

Smart GSM NMS

Smart Network Management System

Smart GSM NMS Overview

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Contents

- ? System Requirement
- ? Smart NMS Networking Diagram
- ? Web-based Management
- ? Network Resource Management
- ? Device Fault Management
- ? Device Fault History Management
- ? Device Status Information
- ? GSM Gateway Management
 - ? System Status
 - ? Network Interface
 - ? GSM, VoIP Interface
 - ? Call History
 - ? Performance History & Monitoring
- ? Notification Management
- ? Fault Statistics
- ? Call Statistics for GSM
- ? Model & Service Management



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System Requirement

NMS Server

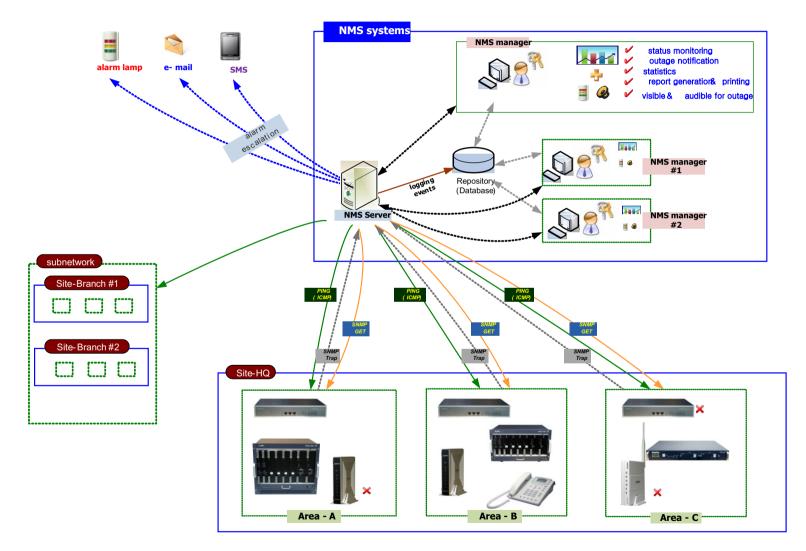
- ? OS : RHEL (Redhat Enterprise Linux) 5.0 or higher
- ? CPU: Quad-Core 2.0 GHz / 1333MHz FSB 2x4 MB cache
- ? Physical Memory : 4 GB
- ? HDD : 300 G
- ? JRE (Java Runtime Environment) 1.5.1 or Higher
- ? Database : PostgreSQL 8.1.11

NMS Client

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



NMS Networking Diagram



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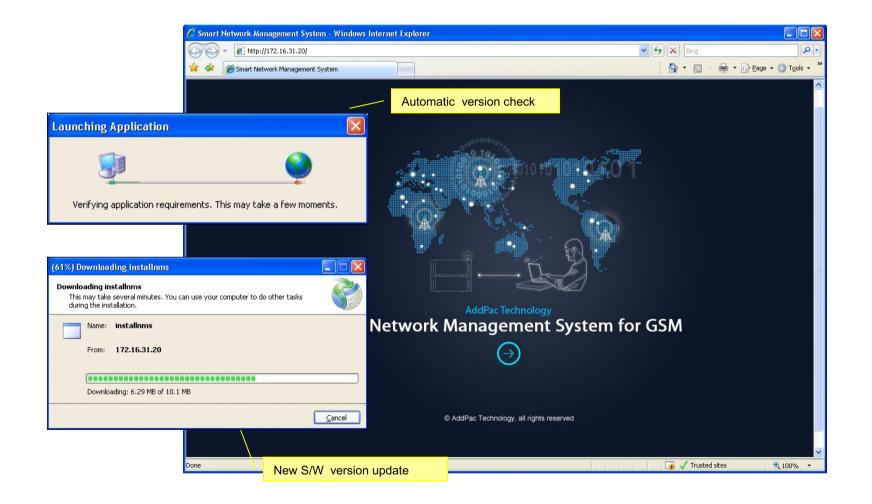
Web-based Management

- ? Easy Access via Web browser
 - ? Microsoft Internet Explorer 6.0 or higher compatible

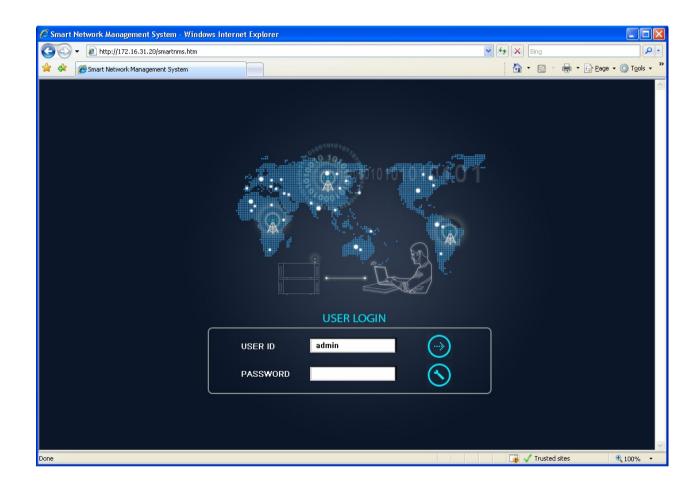
? Version Control

- ? Automatic version check
- ? New version software download feature
- ? UI control
 - ? User friendly GUI management

Version Control



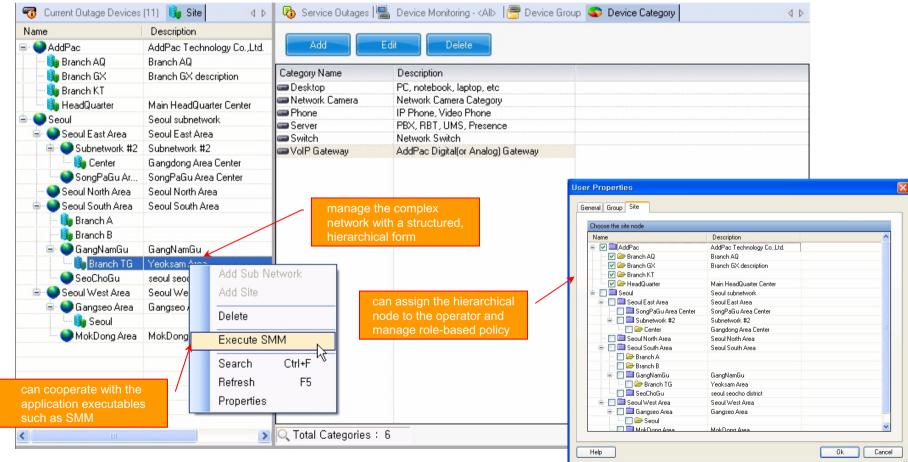
Web-based Login



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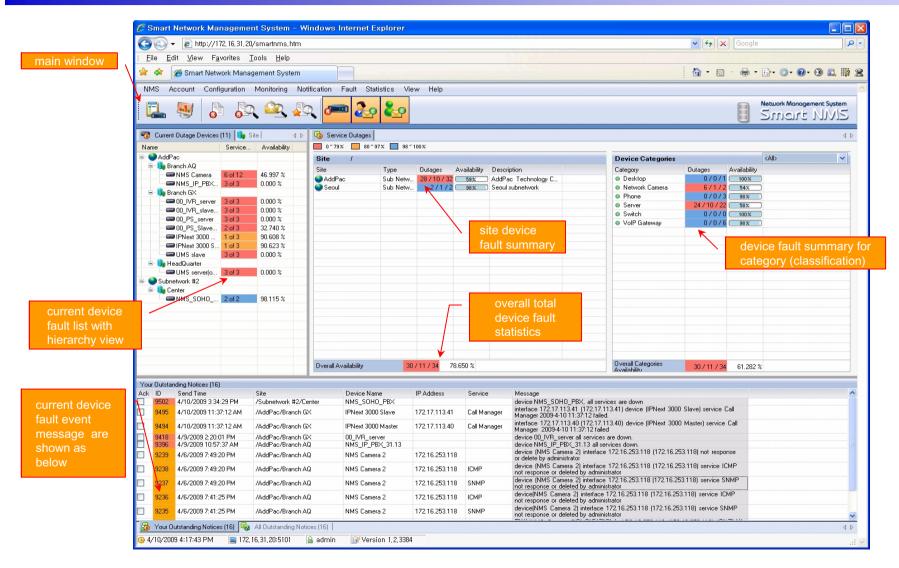
Network Resource Management

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

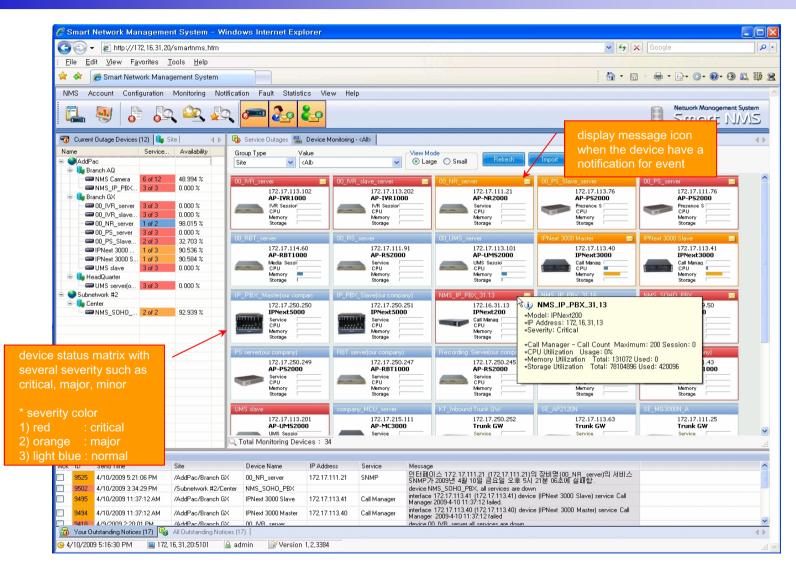


AddPac

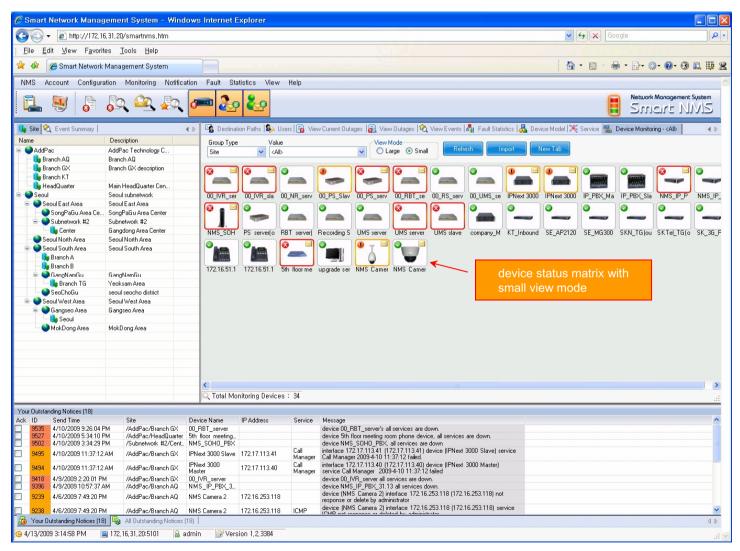
- ? Centralized fault summary information in main window
- ? Display current fault device through tree view
- ? Notify administrator with detailed fault information
- ? Provide device availability information for 24hrs









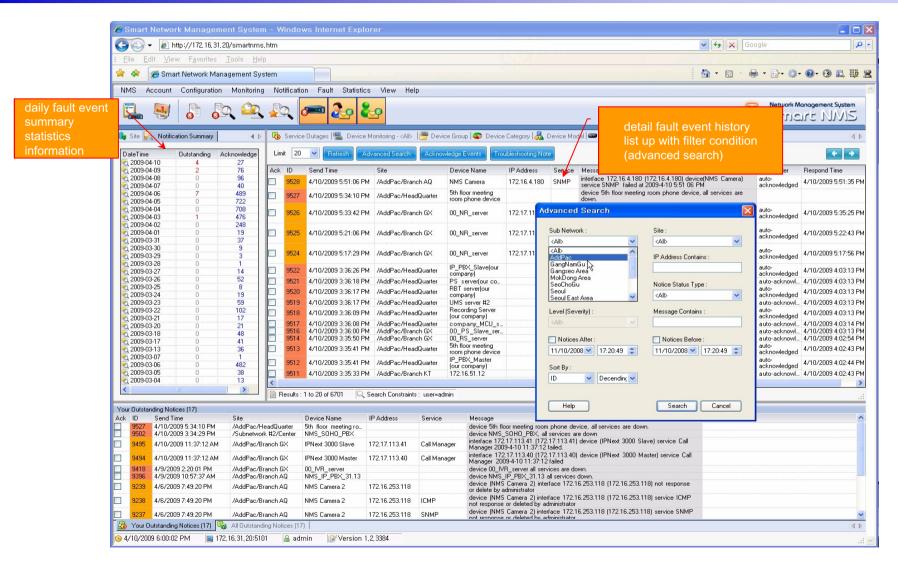




Device Fault History Management

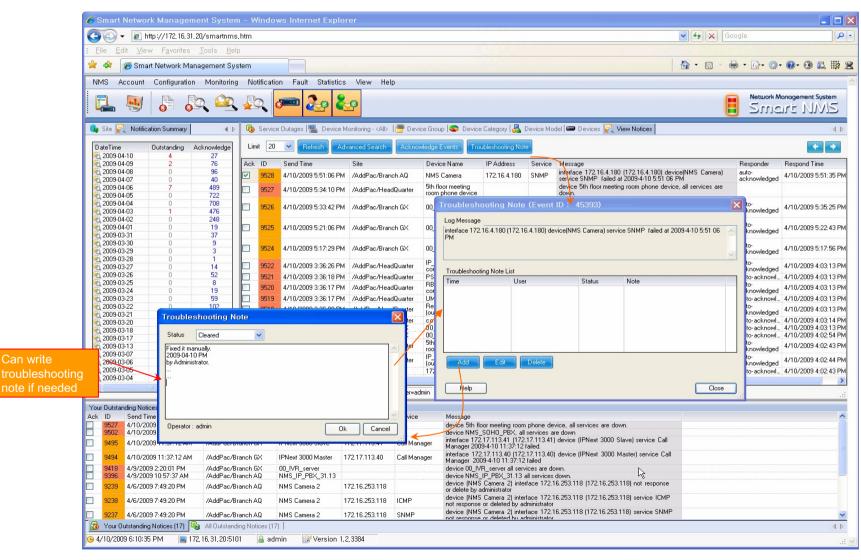
- ? Provide both summary view and detailed event message
- ? Can Write troubleshooting job note for each event manually
- ? Administrator can query for a history fault with search condition
- ? Each fault is related to the several raw events

Device Fault History Management





Device Fault History Management





Current Device Fault (Outage)

Smart Network Mar		smartnms, htn		Konnet Explorer						✓ 4 × Goog	ıle
File Edit View Fav						1					,
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🌠 🌮 🏈 Smart Netwo	ork Manag	ement System								🙆 • 🖻 · 🖶	• 🗗 • 🖉 • 😵 📖 🛛
NMS Account Config	juration	Monitoring I	Votification I	Fault Statistics \	/iew Help						
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🐻 Current Outage Devices (13) 😽 Sit	e 4	⊳ 🗗 🖓 Servic	e Outages 🛛 🏹 Event	Notification 🎼 De:	tination Paths 🛿 😼 Users	😼 View Current Outages				
lame	Service	Availability	Outage ID		Device Name	IP Address	Service	Time Down			
AddPac			13968	/AddPac/Branch GX /AddPac/Branch GX	00_RBT_server	172.17.114.60	Media	4/10/2009		Display the	e current all
😑 🍓 Branch AQ			13967	/AddPac/Branch GX	00_RBT_server 00 RBT server	172.17.114.60 172.17.114.60	SNMP	4/10/2009		device fau	lte
	6 of 12	50.000 %	13948	/AddPac/HeadQuarter		room p 172.16.53.101	ICMP	4/10/2009			
	3 of 3	0.000 %	13907	/Subnetwork #2/Cent.		172.16.19.50	ICMP	4/10/2009			
😑 🍓 Branch GX			13906	/Subnetwork #2/Cent.		172 16 19 50	SNIMP	A/10/2009			
- CO_IVR_server	3 of 3	0.000 %	13896	/AddPac/Branch GX	IPNext 3000 Slave	Event Detail (D: 45412)				
CO_IVR_slave	3 of 3	0.000 %	13895	/AddPac/Branch GX	IPNext 3000 Maste						
- Co_PS_server	3 of 3	0.000 %	13802	/AddPac/Branch GX	00_IVR_server	Acknowledg	e Events Device Prop	perties			Help Close
🚥 00_PS_Slave	2 of 3	33.333 %	13801	/AddPac/Branch GX	00_IVR_server						
00_RBT_server	3 of 3	0.000 %	13800	/AddPac/Branch GX /AddPac/Branch AQ	00_IVR_server NMS IP PBX 31.1	2					
📟 IPNext 3000	1 of 3	66.667 %	13772	/AddPac/Branch AQ	NMS_IP_PBX_31.		4/10/2009 9:26:04 P	M IP Address		Severity	Critical
- IPNext 3000 S	1 of 3	66.667 %	13771	/AddPac/Branch AQ	NMS_IP_PBX_31.				oo por		
- Com UMS slave	3 of 3	0.000 %	13611	/AddPac/Branch AQ	NMS Camera	Site	/AddPac/Branch GX	Device Name	00_RBT_serv	ver Device Moo	del AP-RBT1000
🖮 🍓 HeadQuarter			13610	/AddPac/Branch AQ	NMS Camera	Service		Status		Acknowledg	ged By
5th floor meeti	1 of 1	0.000 %	13609	/AddPac/Branch AQ	NMS Camera	Time Acknowle	dae	=			
UMS server(o	3 of 3	0.000 %	13608	/AddPac/Branch AQ	NMS Camera						
Subnetwork #2			13607	/AddPac/Branch AQ	NMS Camera	Log Message	device 00_RBT_serv	er down			
😑 🍓 Center			13606 9021	/AddPac/Branch AQ /AddPac/Branch GX	NMS Camera UMS slave	Description					
MMS_SOHO	2 of 2	0.000 %	9021	/AddPac/Branch GX	UMS slave	desire 00 BE	T				
			9019	/AddPac/Branch GX	UMS slave		ed until this outage is res		record has been	I created and service le	vel availability calculations 🖄
			6489	/AddPac/Branch GX	00 PS server	will be implied	eu unu uns outuge is ie.	Joired.			
		<u> </u>	on view	the event da	server						
				the event us	_server						
		re	lated to	the current	R_slave_serv						
					R_slave_serv						~
		de	evice fau		R_slave_serv _Slave_serv		g Note List				
		ar	nd can w	rite	_Slave_serv		User	Status	Note		
					erverlour.co						A
		tro	oublesho	oting note if							
		n	eded								
ur Outstanding Notices (18)											
k ID Send Time		Site	Device	Name IP Address	Service	Mess					
9535 4/10/2009 9:26:1		/AddPac/Branci		server	001100	devic					
9527 4/10/2009 5:34:		/AddPac/Head0		r meeting		devic Add	E dit Delete				
9502 4/10/2009 3:34:	29 PM	/Subnetwork #2		OHO_PBX		devic					
9495 4/10/2009 11:37	12 AM	/AddPac/Brancl	n GX IPNext	3000 Slave 172.17.11	3.41 Call Manager	interf Call Manager 2009-4-10 1	.27.12 (siled		-		
			1041		Manayer		:37:12 rated. 72.17.113.40) device (IPNs	ext 3000 Master)			
9494 4/10/2009 11:37		/AddPac/Brancl	n GX Master	172.17.11	3.40 Manager	service Call Manager 200	3-4-10 11:37:12 failed	SAC 0000 Midstor)			
9418 4/9/2009 2:20:0		/AddPac/Brancl	n GX 00_IVR	server		device 00_IVR_server all s	ervices are down.				
9396 4/9/2009 10:57: 9239 4/6/2009 7:49:20	37 AM	/AddPac/Brancl	hAQ NMS_I	P_PBX_3		device NMS_IP_PBX_31.1	3 all services down.				
9239 4/6/2009 7:49:2	D PM	/AddPac/Brancl	n AQ NMS Ca	amera 2 172.16.25	3.118	device (NMS Camera 2) in response or delete by adm	terface 172.16.253.118 (17 inistrator	72.16.253.118J not			
			i and l	1		,					
Your Outstanding Notices	[18] Leva .	All Outstanding N	lotices [18] I								



Device Event History

G S -	🔊 http://172,16,	31,20/smartnms,htm									👻 😽 🗙 Google 🖉 🔎 🗸
<u> </u>	<u>V</u> iew F <u>a</u> vorite	s <u>T</u> ools <u>H</u> elp									
🚖 🎄 🌾	Smart Network N	1anagement System									🟠 • 🖸 • 🖶 • 📴 • 🞯 • 🞯 • 🕄 📖 🙁
NMS Acc	ount Configurati	on Monitoring Notific	ation Fault	Statistics View	Help						
											Network Management System
	y 👌 🖉	ja 🕰 🛵	J	🤤 🌄 🖻							Smart NMS
-		-									
🧤 Site 🏹 I	Event Summary		∢ ▷ 👘 Ser	vice Outages 🔤 E	vent Notification	Dest	ination Paths 🎭 Users	😼 View Current Out	ages 🚮 View ()utages	NQ View Events
Event Time			Pre Limit	20 👻 Refresh	Advanced 9	earch	Acknowledge Events	Troubleshooting Note			Can view all events for de
2009-04-13		40 0 6 0	0 Ack ID	Severity	Event Time		Site	Device Name	IP Address	Sera	with search condition
2009-04-11	1 <mark>314</mark> 0	314 0	0						K		Agent Up with
2009-04-09	3 290 0	290 0	45	786 Critical	4/13/2009 11	:24:42 AM	/AddPac/Branch GX	SE_MG3000N_A	172.17.111.25		enterprise: 1.3.6.1.4.1.4855.3.2.255 (.1.3.6.1.4.1.4855.3.2.255) args (1):1.3.6.1.6.3.1.1.4.3.0=''.1.3.6.1.4.1.4855.3.2.255''
2009-04-08 2009-04-07		412 0 448 0	0 45	785 Cleared	4/13/2009 11	15:59 AM	/AddPac/Branch GX	00_NR_server	172.17.111.21	SNMP	SNMP data collection on interface 172.17.111.21
2009-04-06	6 1453 0	1453 0	0	784 Cleared	4/13/2009 11		/AddPac/Branch GX	00_NR_server			prevously failed and has been restored. Node 00_NR_server is up.
2009-04-05 2009-04-04											Agent Up with Possible Changes (coldStart Trap)
2009-04-03	3 1276 0	1276 0	0 45	783 Critical	4/13/2009 11	:15:51 AM	/AddPac/Branch GX	00_NR_server	172.17.111.21		enterprise: 1.3.6.1.4.1.4855.3.2.10 (.1.3.6.1.4.1.4855.3.2.10) args
2009-04-02 2009-04-01			0 45	782 Critical	4/13/2009 11	15-13 AM	/AddPac/Branch GX	00_NR_server			(1):1.3.6.1.6.3.1.1.4.3.0=".1.3.6.1.4.1.4855.3.2.10"
2009-03-31				781 Warning	4/13/2009 11		/AddPac/Branch GX	00_NR_server	172.17.111.21	SNMP	SNMP data collection on interface 172.17.111.21
2009-03-30				780 Warning	4/13/2009 10		/AddPac/Branch AQ	NMS_IP_PBX_31	172.16.31.13	SNMP	ralied.
			779 Warning	4/13/2009 10		/Subnetwork #2/Center		172.16.31.16	SNMP	SNMP thresholding on interface 172.16.31.16 failed.	
2009-03-27	7 1 <mark>08</mark> 0		0 2 45	778 Warning	4/13/2009 9:5	59:51 AM	/AddPac/Branch GX	UMS slave	172.17.113.201	SNMP	 SNMP data collection on interface 172.17.113.201 failed.
2009-03-28 2009-03-28			45	777 Warning	4/13/2009 9:5	59:46 AM	/AddPac/Branch GX	UMS slave	172.17.113.201	SNMP	SNMP data collection on interface 172.17.113.201 failed
2009-03-24	4 121 0	121 0	0 45	776 Warning	4/13/2009 9:5		/AddPac/HeadQuarter	UMS server(our co		SNMP	SNMP data collection on interface 61.33.161.43 failed.
2009-03-23 2009-03-22				775 Warning 774 Warning	4/13/2009 9:5		/AddPac/HeadQuarter /Subnetwork #2/Center	UMS server(our co NMS SOHO PBX	61.33.161.43	SNMP	
2009-03-21				73 Warning	4/13/2009 9:5		/Subnetwork #2/Center	NMS_SOHO_PBX	172.16.19.50	SNMP	
2009-03-20) 172 0	172 0		72 Warning	4/13/2009 9:5		/Subnetwork #2/Center	NMS_SOHO_PBX	172.16.19.50	SNMP	
2009-03-19				771 Warning 770 Warning	4/13/2009 9:5 4/13/2009 9:5		/Subnetwork #2/Center /Subnetwork #2/Center	NMS_SOHO_PBX NMS_SOHO_PBX	172.16.19.50 172.16.19.50	SNMP	
2009-03-18				769 Warning	4/13/2009 9:5		/Subnetwork #2/Center	NMS_SOHO_PBX	172.16.19.50	SNMP	
2009-03-17 2009-03-16				768 Warning	4/13/2009 9:5		/AddPac/Branch AQ	NMS_IP_PBX_31	172.16.31.13	SNMP	
2009-03-15			0 45	767 Warning	4/13/2009 9:5	59:15 AM	/AddPac/Branch AQ	NMS_IP_PBX_31	172.16.31.13	SNMP	P SNMP data collection on interface 172.16.31.13 failed.
		1	<								
<	100	Results : 1 to 20 of 25346 Search Constraints : user=admin									
ilv event	/ event statistics										ii.
	Site		Device Name	IP Address	Service	Message					~
	/AddPac/Branch GX /AddPac/HeadQuarter		00_RBT_serve				_RBT_server's all services				
9502 4								ne device, all services are down.			
				ave 172.17.113.41	72 17 113 41 Call					e	
	/10/2009 11:37:12 A		IPNext 3000	172.17.113.40	^{3.41} Manager Call Manager 2009-4-10 11:37:12 failed. Call interface 172.17.113.40 (172.17.113.40) device (IPNext 3000						
	/10/2009 11:37:12 A /9/2009 2:20:01 PM	/AddPac/Branch GX /AddPac/Branch GX	Master 00 IVR server	172.17.113.40	⁴⁰ Manager service Call Manager 2009-4-10 11:37:12 failed						
	/9/2009 2:20:01 PM /9/2009 10:57:37 AM		NMS_IP_PBX	_3	device 00_IVR_server all services are down. 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	3		MS Camera 2) interface 1 or delete by administrator	72.16.253.118 (172.16	6.253.118) not		~
- A Vara Duta	tanding Notices (18)	All Outstanding Notices	anl								4 0



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)
- ? Provide network interface status (up/down & network traffic)
- ? Provide VoIP interface status and call statistics.
- ? Search call history for the device and port
- ? Display Graph Series with System Performance Information
- ? Monitor Main Status Flow with System Monitoring View

System Status Information

	PBX Maste	r					
System Status Information Ne	etwork Interfac	e VolP Interface Call Hist	ory Performance History Performance	Monitoring			
Today's Availability	CPU U	Itilization	Memory Utilization	Stora	age Utilization		
	1		Total : 128 ME Used : 111.6 I Free : 16.4 MI	в	45	Total : 480 MB Used : 223.4 MB Free : 256.6 MB	4
Service Information (Availability:	: Persentage (over last 24 hours) Apply	Service Monitor Status				
Interface / Service Name	Status	Availability	Service	Maximum	Value	Used	
Interface / Service Name	Status o up	Availability 100.000%	Service CM Service	Maximum	Value	Used	
ИСИ СО СТАТИТИ				Maximum 100	Value 0	Used	
MCU RtpProxy	e up	100.000%	CM Service				
☐ MCU _ RtpProxy _ UMS	● up ● up	100.000% Rescaning	CM Service Call Manager - Call Count	100	0		
2 MCU RtpProxy 2 UMS 2 Media	● up ● up ● up	100.000% Rescaning 100.000%	CM Service Call Manager - Call Count Call Manager - Soft Phone Count	100 100	0		
	 up up up up up 	100.000% Rescaning 100.000% 100.000%	CM Service Call Manager - Call Count Call Manager - Soft Phone Count Call Manager - Terminal Count	100 100	0		
MCU RtpProxy UMS Media Presence Call Manager	 up up up up up up 	100.000% Rescaning 100.000% 100.000% 100.000%	CM Service Call Manager - Call Count Call Manager - Soft Phone Count Call Manager - Terminal Count IVR Service	100 100	0		
MCU RtpProxy UMS Media Presence Call Manager 172.16.19.50 SNMP	 up up up up up up 	100.000% Rescaning 100.000% 100.000% 100.000%	CM Service Call Manager - Call Count Call Manager - Soft Phone Count Call Manager - Terminal Count IVR Service IVR Session	100 100	0		
MCU RtpProxy UMS Media Presence Call Manager 172.16.19.50	 up up up up up up up 	100.000% Rescaning 100.000% 100.000% 100.000% 100.000%	CM Service Call Manager - Call Count Call Manager - Soft Phone Count Call Manager - Terminal Count IVR Service IVR Session PS Service	100 100 100	0		
MCU RtpProxy UMS Media Presence Call Manager 172.16.19.50 SNMP	 up up up up up up up up up 	100.000% Rescaning 100.000% 100.000% 100.000% 100.000%	CM Service Call Manager - Call Count Call Manager - Soft Phone Count Call Manager - Terminal Count IVR Service IVR Session PS Service Presence Session	100 100 100	0		
MCU RtpProxy UMS Media Presence Call Manager 172.16.19.50 SNMP	 up up up up up up up up up 	100.000% Rescaning 100.000% 100.000% 100.000% 100.000%	CM Service Call Manager - Call Count Call Manager - Soft Phone Count Call Manager - Terminal Count IVR Service IVR Session PS Service Presence Session RBT Service	100 100 100	0		
MCU RtpProxy UMS Media Presence Call Manager 172.16.19.50 SNMP	 up up up up up up up up up 	100.000% Rescaning 100.000% 100.000% 100.000% 100.000%	CM Service Call Manager - Call Count Call Manager - Soft Phone Count Call Manager - Terminal Count IVR Service IVR Session PS Service Presence Session RBT Service Media Session	100 100 100	0		

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Network Interface

	s Information - GS3							
System 9	Status Information Netw	vork Interface VoIP In	iterface Call Hi	story Performa	ance History Per	formance Monitoring		
Interface	Status							
Index 2	Name FastEthernet0/0	IP Address 172.16.9.120	Speed 100Mbps	Status o up	Rx Traffic 10.7Kbps	Tx Traffic 2.1Kbps	Errors (pkts) 0	
3	FastEthernet0/1	192.168.10.1	100Mbps	● down	0 bps	0 bps	0	
			1					

VoIP Interface

You can view call summary informations such as total call, ASR, and ACD for the GSM gateway device each

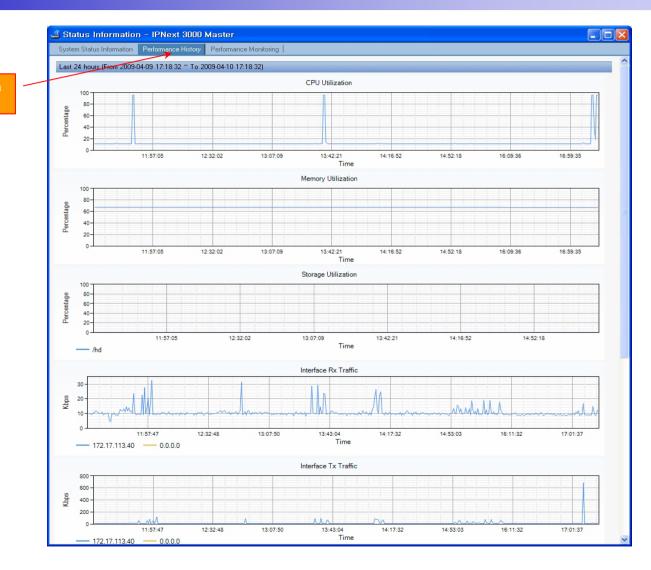
Systen	n Status Inform	ation Network	Interface V	olP Interfac	Call History Perl	ormance History Po	erformance Monitoring			
GSM (Call Statistics				\mathbf{h}					
		Inbo	ound Calls		X		Total			
	VolP	FXS	E>	(O	E1	Call	ASR (%)	ACI) (sec)	All Clear
	0	58)	0	58	94 %		11	
	·		·		· ·		·		·	
VolP I	nterfaces Statu	s								
Port	Line Type	Line Status	In Gain	Out Gain	Phone Number	GSM Phone Number	Inbound Calls (VoIP/FXS/FX0/E1)	ASR (%)	ACD (sec)	
0/0	GSM	🔄 hookOn	0	0	5T		0/37/0/0	94%) 5	
)/1	GSM	🔄 hookOn	0	0	6T		0/21/0/0	95%) 6	
0/2	GSM	🕓 hookOn	0	0	7T		0/0/0/0	0%) 0	
0/3	GSM	🕓 hookOn	0	0			0/0/0/0	0%) 0	
170	GSM	🔄 hookOn	0	0			0/0/0/0	0%) 0	
1/1	GSM	🕓 hookOn	0	0			0/0/0/0	0%) 0	
1/2	GSM	🕓 hookOn	0	0			0/0/0/0	0%) 0	
/3	GSM	hookOn	0	0			0/0/0/0	0%) 0	
2/0	GSM	🗸 hookOn	0	0			0/0/0/0	0%) 0	
2/1	GSM	hookOn	0	0			0/0/0/0	0%) 0	
2/2	GSM	🗸 hookOn	0	0			0/0/0/0	0%) 0	
2/3	GSM	hookOn	0	0			0/0/0/0	0%) 0	
7/0	FXS	hook0n	0	0	7000			0%)	
7/1	FXS	🔍 hookOn	0	0				0%)	
7/2	FXS	hook0n	0	0				0%)	
7/3	FXS	hook0n	0	0				0%)	
7/4	FX0	hook0n	0	0	1231			0%)	
7/6	EV0	hook0n	0	0				0.97	1	

Call History

You can search call history with various conditions such as start date, end date, port and ip etc.

Syster	n Status Information Netwo	rk Interface	VoIP Interface	Call History Pe	erformance Histo	ry Performance I	Monitoring				
.imit:	30 • Latest 24 Ho	🧞 R	efresh 🔍 Adv	anced Search 🖻	Report View	1/6 (D)					_
	e Call History										_
-	estination Port: <all></all>			*Search Cou	unt: 153						
		10:15:01 ~ 2	010-11-19 10:15	5:01							
*Fi	lter: Empty										
D	Create Time	Duration	Caller Type	Caller Number	Called Type	Called Number	Remote IP	GSM Phone N	Codec	Status	1
46	11/18/2010 3:54:50 PM	00:00:00	FXS	7000	Unknown				g711alaw	Failed	
45	11/18/2010 3:50:43 PM	00:00:03	FXS	7000	VolP	9999	172.16.9.18		g7231r63	Success	Γ.
44	11/18/2010 3:46:54 PM	00:00:16	FXS	7000	GSM	6000			g711alaw	Success	
43	11/18/2010 3:45:59 PM	00:00:02	FXS	7000	GSM	5000			g711alaw	Success	
42	11/18/2010 3:43:33 PM	00:00:03	FXS	7000	VolP	9999	172.16.9.18		g7231r63	Success	
41	11/18/2010 3:43:23 PM	00:00:00	FXS	7000	GSM	600			g711alaw	Failed	
40	11/18/2010 3:43:16 PM	00:00:00	FXS	7000	GSM	600			g711alaw	Failed	
39	11/18/2010 3:43:12 PM	00:00:00	FXS	7000	GSM	500			g711alaw	Failed	
38	11/18/2010 3:43:07 PM	00:00:00	VoIP	9999	FXS	7000	172.16.9.18		g7231r63	Failed	
37	11/18/2010 3:42:32 PM	00:00:04	FXS	7000	VoIP	9999	172.16.9.18		g7231r63	Success	
36	11/18/2010 3:25:48 PM	00:00:00	FXS	7000	Unknown				g711alaw	Failed	
35	11/18/2010 3:21:05 PM	00:00:03	VoIP	9999	FXS	7000	172.16.9.18		g7231r63	Success	
34	11/18/2010 3:20:57 PM	00:00:00	VoIP	9999	FXS	7000	172.16.9.18		g7231r63	Failed	
32	11/18/2010 3:20:54 PM	00:00:00	FXS	7000	Unknown				g711alaw	Failed	
30	11/18/2010 3:20:43 PM	00:00:02	FXS	7000	GSM	6000			g711alaw	Success	
28	11/18/2010 3:20:30 PM	00:00:02	FXS	7000	GSM	5000			g711alaw	Success	
25	11/18/2010 3:05:30 PM	00:00:03	FXS	7000	VoIP	9999	172.16.9.18		g7231r63	Success	
24	11/15/2010 3:05:22 PM	00:00:00	VolP	9999	FXS	7000	172.16.9.18		g7231r63	Failed	
23	11/15/2010 3:05:11 PM	00:00:03	VolP	9999	FXS	7000	172.16.9.18		g7231r63	Success	
322	11/15/2010 3:05:08 PM	00:00:00	FXS	7000	Unknown				q711alaw	Failed	

Performance History

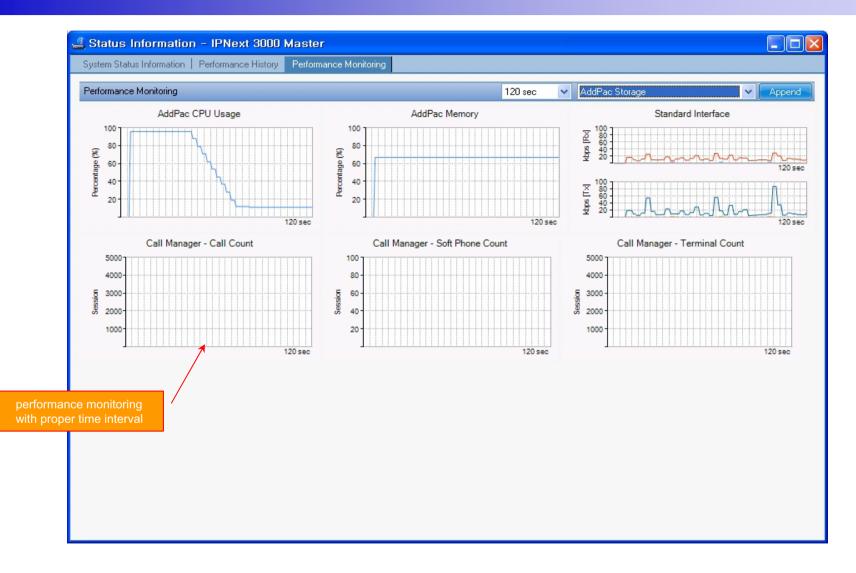


performance analysis graph for last 24 hours



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Performance Monitoring

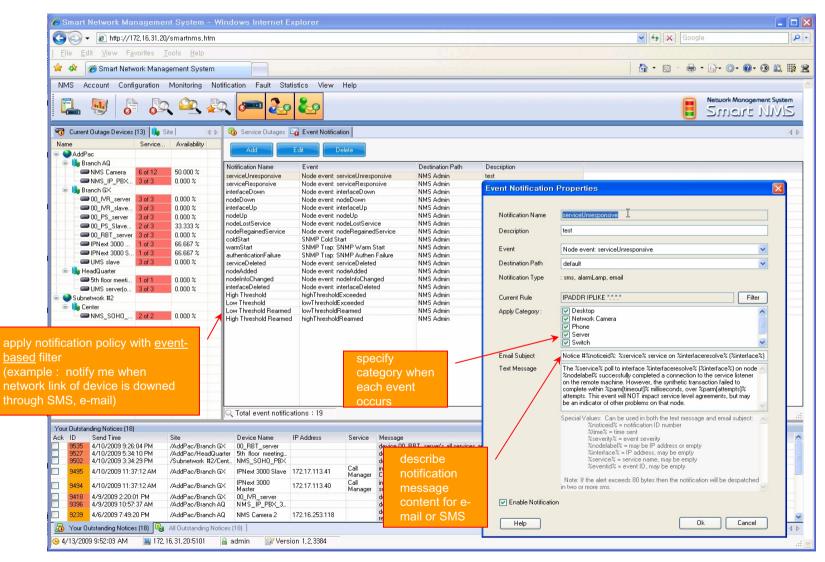


AddPac

Notification Management

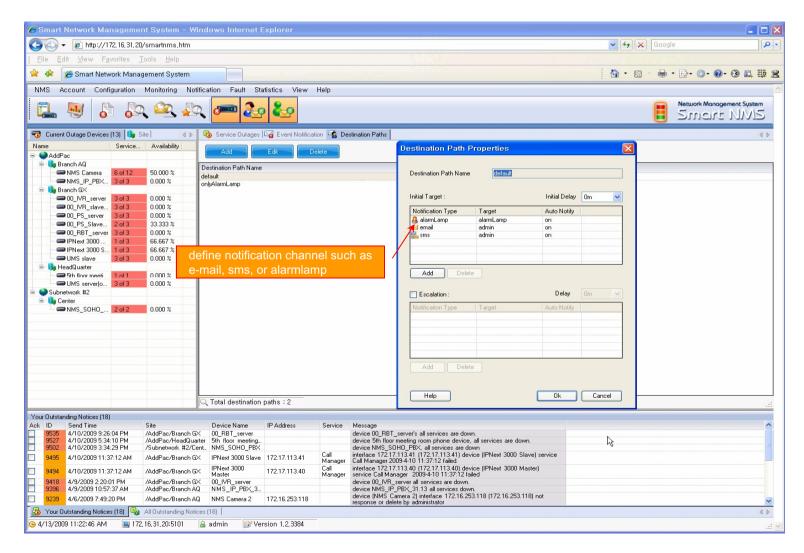
- ? Notify administrator for important event such as critical device fault when proper action needs
- ? Provide several notification channel such as SMS, e-mail, alarm lamp
- ? Notification channel configuration for each event
- ? Manage notification with device category such as Server, Terminal, PC,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

Event Notification Management



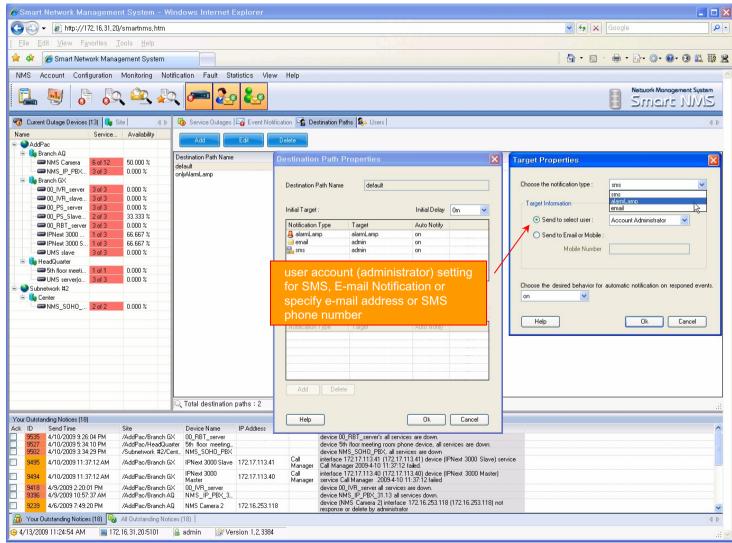


Event Notification Management



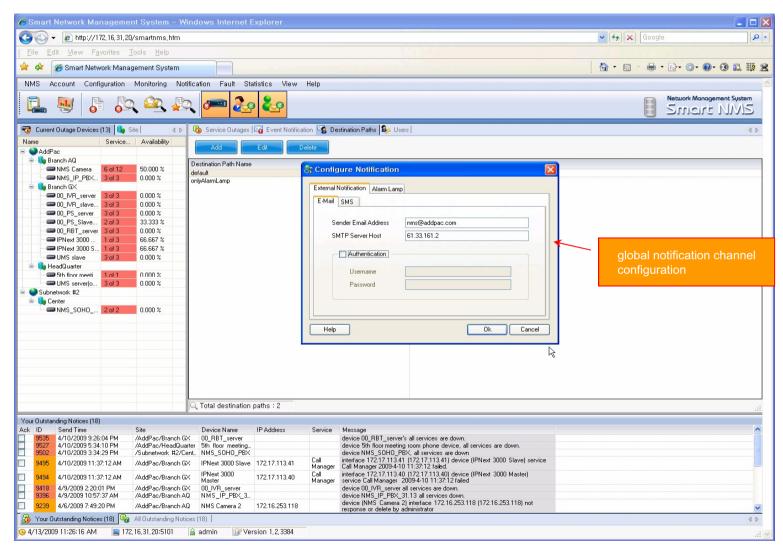


Event Notification Management



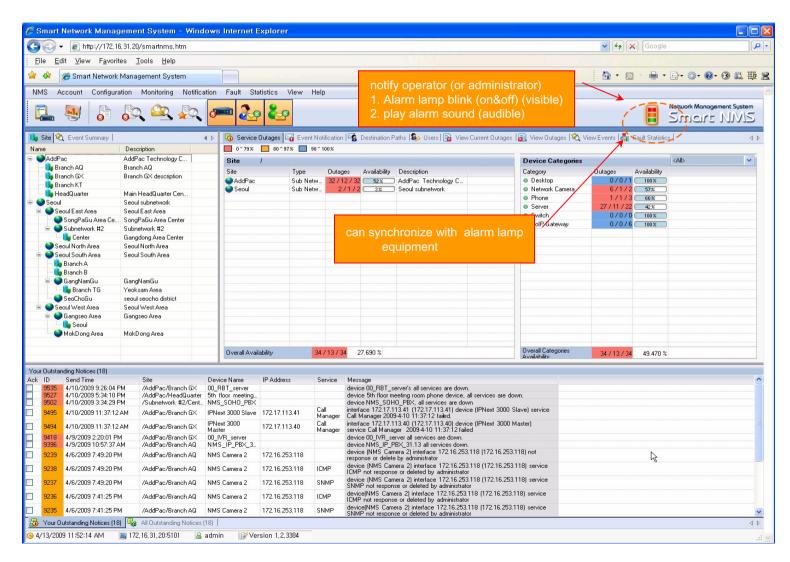


Configuration





Audible & Visible Alarm



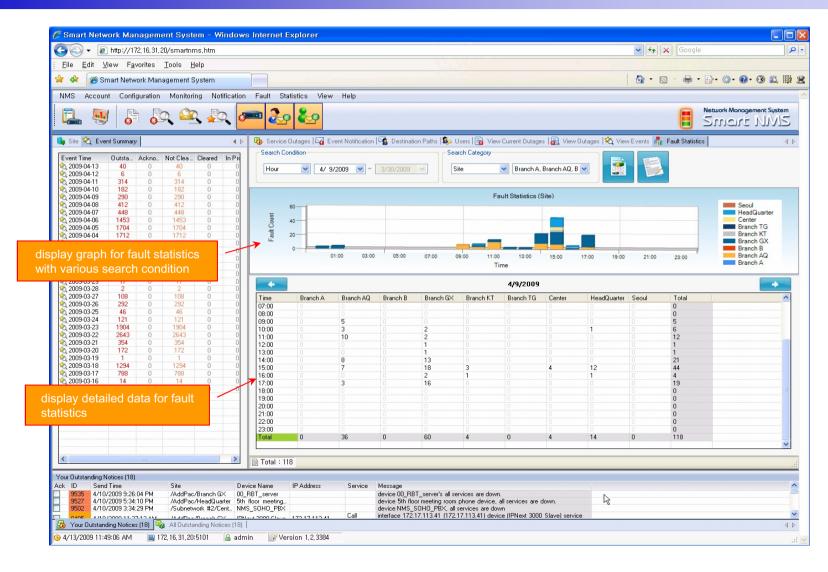


Fault Statistics

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

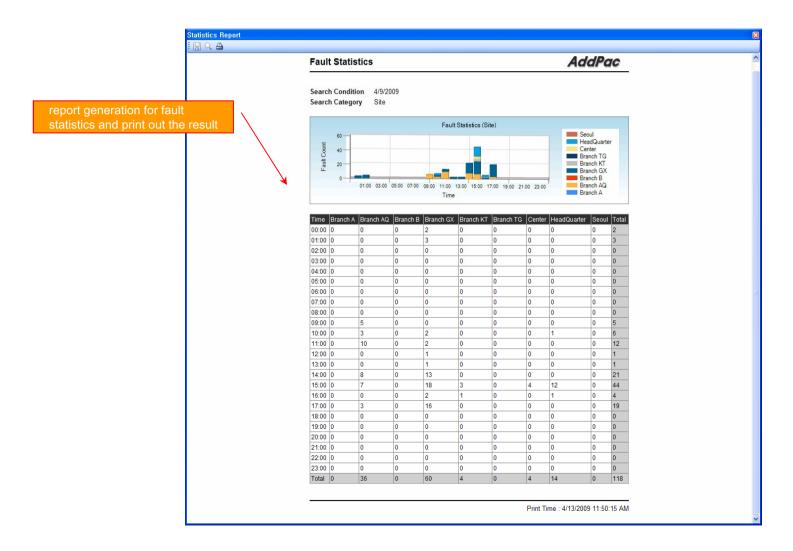


Fault Statistics





Fault Statistics ? Report Generation



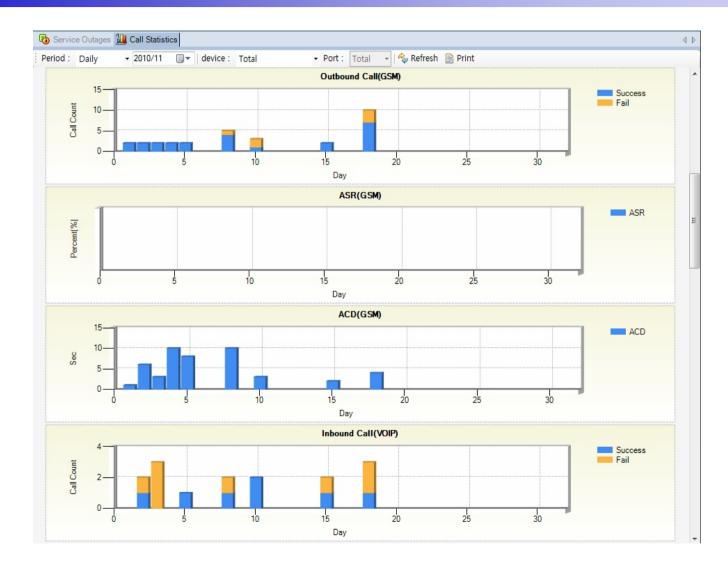


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- ? SmartNMS receives CDR data for calls which is used for call statistics from the VOIP or GSM gateway.
- ? You can get statistics data with various time interval conditions such as daily and monthly basis for the device and VOIP port.
- ? Report statistics can be exported to the various document formats such as PDF and MS-Excel.

ASR(%) 30 30 30 30 30 37 0 0 73 0 ACD(sec) 2 5 3 10 6 0 0 8 0 UIII Outbound Call(GSM)	Port :: Total ACD :: Total(Outbound/InBound) Period :: 2010-11 GSM Outbound Call :: 15(7/8) Inbound Call :: 30(24/6) ASR : 47% CD :: 3(3/3) sec CD :: 5(5/5) sec TOTAL Outbound Call :: 72(50/22) ASR :: 0% ACD :: 5(0/5) sec ACD :: 3(3/3) sec CD :: 5(5/5) sec CD :: 4(4/4) sec Inbound Call :: 22(10) 2(2/0) 2(2/0) 2(2/0) 2(2/0) 0(0/0) <t< th=""><th>iod : [</th><th>Daily - 2010/11</th><th></th><th>ice : Tota</th><th>I</th><th> Port </th><th>: Total</th><th>👻 🍫 Ref</th><th>fresh 📄 Pri</th><th>int</th><th></th></t<>	iod : [Daily - 2010/11		ice : Tota	I	 Port 	: Total	👻 🍫 Ref	fresh 📄 Pri	int	
Inbound Call 0(0/0) 0	Inbound Call 0(0/0) 0	Port Period GSM Outbour Inbound ASR :	: Total : 2010-11 nd Call : 0(0/0) d Call : 30(24/6) 0%	Outbound (Inbound Ca ASR : 47%	ll : 27(19/		Outbound Inbound (ASR : 58	all: 45(31/		ACD : 1 TOTAL Outbound Inbound C ASR : 56	Total(Outbou Call : 89(5 Call : 72(50/	ind/InBound)
GSM Outbond Call 2(2/0) 2(2/0) 2(2/0) 2(2/0) 0(0/0) 0(0/0) 5(4/1) 0(0/0) ASR(%) 0	GSM Outbond Call 2(2/0) 2(2/0) 2(2/0) 2(2/0) 0(0/0) 0(0/0) 5(4/1) 0(0/0) ASR(%) 0			1	2	3	4	5	6	7	8	9
GSM ASR(%) 0<	GSM ASR(%) 0<			0(0/0)	0(0/0)	0(0/0)	0(0/0)	0(0/0)	0(0/0)	0(0/0)	0(0/0)	0(0/0)
Inbound Call 0(0/0) 2(1/1) 3(0/3) 0(0/0) 1(1/0) 0(0/0) 2(1/1) 0(0/0) Outbond Call 2(1/1) 4(2/2) 4(3/1) 1(0/1) 3(1/2) 0(0/0) 0(0/0) 1(1/0) 0(0/0) ASR(%) 0 50 0 0 100 0 0 50 0 LINE Inbound Call 6(3/3) 7(4/3) 7(5/2) 3(2/1) 6(3/3) 0(0/0) 0(0/0) 0(0/0) 7(5/2) 0(0/0) LINE Inbound Call 2(2/0) 4(3/1) 5(2/3) 2(2/0) 3(3/0) 0(0/0) 0(0/0) 7(5/2) 0(0/0) ACD(sec) 2 5 3 10 6 0 0 9 0 Mound Call 6(3/3) 9(5/4) 10(5/5) 3(2/1) 7(4/3) 0(0/0) 8(6/2) 0(0/0) Mound Call 4(3/1) 8(5/3) 9(5/4) 3(2/1) 6(4/2) 0(0/0) 8(6/2) 0(0/0) Moubo	Inbound Call 0(0/0) 2(1/1) 3(0/3) 0(0/0) 1(1/0) 0(0/0) 2(1/1) 0(0/0) Outbond Call 2(1/1) 4(2/2) 4(3/1) 1(0/1) 3(1/2) 0(0/0) 0(0/0) 1(1/0) 0(0/0) ASR(%) 0 50 0 0 100 0 0 50 0 LINE Inbound Call 6(3/3) 7(4/3) 7(5/2) 3(2/1) 6(3/3) 0(0/0) 0(0/0) 0(0/0) 7(5/2) 0(0/0) LINE Inbound Call 2(2/0) 4(3/1) 5(2/3) 2(2/0) 3(3/0) 0(0/0) 0(0/0) 7(5/2) 0(0/0) ACD(sec) 2 5 3 10 6 0 0 9 0 Mound Call 6(3/3) 9(5/4) 10(5/5) 3(2/1) 7(4/3) 0(0/0) 8(6/2) 0(0/0) Mound Call 4(3/1) 8(5/3) 9(5/4) 3(2/1) 6(4/2) 0(0/0) 8(6/2) 0(0/0) Moubo	GSM	ASR(%)	0	0	0	0	0	Ó	0	0	0
VOIP ASR(%) 0 50 0 0 100 0 0 50 0 ACD(sec) 4 4 3 0 4 0 0 4 0 LINE Inbound Call 6(3/3) 7(4/3) 7(5/2) 3(2/1) 6(3/3) 0(0/0) 0(0/0) 6(5/1) 0(0/0) Outbond Call 2(2/0) 4(3/1) 5(2/3) 2(2/0) 3(3/0) 0(0/0) 0(0/0) 7(5/2) 0(0/0) ACD(sec) 2 5 3 10 6 0 0 9 0 ACD(sec) 2 5 3 10 6 0 9 0 Inbound Call 6(3/3) 9(5/4) 10(5/5) 3(2/1) 7(4/3) 0(0/0) 8(6/2) 0(0/0) Outbond Call 4(3/1) 8(5/3) 9(5/4) 3(2/1) 6(4/2) 0(0/0) 8(6/2) 0(0/0) ACD(sec) 2 5 3 10 6	VOIP ASR(%) 0 50 0 0 100 0 0 50 0 ACD(sec) 4 4 3 0 4 0 0 4 0 LINE Inbound Call 6(3/3) 7(4/3) 7(5/2) 3(2/1) 6(3/3) 0(0/0) 0(0/0) 6(5/1) 0(0/0) Outbond Call 2(2/0) 4(3/1) 5(2/3) 2(2/0) 3(3/0) 0(0/0) 0(0/0) 7(5/2) 0(0/0) ACD(sec) 2 5 3 10 6 0 0 9 0 ACD(sec) 2 5 3 10 6 0 9 0 Inbound Call 6(3/3) 9(5/4) 10(5/5) 3(2/1) 7(4/3) 0(0/0) 8(6/2) 0(0/0) Outbond Call 4(3/1) 8(5/3) 9(5/4) 3(2/1) 6(4/2) 0(0/0) 8(6/2) 0(0/0) ACD(sec) 2 5 3 10 6		Inbound Call	0(0/0)	2(1/1)	3(0/3)	0(0/0)	1(1/0)	0(0/0)	0(0/0)	2(1/1)	0(0/0)
Inbound Call 6(3/3) 7(4/3) 7(5/2) 3(2/1) 6(3/3) 0(0/0) 6(5/1) 0(0/0) Outbound Call 2(2/0) 4(3/1) 5(2/3) 2(2/0) 3(3/0) 0(0/0) 0(0/0) 6(5/1) 0(0/0) ASR(%) 50 57 71 67 50 0 0 83 0 ACD(sec) 2 5 3 10 6 0 9 0 Inbound Call 6(3/3) 9(5/4) 10(5/5) 3(2/1) 7(4/3) 0(0/0) 0(0/0) 8(6/2) 0(0/0) Outbond Call 4(3/1) 8(5/3) 9(5/4) 3(2/1) 6(4/2) 0(0/0) 8(6/2) 0(0/0) Outbond Call 4(3/1) 8(5/3) 9(5/4) 3(2/1) 6(4/2) 0(0/0) 8(6/2) 0(0/0) ACD(sec) 2 5 3 10 6 0 8 0	Inbound Call 6(3/3) 7(4/3) 7(5/2) 3(2/1) 6(3/3) 0(0/0) 6(5/1) 0(0/0) Outbond Call 2(2/0) 4(3/1) 5(2/3) 2(2/0) 3(3/0) 0(0/0) 0(0/0) 6(5/1) 0(0/0) ASR(%) 50 57 71 67 50 0 0 83 0 ACD(sec) 2 5 3 10 6 0 9 0 Inbound Call 6(3/3) 9(5/4) 10(5/5) 3(2/1) 7(4/3) 0(0/0) 8(6/2) 0(0/0) Outbond Call 4(3/1) 8(5/3) 9(5/4) 3(2/1) 6(4/2) 0(0/0) 8(6/2) 0(0/0) Outbond Call 4(3/1) 8(5/3) 9(5/4) 3(2/1) 6(4/2) 0(0/0) 8(6/2) 0(0/0) ACD(sec) 2 5 3 10 6 0 0 8 0	VOIP	ASR(%)	0	50	0	0	100	Ó	0	50	Ó
LINE ASR(%) 50 57 71 67 50 0 0 83 0 ACD(sec) 2 5 3 10 6 0 9 0 Inbound Call 6(3/3) 9(5/4) 10(5/5) 3(2/1) 7(4/3) 0(0/0) 0(0/0) 8(6/2) 0(0/0) Outbond Call 4(3/1) 8(5/3) 9(5/4) 3(2/1) 6(4/2) 0(0/0) 0(0/0) 8(6/2) 0(0/0) ASR(%) 50 56 50 67 57 0 0 75 0 ACD(sec) 2 5 3 10 6 0 0 8 0 <	LINE ASR(%) 50 57 71 67 50 0 0 83 0 ACD(sec) 2 5 3 10 6 0 9 0 Inbound Call 6(3/3) 9(5/4) 10(5/5) 3(2/1) 7(4/3) 0(0/0) 0(0/0) 8(6/2) 0(0/0) Outbond Call 4(3/1) 8(5/3) 9(5/4) 3(2/1) 6(4/2) 0(0/0) 0(0/0) 8(6/2) 0(0/0) ASR(%) 50 56 50 67 57 0 0 75 0 ACD(sec) 2 5 3 10 6 0 0 8 0 <		Inbound Call	6(3/3)	7(4/3)	7(5/2)	3(2/1)	6(3/3)	0(0/0)	0(0/0)	6(5/1)	0(0/0)
Inbound Call 6(3/3) 9(5/4) 10(5/5) 3(2/1) 7(4/3) 0(0/0) 8(6/2) 0(0/0) Outbond Call 4(3/1) 8(5/3) 9(5/4) 3(2/1) 6(4/2) 0(0/0) 0(0/0) 8(6/2) 0(0/0) ASR(%) 50 56 50 67 57 0 0 75 0 ACD(sec) 2 5 3 10 6 0 8 0	Inbound Call 6(3/3) 9(5/4) 10(5/5) 3(2/1) 7(4/3) 0(0/0) 8(6/2) 0(0/0) Outbond Call 4(3/1) 8(5/3) 9(5/4) 3(2/1) 6(4/2) 0(0/0) 8(6/2) 0(0/0) ASR(%) 50 56 50 67 57 0 0 75 0 ACD(sec) 2 5 3 10 6 0 8 0	LINE	ASR(%)	50	57	71	67	50	0	0	83	0
TOTAL ASR(%) 50 56 50 67 57 0 0 75 0 ACD(sec) 2 5 3 10 6 0 0 8 0 < □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	TOTAL ASR(%) 50 56 50 67 57 0 0 75 0 ACD(sec) 2 5 3 10 6 0 0 8 0 < □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □		Inbound Call									
Outbound Call(GSM)	Outbound Call(GSM) 15 Success Foil	TOTAL					67					
15 Success	15 Success	•	III									P.
		-				Outbound	i Call(GSM)				





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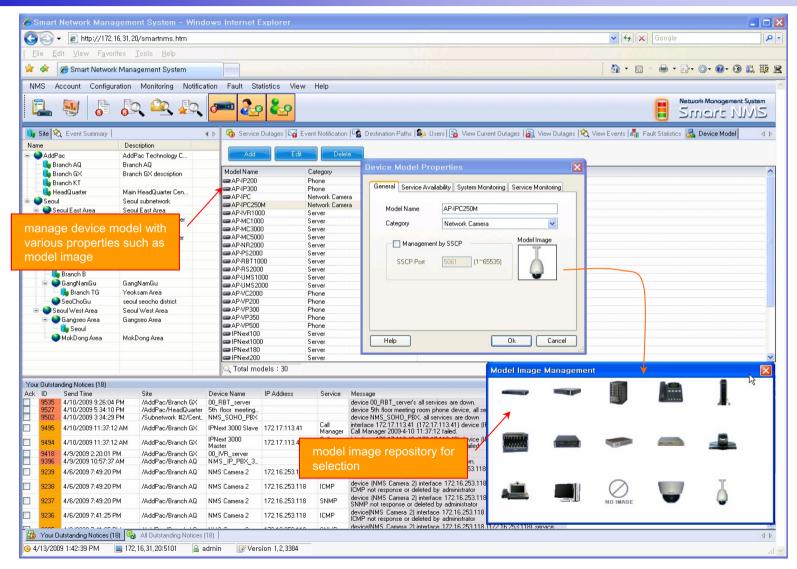
eriod : Daily • 20	10/11	device : G	S3000 gate	eway 🔻 P	ort : 7/0:	0 - %	Refresh [Print					
)0 gateway (LINE) 11										I : Total(Sud D : Total(Out		und)
	Outbound Call : Inbound Call :			ASR : ACD :	58% 4(5/3) sec								
	1 2	3	4	5	6	7		3 9		10	11	12	13
Outbound Call	6(3/3)	7(4/3)	7(5/2)	3(2/1)	6(3/3)	0(0/0)	0(0/0)	6(5/1)	0(0/0)	9(2/7)	0(0/0)	0(0/0)	
Inbound Call	0(0/0)	2(1/1)	3(0/3)	0(0/0)	1(1/0)	0(0/0)	0(0/0)	2(1/1)	0(0/0)	2(2/0)	0(0/0)	0(0/0)	
ASR(%)	50 2	57 5	71 3	67	50	0	0	83 8	0 0	22 3	0	0 0	
ACD(sec)	2	S	3	10	6	U	0	8	0	3	0	0	4
			10	15	Day	20		25		30		Fail	
1					Inbound	Call							
Call Count												Success Fail	

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Model & Service Management

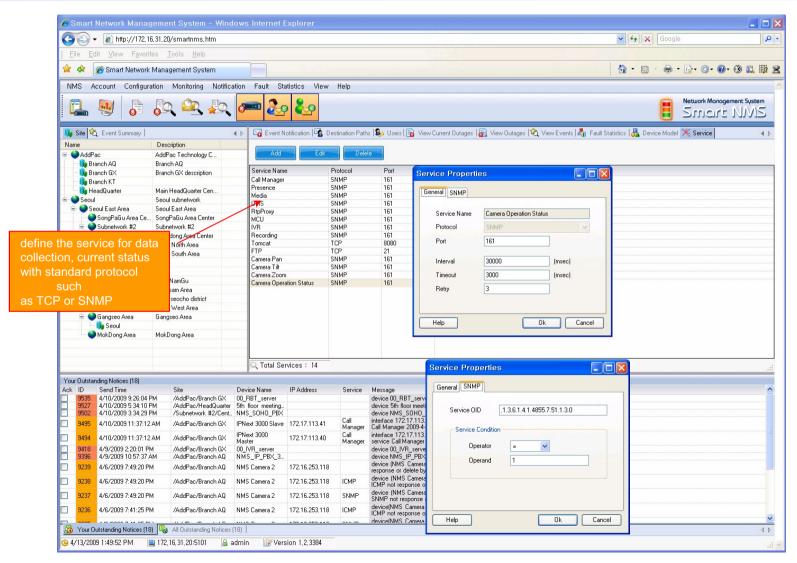
- ? Define new model with provided template image & properties
- ? Customize data collection with standard protocol such as TCP, SNMP

Device Model Management





Service Definition





Thank you!

AddPac Technology Co., Ltd. Sales and Marketing

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