : 6'.

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

current device fault list with hierarchy view

current device fault event message are shown as below

site device fault summary

overall total device fault statistics

device fault summary for category (classification)

The screenshot displays the Smart Network Management System (Smart NMS) interface. The main window shows a hierarchy of devices under 'AddPac'. The 'Current Outage Devices' table lists various devices and their availability. The 'Service Outages' table shows site-level statistics. The 'Device Categories' table provides a summary of faults by category. The 'Your Outstanding Notices' table lists specific fault events with details like ID, time, site, device name, IP address, service, and message.

Name	Service...	Availability
Branch AQ		
NMS Camera	6 of 12	46.937 %
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	32.740 %
IPNext 3000 ...	1 of 3	90.608 %
IPNext 3000 S...	1 of 3	90.623 %
UMS slave	3 of 3	0.000 %
HeadQuarter		
UMS server(o...	3 of 3	0.000 %
Subnetwork #2		
Center		
NMS_SOHO_...	2 of 2	98.115 %

Site	Type	Outages	Availability	Description
AddPac	Sub Netw...	28 / 10 / 32	58%	AddPac Technology C...
Seoul	Sub Netw...	2 / 1 / 2	98%	Seoul subnetwork

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%

Overall Availability	Overall Categories Availability
30 / 11 / 34 78.650 %	30 / 11 / 34 61.282 %

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
☒	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
☒	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
☒	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
☒	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
☒	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
☒	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
☒	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

4/10/2009 4:17:43 PM 172.16.31.20:5101 admin Version 1.2.3384

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>

Group Type Value 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

00_IVR_server 172.17.113.102 AP-IVR1000 IVR Session CPU Memory Storage

00_IVR_slave_server 172.17.113.202 AP-IVR1000 IVR Session CPU Memory Storage

00_NR_server 172.17.111.21 AP-NR2000 Service CPU Memory Storage

00_PS_slave_server 172.17.113.76 AP-PS2000 Presence S CPU Memory Storage

00_PS_server 172.17.111.76 AP-PS2000 Presence S CPU Memory Storage

00_RBT_server 172.17.114.60 AP-RBT1000 Media Sessi CPU Memory Storage

00_RS_server 172.17.111.91 AP-RS2000 Service CPU Memory Storage

00_UMS_server 172.17.113.101 AP-UMS2000 Service CPU Memory Storage

IPNext 3000 Master 172.17.113.40 IPNext3000 Call Manag CPU Memory Storage

IPNext 3000 Slave 172.17.113.41 IPNext3000 Call Manag CPU Memory Storage

IP_PBX_Master(our compan 172.17.250.250 IPNext5000 Service CPU Memory Storage

IP_PBX_Slave(our compan 172.17.250.251 IPNext5000 Service CPU Memory Storage

NMS_IP_PBX_31.13 172.16.31.13 IPNext200 Call Manag CPU Memory Storage

NMS_IP_PBX_31.15 172.16.31.15 IPNext200 Call Manag CPU Memory Storage

NMS_SOHO_PBX 172.16.31.13 IPNext200 Call Manag CPU Memory Storage

PS server(our company) 172.17.250.249 AP-PS2000 Service CPU Memory Storage

RBT server(our company) 172.17.250.247 AP-RBT1000 Service CPU Memory Storage

Recording Server(our comp 172.17.250.245 AP-RS2000 Service CPU Memory Storage

UMS slave 172.17.113.201 AP-UMS2000 UMS Sessi CPU Memory Storage

company_MCU_server 172.17.215.111 AP-MC3000 Service CPU Memory Storage

KT_Inbound Trunk GW 172.17.250.252 Trunk GW Service CPU Memory Storage

SE_AP2120N 172.17.113.63 Trunk GW Service CPU Memory Storage

SE_MG3000N_A 172.17.111.25 Trunk GW Service CPU Memory Storage

Total Monitoring Devices : 34

9525 4/10/2009 5:21:06 PM /AddPac/Branch GX 00_NR_server 172.17.111.21 SNMP 인터넷이 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

Your Outstanding Notices (17) All Outstanding Notices (17)

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

Device Fault Management

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

Network Management System
Smart NMS

Site Event Summary

Destination Paths Users View Current Outages View Outages View Events Fault Statistics Device Model Service Device Monitoring - <All>

Group Type Value View Mode

Site <All> Large Small Refresh Import New Tab

00_IVR_ser 00_IVR_sla 00_NR_ser 00_PS_Slav 00_PS_serv 00_RBT_ser 00_RS_serv 00_UMS_se IPNext 3000 IPNext 3000 IP_PBX_Ma IP_PBX_Sla NMS_IP_P NMS_IP_P

NMS_SDH PS server(o) RBT server Recording S UMS server UMS server UMS slave company_M KT_Inbound SE_AP2120 SE_MG300 SKN_TG(ou SKTeLTG(o SK_3G_F

172.16.51.1 172.16.51.1 5th floor me upgrade ser NMS Camer NMS Camer

device status matrix with small view mode

Total Monitoring Devices : 34

Your Outstanding Notices (18)

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
☐	9535	4/10/2009 9:26:04 PM	/AddPac/Branch GX	00_RBT_server			device 00_RBT_server's all services are down.
☐	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th floor meeting			device 5th floor meeting room phone device, all services are down.
☐	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Cent.	NMS_SDH_PBX			device NMS_SDH_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.
☐	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_3			device NMS_IP_PBX_31.13 all services down.
☐	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
☐	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

4/13/2009 3:14:58 PM 172.16.31.20:5101 admin Version 1.2.3384

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

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)

Advanced Search

Sub Network: Site:

IP Address Contains:

Notice Status Type:

Message Contains:

Level (Severity):

Notices After: Notices Before:

Sort By:

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

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message	Respond Time
☐	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	auto-acknowledged 4/10/2009 5:51:35 PM
☐	9527	4/10/2009 5:34:10 PM	/AddPac/Branch AQ	5th floor meeting room phone device			device 5th floor meeting room phone device, all services are down.	auto-acknowledged 4/10/2009 5:35:25 PM
☐	9526	4/10/2009 5:33:42 PM	/AddPac/Branch GX	00_NH_server	172.17.11			auto-acknowledged 4/10/2009 5:35:25 PM
☐	9525	4/10/2009 5:21:06 PM	/AddPac/Branch GX	00_NH_server	172.17.11			auto-acknowledged 4/10/2009 5:22:43 PM
☐	9524	4/10/2009 5:17:29 PM	/AddPac/Branch GX	00_NH_server	172.17.11			auto-acknowledged 4/10/2009 5:17:56 PM
☐	9522	4/10/2009 3:36:26 PM	/AddPac/Branch AQ	IP_PBX_Slave(our company)				auto-acknowledged 4/10/2009 4:03:13 PM
☐	9521	4/10/2009 3:36:18 PM	/AddPac/Branch AQ	PS server(our co...)				auto-acknowledged 4/10/2009 4:03:13 PM
☐	9520	4/10/2009 3:36:17 PM	/AddPac/Branch AQ	RBT server(our company)				auto-acknowledged 4/10/2009 4:03:13 PM
☐	9519	4/10/2009 3:36:17 PM	/AddPac/Branch AQ	UMS server #2				auto-acknowledged 4/10/2009 4:03:13 PM
☐	9518	4/10/2009 3:36:09 PM	/AddPac/Branch AQ	Recording Server (our company)				auto-acknowledged 4/10/2009 4:03:13 PM
☐	9517	4/10/2009 3:36:08 PM	/AddPac/Branch AQ	company_MCU_s...				auto-acknowledged 4/10/2009 4:03:13 PM
☐	9516	4/10/2009 3:36:00 PM	/AddPac/Branch GX	00_PS_Slave_ser...				auto-acknowledged 4/10/2009 4:03:13 PM
☐	9514	4/10/2009 3:35:50 PM	/AddPac/Branch GX	00_PS_Slave_ser...				auto-acknowledged 4/10/2009 4:02:54 PM
☐	9513	4/10/2009 3:35:41 PM	/AddPac/Branch AQ	5th floor meeting room phone device				auto-acknowledged 4/10/2009 4:02:43 PM
☐	9512	4/10/2009 3:35:41 PM	/AddPac/Branch AQ	IP_PBX_Master (our company)				auto-acknowledged 4/10/2009 4:02:44 PM
☐	9511	4/10/2009 3:35:33 PM	/AddPac/Branch KT	172.16.51.12				auto-acknowledged 4/10/2009 4:02:43 PM

Your Outstanding Notices (17)

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
☐	9527	4/10/2009 5:34:10 PM	/AddPac/Branch AQ	5th floor meeting ro...			device 5th floor meeting room phone device, all services are down.
☐	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.
☐	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.
☐	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
☐	9239	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera 2	172.16.253.119	ICMP	device (NMS Camera 2) interface 172.16.253.118 (172.16.253.118) service ICMP not response or deleted by administrator
☐	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

4/10/2009 6:00:02 PM 172.16.31.20:5101 admin Version 1.2.3384

Device Fault History Management

The screenshot displays the Smart Network Management System (NMS) interface within a Windows Internet Explorer browser. The main window shows a list of device faults with columns for Date/Time, Outstanding status, Acknowledge status, Limit, ID, Send Time, Site, Device Name, IP Address, Service, Message, Responder, and Respond Time. A 'Troubleshooting Note' dialog box is open, showing a log message and a table for adding notes. An orange callout box points to the 'Troubleshooting Note' dialog with the text: 'Can write troubleshooting note if needed'.

Device Fault History Table (Visible Rows):

Date/Time	Outstanding	Acknowledge	ID	Send Time	Site	Device Name	IP Address	Service	Message	Responder	Respond Time
2009-04-10	4	27	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	auto-acknowledged	4/10/2009 5:51:35 PM
2009-04-09	2	76	9527	4/10/2009 5:34:10 PM	/AddPac/Branch AQ	5th floor meeting room phone device			device 5th floor meeting room phone device, all services are down.	to-acknowledged	4/10/2009 5:35:25 PM
2009-04-08	0	96	9526	4/10/2009 5:33:42 PM	/AddPac/Branch GX					to-acknowledged	4/10/2009 5:22:43 PM
2009-04-07	0	40	9525	4/10/2009 5:21:06 PM	/AddPac/Branch GX					to-acknowledged	4/10/2009 5:17:56 PM
2009-04-06	7	489	9524	4/10/2009 5:17:29 PM	/AddPac/Branch GX					to-acknowledged	4/10/2009 4:03:13 PM
2009-04-05	0	722	9522	4/10/2009 3:36:26 PM	/AddPac/Branch GX					to-acknowledged	4/10/2009 4:03:13 PM
2009-04-04	0	708	9521	4/10/2009 3:36:18 PM	/AddPac/Branch GX					to-acknowledged	4/10/2009 4:02:44 PM
2009-04-03	1	476	9520	4/10/2009 3:36:17 PM	/AddPac/Branch GX					to-acknowledged	4/10/2009 4:02:43 PM
2009-04-02	0	248	9519	4/10/2009 3:36:17 PM	/AddPac/Branch GX					to-acknowledged	4/10/2009 4:02:43 PM
2009-04-01	0	19								to-acknowledged	4/10/2009 4:02:43 PM
2009-03-31	0	37								to-acknowledged	4/10/2009 4:02:43 PM
2009-03-30	0	9								to-acknowledged	4/10/2009 4:02:43 PM
2009-03-29	0	3								to-acknowledged	4/10/2009 4:02:43 PM
2009-03-28	0	1								to-acknowledged	4/10/2009 4:02:43 PM
2009-03-27	0	14								to-acknowledged	4/10/2009 4:02:43 PM
2009-03-26	0	52								to-acknowledged	4/10/2009 4:02:43 PM
2009-03-25	0	8								to-acknowledged	4/10/2009 4:02:43 PM
2009-03-24	0	19								to-acknowledged	4/10/2009 4:02:43 PM
2009-03-23	0	59								to-acknowledged	4/10/2009 4:02:43 PM
2009-03-22	0	102								to-acknowledged	4/10/2009 4:02:43 PM
2009-03-21	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-20	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-19	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-18	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-17	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-16	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-15	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-14	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-13	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-12	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-11	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-10	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-09	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-08	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-07	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-06	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-05	0									to-acknowledged	4/10/2009 4:02:43 PM
2009-03-04	0									to-acknowledged	4/10/2009 4:02:43 PM

Troubleshooting Note Dialog Box:

Status: Cleared

Fixed it manually.
2009-04-10 PM
by Administrator.

Operator: admin

Buttons: Add, Edit, Delete, Help, Close

Current Device Fault (Outage)

Current Outage Devices (13)

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_RBT_server	3 of 3	0.000 %
IPNext 3000 S...	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 server(o...	3 of 3	0.000 %
Subnetwork #2		
Center		
NMS_SOHO...	2 of 2	0.000 %

Service Outages

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	ICMP	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...	172.16.53.101	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		
13895	/AddPac/Branch GX	IPNext 3000 Master	172.17.113.40		
13802	/AddPac/Branch GX	00_IVR_server	172.17.113.41		
13801	/AddPac/Branch GX	00_IVR_slave	172.17.113.41		
13800	/AddPac/Branch GX	00_IVR_slave	172.17.113.41		
13773	/AddPac/Branch AQ	NMS_IP_PBX_31.13	172.16.253.118		
13772	/AddPac/Branch AQ	NMS_IP_PBX_31.13	172.16.253.118		
13771	/AddPac/Branch AQ	NMS_IP_PBX_31.13	172.16.253.118		
13611	/AddPac/Branch AQ	NMS_Camera	172.16.253.118		
13610	/AddPac/Branch AQ	NMS_Camera	172.16.253.118		
13609	/AddPac/Branch AQ	NMS_Camera	172.16.253.118		
13608	/AddPac/Branch AQ	NMS_Camera	172.16.253.118		
13607	/AddPac/Branch AQ	NMS_Camera	172.16.253.118		
13606	/AddPac/Branch AQ	NMS_Camera	172.16.253.118		
9021	/AddPac/Branch GX	UMS slave	172.16.253.118		
9020	/AddPac/Branch GX	UMS slave	172.16.253.118		
9019	/AddPac/Branch GX	UMS slave	172.16.253.118		
6489	/AddPac/Branch GX	00_PS_server	172.16.253.118		

Event Detail (ID: 45412)

Acknowledge Events Device Properties Help Close

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

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

Service: Status: Acknowledged By:

Time Acknowledge:

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

Add Edit Delete

Your Outstanding Notices (18)

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
☐	9535	4/10/2009 9:26:04 PM	/AddPac/Branch GX	00_RBT_server			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.
☐	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th floor meeting...			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.
☐	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Cent...	NMS_SOHO_PBX			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.
☐	9495	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Slave	172.17.113.41	Call Manager	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	Call Manager 2009-4-10 11:37:12 failed.
☐	9419	4/9/2009 2:20:01 PM	/AddPac/Branch GX	00_IVR_server			interface 172.17.113.40 (172.17.113.40) device (IPNext 3000 Master) service Call Manager, 2009-4-10 11:37:12 failed
☐	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_3...			device 00_IVR_server all services are down.
☐	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

4/13/2009 11:44:29 AM 172.16.31.20:5101 admin Version 1.2.3384

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	449	0	449	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

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_SOHO_PBX			device NMS_SOHO_PBX, all services are down
/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.
/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.
/AddPac/Branch GX	00_IVR_server			device 00_IVR_server all services are down.
/AddPac/Branch AQ	NMS_IP_PBX_3...			device NMS_IP_PBX_31.13 all services down.
/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

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

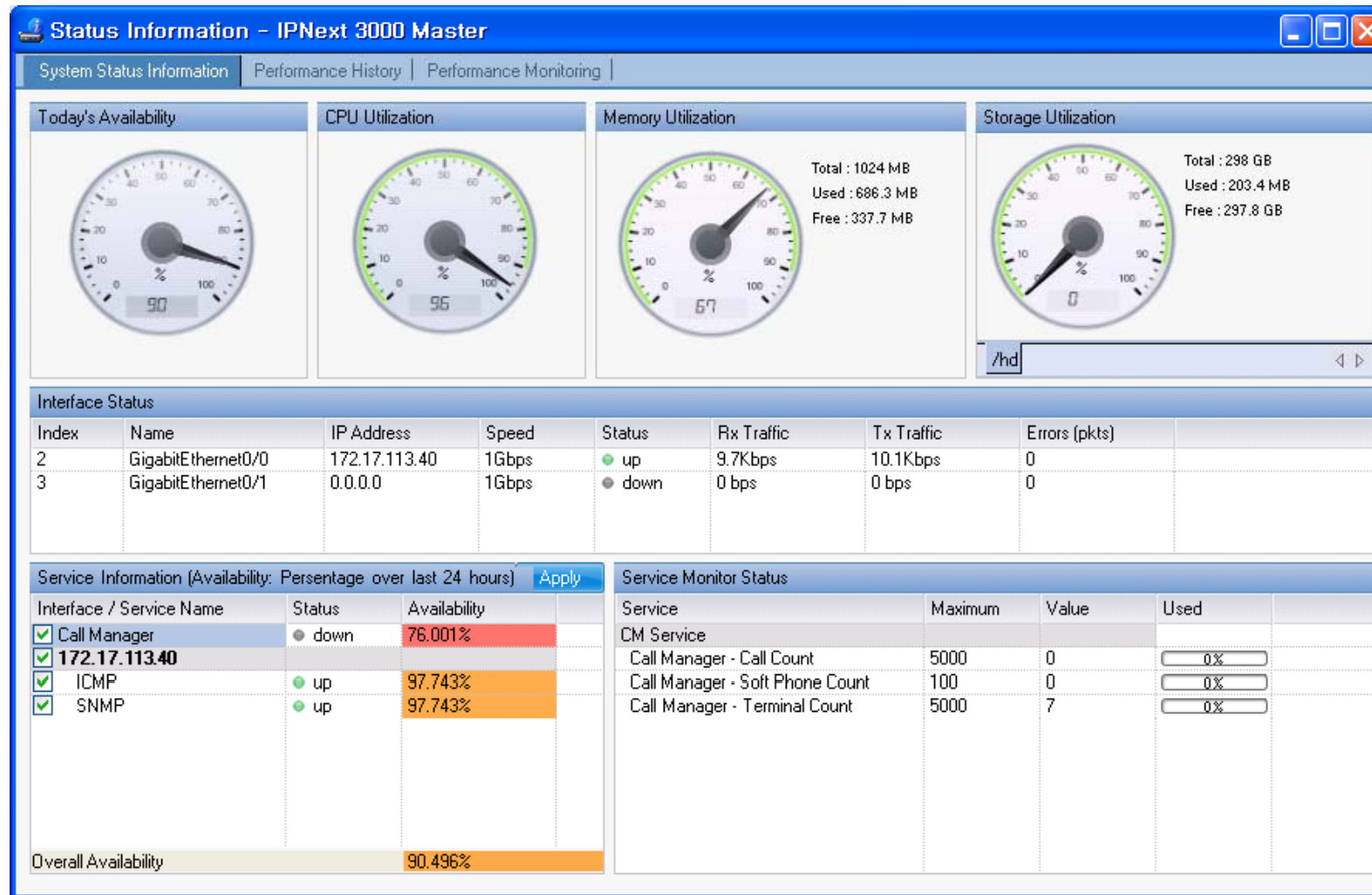
Can view all events for devices with search condition

summarize daily event statistics data

Device Status Information

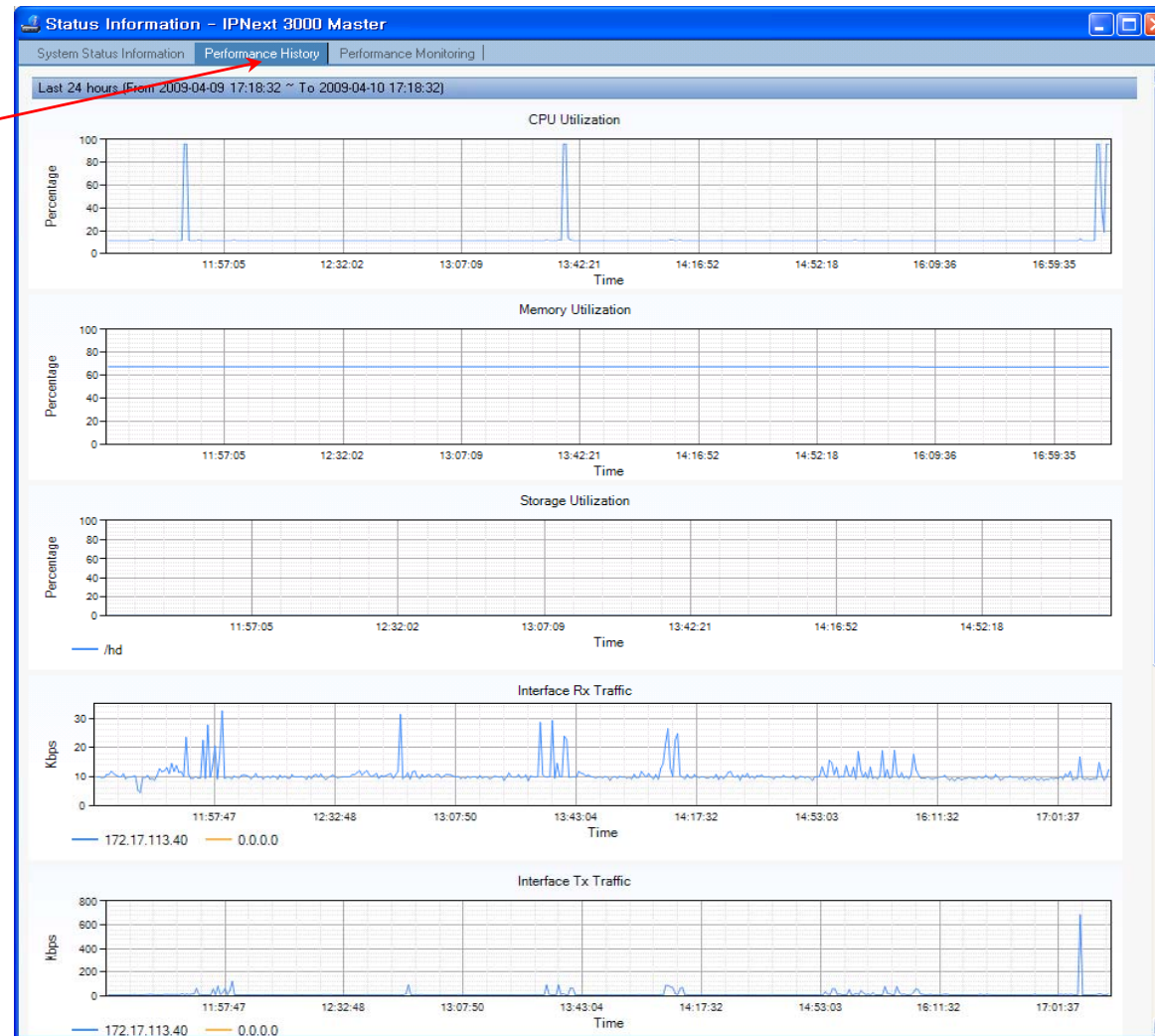
- System Performance Information (CPU, HDD, Memory,...)
- Provide device current service status (up/down)
- Provide device main status (max value vs current value)
- Display Graph Series with System Performance Information
- Monitor Main Status Flow with System Monitoring View

Device Status Information

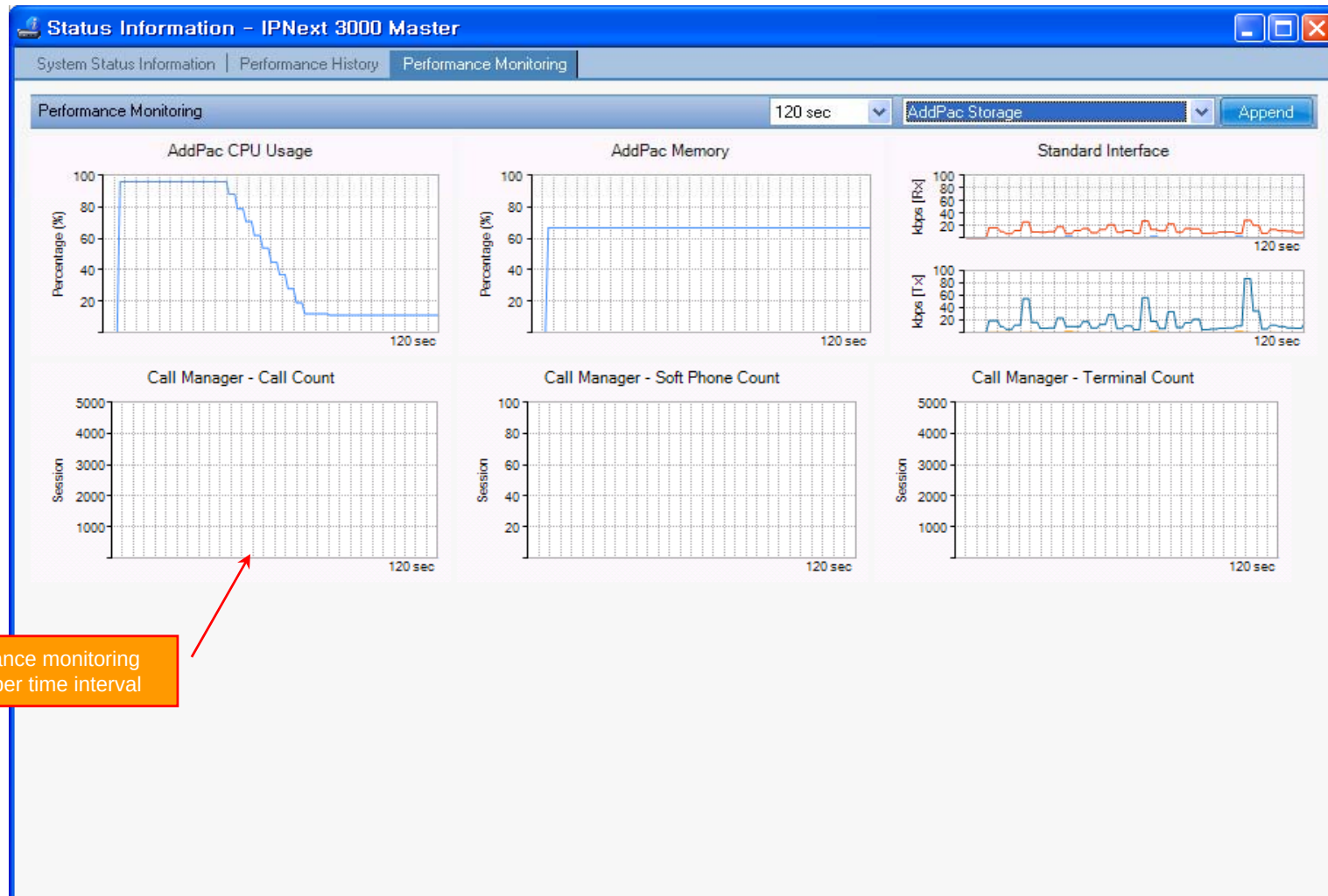


Device Status Information

performance analysis graph
for last 24 hours



Device Status Information



performance monitoring
with proper time interval

Notification Management

- Notify administrator for important event such as critical device fault when proper action needs
- Provide several notification channel 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 (play sound), visible (alarm lamp) form

Event Notification Management

The screenshot displays the Smart NMS web interface in Internet Explorer. The main menu includes NMS, Account, Configuration, Monitoring, Notification, Fault, Statistics, View, and Help. The left sidebar shows a tree view of network devices under 'Current Outage Devices (13)'. The central pane shows a table of events with columns for Notification Name, Event, Destination Path, and Description. The right pane shows the 'Event Notification Properties' dialog box for the 'serviceUnresponsive' event.

Event Notification Properties Dialog:

- 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 %interfaceresolve% (%interface%)
- Text Message: The %service% poll to interface %interfaceresolve% (%interface%) on node %nodeLabel% successfully completed a connection to the service listener on the remote machine. However, the synthetic transaction failed to complete within %spam[timeout]% milliseconds, over %spam[attempts]% attempts. This event will NOT impact service level agreements, but may be an indicator of other problems on that node.
- Special Values: Can be used in both the text message and email subject: %noticeid% = notification ID number, %time% = time sent, %severity% = event severity, %nodeLabel% = may be IP address or empty, %interface% = IP address, may be empty, %service% = service name, may be empty, %eventid% = event ID, may be empty.
- Note: If the alert exceeds 80 bytes then the notification will be despatched in two or more sms.
- Enable Notification: ☒

Outstanding Notices Table:

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

Annotations:

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

Event Notification Management

Smart Network Management System - Windows Internet Explorer

http://172.16.31.20/smartnms.htm

Smart Network Management System

NMS Account Configuration Monitoring Notification Fault Statistics View Help

Current Outage Devices [13] Site

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_RBT_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 server(o...	3 of 3	0.000 %
Subnetwork #2		
Center		
NMS_SOHO_...	2 of 2	0.000 %

Destination Path Properties

Destination Path Name: default

Initial Target: onlyAlarmLamp

Initial Delay: 0m

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

Add Delete

Escalation: Delay: 0m

Notification Type	Target	Auto Notify
-------------------	--------	-------------

Add Delete

Help Ok Cancel

Total destination paths : 2

Your Outstanding Notices [18]

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
	9535	4/10/2009 9:26:04 PM	/AddPac/Branch GX	00_RBT_server			device 00_RBT_server's all services are down.
	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th floor meeting...			device 5th floor meeting room phone device, all services are down.
	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Cent...	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
	9494	4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000 Master	172.17.113.40	Call Manager	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.
	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_3...			device NMS_IP_PBX_31.13 all services down.
	9229	4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS_Camera 2	172.16.253.119		device (NMS_Camera 2) interface 172.16.253.118 (172.16.253.118) not response or delete by administrator

4/13/2009 11:22:46 AM 172.16.31.20:5101 admin Version 1.2.3384

Event Notification Management

The screenshot displays the Smart Network Management System (NMS) interface within a Windows Internet Explorer browser. The main window shows a tree view of the network structure on the left, including devices like NMS Camera, NMS_IP_PBX, and various servers. The central pane displays a table of 'Current Outage Devices' with columns for Name, Service, and Availability. Two dialog boxes are open: 'Destination Path Properties' and 'Target Properties'. The 'Target Properties' dialog is in the foreground, showing options for notification type (sms, email, or mobile) and target information. A red arrow points to the 'Send to select user' option, which is set to 'Account Administrator'. A text box explains that this setting is used for SMS, E-mail Notification, or to specify an e-mail address or SMS phone number. The bottom of the interface shows a list of 'Your Outstanding Notices' with columns for Ack, ID, Send Time, Site, Device Name, and IP Address.

user account (administrator) setting for SMS, E-mail Notification or specify e-mail address or SMS phone number

Configuration

The screenshot displays the Smart NMS web interface in Internet Explorer. The main menu includes NMS, Account, Configuration, Monitoring, Notification, Fault, Statistics, View, and Help. The left sidebar shows a tree view of network components under 'AddPac', including Branch AQ, Branch GX, and various servers. The main content area shows 'Current Outage Devices [13]' and 'Service Outages'. A 'Configure Notification' dialog box is open, showing the 'E-Mail' tab. The dialog has fields for 'Sender Email Address' (nms@addpac.com), 'SMTP Server Host' (61.33.161.2), and an optional 'Authentication' section with 'Username' and 'Password' fields. A red arrow points to the dialog with the text 'global notification channel configuration'.

Configure Notification

External Notification: Alarm Lamp

E-Mail SMS

Sender Email Address: nms@addpac.com

SMTP Server Host: 61.33.161.2

☐ Authentication

Username:

Password:

Help Ok Cancel

global notification channel configuration

Your Outstanding Notices [18]

Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
☐	9535	4/10/2009 9:26:04 PM	/AddPac/Branch GX	00_RBT_server			device 00_RBT_server's all services are down.
☐	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th floor meeting...			device 5th floor meeting room phone device, all services are down.
☐	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Cent...	NMS_SDHO_PBX			device NMS_SDHO_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
☐	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
☐	9418	4/9/2009 2:20:01 PM	/AddPac/Branch GX	00_IVR_server			device 00_IVR_server all services are down
☐	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_3...			device NMS_IP_PBX_31.13 all services down.
☐	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

4/13/2009 11:26:16 AM 172.16.31.20:5101 admin Version 1.2.3384

Audible & Visible Alarm

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

Fault Statistics

Network Management System
Smart NMS

notify operator (or administrator)
1. Alarm lamp blink (on&off) (visible)
2. play alarm sound (audible)

can synchronize with alarm lamp equipment

Site	Type	Outages	Availability	Description
AddPac	Sub Netw...	32 / 12 / 32	52%	AddPac Technology C...
Seoul	Sub Netw...	2 / 1 / 2	3%	Seoul subnetwork

Category	Outages	Availability
Desktop	0 / 0 / 1	100%
Network Camera	6 / 1 / 2	57%
Phone	1 / 1 / 3	66%
Server	27 / 11 / 22	42%
Switch	0 / 0 / 0	100%
IP Gateway	0 / 0 / 6	100%

Overall Availability: 34 / 13 / 34 27.690 %

Overall Categories Availability: 34 / 13 / 34 49.470 %

Your Outstanding Notices (18)

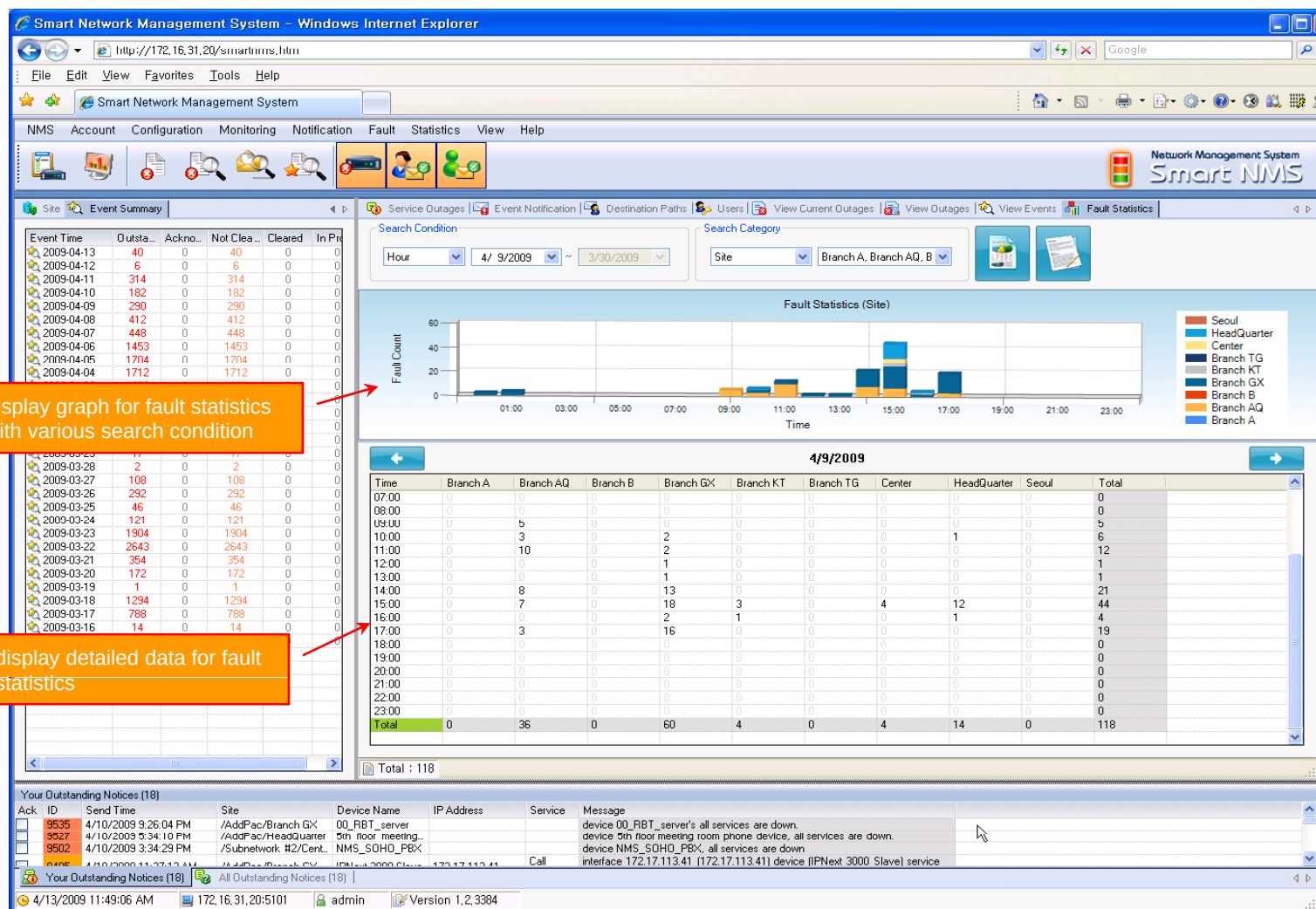
Ack	ID	Send Time	Site	Device Name	IP Address	Service	Message
☐	9535	4/10/2009 9:26:04 PM	/AddPac/Branch GX	00_RBT_server			device 00_RBT_server's all services are down.
☐	9527	4/10/2009 5:34:10 PM	/AddPac/HeadQuarter	5th floor meeting...			device 5th floor meeting room phone device, all services are down.
☐	9502	4/10/2009 3:34:29 PM	/Subnetwork #2/Cont...	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.
☐	9396	4/9/2009 10:57:37 AM	/AddPac/Branch AQ	NMS_IP_PBX_3...			device NMS_IP_PBX_31.13 all services down.
☐	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
☐	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
☐	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
☐	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
☐	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

4/13/2009 11:52:14 AM 172.16.31.20:5101 admin Version 1.2.3384

Fault Statistics

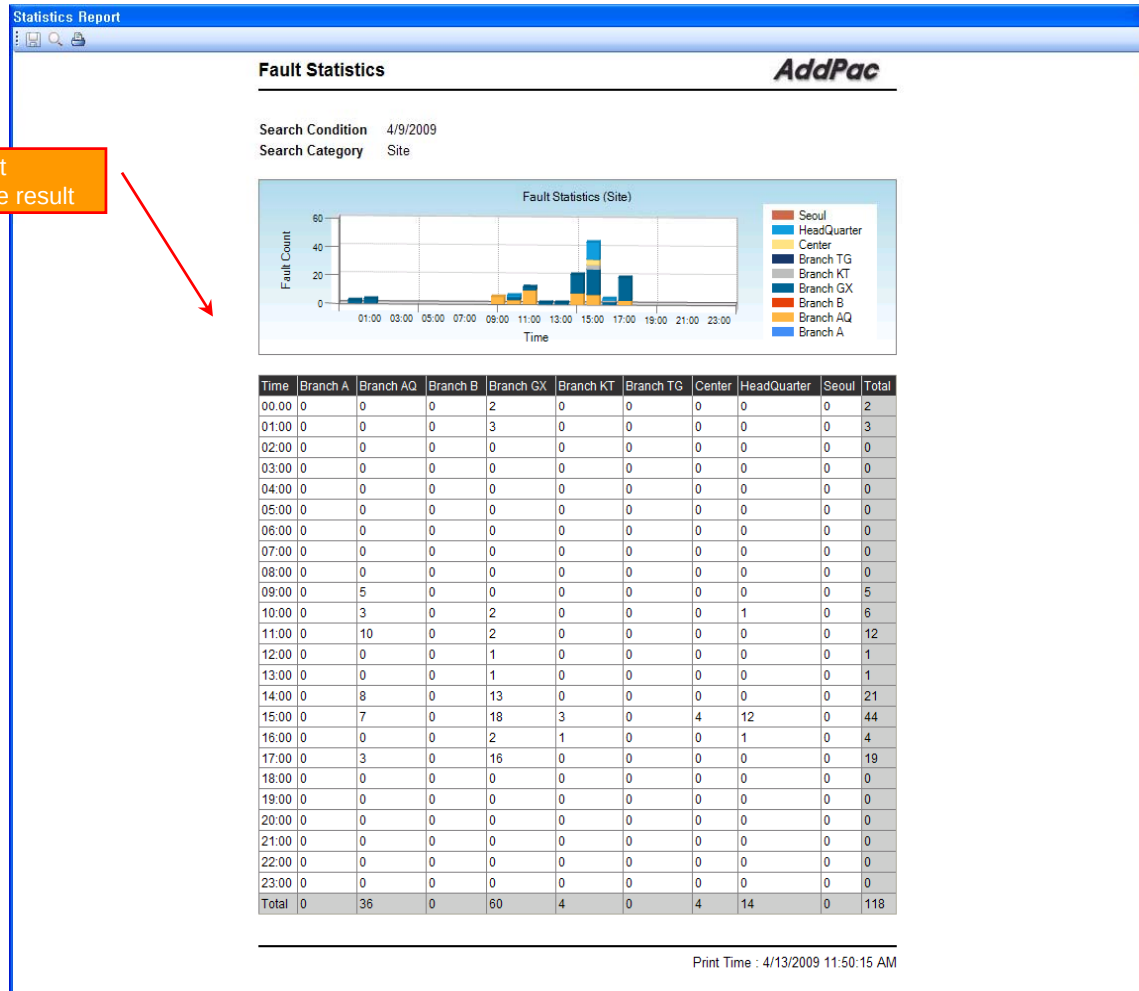
- analyze for a fault event with graph and detailed list data
- Report form generation and print out for statistics result

Fault Statistics



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

The screenshot displays the Smart Network Management System (Smart NMS) interface. The main window shows a tree view of sites on the left, a list of device models in the center, and a 'Device Model Properties' dialog box on the right. The dialog box is open for the 'AP-IPC250M' model, showing its category as 'Network Camera' and a model image. A red arrow points from the 'Device Model Properties' dialog box to the 'Model Image Management' window, which is a separate window showing a grid of device images for selection. A red arrow also points from the 'Model Image Management' window to the 'Device Model Properties' dialog box.

manage device model with various properties such as model image

model image repository for selection

Service Definition

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



Thank you!

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