IPv6 telephony Solution







AddPac Technology

2010, Sales and Marketing

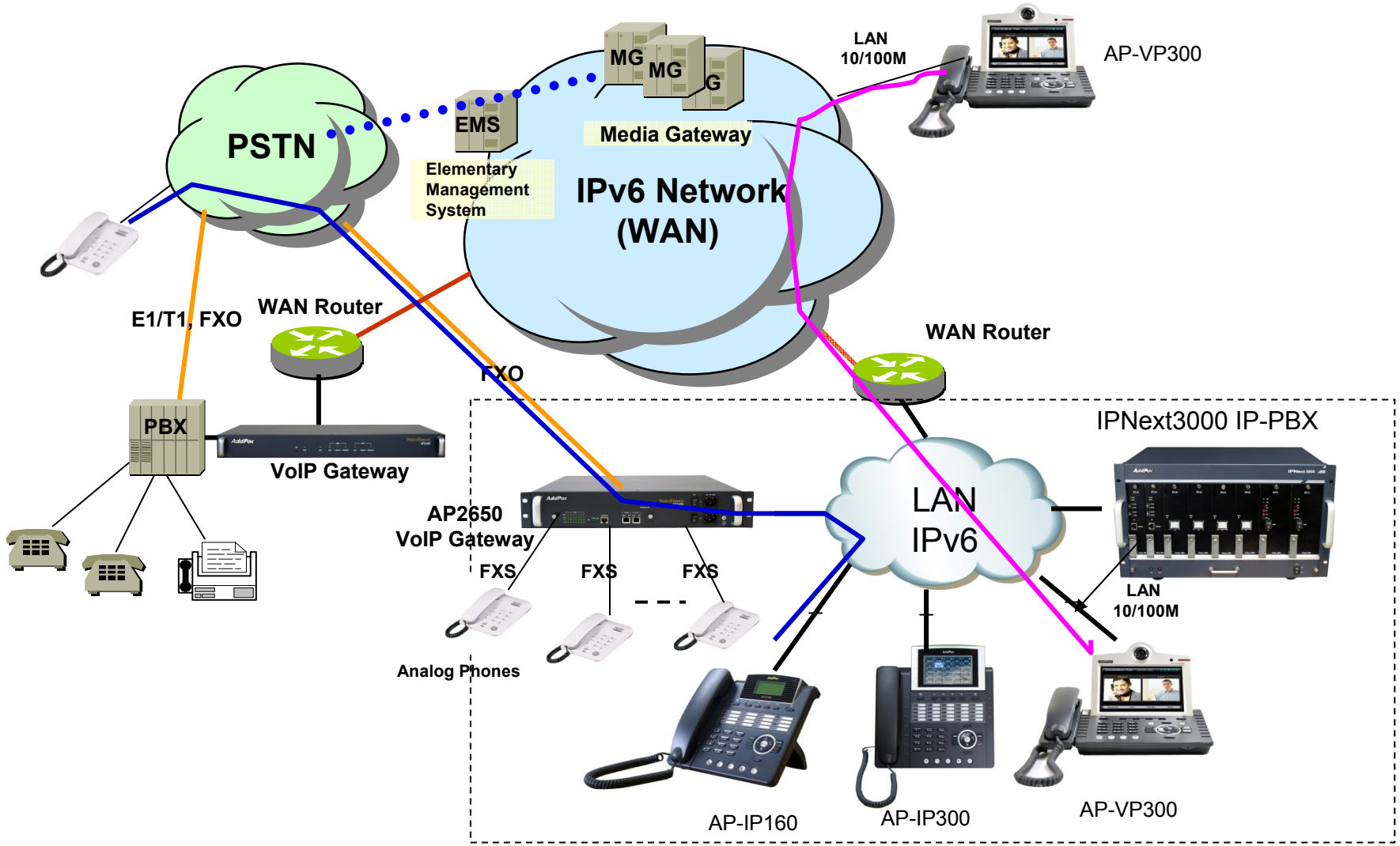
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- IPv6 IP Phones
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IPv6 Telephony Service Diagram



IPv6 IP-PBX Comparison Table

IPv6 SOHO IP-PBX Comparison Table

Product		IPNext100 	IPNext50 	IPNext20 
Registration User Number		50	30	10
Concurrent Call User Number		20	15	5
IPv4/IPv6 Dual Stack Support		Support	Support	Support
VoIP Signaling	Internal	SIP	SIP	SIP
	External	H.323/SIP	H.323/SIP	H.323/SIP
Powerful IVR, UMS, Media Service, User Presence Service		Support	Support	Support
RTP Proxy Service (IPv6, Private IP)		Support	Support	Support
LAN Port		2	2	2
USB Interface		Support	Support	Option
FXO, FXS Interface		Option	Option	Option

IPv6 SMB IP-PBX Comparison Table

Model / Service Features		IPNext250 	IPNext230 	IPNext210 	IPNext190 	IPNext180 
Registration User Number		200	200	150	150	100
Concurrent Call User Number		100	60	50	50	30
IPv4/IPv6 Dual Stack Support		Support	Support	Support	Support	Support
VoIP Signaling	Internal	SIP	SIP	SIP	SIP	SIP
	External	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP
Powerful IVR, UMS, Media Service, User Presence Service		Support	Support	Support	Support	Support
RTP Proxy Service (IPv6, Private IP)		Support	Support	Support	Support	Support
LAN Port		2	2	2	2	2
VoIP Module Slots for PSTN		10 Slots (8 Port Module)	15 Slots (4 Port Module)	4 Slots (8 Port	4 Slots (8 Port Module)	2Slots (8 Port
VoIP Interface		FXS, FXO,E1/T1	FXS, FXO, E&M,E1/T1	FXS,FXO,E&M, E1/T1	FXS, FXO,E1/T1	FXS,FXO ,E1/T 1

IPv6 IP-PBX Comparison Table

Product	IPv6 Ready
IPNext1000 	OK
IPNext700 	OK
IPNext600 	OK
IPNext500 	OK
IPNext200 	OK

IPv6 Large Capacity IP-PBX Comparison Table

Product	IPv6 Ready
IPNext10000 	OK
IPNext5000 	OK
IPnext3000 	OK

IPv6 Video Phone Comparison Table

IPv6 Video Phone Comparison Table

Product	AP-VP500	AP-VP350	AP-VP300N	AP-VP280	AP-VP250	AP-VP230	AP-VP150	AP-VP120
								
LCD Size	12.1 Inch Touch Screen	7Inch Touch Screen	7Inch Touch Screen	7Inch Touch Screen	4.3Inch Touch Screen	5Inch Touch Screen	4.3Inch Touch Screen	4.3Inch
Camera	CCD	CCD	CCD	CMOS	CMOS	CMOS	CCD	CMOS
Video Codec	H.263 MPEG4 H.264	H.263 MPEG4 H.264	H.263 MPEG4 H.264	H.263 MPEG4 H.264	H.263 MPEG4 H.264	H.263 MPEG4 H.264	H.263 MPEG4 H.264	H.263 MPEG4 H.264
Signaling	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP
Video MCU	N/A	4-Party Video MCU	N/A	N/A	N/A	N/A	N/A	N/A
Voice MCU	3-Party	3-Party	3-Party	3-Party	3-Party	3-Party	3-Party	3-Party
LAN Port	2	2	2	2	2	2	2	2
PoE	N/A	N/A	Support	N/A	Support	Support	Support	Support

IPv6 Voice Phone Comparison Table

IPv6 Voice Phone Comparison Table

Product	AP-IP300	AP-IP250	AP-IP230	AP-IP160	AP-IP120	AP-IP90
						
LCD Size	4.3 Inch Color LCD	4.3 Inch Color LCD	5 Inch Color LCD	4 Text Line Graphic LCD	4 Text Line Graphic LCD	4 Text Line Graphic LCD
Touch Screen	N/A	Support	Support	N/A	N/A	N/A
Speed-Dial Keys	25 Key with Presence LED	Touch Screen based 25 Keys	Touch Screen based 25 Keys	16 Key with Presence LED	12 Key with Presence LED	N/A
Voice Codec	G.711/G.726/ G.729/G.723	G.711/G.726/ G.729/G.723	G.711/G.726/ G.729/G.723	G.711/G.726/ G.729/G.723	G.711/G.726/ G.729/G.723	G.711/G.726/ G.729/G.723
Signaling	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP
3-Party Conversation	Support	Support	Support	Support	Support	Support
LAN Port	2	2	2	2	2	2
PoE(Option)	Support	Support	Support	Support	Support	Support
FXO(Option)	Support	Support	Support	Support	Support	Support

IPv6 MCU Comparison Table

IPv6 Multipoint CommunicationUnit

Product	AP-MC1000	AP-MC1500	AP-MC2000	AP-MG3000	AP-MG5000
					
Media	Video, Audio	Audio	Video, Audio	Video, Audio	Video, Audio
VoIP Signaling	SIP, H.323 SIP(IPv6)	SIP, H.323 SIP(IPv6)	SIP, H.323 SIP(IPv6)	SIP, H.323 SIP(IPv6)	SIP, H.323 SIP(IPv6)
Capacity	16ch	Up to 128 ch (Option 256ch)	16ch	32ch	64ch
Video Codec	H.263, MPEG4	N/A	H.263, MPEG4,H.264	H.263, MPEG4,H.264	H.263, MPEG4,H.264
Audio Codec	G.729, G.723, G.711,etc	G.729, G.723, G.711,etc	G.729, G.723, G.711,etc	G.729, G.723, G.711,etc	G.729, G.723, G.711,etc
LAN Port	2	2	1	1	1
Console	1	1	1	1	1
Power	Single PSU	Single PSU	Single PSU	Single PSU	Dual PSU

IPv6 VoIP Gateway Comparison Table

IPv6 VoIP Gateways for SOHO(1~2Port)

Product	AP100 		AP100B 	
Model	Type	VoIP	Type	VoIP
	P	PSTN Backup	B	2FXS, PSTN Backup
VoIP Ports	1		2	
Signaling	SIP, H.323		SIP, H.323	
Module Slot	N/A		N/A	
LAN Port	2		2	
Console	N/A		N/A	
Power	External Adaptor		External Adaptor	

IPv6 VoIP Gateways for SMB (4 Port)

Product	AP800 	
Model	Type	VoIP
	A	1-Port PSTN Backup
	B	4-Port PSTN Backup
VoIP Ports	4-Port FXS	
Signaling	SIP, H.323	
Module Slot	N/A	
LAN Port	2	
Console	Support	
Power	External Adaptor	

IPv6 VoIP Gateways for MB (8Port)

Product	AP900 		AP1100 	
Model	Type	VoIP	Type	VoIP
	A	4 FXS, 4 FXO	A	4 FXS, 4 FXO
	B	8 FXS	B	8 FXS
	C	8 FXO	C	8 FXO
VoIP Ports	Up to 8-Port		Up to 8-Port	
Signaling	SIP, H.323		SIP, H.323	
Module Slot	N/A		N/A	
LAN Port	2		2	
Console	Support		Support	
Power	External Adaptor		External Adaptor	

IPv6 VoIP Gateways (~24Port)

Product	AP1800	AP2120N	AP2330
			
Available Modules	AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4 AP-N1-E1	AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4	AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4
Analog Ports	Up to 16	Up to 16	Up to 24
Signaling	SIP, H.323	SIP, H.323	SIP, H.323
Digital E1/T1	Up to 2E1	N/A	N/A
E&M	N/A*	Support	N/A*
Module Slot	Two(2)	Two(2)	Three(3)
LAN Port	2	2	2
Console	1	1	1
Power	Single PSU	Single PSU	Single PSU

IPv6 VoIP Gateways (~32Port)

Product	AP2340	AP2640	AP2650
			
Available Modules	AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4	AP-FXS8 AP-FXO8 AP-FXS4O4 AP-E&M8 AP-E1	AP-FXS8 AP-FXO8 AP-FXS4O4 AP-E&M8 AP-E1
Analog Ports	Up to 32	Up to 32	Up to 32
Signaling	SIP, H.323	SIP, H.323	SIP, H.323
Digital E1/T1	N/A	Up to 2E1	Up to 2E1
E&M	N/A*	Support	Support
Module Slot	Four(4)	Four(4)	Four(4)
LAN Port	2	2	2
Console	1	1	1
Power	Single PSU	Single PSU	Dual PSU

Large Capacity IPv6 VoIP Gateways

Product	AP3100P	AP6500	AP6800
			
Available VoIP Modules	AP-FXS4, AP-FXO4 AP-FXS2O2, AP-E&M4	AP-N1-FXS32 AP-N1-FXO32	AP-N1-FXS32 AP-N1-FXO32
Analog Ports	Up to 60 (4Port Module x 15)	Up to 128 (32 Port Module x 4)	Up to 256 (32 Port Module x 8)
Signaling	SIP, H.323	SIP, H.323	SIP, H.323
CPU Redundancy (Dual CPU)	N/A	Support (Option)	Support (Option)
E&M	Support	N/A	N/A
Module Slot for VoIP Module	15 Slots	4 Slots	8 Slots
LAN Port	2	2	2
Console	1	1	1
Dual Power Supply (Option)	Support	Support	Support

IPv6 Digital VoIP Gateways (1~16 E1/T1)

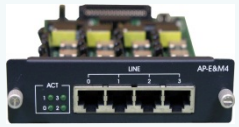
Product	AP1850	AP-MG3000	AP-MG3800	AP-MG5000
				
Available Modules	AP-N1-E1 AP-N1-2E1	APv2-1E1 APv2-2E1 APv2-4E1	HIM-VoIP4E1 (4 E1/T1 Module)	HIM-4E1 (4 E1/T1 Module)
VoIP Signaling	SIP, H.323	SIP, H.323	SIP, H.323	SIP, H.323
Digital E1/T1	Up to 4E1	Up to 4E1	Up to 8 E1	Up to 16E1
Digital Signaling	ISDN PRI, R2	ISDN PRI, R2	ISDN PRI, R2	ISDN PRI, R2
Module Slot	Two(2)	Two(2)	Two(2)	Four(4)
LAN Port	2	2	2	2
Console	1	1	1	1
Power	Single PSU	Single PSU	Single PSU	Dual PSU

VoIP Modules

Target :
AP2610, AP2620, AP1700, AP3100P

VoIP Modules

DSP

Target	VoIP Modules	Module Features	Module Picture
AP1700,AP2610 AP2620,AP3100P	AP-FXS4	4-Port FXS Module	
AP1700,AP2610 AP2620,AP3100P	AP-FXO4	4-Port FXO Module	
AP1700,AP2610 AP2620,AP3100P	AP-FXS2O2	2-Port FXS&2-Port FXO Module	
AP1700,AP2610 AP2620,AP3100P	AP-E&M4	4-Port E&M Module	
AP1700,AP2610 AP2620,AP3100P	AP-FXS3O1	3-Port FXS&1-Port FXO Module	
AP1700, AP2620	AP-E1	1-Port Digital E1/T1 Module	

Additional VoIP Modules

DSP

Target	Voice Modules	Module Features	Module Picture
AP2610, AP2620	AP-MP3	1-Pair Audio-In/Out Port, Direct MIC-In, Headphone High Quality Audio Band IP Broadcasting	
AP2610 AP2620	AP-AUDIO2	2-Pair Audio-In/Out Ports Voice Band IP Broadcasting	
AP2610, AP2620	AP-AUD1S3	1-Pair Audio-In/Out Ports, FXS Analog Interface Voice Band IP Broadcasting	
AP2610, AP2620	AP-AUD1S2O1	1-Pair Audio-In/Out Ports, FXS 2-Ports, FXO 1-Port Voice Band IP Broadcasting	

Target :
AP2120N, AP2640, AP2650

VoIP Modules

DSP

Target	VoIP Modules	Module Features	Module Picture
AP2120N AP2640 AP2650	AP-FXS8	8-Port FXS Module	
AP2120N AP2640 AP2650	AP-FXO8	8-Port FXS Module	
AP2120N AP2640 AP2650	AP-FXS4O4	4-Port FXS&4-Port FXO Module	
AP2120N AP2640 AP2650	AP-E&M8	8-Port E&M Module	
AP2640 AP2650	AP-E1	1-Port Digital E1/T1 Module	
AP2640 AP2650	AP-2E1	2-Port Digital E1/T1 Module	

Target :
AP1800, AP2330, AP2340, AP1850

VoIP Modules

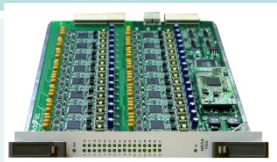
DSP

Target	VoIP Modules	Module Features	Module Picture
AP1800 AP2330 AP2340	AP-N1-FXS8	8-Port FXS Module	
AP1800 AP2330 AP2340	AP-N1-FXO8	8-Port FXO Module	
AP1800 AP2330 AP2340	AP-N1-FXS4O4	4-Port FXS&4-Port FXO Module	
AP1800 AP1850	AP-N1-E1	1-Port Digital E1/T1 Module	
AP1800 AP1850	AP-N1-2E1	2-Port Digital E1/T1 Module	

Target :
AP6500, AP6800

VoIP Modules

DSP

Target	VoIP Modules	Module Features	Module Picture
AP6500 AP6800	AP-N1-FXS32	32-Port FXS Module	
AP6500 AP6800	AP-N1-FXO32	32-Port FXO Module	

Target :
AP-MG3000

VoIP Modules

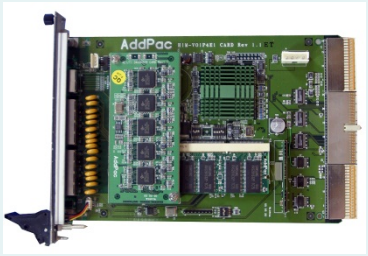
DSP

Target	VoIP Modules	Module Features	Module Picture
AP-MG3000	APv2-1E1	1-Port Digital E1/T1 Module	
AP-MG3000	APv2-2E1	2-Port Digital E1/T1 Module	
AP-MG3000	APv2-4E1	4-Port Digital E1/T1 Module	

Target :
AP-MG3800, AP-MG5000

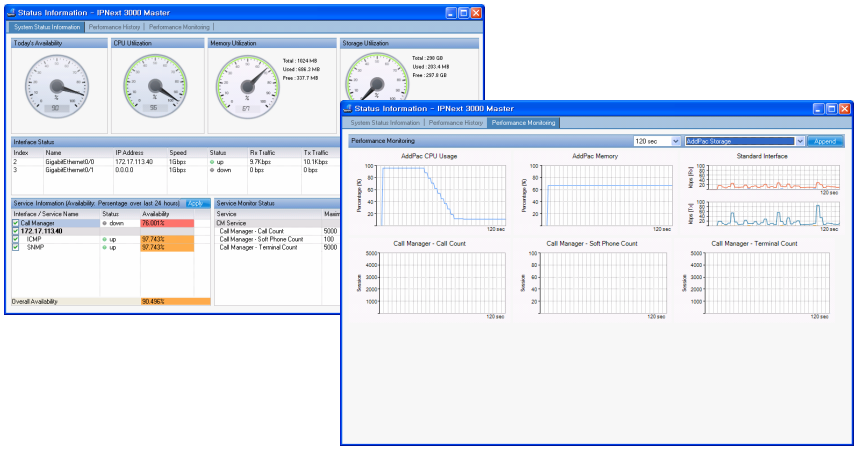
VoIP Modules

DSP

Target	VoIP Modules	Module Features	Module Picture
AP-MG3800, AP-MG5000	HIM-VOIP4E1	4-Port Digital E1/T1 Module	 

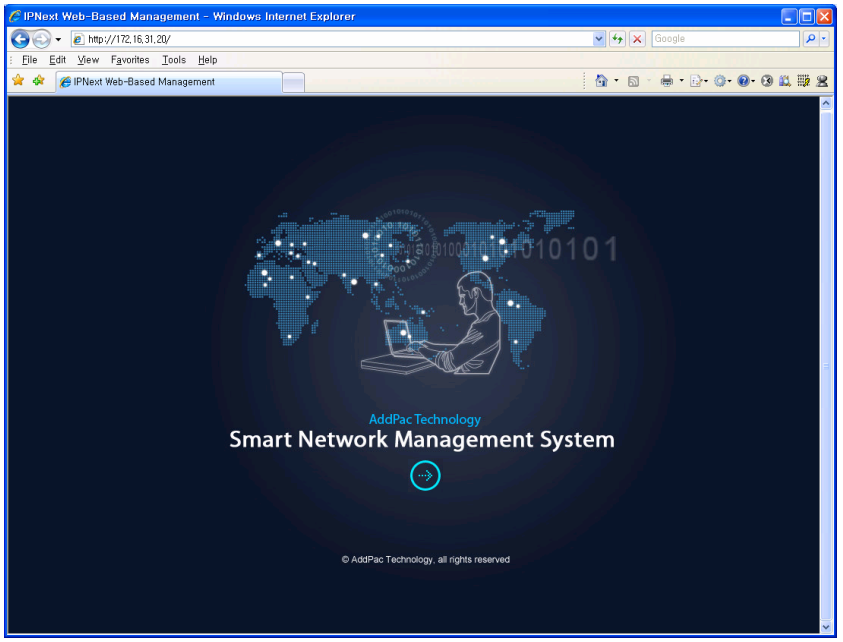
Smart NMS

Smart Network Management System for IP telephony system



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

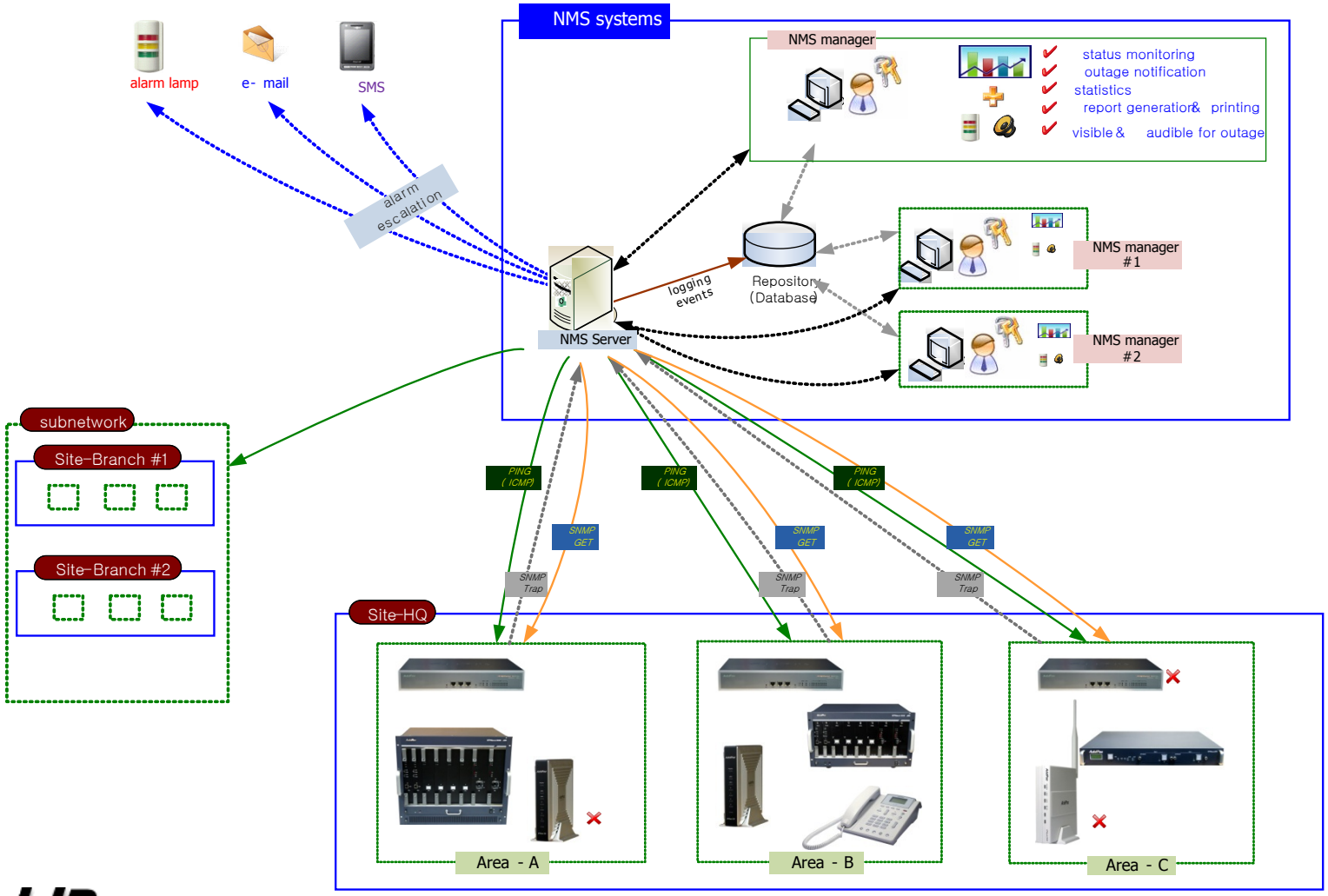
NMS Server

- 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

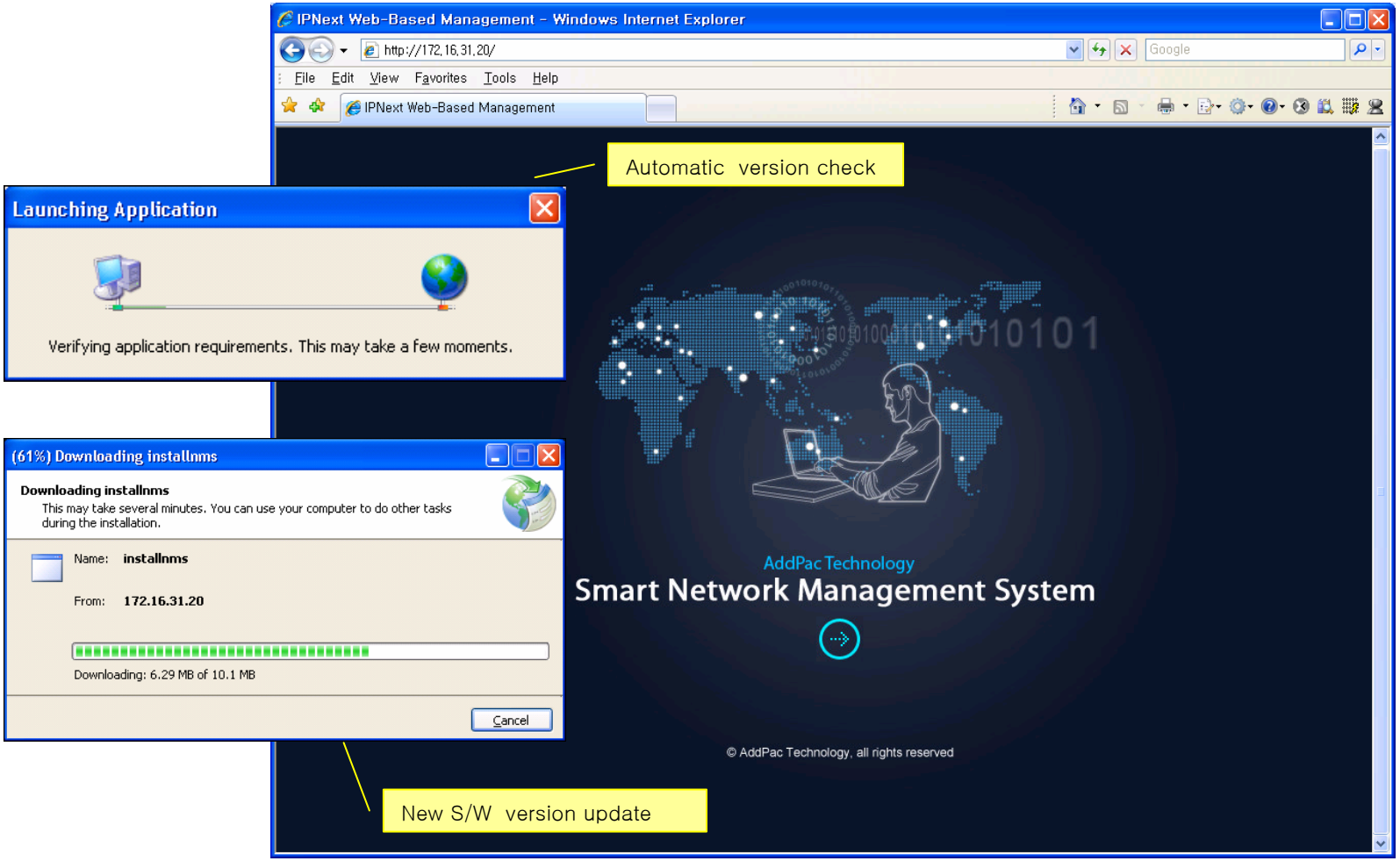
NMS Networking Diagram



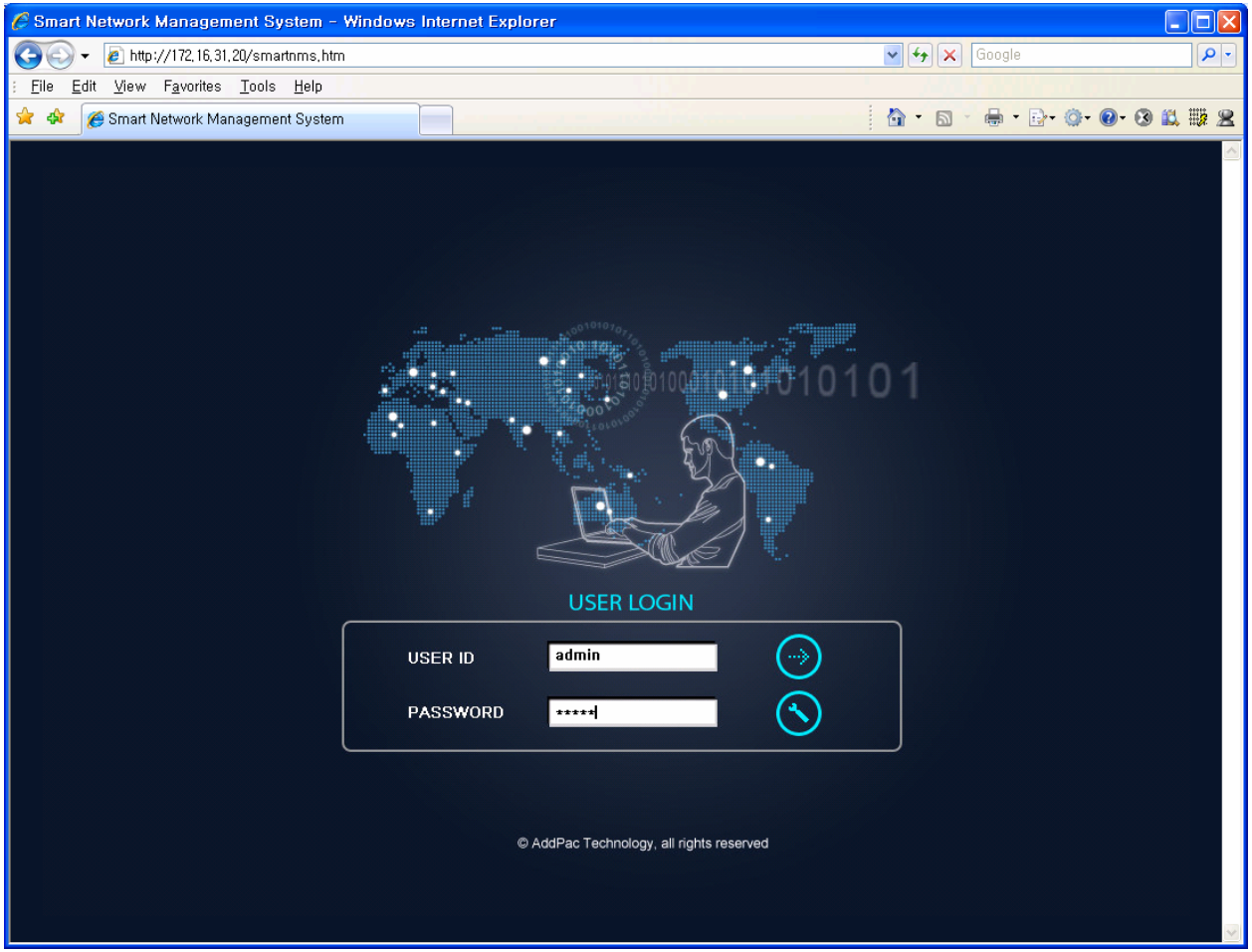
Web-based Management

- **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

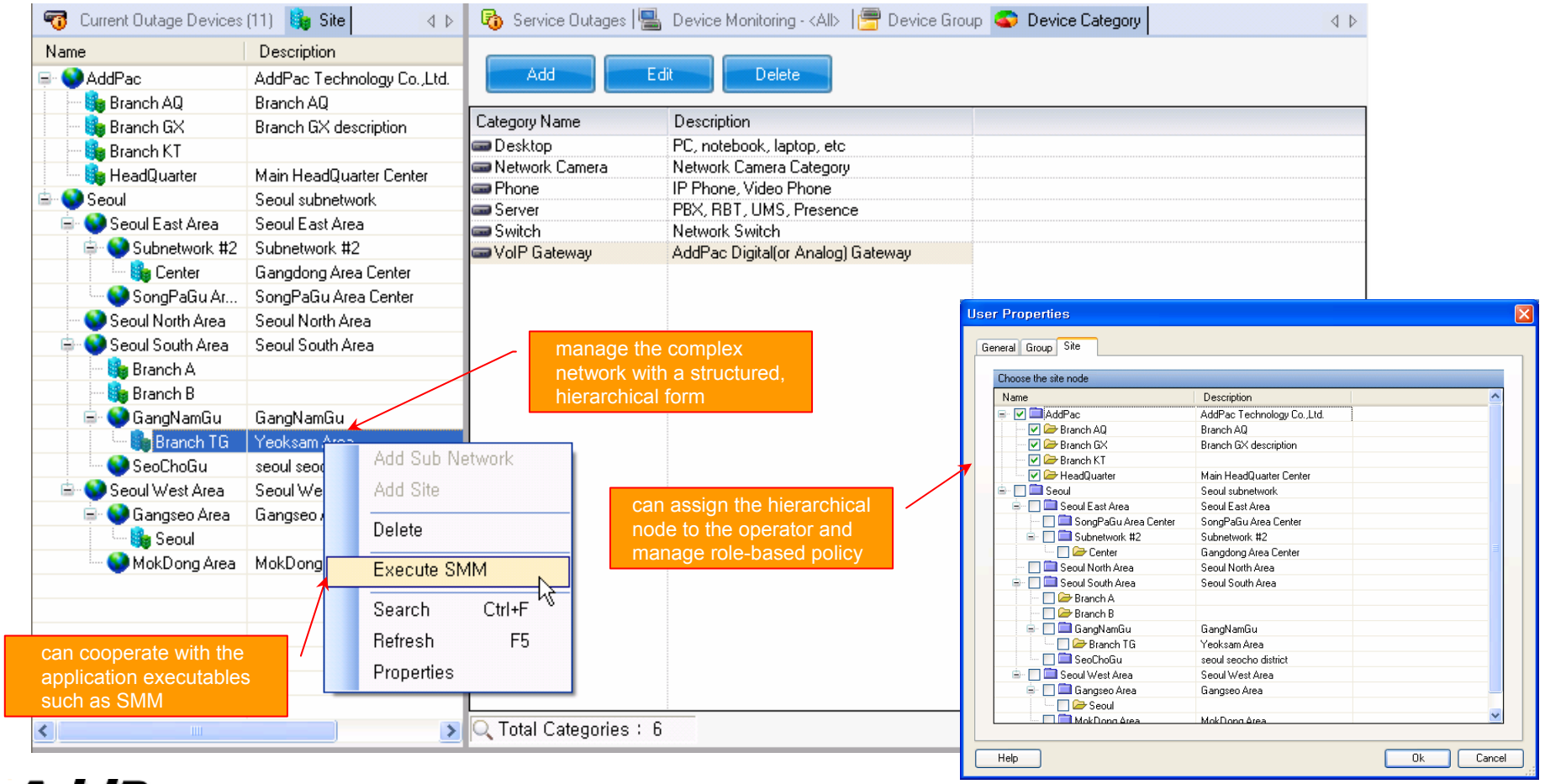


Web-based Login



Network Resource Management

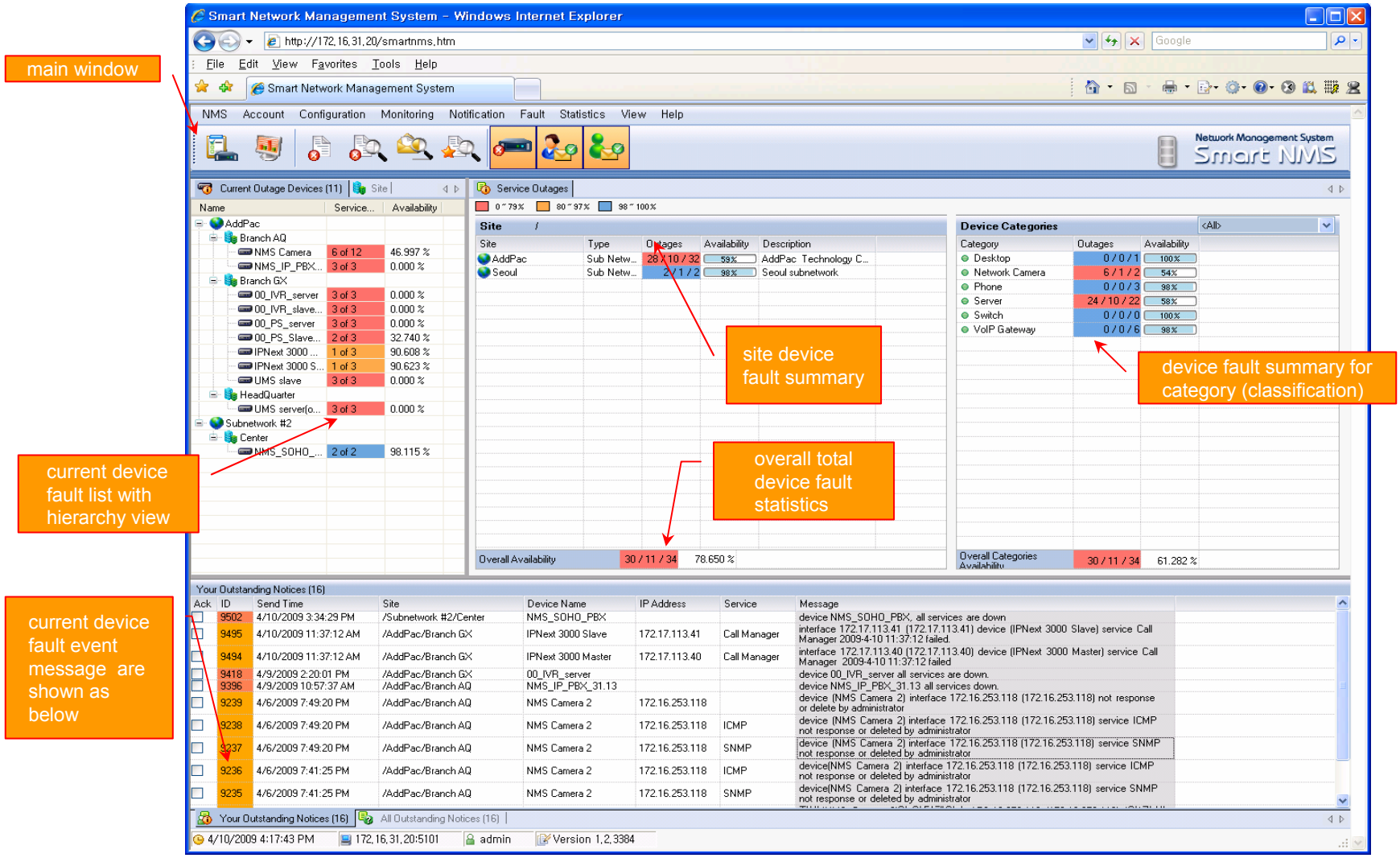
- Network resource management with hierarchical structure
- Role-based resource management for each administrator



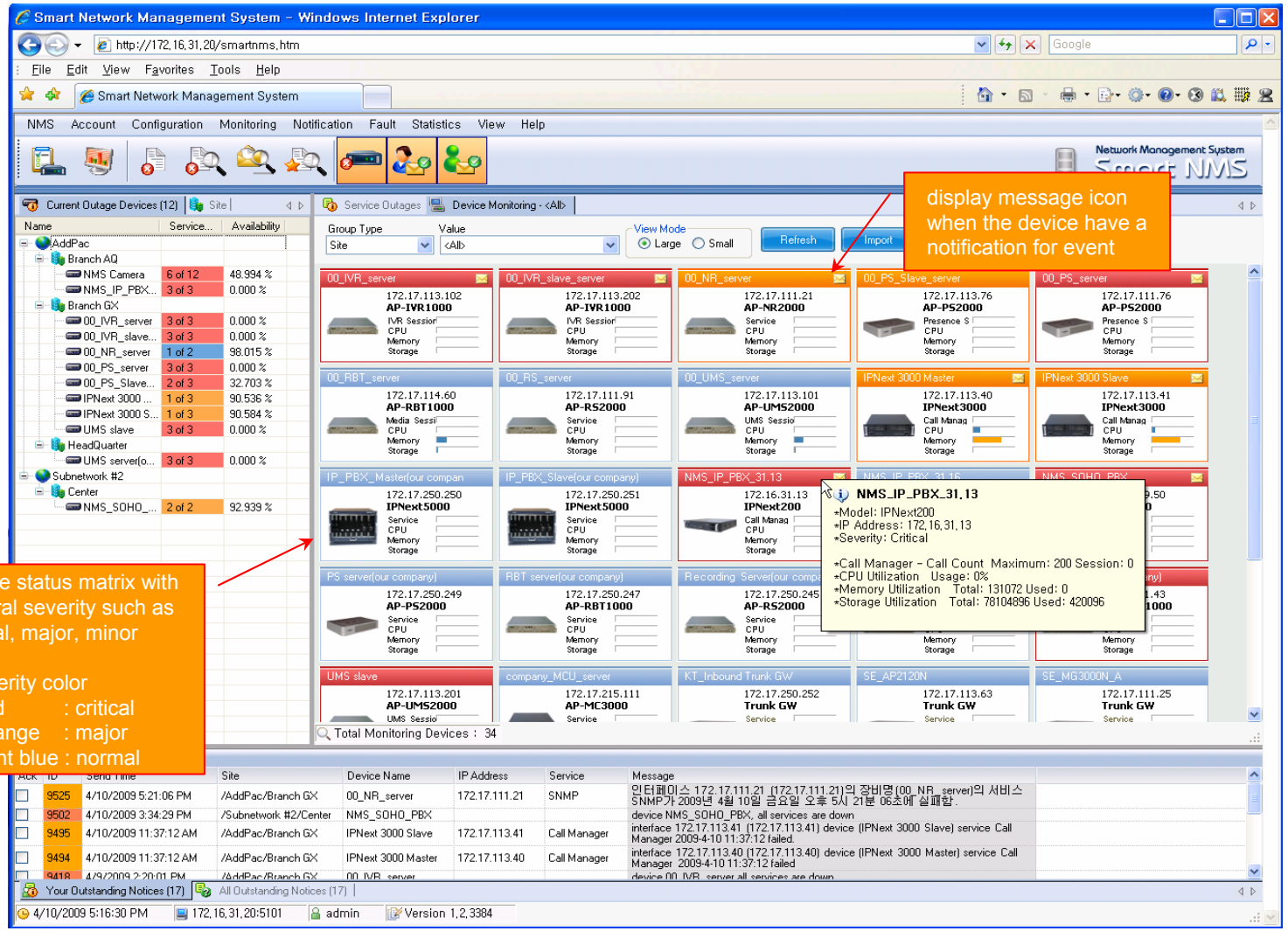
Device Fault Management

- 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

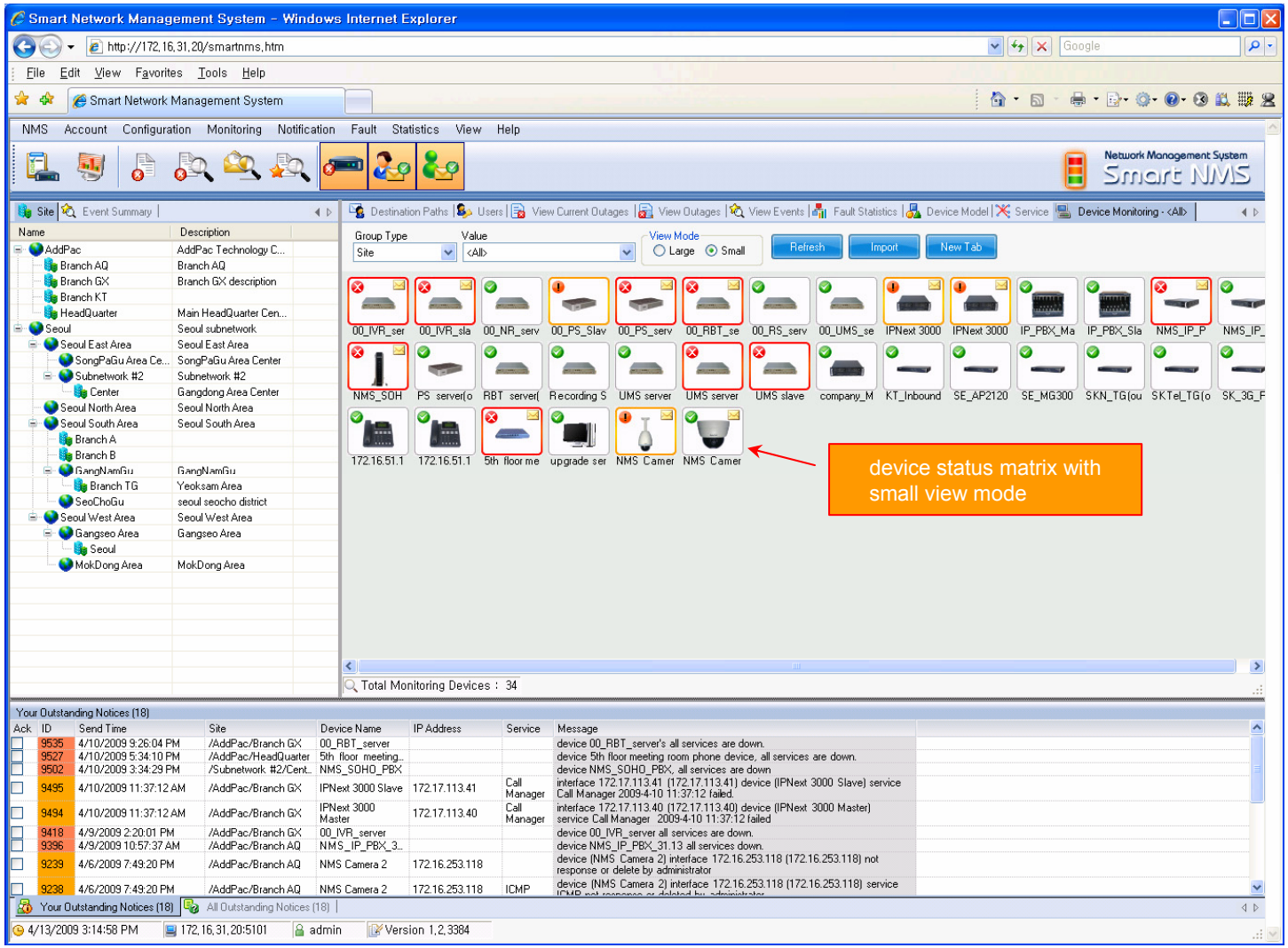
Device Fault Management



Device Fault Management



Device Fault Management



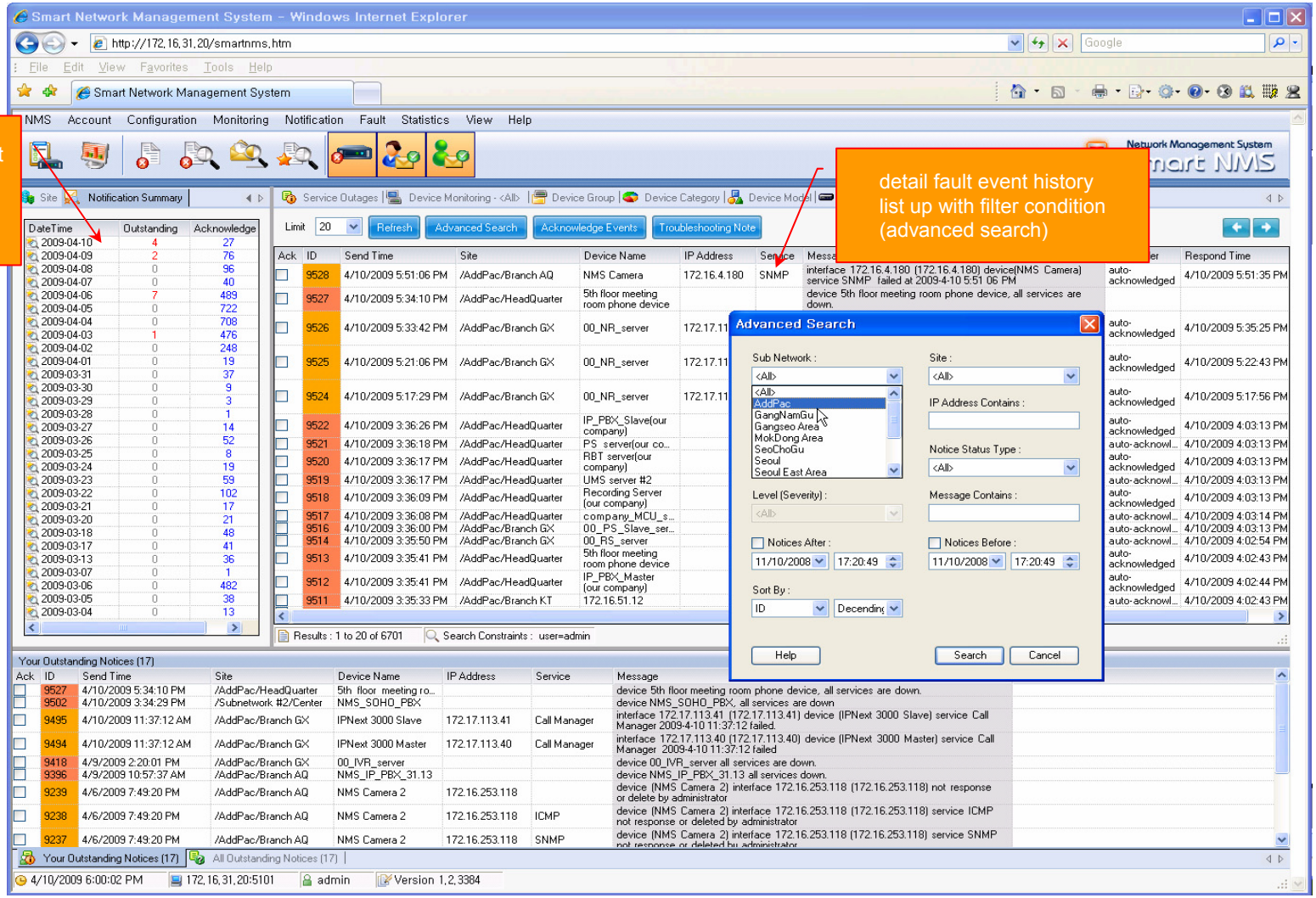
Device Fault History Management

- 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

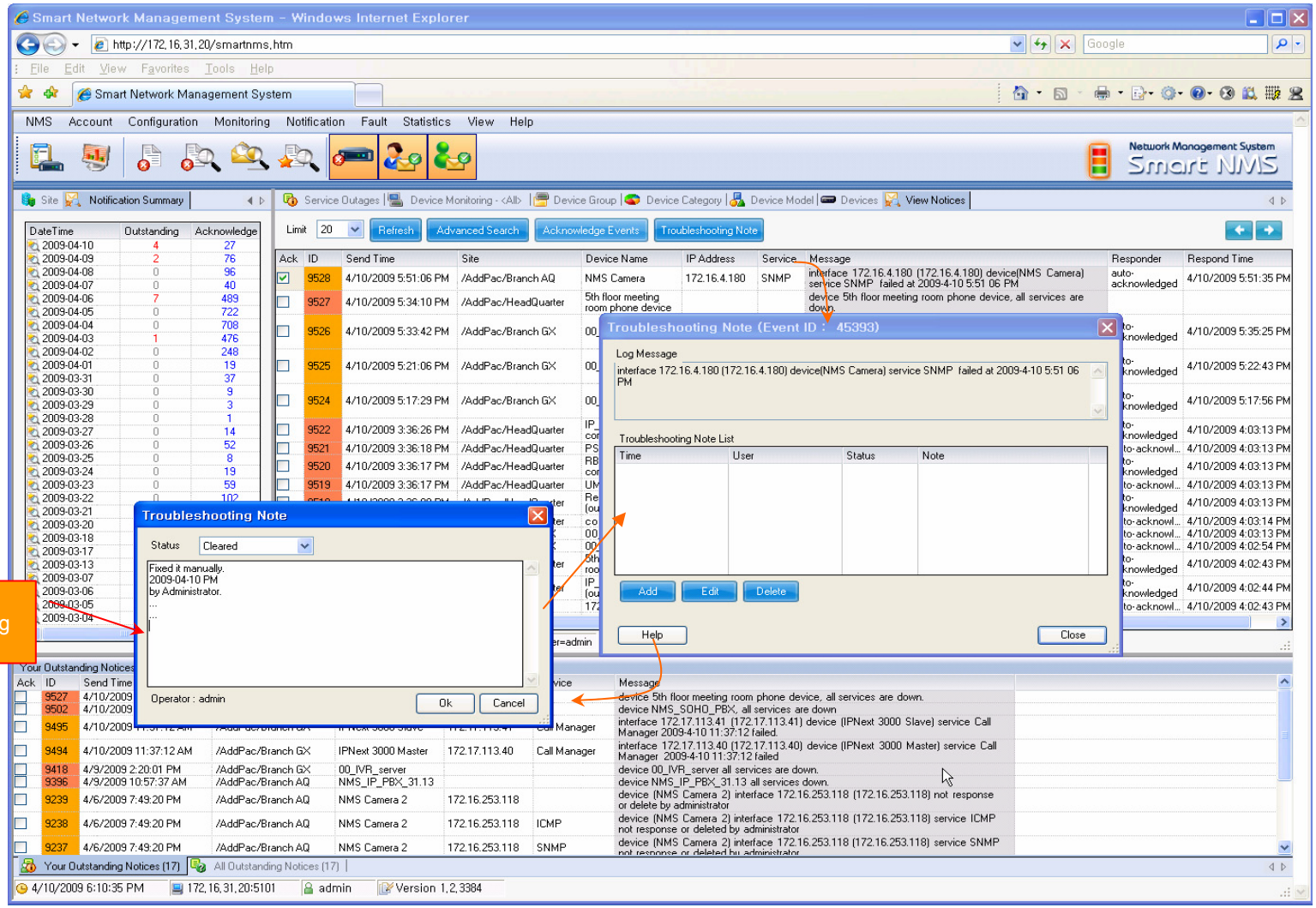
Device Fault History Management

daily fault event summary statistics information

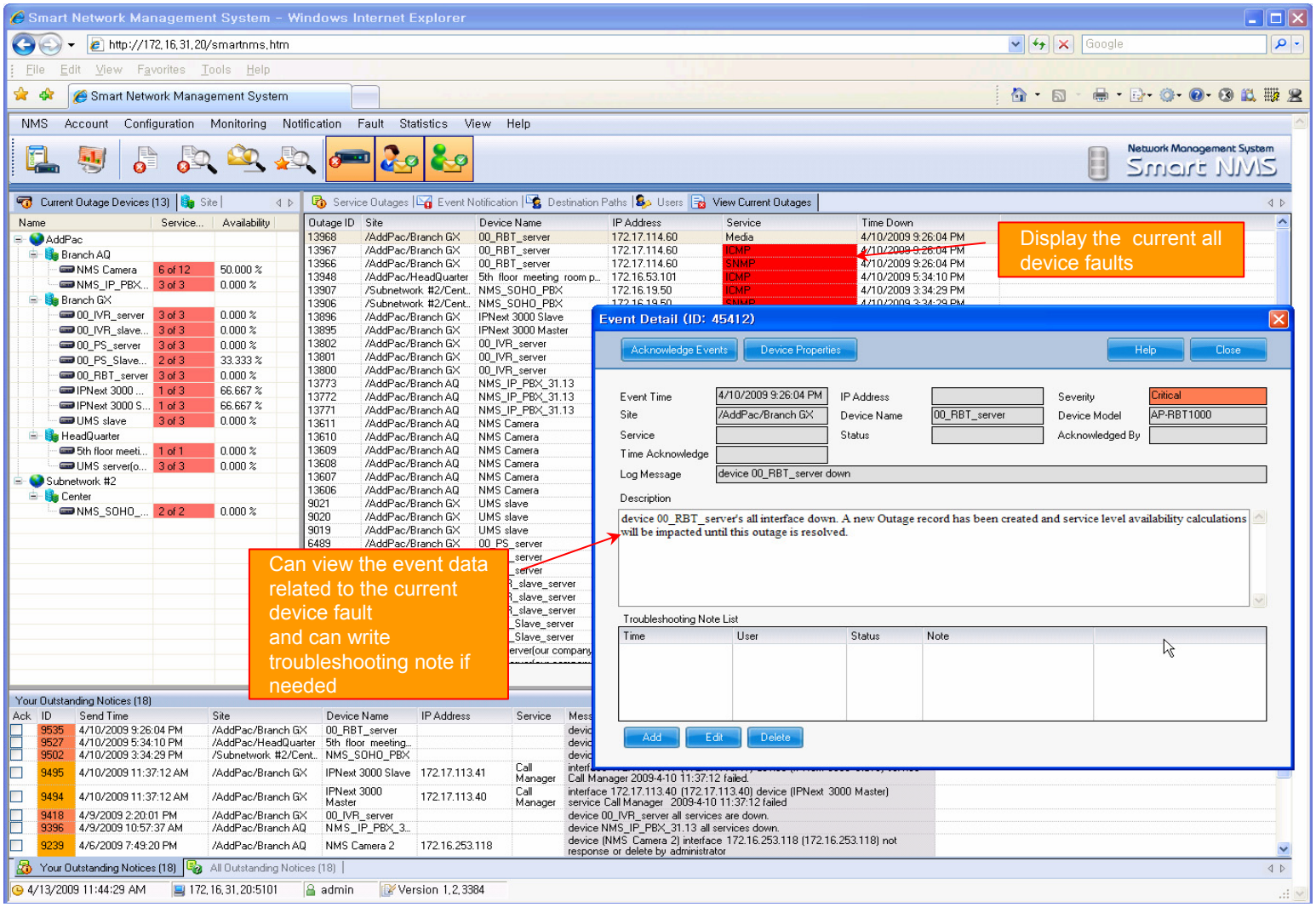
detail fault event history list up with filter condition (advanced search)



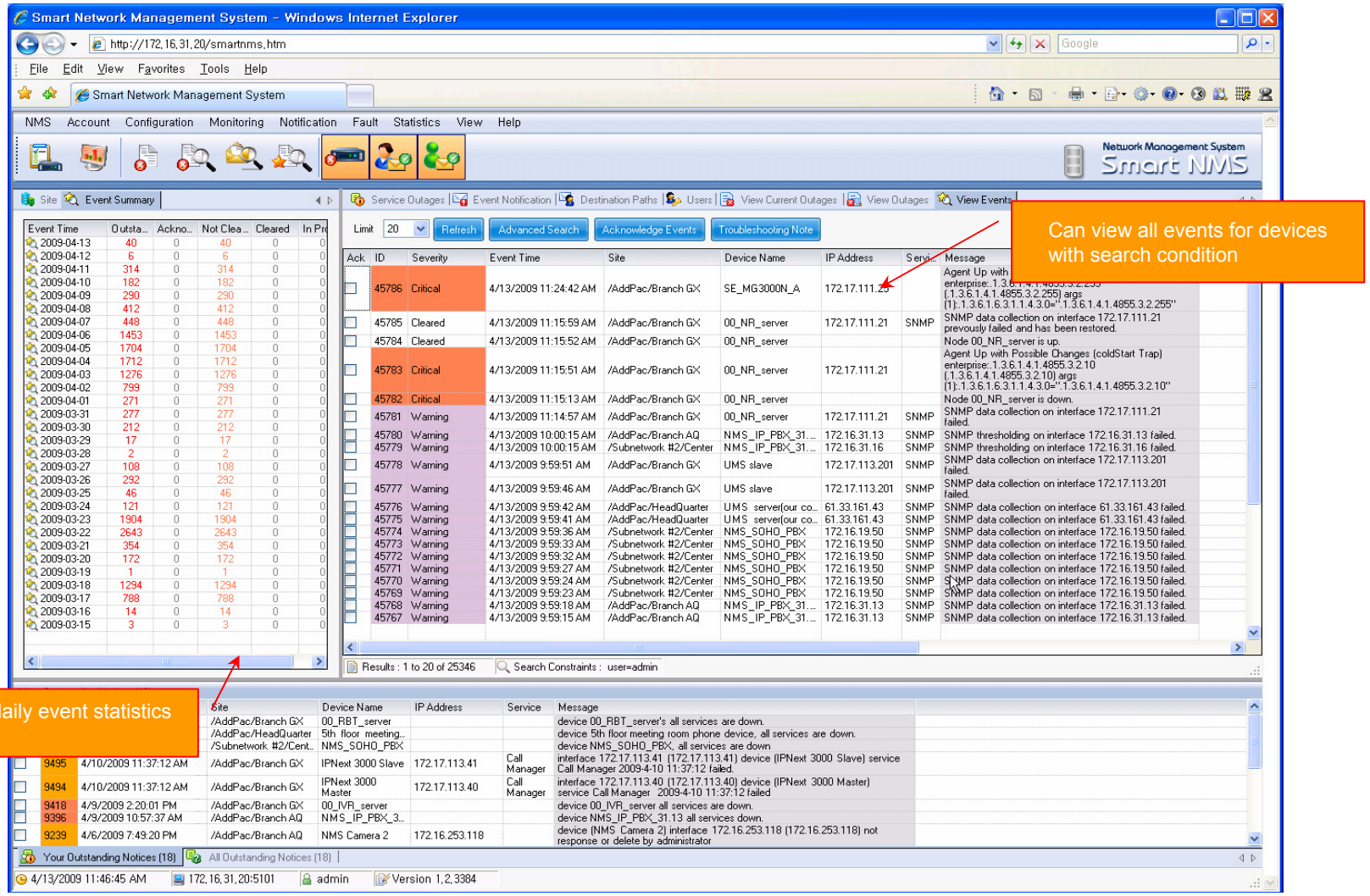
Device Fault History Management



Current Device Fault (Outage)



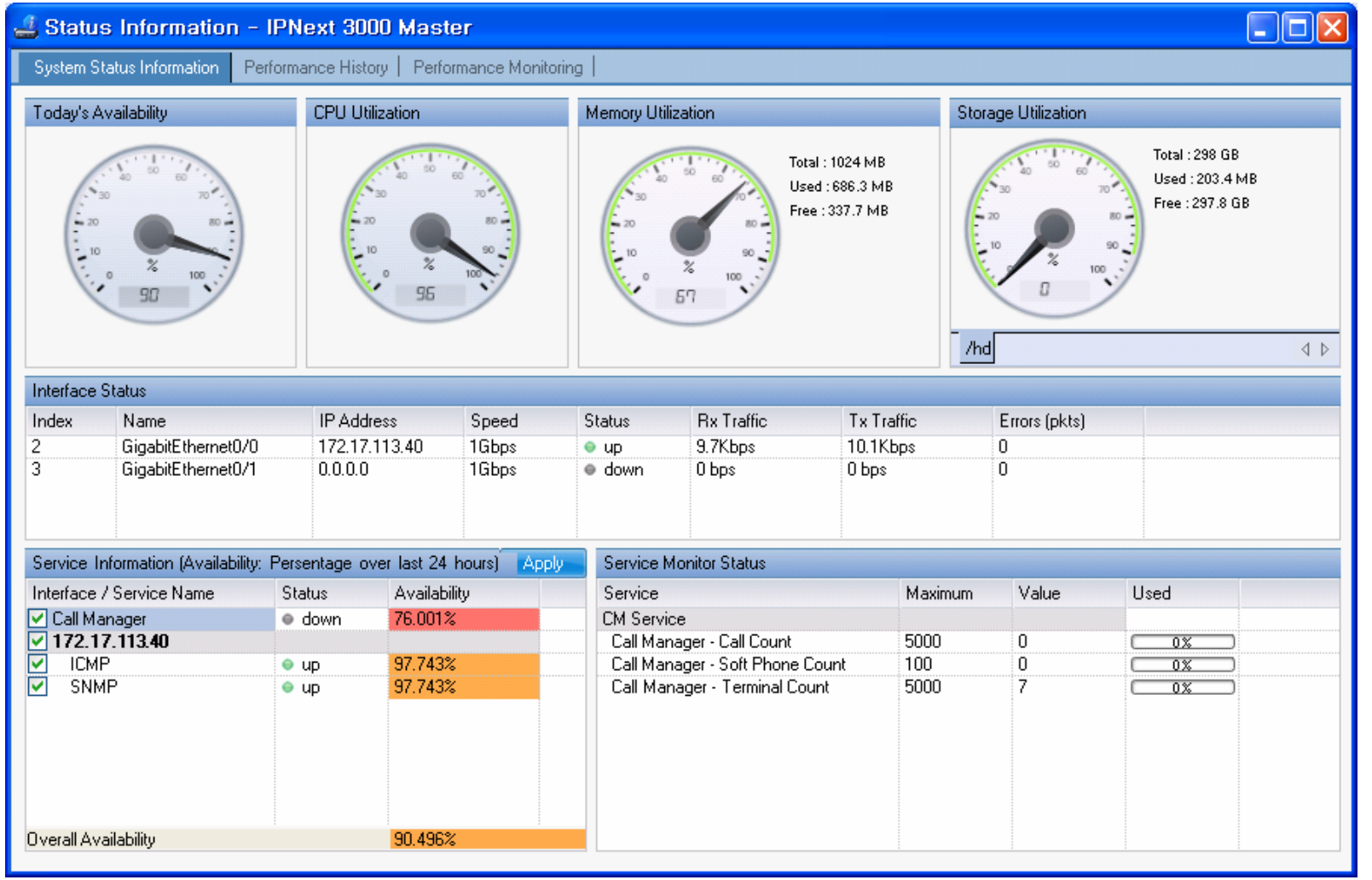
Device Event History



Device Status Information

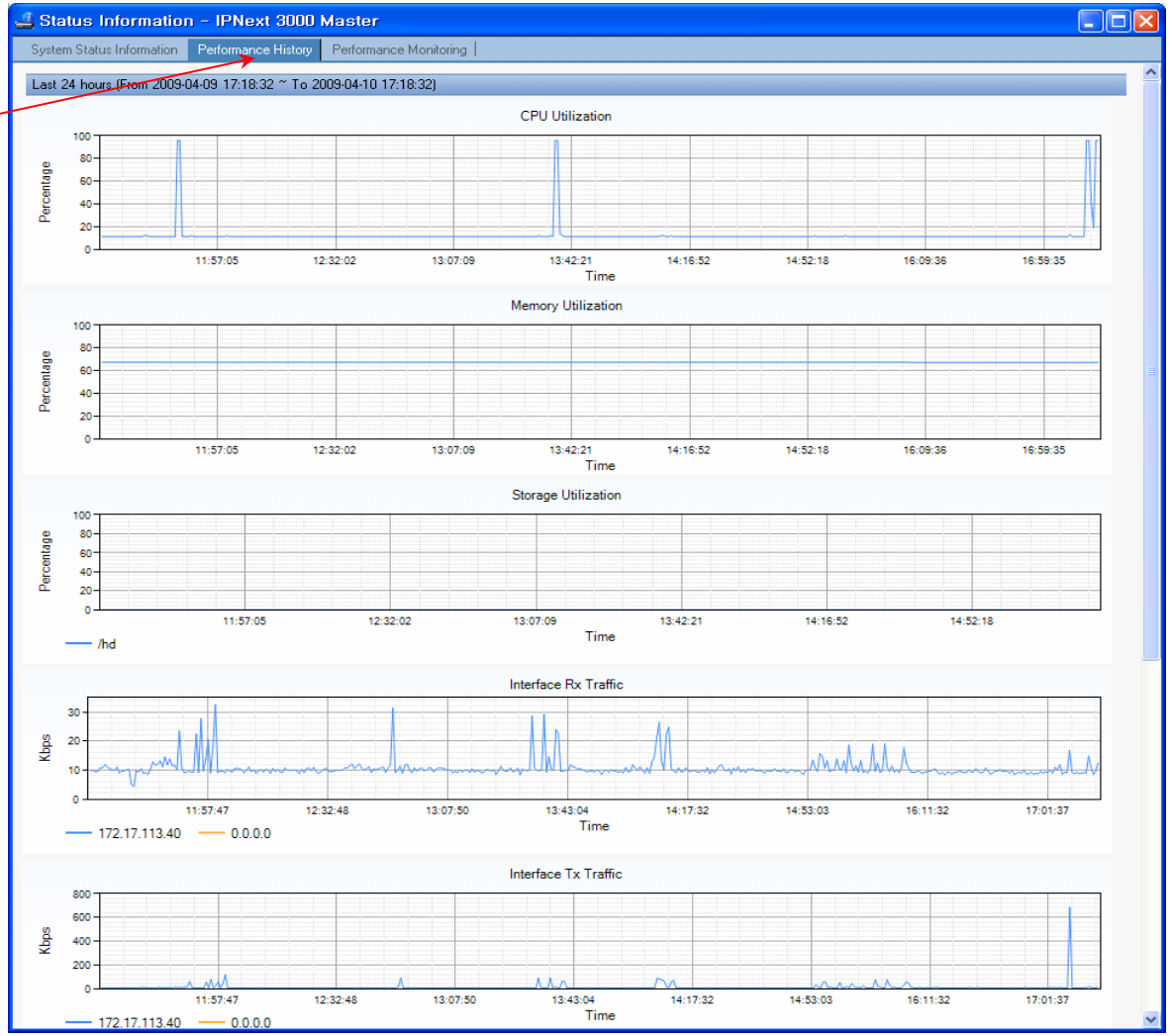
- System Performance Information (CPU, HDD, Memory,…)
- Provide device current service status (up/down)
- Provide device main status (max value vs current value)
- Display Graph Series with System Performance Information
- Monitor Main Status Flow with System Monitoring View

Device Status Information

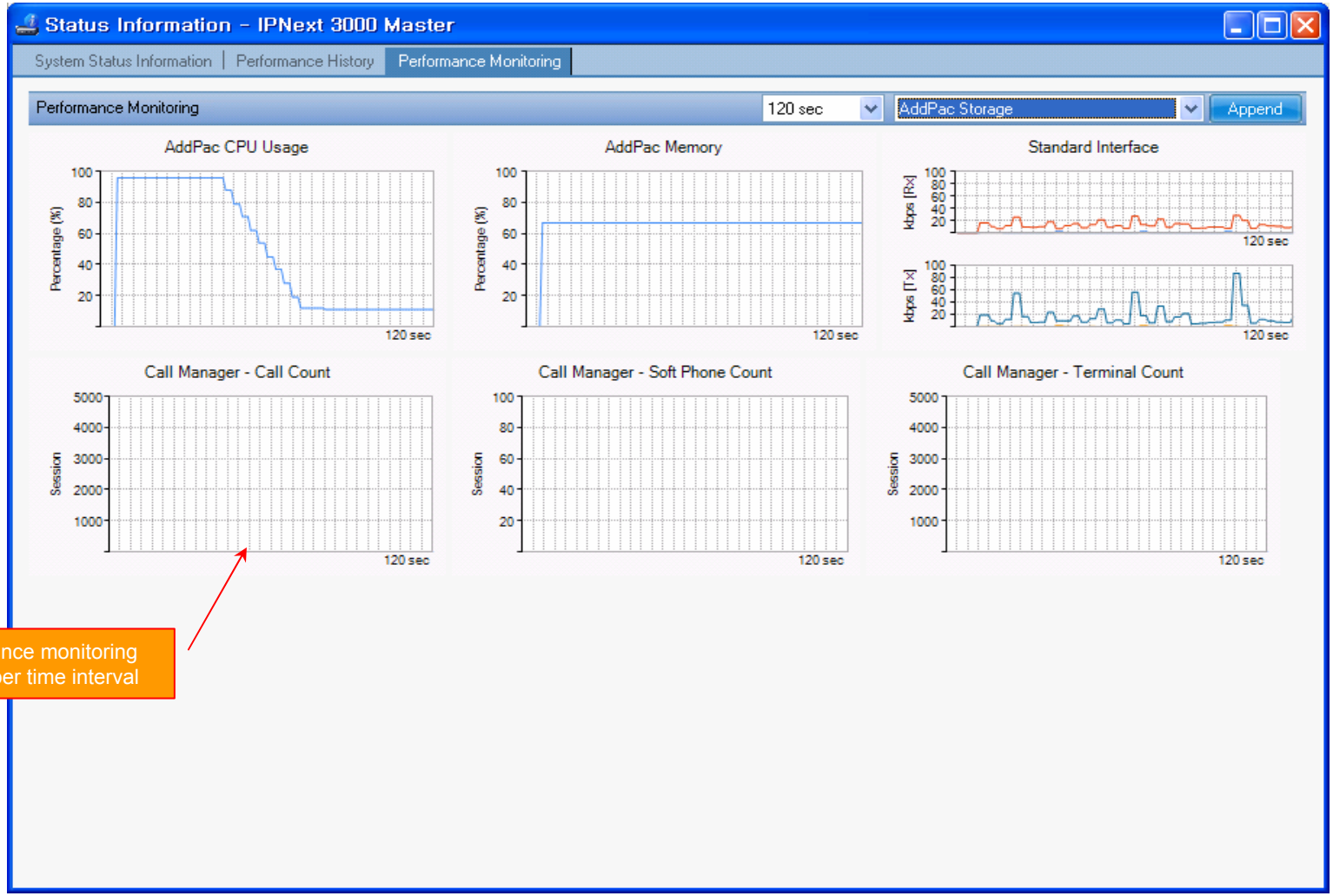


Device Status Information

performance analysis graph for last 24 hours



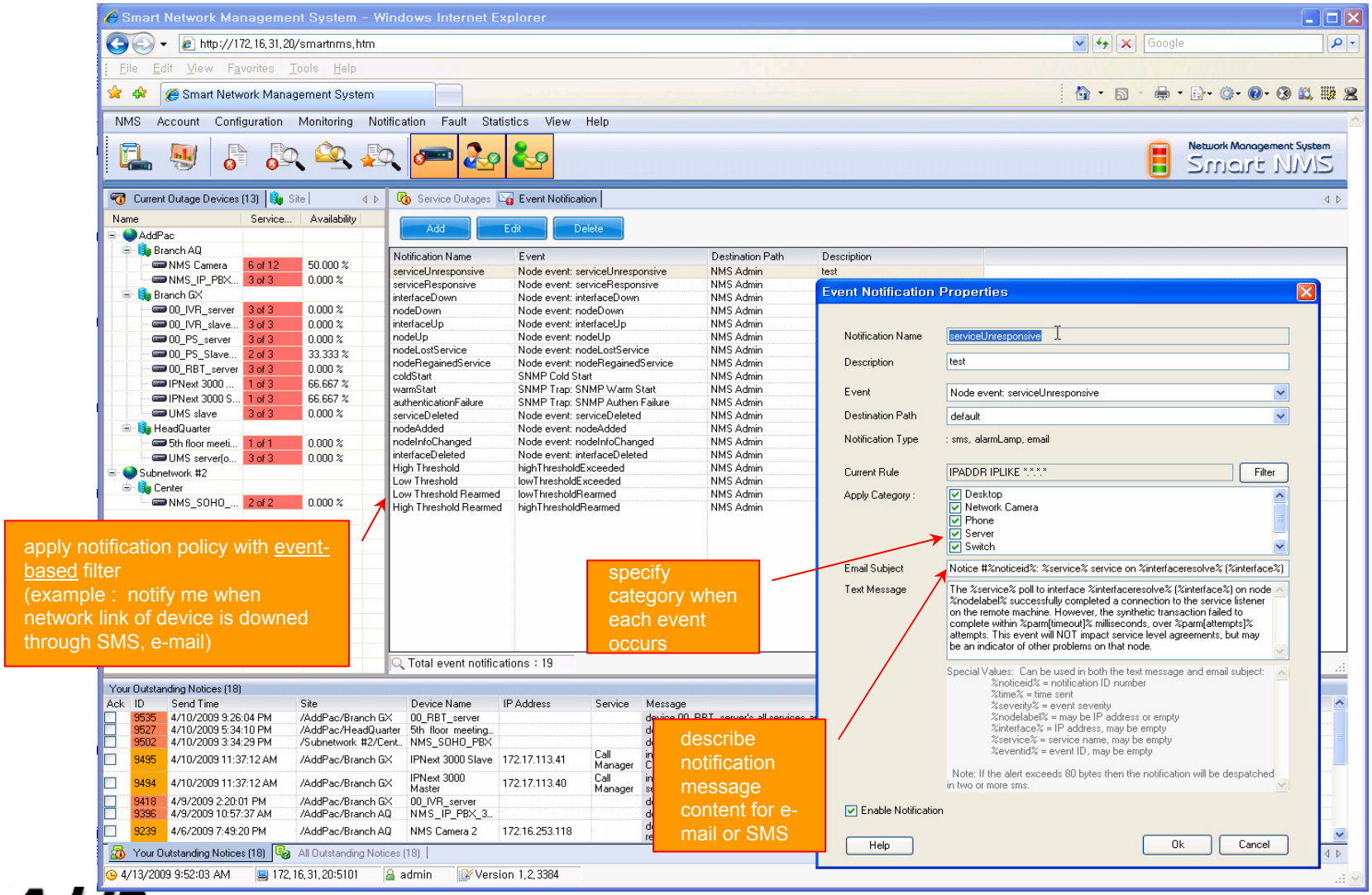
Device Status Information



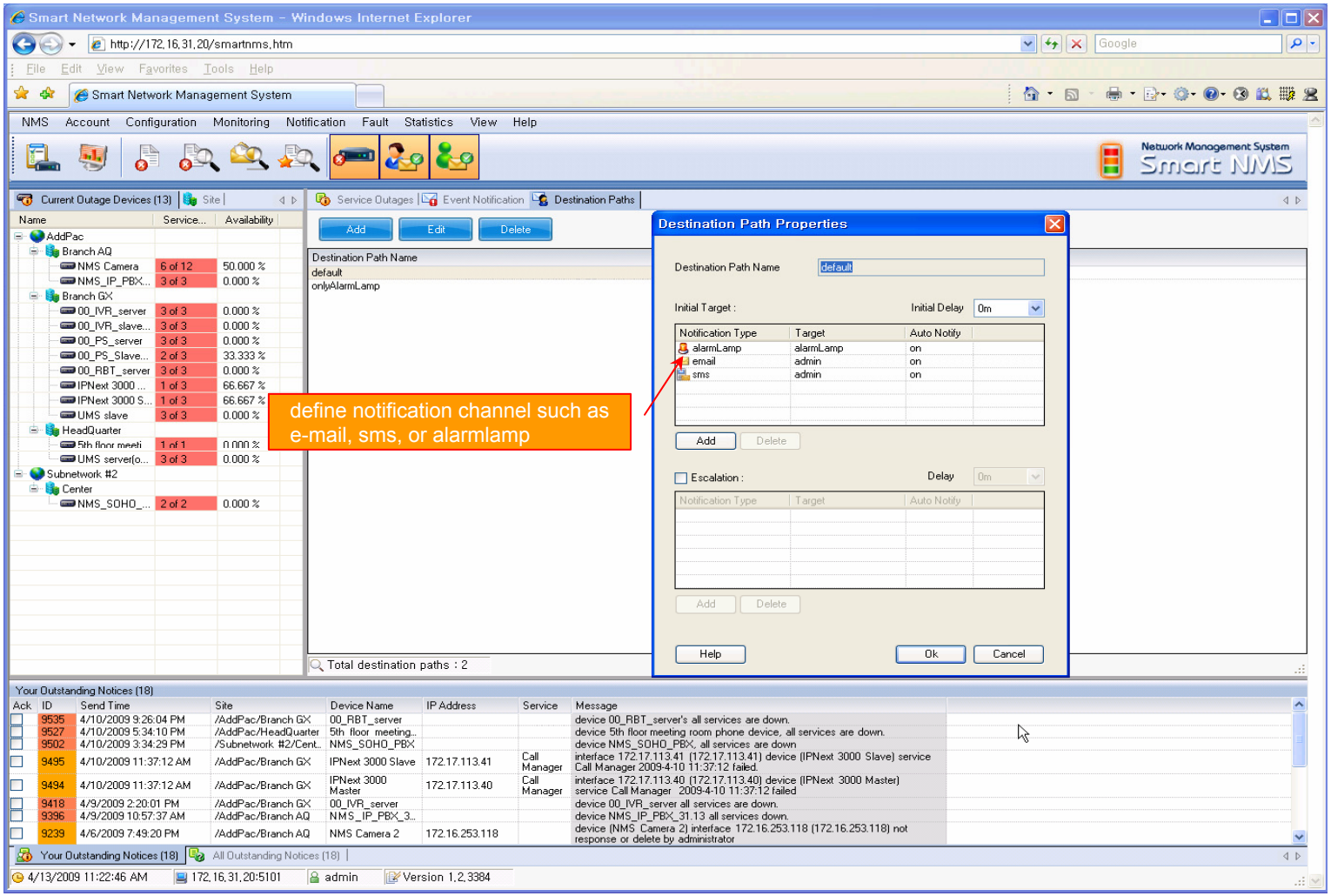
Notification Management

- Notify administrator for important event such as critical device fault when proper action needs
- Provide several notification 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

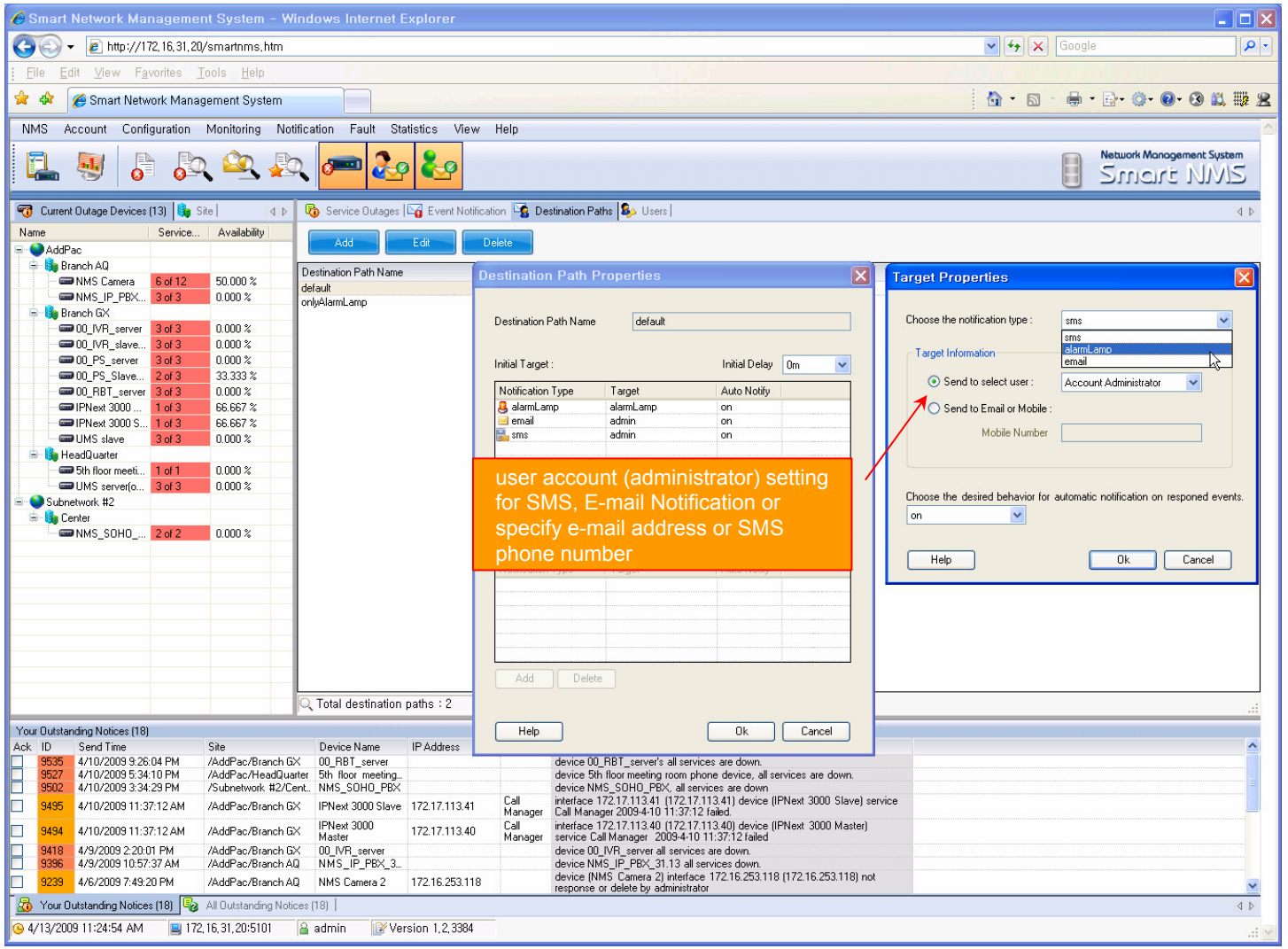
Event Notification Management



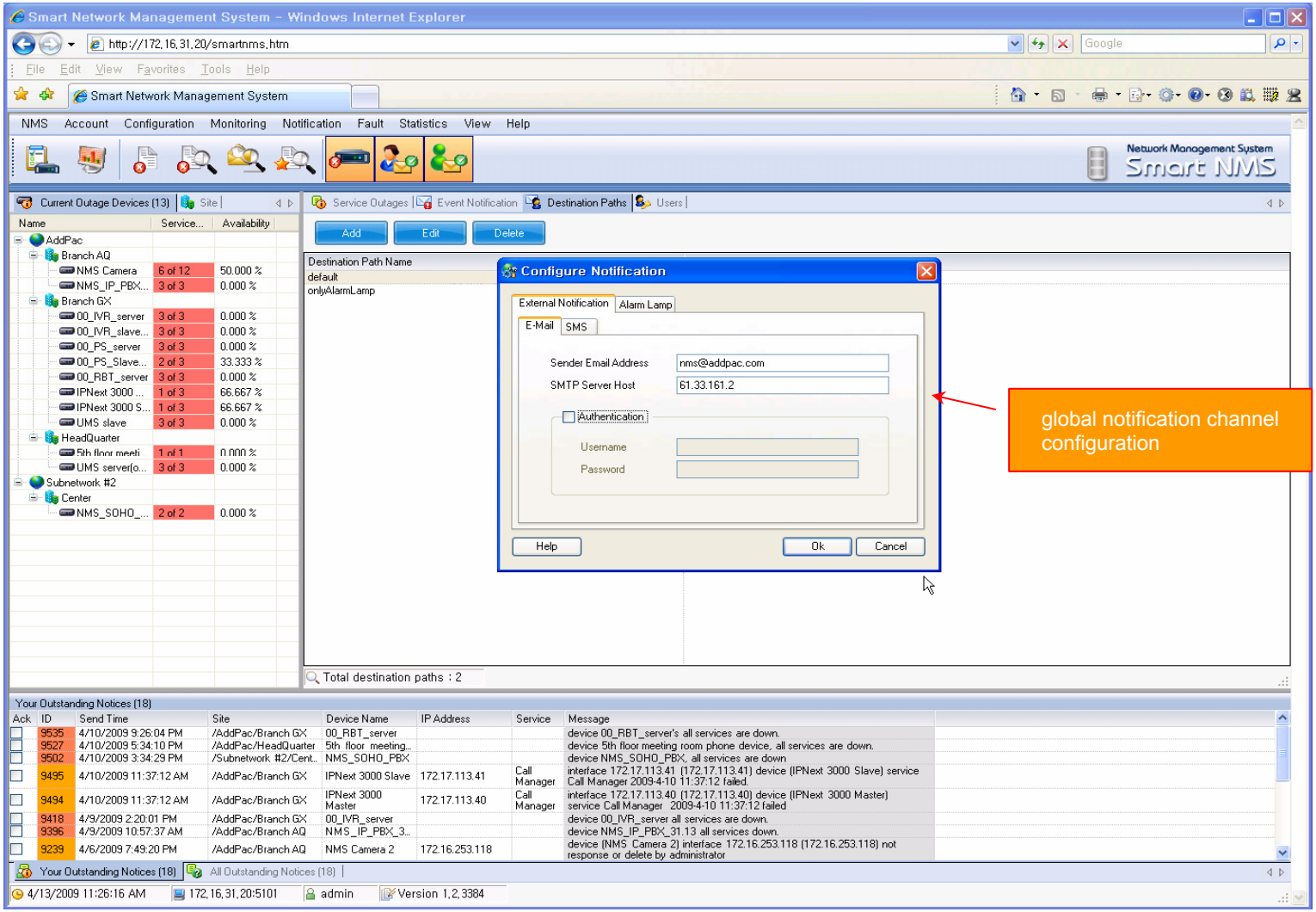
Event Notification Management



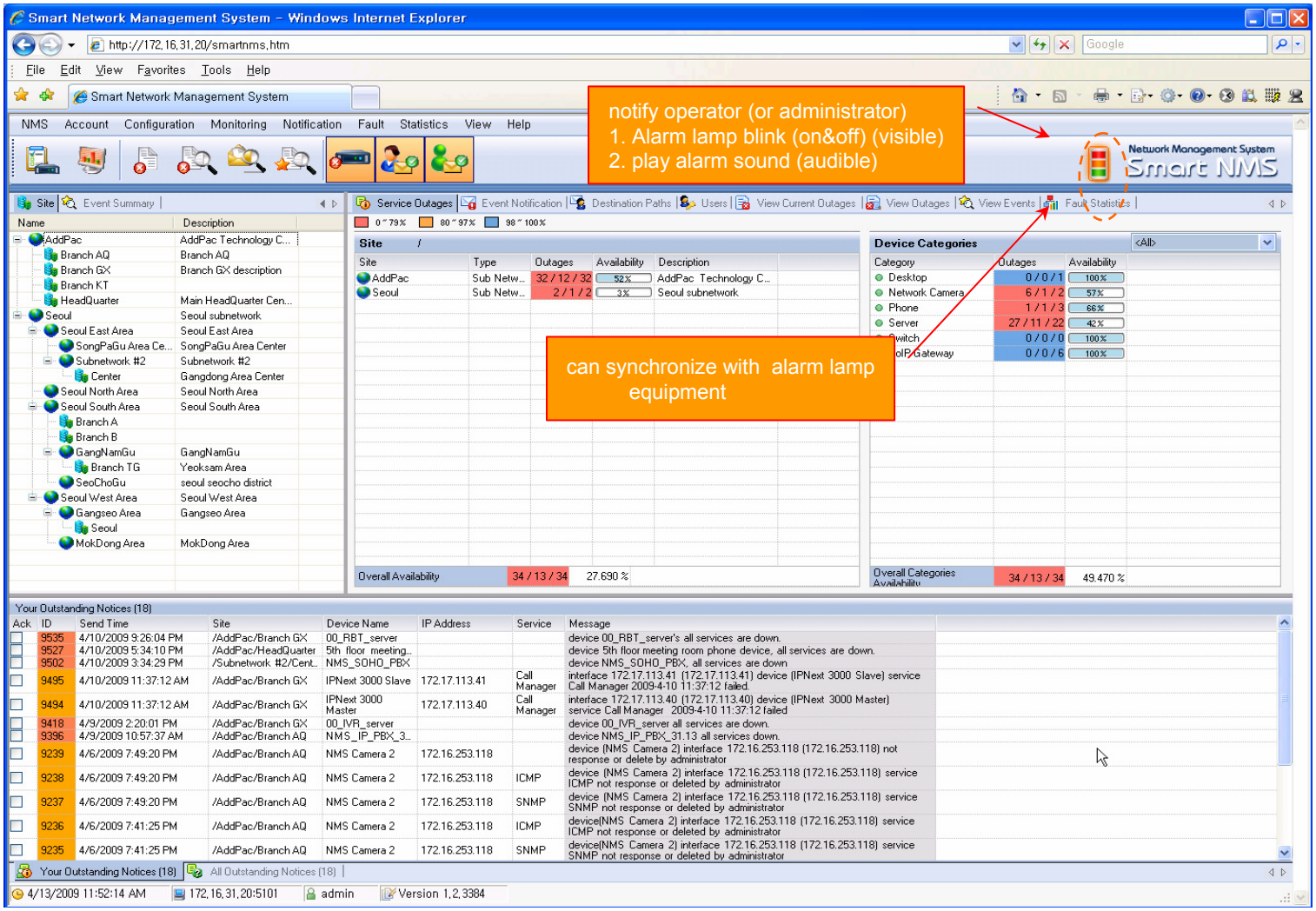
Event Notification Management



Configuration



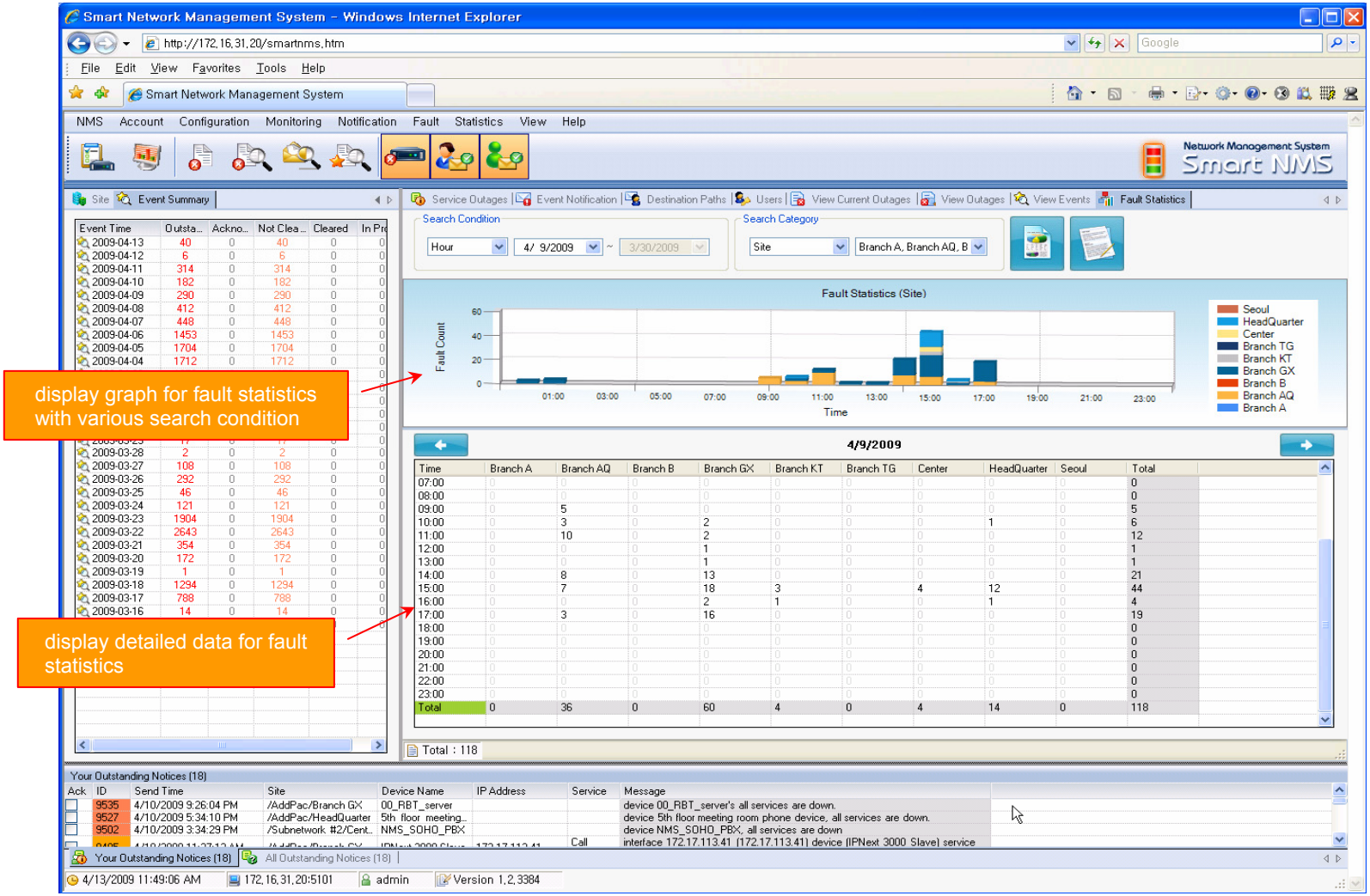
Audible & Visible Alarm



Fault Statistics

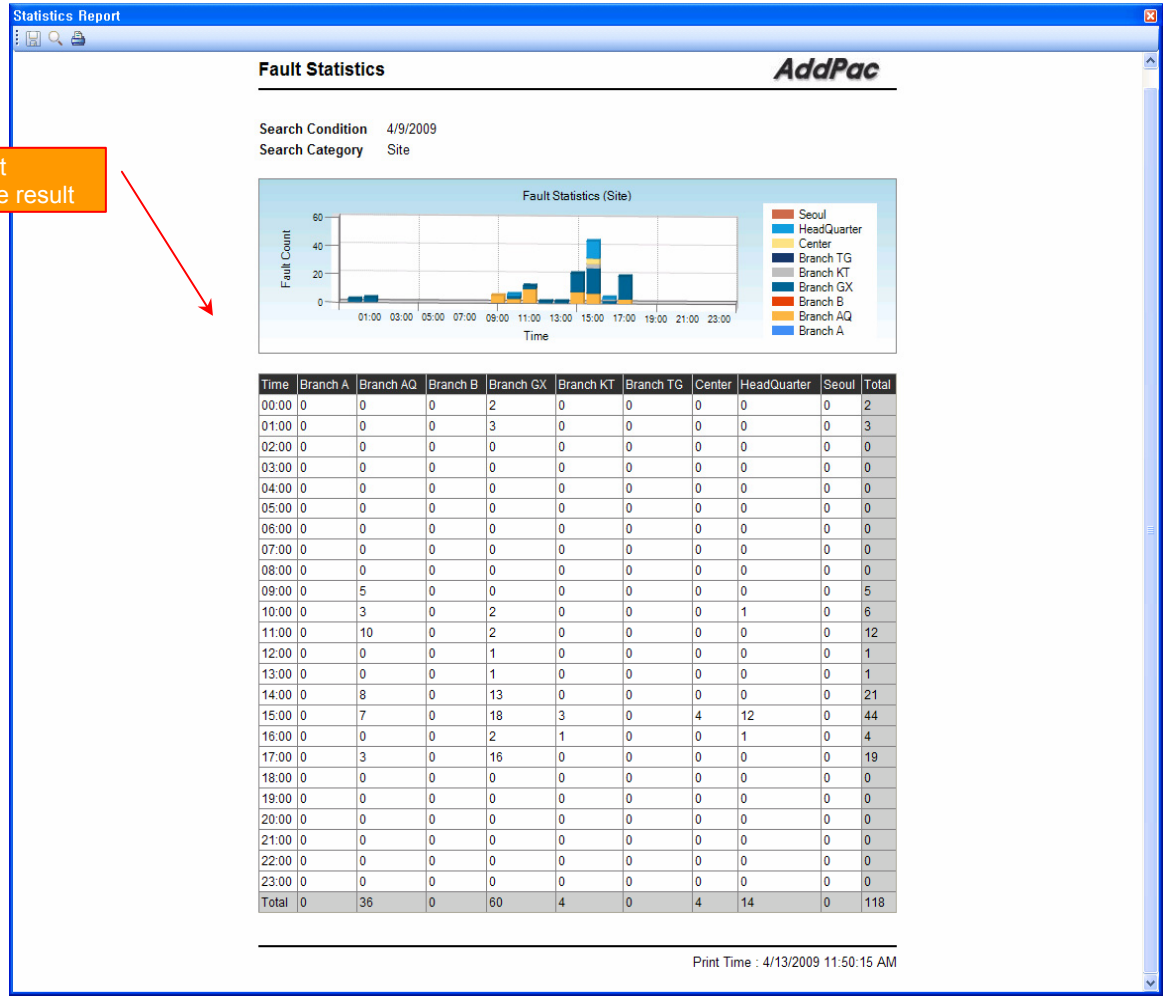
- analyze for a fault event with graph and detailed list data
- Report form generation and print out for statistics result

Fault Statistics



Fault Statistics – Report Generation

report generation for fault statistics and print out the result



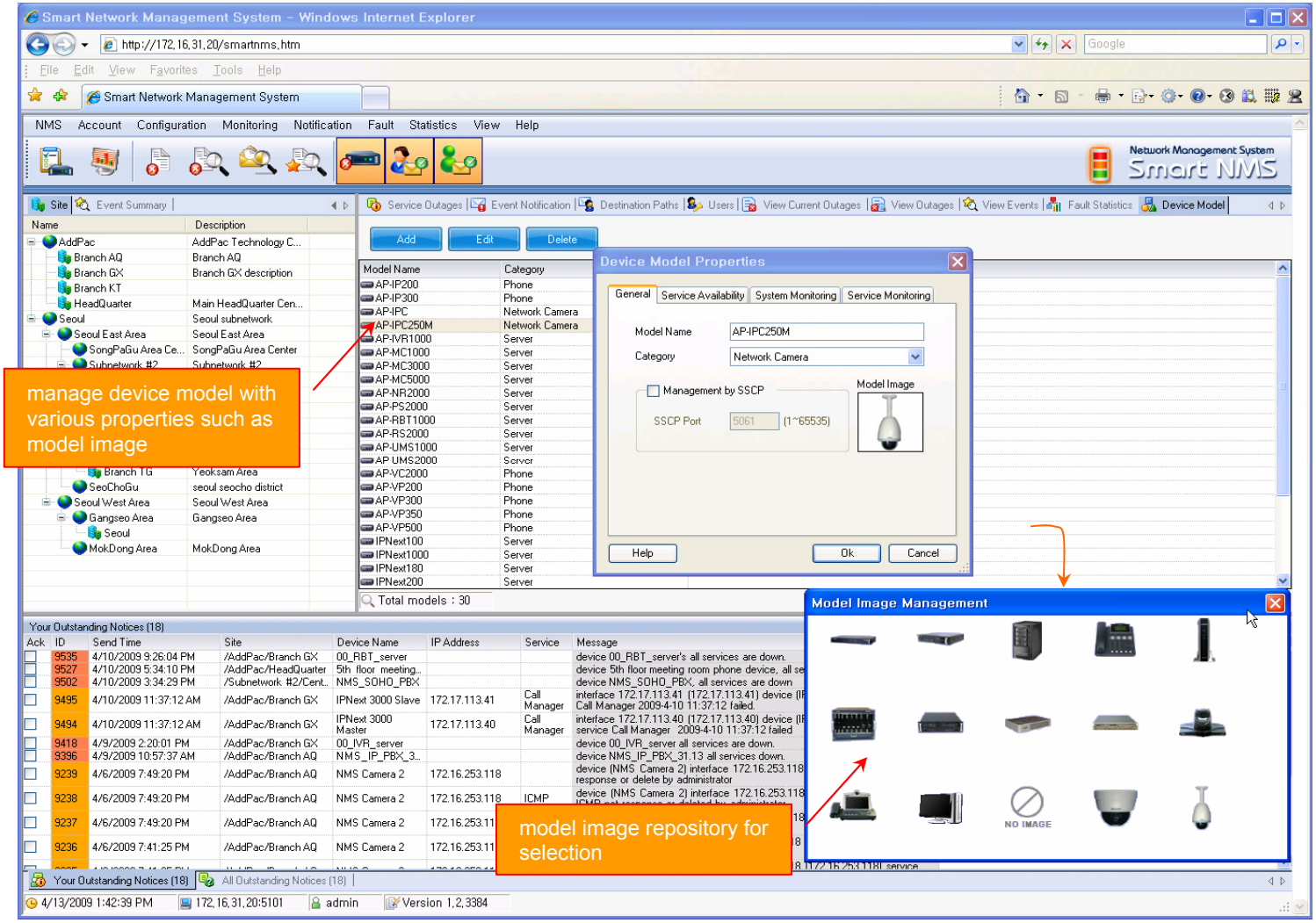
Time	Branch A	Branch AQ	Branch B	Branch GX	Branch KT	Branch TG	Center	HeadQuarter	Seoul	Total
00:00	0	0	0	2	0	0	0	0	0	2
01:00	0	0	0	3	0	0	0	0	0	3
02:00	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0
06:00	0	0	0	0	0	0	0	0	0	0
07:00	0	0	0	0	0	0	0	0	0	0
08:00	0	0	0	0	0	0	0	0	0	0
09:00	0	5	0	0	0	0	0	0	0	5
10:00	0	3	0	2	0	0	0	1	0	6
11:00	0	10	0	2	0	0	0	0	0	12
12:00	0	0	0	1	0	0	0	0	0	1
13:00	0	0	0	1	0	0	0	0	0	1
14:00	0	8	0	13	0	0	0	0	0	21
15:00	0	7	0	18	3	0	4	12	0	44
16:00	0	0	0	2	1	0	0	1	0	4
17:00	0	3	0	16	0	0	0	0	0	19
18:00	0	0	0	0	0	0	0	0	0	0
19:00	0	0	0	0	0	0	0	0	0	0
20:00	0	0	0	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0	0	0	0
Total	0	36	0	60	4	0	4	14	0	118

Print Time : 4/13/2009 11:50:15 AM

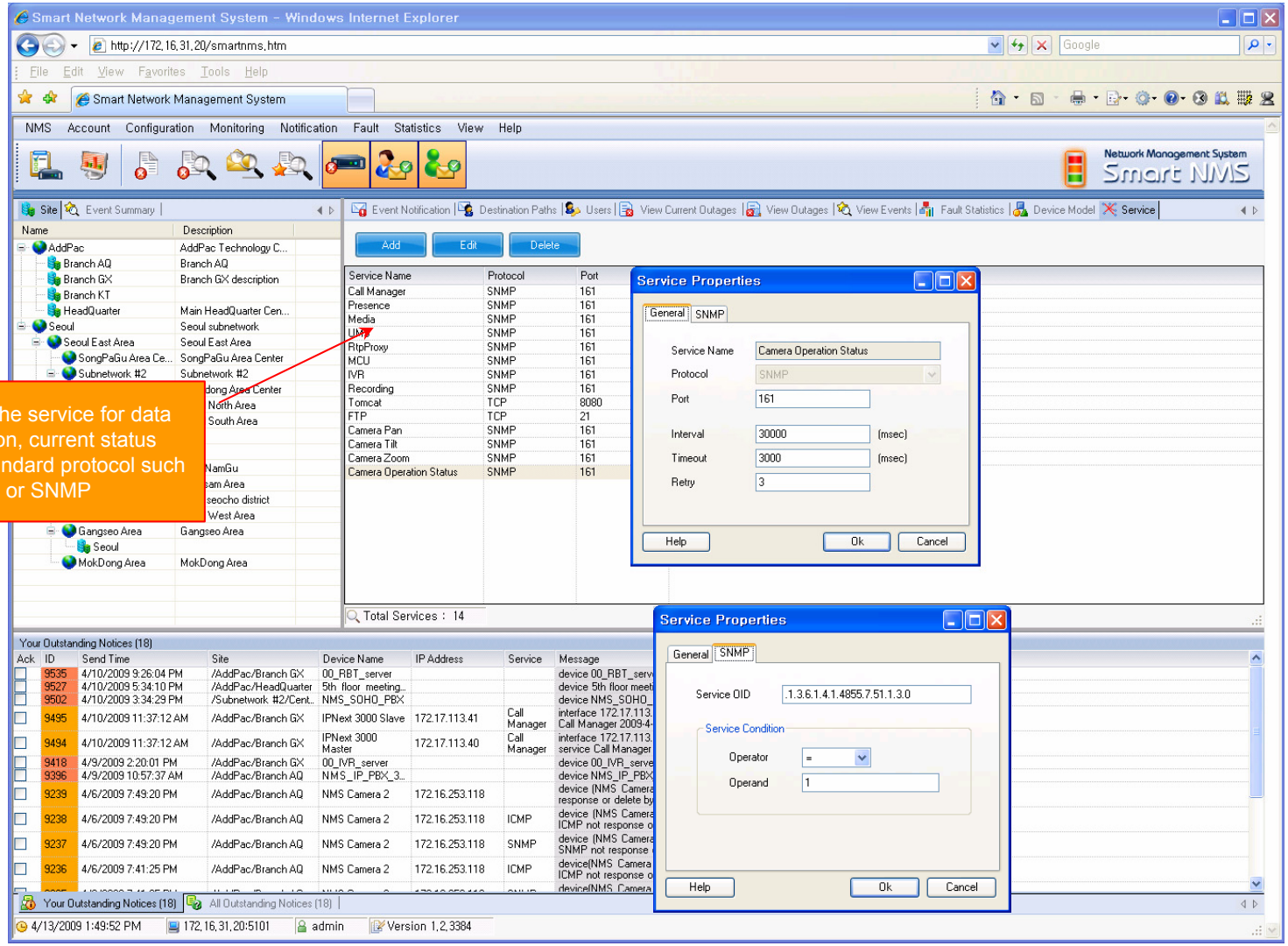
Model & Service Management

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

Device Model Management



Service Definition



Thank you!

AddPac Technology Co., Ltd.
Sales and Marketing

Phone +82.2.568.3848 (KOREA)
FAX +82.2.568.3847 (KOREA)
E-mail : sales@addpac.com