Emergency Call IP Phone Call Center Solution

Emergency Call IP Phone Call Center Solution

AP-EIP100 Emergency IP Phone AP-EIP90 Emergency IP Phone AP-EIP70 Emergency IP Phone IPNext600 IP-PBX AP-IP300 IP Phone AP-NR5000 Network Recording Server Smart Digital Voice Recording Program Smart Network Management System

Learn More >





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Sales and Marketing

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 - AP-EIP90
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- IPNext600 IP-PBX Solution for Call Center
- IP Phone Solution for Call Center
- Smart Attendant Console Solution for Call Center
- IP Voice Recording Solution
- Smart NMS Solution for IP Terminal Management



Network Diagram



Emergency Call IP Phone Solution



Emergency Call IP Phone Comparison Table

	Model	AP-EIP100	AP-EIP90	AP-EIP80	AP-EIP70	AP-EIP50	
	Service Features		비상호출 EMERGENCY Plane Addrec	Addree 나는 것 또 EMERGENCY	IL AL & A CHARACTURY		
	Duplex	Full Duplex	Full Duplex	Full Duplex	Full Duplex	Full Duplex	
	Key Pad	3x4 Key Support	N/A	N/A	N/A	N/A	
	Handset	Support	N/A	N/A	N/A	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	
	Signaling	SIP	SIP	SIP	SIP	SIP	
	Speaker Phone	Support	Support	Support	Support	Support	
	LAN Port	1	1	1	1	1	
	PoE(Option)	Support	Support	Support	Support	Support	
A	Application	Indoor	Outdoor(water resistance)	Outdoor(water resistance)	Outdoor(water resistance)	Indoor	

IPNext600 IP-PBX Solution for Call Center



Network Diagram





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Product Overview

IPNext 600 Next Generation IP-PBX System

- SIP Application Server, Proxy, Registrar and Location Server
- Multiple ITSP Trunk with SIP & H.323 Accounts Support
- Dual System Redundancy Architecture
 - Two(2) Fast Ethernet Interface / System
- High Performance RISC Architecture
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- IPv4/IPv6 Dual Stack
- RTP Proxy Function Embedded for Private IP and IPv6 Address Interworking
- User Presence Service Features for Smart Multimedia Messenger and Smart IP Phone
- IVR Scenario Editor, Voice Mail, Media Service (Coloring), Conference
- Firmware Upgradeable Architecture
- Smart Multimedia Manager for IP-PBX Management
- Smart Messenger Service (click to dial) for Unified Communication
- Smart NMS for Large Scale Deployment
- Advanced Voice QoS Mechanism
- Dual Redundancy Power Module

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Hardware Specification

IPNext 600 Next Generation IP-PBX System

RISC CPU



IPNext 600 Front Side

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Hardware Specification

IPNext 600 Next Generation IP-PBX System

RISC CPU



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System Redundancy Features

IPNext 600 Next Generation IP-PBX System

IPNext600 System Block Diagram



System Redundancy Features

IPNext 600 Next Generation IP-PBX System

- Active-Active Duplication Scheme
- Active Standby Duplication Scheme
- VRRP based Duplication Scheme



Active - Standby Duplication Scheme (example)



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IP Phone Solution for Call Center



IP Phone Comparison Table

Model	AP-IP300	AP-IP230			
Spec.					
LCD Size	4.3 Inch Color LCD	5 Inch Color LCD			
Touch Screen	N/A	Support			
Speed-Dial Keys	25 Key with Presence LED	Touch Screen based 25 Keys			
Voice Codec	G.711/G.726/ G.729/G.723	G.711/G.726/ G.729/G.723			
Signaling	H.323/SIP	H.323/SIP			
3-Party Conversation	Support	Support			
LAN Port	2	2			
PoE(Option)	Support	Support			
FXO(Option)	Support	Support			



Smart Attendant Console Solution for Call Center (Option : Touch Screen)

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	S NMS Team			0/0				
	Stoutsourcing M	anagement Tean	n	0/0				
	S Overseas Sale	s Team		0/0				
	💕 QC Team			0/0				
	Saft Switch Te	am		0/0				
	Stechnical Sup	port Team		0/0				
	St UC Application	Team		0/0				
	ALL UC Terminal T	eam		0/0				
	Status Call Phone	Number	First Name	LastName	Department	Job Title	Organization	
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- Overview
- Smart Attendant Console Structure
- Smart Attendant Console System Diagram
- Smart Attendant Console System Configuration
- Smart Attendant Console Automatic Call Distribution
- Smart Attendant Console Feature
- Smart Attendant Console UI
 - Main Screen Feature
 - Monitoring Screen and Feature
 - Broadcasting Screen and Feature
 - Fire Alerting Screen And Feature



Overview

Support Efficiently Call Routing and Smart Presence Service

- Smart Attendant Console Function
 - Support Call Routing Service
 - Support Directory Search
 - Support User Presence Information
 - Support Phone Number Presence Information
 - Interoperation with Directory and Smart Attendant Console
 - Support Smart Call Control and Additional Service Control
 - Support Longest Wait Time based Incoming Call Process
 - Support Private Phone Book
 - Support Drag and Drop Call Control Service
 - Support Remote Broadcasting Control Feature



Smart Attendant Console Structure



Smart Attendant Console System Diagram





Smart Attendant Console System Configuration



Single Monitor Mode

Dual Monitor Mode

Smart Attendant Console Automatic Call Distribution





Smart Attendant Console Feature

- Smart Login Service
 - User Login and Logout Feature
- Automatic Call Distribution Feature
 - No Call Distribution Mode
 - An Available Attendant Manually Answer a Call in the Queue
 - Longest Idle Time Mode
 - Call Manager Automatically Send a Call to Longest Idle Attendant
 - Preference Mode
 - Call Manager Automatically Send a Call to High Priority Attendant
 - Sequential Mode
 - Call Manager Automatically Send a Call to an Attendant Sequentially



- Queue Call Control Feature
 - Wait Time Based Call Answer
 - Longest Wait Call Answer
 - Show Incoming Call by Call Type
 - Internal Call Show
 - External Call Show
 - Show All Call
 - Display Call Status Icon for Waiting Time
 - Call Busy, Call Wait Alerting, Call Wait Warning
 - User Configure the Wait Status Time



- Additional Call Service
 - Park Group Monitoring
 - Show Park Group Call Status for All Park Group
 - Show Detail Park Group Call List for Specify Park Group
 - Call Group Park, Park Group Call Pickup
 - Display Call Status Icon for Waiting Time
 - Call Busy, Call Wait Alerting, Call Wait Warning
 - User Configure the Wait Status Time

- Additional Call Service
 - Phone Book Feature
 - Group Create, Modify, Delete
 - Contact Add, Delete, Modify
 - Common Feature
 - Dial
 - View Detail Contact Information
 - Send e-mail
 - Dial, Send e-mail Using Phone Book
 - Private Contacts Managing Feature
 - Detail Contact Information View
 - Support Emergency / Night Mode (ToDo)
 - Configure Emergency Voice Content and Enable/Disable Emergency Mode
 - Enable/Disable Night Mode



- Directory Search Service
 - User Search Feature
 - Various Search Options
 - First Name, Last Name, Department, Phone Number
 - Search User Presence Status View
 - PC Online, Phone Online, PC-Phone Online
 - Working, Away, Absence
 - Be In Conference, Call Busy
 - Interoperate with Directory Search User Information
 - Double Click Call Dial and Manual Call Dial
 - Drag and Drop Call Transfer and Manual Call Transfer
 - Dynamic Conference



- Monitoring Presence Service
 - Support Monitoring Group
 - Add, Modify, Delete Monitoring Group and User
 - Add Group from Public Contacts
 - Phone Presence Status
 - Online, Working, Away, Absence
 - Be In Conference, Call Busy
 - Display Call Information
 - Caller Name, Phone Number
 - Phone Type (Phone, Mobile), Call Type (In/Out-Bound Call)
 - Display Call Status Icon for Waiting Time
 - Call Idle, Call Busy, Call Wait Alerting, Call Wait Warning
 - User Configure the Wait Status Time



- Broadcasting Service
 - Support Broadcasting Control Feature
 - Easy to Start/Stop Broadcasting
 - Show Broadcasting Group Status
 - Set Broadcasting Volume
 - Support User Friendly Design
- Fire Alerting Service
 - Automatic Fire Alerting Broadcasting
 - Show Fire Alerting Status



Smart Attendant Console Login





[Figure 3]

- Attendant Console Login
 - [Figure 1] shows the login picture of smart attendant Console program. "E" of [Figure3] is ICON of Smart Attendant Console Program.
 - When program is started initially, user should set the network configuration parameter such as IP address, Port number of Presence Server.[Figure2]
 - After inputting ID and Password, press the login button



[Figure 2]

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• F Part

- Phone Book Management Part
 - Group Create, Modify, Delete
 - Contact Add, Delete, Modify
 - Common Feature
 - Dial
 - View Detail Contact Information
 - Send e-mail
 - Dial, Send e-mail Using Phone Book
 - Private Contacts Managing Feature
 - Detail Contact Information View



Smart Attendant Console Monitoring Screen Feature



A Part

Monitoring Department Control Part

- **B** Part •
 - Monitoring User Part

Smart Attendant Console Broadcasting Screen Feature



- Broadcasting Control Part
 - Broadcasting Start/Stop Button
 - Chime Bell Play Button
 - Volume Control Button

AddPac
Smart Attendant Console Fire Alerting Screen Feature



- A Part
 - Fire Alerting Part
 - Automatic Fire Alerting Broadcasting
 - Show Fire Alerting Status



IP Voice Recording Solution



Contents

- IP Voice Recording Servers
- Network Diagram for Voice Recording
- SIP Voice Call Flow Diagram
- Smart Digital Voice Recording Management Program

IP Voice Recording Server AP-NR5000



Product Overview

AP-NR5000 IP Voice Recording Server

- IP based Voice Recording Server
- Linux Operating System
- Powerful Management and User Friendly Features
- High-performance Voice/Video Recoding Service
- External IP Phone (AP-IP300, AP-IP230, etc) Interworking Support
- Firmware Upgradeable Architecture
- One(1) 10/100/1000Mbps Gigabit Ethernet Interface
- Up to Five(5) 3.5Inch SATA Hard Disk Interface Support
- USB Interface Support



AP-N5000 IP Voice Recording Server

- High Performance Computing Power
- Main Processor Board
 - Network Interface
 - One(1) 10/100/1000Mbps Gigabit Ethernet
 - Video Output Interface
 - RGB Video Output
 - USB 2.0 Interfaces for Mouse, Keyboard, etc
- Hard Disk Board
 - Module Type Design
 - Up Five(5) Hard Disk Slots
 - 10~20 Tera HDD Capacity
- Power Supply
 - Dual Power Supply for Power Redundancy
 - Module Type Power Supply



AP-NR5000 IP Voice Recording Server

AP-NR5000 Front Side



AP-NR5000 IP Voice Recording Server

AP-NR5000 Back Side





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IP Voice Recording Server AP-NR3000



Product Overview

AP-NR3000 IP Voice Recording Server

- IP based Voice Recording Server
- Linux Operating System
- Powerful Management and User Friendly Features
- High-performance Voice/Video Recoding Service
- External IP Phone (AP-IP300, AP-IP230, etc) Interworking Support
- Firmware Upgradeable Architecture
- One(1) 10/100/1000Mbps Gigabit Ethernet Interface
- One(1) DVD Writer for Audio File Backup
- Up to Four(4) 3.5Inch SATA Hard Disk Interface Support
- USB Interface Support (Front Side, Back Side)



AP-N3000 IP Voice Recording Server

- High Performance Computing Power
- Main Chassis
 - Network Interface
 - One(1) 10/100/1000Mbps Fast Ethernet
 - Video Output Interface
 - HDMI, DVI, RGB Video Output
 - USB 2.0 Interfaces for Mouse, Keyboard, etc
 - One(1) DVD Writer for Video File Backup
 - Up to Four(4) Hard Disk

AP-NR3000 IP Voice Recording Server

AP-NR3000 Front Side





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AP-NR3000 IP Voice Recording Server

AP-NR3000 Back Side



Network Diagram for IP Phone Recording



SIP VoIP Call Flow



Smart DVoiceR Manager



Smart DVideo door phone R Management Program





- Call History Management (search/modify/delete/save)
- Media Play Management (Play/Stop/Seek/Pause)
- Live Call List Management, Live Call Monitoring
- Local Backup (File Manager Support, PC HDD, DVD) and Local Play
- User Management (registration/modify/delete/search)
- Server Status (CPU/Memory/HDD) & Event Monitoring
- Recording Source Management (Video Phone, etc)
- Live Recording Board



UI example (recording file search..)



Login



User Management





Recording Server Status Monitoring





Recording File Management

(Recorded File Monitoring (play/seek/pause/resume/stop))





Recording File List Save (Excel File Format)



Recording File Waveform Analyzer



Recording File Waveform Analyzer (Repeated Play)



Recording File Waveform Analyzer (Bookmark Play)



Recording File Waveform Analyzer (Column Side Zooming)



Recording File Waveform Analyzer (Row Side Zooming)



Recording File Waveform Analyzer (Region Zooming)



Recording File Waveform Analyzer (Call Info. Display)



Live Call Recording List and Monitoring

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System Monitoring	9 46557 172,17,213,100 2007-06-13 15:20:45	20 0/3/0	G7231_63=>… 2(
Event History	10 46560 172,17,213,100 2007-06-13 15:20:46		G7231_63=>… 50
E-B Recording Board	11 46561 172,17,213,100 2007-06-13 15:20:47		G7231_63=> ··· 20
	12 46546 172,17,213,100 2007-06-13 15:20:34	20 Record Information 4/3/0	G 7231_63=> ··· 50
	13 40303 172,17,213,100 2007-00-13 15:20:47 14 46562 172,17,213,100 2007-06-13 15:20:50	20 Start Time 2007-06-15 14:16:46 0/0/0	G7231_63=>···· 50
- 🥂 Map List	15 46545 172 17 213 100 2007-06-13 15:20:30	20 End Time 3/0/0	67231_63=> 20
	16 46564 172.17.213.100 2007-06-13 15:20:50	20 Record Duration 4/0/0	G7231_63=>··· 50
	17 46565 172,17,213,100 2007-06-13 15:20:51	20 Record Memo 5/3/0	G7231_63=≻··· 5(
	18 46547 172,17,213,100 2007-06-13 15:20:41	20 Call Information 0/2/0	G7231_63=>… 20
	19 46566 172,17,213,100 2007-06-13 15:20:52	20 Initiated Time 2007-06-15 14:18:56 6/2/0	G7231_63=> ··· 5(
	20 46548 172,17,213,100 2007-06-13 15:20:41	20 Established Time 2007-06-15 14:18:57	G 7231_63=> ··· 21
	21 46567 172,17,213,100 2007-06-13 15:20:52 22 46649 172,17,213,100 2007-06-13 15:20:32	20 Disconnected Time 2/0/0	G7231_63=>···· 50
	23 46568 172 17 213 100 2007-06-13 15:20:41	20 Call Duration 5/2/0	67231_63=>
	24 46569 172 17 213 100 2007-06-13 15:20:52	20 6/1/0	G7231_63=>··· 5[
	25 46570 172,17,213,100 2007-06-13 15:20:52	20 S/0/0	G7231_63=>··· 5(
	26 46550 172,17,213,100 2007-06-13 15:20:42	20 DialNumber 3006 DialNumber 5022 0/0/0	G7231_63=>… 2[
	27 46573 172.17.213.100 2007-06-13 15:20:53	20 Heer 4/1/0	G7231_63=>··· 5(
	28 6208 172,16,9,60 2007-06-13 15:20:30	20 Codec G711U Codec G711U 4/2/0	G729A_8=>G… 2L
	29 6209 172,16,9,60 2007-06-13 15:20:30	20 Directory /mnt/hda1/callrecfiles Directory /mnt/hda1/callrecfiles 5/0/0	G 729A_8=>G··· 21
	30 6223 172,10,3,60 2007-06-13 15:20:45	20 FileSize FileSize 4/0/0	G729A_0=2G 0
	32 6214 172 16 9 60 2007-06-13 15:20:32	20 4/3/0	6729A 8=>6 20
	33 6215 172.16.9.60 2007-06-13 15:20:32	20 4/1/0	G729A_8=>G… 21
	34 6224 172,16,9,60 2007-06-13 15:20:49	2007-06-13 15:2 2007-06-13 15:22:42 00:00:04 1006 1/2/0	G729A_8=>G… 6L
	35 5682 172, 16, 9, 60 2007-06-13 15:08:56	2007-06-13 15:1 2007-06-13 15:10:48 00:11:57 1015 3/3/0	G729A_8=>G… 6(
	36 6220 172, 16, 9, 60 2007-06-13 15:20:41	2007-06-13 15:2 2007-06-13 15:22:35 00:00:12 1004 1/0/0	G729A_8=>G… 60
	37 6221 172.16.9.60 2007-06-13 15:20:42	2007-06-13 15:2 2007-06-13 15:22:35 00:00:11 1005 171/0	G729A_8=>G··· 6L
			<u> </u>
♡ 2007-06-13 오후 3:22:47	📝 ver, 1,0,2720 💼 172,16,4,22:9200 🚺 ro	00	



Event Management (Configuration)



Event Management (Monitoring)

🖓 Smart DVoiceR Manager - [Re	cord Session]					
💰 <u>F</u> ile <u>A</u> dvanced <u>C</u> onfiguration <u>H</u> elp	p					_ 8 ×
2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -						
🖄 🏖 😒 📡			•	Smar		anager ac Technology
Smart DVoiceR Manager 🛛 🗛 >						
E @ Smart DVoiceB Manager	= 🥙 🛸 R	efresh Interval : 5 📑 se	C Apply			
🛱 🐉 User Management	No. Coll ID. Source ID.	Rea StartTime	Initiated Time	Established Time	Call Duration Ca	lling Num Calling
💋 Users	1 600 172 17 213	100 2007-06-14 16:25:24	2007-06-14 16:27:25	2007_06_14_16:27:29	Call Duration Ca	
🖨 🛲 Device Management	2 693 172 17 213	100 2007-06-14 16:25:24	2007-06-14 16:27:28	2007-06-14 16:27:29	00:00:20 500	05
Smart Recording Server	3 694 172.17.213	100 2007-06-14 16:25:25	2007-06-14 16:27:29	2007-06-14 16:27:30	00:00:19 500	ăi l
Smart Recording Terminal	4 695 172,17,213	100 2007-06-14 16:25:26	2007-06-14 16:27:29	2007-06-14 16:27:31	00:00:18 500	06
E Cording Management	5 696 172,17,213	100 2007-06-14 16:25:26	2007-06-14 16:27:30	2007-06-14 16:27:31	00:00:18 500	37
Record Search	6 697 172,17,213	100 2007-06-14 16:25:27	2007-06-14 16:27:31	2007-06-14 16:27:32	00:00:17 500	18
G Flecold Session	7 698 172, 17, 213,	100 2007-06-14 16:25:28	2007-06-14 16:27:32	2007-06-14 16:27:33	00:00:16 500	.19
Event & Monitoring	8 699 172,17,213,	100 2007-06-14 16:25:30	2007-06-14 16:27:34	2007-06-14 16:27:35	00:00:14 501	
Event Conliguration	10 701 172,17,213	100 2007-06-14 16:25:31	2007-06-14 16:27:34	2007-06-14 16:27:36	00:00:13 501	Event level
System Monitoring	11 702 172 17 213	100 2007-06-14 16:25:34	2007-06-14 16:27:37	2007-06-14 16:27:38	00:00:10 501	4 Configuration
Event History	12 703 172, 17, 213	100 2007-06-14 16:25:38	2007-06-14 16:27:42	2007-06-14 16:27:43	00:00:06 501	15 Conngulation
Recording Board	13 704 172,17,213	100 2007-06-14 16:25:39	2007-06-14 16:27:43	2007-06-14 16:27:44	00:00:05 300	DO Window
Board Users	14 705 172,17,213	100 2007-06-14 16:25:40	2007-06-14 16:27:44	2007-06-14 16:27:45	00:00:04 300	01
- 🥂 Board Groups	15 706 172,17,213.	100 2007-06-14 16:25:42	2007-06-14 16:27:45	2007-06-14 16:27:46	00:00:02 300	12
	16 684 172, 17, 213,	100 2007-06-14 16:25:17	2007-06-14 16:27:20	2007-06-14 16:27:21	00:00:27 301	12
		100 2007-06-14 16:25:43	2007-06-14 16:27:46	2007-06-14 16:27:47	00:00:01 300	Event Displa
Event Display Window		100 2007-06-14 16:25:16	2007-06-14 16:27:21	2007-06-14 16:27:22	00:00:26 301	75 04
Lvent Display window	20 687 172.17.213	100 2007-06-14 16:25:18	2007-06-14 16:27:22	2007-06-14 16:27:23	00:00:26 301	Window Clea
	21 685 172,17,213	100 2007-06-14 16:25:19	2007-06-14 16:27:23	2007-06-14 16:27:24	00:00:25 500	00
	22 689 172 17 213	100 2007-06-14 16:25:20	2007-06-14 16:27:23	2007-06-14-16-27-24	00:00:24 BO	
					eceiving raus	56
Event Monitoring			Event co	unt:276	🔽 🔽 Pau	se 號 🎁 🖂
DateTime Host	Severity Module	Description				~
Jun 14 07:25:43 172,16,4,22	Informational recording	recording stopping : cal	II_id = 682, ip = 172,17,213,1	00, mac_addr = 0002,a403	3, cc82	
Jun 14 07:25:43 172, 16, 4, 22 Jun 14 07:25:43 172 16 4 22	Informational recording	Stop Recording, bind id	:2003 : coll id = 707 in = 172 17 2	13 100 mag addr - 0002	-403 cc82	
Jun 14 U7:25:43 172, 16, 4, 22	Informational recording	Start Recording, bind id	2003	13,100, mac_addr = 0002,	a403,0002	
Jun 14 07:25:44 172,16,4,22	Informational recording	recording stopping : cal	II_id = 683, ip = 172,17,213,1	00, mac_addr = 0002,a403	3.cc82	
Jun 14 07:25:44 172, 16, 4, 22	Informational recording	new recording, bind id	:call id = 708 in = 172 17 2	13 100 mac addr = 0002	a403 cc82	
Jun 14 07:25:44 172, 16, 4, 22	Informational recording	Start Recording, bind id	:2003	10, 100, Mac 2000 - 0002,	a 100,0002	
Jun 14 07:25:44 172,16,4,22	Debug system	get current recording se	ession : Too i too to o	10.100	402 00	
Jun 14 07:25:44 172, 16, 4, 22 Jun 14 07:25:44 172 16 4 22	Informational recording	Start Becording starting Start	: califid = 709, ip = 172, 17, 2 ·2003	13, 100, mac_addr = 0002,	a403,CC82	
Jun 14 07:25:45 172, 16, 4, 22	Informational recording	recording stopping : cal	IL_id = 684, ip = 172, 17, 213, 1	00, mac_addr = 0002,a403	3.cc82	
Jun 14 07:25:45 172,16,4,22	Informational recording	Stop Recording, bind id	2003	12 100	402 00	
Jun 14 07:25:45 172, 16, 4, 22 Jun 14 07:25:45 172 16 4 22	Informational recording	new recording starting Start Becording _bind id	: call_ld = 710, ip = 172,17,2 :2003	13, 100, mac_addr = 0002,	a403, CC82	
Jun 14 07:25:46 172,16,4,22	Informational recording	recording stopping : ca	II_id = 686, ip = 172,17,213,1	00, mac_addr = 0002,a403	3.cc82	
Jun 14 07:25:46 172, 16, 4, 22	Informational recording	Stop Recording, bind id	:2003			
Juli 14 07:25:46 172, 16, 4, 22	system	get current recording se	3551011-1			×
🕗 2007-06-14 오후 4:28:57	📝 Ver, 1,0,2720 🛛 👔 17	2, 16, 4, 22:9200 🚺 root				3



Event Management

(System Monitoring)





Event Management (Event History)

🔯 Smart DVoiceR Manager - [Eve	nt History]		
🜊 <u>F</u> ile <u>A</u> dvanced <u>C</u> onfiguration <u>H</u> elp			_ = ×
		Soare	h Condition Sotting
	Event Search	Searc	Lo Smart DV - R Manager
I 🔍 🥷 💇 👺	Time Setting Ev	ant category	
		ent category	Autorac Technology
Smart DVoiceR Manager q ×	Event Time Category	Filter	
🖃 🧐 Smart DVoiceR Manager	Start : 2007-06-14 00:00 - Recordin	g 🗹 Debug 💽 🚽 Filter Nam	ne : Event
🖃 🚚 User Management	Play :	Debug 🗨 Rule :	IsExactly - Load
🚽 🌮 Users	End : 2007-06-14 23:59:59 🗸	Dahua I Casuah I	
🖻 🚍 Device Management	System	Debug 💽 Search :	
- Contract Second Server			
Smart Recording Terminal	No, Event Time Host	Category Severity	Event 🔺
E 🚳 Recording Management	22 2007-06-14 15:14:21 172,16,4,22	recording Informational	recording stopping : call_id = 0, ip = , mac_addr =
Record Search	23 2007-06-14 15:14:21 172,16,4,22	recording Informational	recording stopping : call_id = 0, ip = , mac_addr =
Hecord Session	24 2007-00-14 15:15:31 172,10,4,22 25 2007-06-14 15:15:22 172.16.4.22	recording Informational	new recording starting : call_id = 9702 , ip = $172,10,9\cdots$
Event & Monitoring	26 2007-06-14 15:15:32 172,10,4,22	recording Informational	new recording starting : call_id = 9788 in = $172,10,9$
Event Configuration	27 2007-06-14 15:15:33 172 16 4 22	recording Informational	new recording starting (called = 9790, ip = 172, 16, 9
Sustem Monitoring	28 2007-06-14 15:15:35 172.16.4.22	recording Informational	new recording starting : call_id = 9792, ip = 172,16,9
Event History	29 2007-06-14 15:15:37 172,16,4,22	recording Informational	new recording starting : call_id = 9794, ip = 172,16,9
Event History	30 2007-06-14 15:15:39 172,16,4,22	recording Informational	new recording starting : call_id = 9797, ip = 172,16,9…
Board Users	31 2007-06-14 15:15:40 172,16,1,48	system Debug	getChannelUsage : client ip = 172,16,1,48, port = 1824
Board Groups	32 2007-06-14 15:15:43 172,16,1,48	system Debug	get system information requested : cpu = 15%, mem…
Man List	33 2007-06-14 15:15:44 172,16,1,48	system Debug	get system information requested ; cpu = 20%, mem…
S map and	34 2007-06-14 15:15:45 172,16,1,48	system Debug	get system information requested (cpu = 20%, mem…
	35 2007-06-14 15:15:45 172,16,1,46 26 2007-06-14 15:15:46 172.16.1.49	system Debug	get transcoding channel usage : getCheppellloage : client in = 172.16.1.49, port = 1924
	37 2007-06-14 15:15:47 172:16:1.48	system Debug	getChannelosage - client ip = 172,10,1,40, port = 1024
	38 2007-06-14 15:15:47 172 16 1 48	system Debug	get system information requested (cpd = 1xs, memor
	39 2007-06-14 15:15:48 172.16.1.48	system Debug	getChannelUsage ; client ip = 172.16.1.48, port = 1824
	40 2007-06-14 15:15:49 172,16,1,48	system Debug	getChannelUsage : client ip = 172,16,1,48, port = 1824
	41 2007-06-14 15:15:50 172,16,1,48	system Debug	getChannelUsage : client ip = 172,16,1,48, port = 1824
	42 2007-06-14 15:15:51 172,16,1,48	system Debug	get system information requested : cpu = 16%, mem…
	43 2007-06-14 15:15:51 172,16,1,48	system Debug	get transcoding channel usage :
	44 2007-06-14 15:15:52 172,16,1,48	system Debug	getChannelUsage : client ip = 172,16,1,48, port = 1824
	45 2007-06-14 15:15:53 172,16,1,48	system Debug	getUhannelUsage : client ip = 172,16,1,48, port = 1824
	40 2007-06-14 15:15:54 172,16,1,48 47 2007-06-14 15:15:55 172.16.1.49	system Debug	getChannelosage : client ip = 172,16,1,46, port = 1624
		system Debug	getChannelUsage : client ip = 172,10,1,40, port = 1024
	49 2007-06-14 15:15:57 172.16.1.48	system Debug	get system information requested : cnu = 16% mem
	50 2007-06-14 15:15:57 172.16 1.48	system Debug	get transcoding channel usage :
	51 2007-06-14 15:15:58 172,16,4,22	recording Informational	recording stopping : call_id = 9785, ip = 172,16,9,60,…
	52 2007-06-14 15:15:58 172,16,1,48	system Debug	get system information requested : cpu = 8%, memor…
	JI52 2007_06_14_15-16-58_172_16_1_48	ouetoro Dobug	act transcoding chappel usage '
🕗 2007-06-14 오후 4:33:05	📝 Ver, 1,0,2720 💼 172,16,4,22:9200 🚺 root		



Recording Board Management

(Call User Registration)




(Call Group Registration)





(Background Image (MAP) Selection)



(Layout Configuration)



Recording Board Management (Live Monitoring) Мар Configuration (edit) Recording Board (Marketing Dept.) × ecording Board AddPac 52 🥘 Config 🛛 👫 Auto-Insert 🛛 💽 Edit Map 8 8 3 8 2 2 2 2 kwon young p senior manage kkim dhkim jhkwon smkim ohs mwlee mjlee bmlee 8 60 60 60 Map Information senior assistan jhjeon kscho jschoi Save Display (Icon Color) **Call Connection Call Status Display** con D Map Name Session Information 😂 User Icon 🛛 Over 1 minutes Over 5 minutes 🔝 Call Idle 🛛 📘 Call Busy Marketing Dept. Total 14 Idle 6 Busy 8 🛃 Over 3 minutes 🛃 Over 10 minutes

AddPac

(Call User Insert/Remove in MAP)



AddPac

(Background Image Loading)





(Call User Registration in Background MAP image)



Smart File Manager (Login)



AddPac

(Recorded Call List Search)

Smart File Manager								_ & ×	
Lile Management Help									_
AddPac >>				.010	2010101010	Sm	nart File M	anager	
Search Target Remote Database 💌	Start: 2007년 5월 4일	!금요일 <u>▼</u> End: 20	07년 5월 4	일 금요일 💌	Search	Advanced	(Total: 125	5) (Page 1/2) < >	
Remote Database (172.17.101.251)	Start Time	End Time	Durati	on Calling Numbe	r Calling L	Jser Called Numb	er Called Use	r Recording Source	
ia 100 2007	2007-05-04 05:28:40	2007-05-04 05:29:07	00:00:	27 5000		1015		172.17.213.100	
⊡··· <u>M</u> 05	2007-05-04 05:29:26	2007-05-04 05:29:53	00:00:	27 5000		1015		172.17.213.100	_
2007-05-04	2007-05-04 05:30:02	2007-05-04 05:30:29	00:00:	27 5000		1015		172.17.213.100	
	2007-05-04 05:30:56	2007-05-04 05:31:34	00:00:	38 5000		1015		172.17.213.100	
	2007-05-04 05:32:09	2007-05-04 05:32:36	00:00:	27 5000		1015		172.17.213.100	Search List
	2007-05-04 05:33:12	2007-05-04 05:33:39	00:00:	27 5000		1015		172.17.213.100	
	2007-05-04 05:34:24	2007-05-04 05:34:51	00:00:	27 5000		1015		172.17.213.100	(Server)
	2007-05-04 05:35:18	2007-05-04 05:35:45	00:00:	27 5000		1015		172.17.213.100	(00)
	2007-05-04 05:36:21	2007-05-04 05:36:48	00:00:	27 5000		1015		172.17.213.100	
	2007-05-04 05:36:57	2007-05-04 05:37:24	00:00:	27 5000		1015		172.17.213.100	
	2007-05-04 05:37:33	2007-05-04 05:38:00	00:00:	27 5000		1015		1/2.1/.213.100	
						-	1		
E 😝 Local Database (127.0.0.1) ⊡ 🔽 2007 ⊡ 🚺 05	Start Time	End Time	Duration	Calling Number	Calling User	Called Number	Called User	Recording Source Men	
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	-								(Local)
			Status						(,
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🕗 2007-05-04 오후 9:16:57 🛛 📝 ven	sion 1.0.2651	172.17.101.251:9200	🚺 🚺 Admi	inistrator	Waitting	Next Backup Time(20	07-05-06 오전 3:00	0:00)	
			1						



Smart File Manager (Configuration and Search Filter)

Smart File Manager File Management Help AddPac	「日文 Smart File Manager AddPac Te-Imploy
Search larget Remote Database Remote Database (172.17.101.251)	Start: 2007년 19 19 19 19 19 19 10 10 Start: Imme End Time Duration Calling Number Called Number Called User Recording Source Mer Onliguration Imme End Time Duration Imme FTP Information Imme Becord Time Start 2007-05-04 Q:21 12:00:00 End Z007-05-04 Q:22 12:00:00 End Z00:00
	Ok Cancel Ok Cancel



(Call List Properties)

🥸 Smart File Manager									_ 8 ×			
<u>F</u> ile <u>M</u> anagement <u>H</u> elp												
婱 🥹 🤣 🥩												
AddPac >>				0101011		Sma Sma	rt File Mai	hager				
Search Target Remote Database 💌	Start: 2007년 5월 4일	금요일 💌 End: 200	7년 5월 4일	금요일 🔽 Sea	arch Adva	nced	(Total: 36348) (I	Page 1/37)	< >			
🖃 🍖 Remote Database (172.17.101.251)	Start Time	End Time	Duration	Calling Number	Calling User	Called Number	Called User	Recording S	Source 🔺			
	2007-05-04 05:28:40	2007-05-04 05:29:07	00:00:27	5000		1015		172.17.213.	100			
	2007-05-04 05:28:41	2007-05-04 05:29:08	00:00:27	5012		1027		172.17.213.	100			
	2007-05-04 05:28:42	2007-05-04 05:29:09	00:00:27	6007		1007		172.17.213	100			
	2007-05-04 05:28:46	Download	00:00:27	6008		1008		172.17.213	100			
	2007-05-04 05:28:47	Delete	00.00.27	5013		1028		172.17.213.	100			
	2007-05-04 05:28:50	Refresh F5	00:00:27	6011		1011		172.17.213.	100			
	2007-05-04 05:28:54	- Dranartian	00:00:27	5005		1020		172 17 213	100			
	2007-05-04 05:28:58	Properties	Recordin	g Session Ir	nformation	n						×
	2007-05-04 05:28:58	2007-05-04 05:29:44	Filename		Start Time	£	End Time		Duration	Size	Codec	
	1		2460720	070503202842	. 2007-05-0	4 05:28:42	2007-05-04	05:29:09	00:00:27	146 KB		1
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② 2007-05-04 오후 9:20:38 ☑ ver	sion 1.0.2651	172.17.101.251:9200	🛛 🔀 Administ	trator 🔯 W	/aitting Next B	ackup Time(2007-	05-06 오전 3:00:00))				



(Server to Local Backup)

AddPac >>					1	> Sm	art File Ma	anager Technology	2
arch Target Remote Database 💌	Download						(Total: 36348)) (Page 1/37) 🔇	>
Remote Database (172 17 101 251)	Total : 1996					-	Recording Sour	me Memo	1.
2007	File Name	Duration	Size	DateTime	Status		170 17 010 100		_
	✓ callrecfiles/20070504/2460120070	. 00:00:27	147 KB	2007-05-04 05:2	Done		172.17.213.100		
	✓ callrecfiles/20070504/2460120070	. 00:00:27	178 KB	2007-05-04 05:2	Done		172.17.213.100		
	✓ callrecfiles/20070504/2461320070	. 00:00:27	147 KB	2007-05-04 05:2	Done		172.17.213.100		
	✓ callrecfiles/20070504/2461320070	. 00:00:27	174 KB	2007-05-04 05:2	Done		1/2.1/.213.100	2	
	✓ callrecfiles/20070504/2462320070.	. 00:00:27	147 KB	2007-05-04 05:2	Done		1/2.1/.213.100)	
	callrecfiles/20070504/2462320070.	00:00:27	178 KB	2007-05-04 05:2	Done		1/2.1/.213.100	2	
	✓ callrecfiles/20070504/2462620070.	. 00:00:27	146 KB	2007-05-04 05:2	Done		1/2.17.213.100		
	✓ callrecfiles/20070504/2462620070.	. 00:00:27	176 KB	2007-05-04 05:2	Done		172.17.213.100	0	
	✓ callrecfiles/20070504/2464120070.	. 00:00:27	144 KB	2007-05-04 05:2	Done		172.17.213.100	0	
	callrecfiles/20070504/2464120070.	00:00:27	176 KB	2007-05-04 05:2	Done		172.17.213.100	0	
	callrecfiles/20070504/2464320070	00:00:27	146 KB	2007-05-04 05:2	Done	-			-
									<u> </u>
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Smart NMS Smart Network Management System

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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
- 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

AddPac

www.addpac.com

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

AddPac

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

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Device Event History

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2009-04-13 40 0 2009-04-12 6 0	4U U 6 0	0 Ack II	D Severity	Event Time	Site	Device Name	IP Address	Servi	Message	with search condit	tion
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<		> Res	ults : 1 to 20 of 25346	Q Search Cons	traints : user=admin						2
ly event statistics	Site	Device Name	e IP Address	Service Me	ssage						
9502 4/10/2009 3:34:29 PM	/AddPac/Branch GX /AddPac/HeadQuarter /Subnetwork #2/Cent	00_RBT_serv 5th floor me NMS_SOHO	/er sting _PBX	dev dev dev	vice 00_RBT_server's all service vice 5th floor meeting room phor vice NMS_SOH0_PBX, all servic	s are down. e device, all services ar es are down	re down.				
9495 4/10/2009 11:37:12 AM	/AddPac/Branch GX	IPNext 3000	Slave 172.17.113.41	Call inte Manager Cal	rface 172.17.113.41 (172.17.11 Manager 2009-4-10 11:37:12 f	3.41) device (IPNext 30 ailed.	100 Slave) servic	e			
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9239 4/6/2009 7:49:20 PM	/AddPac/Branch AQ	NMS Camera	2 172.16.253.11	8 res	ponse or delete by administrator	112.10.200.110 (172.10	.200.110/1100				~

- 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

🛃 Status	🖆 Status Information - IPNext 3000 Master												
System Stat	us Information Perfe	ormance Histor	y Perfor	mance Monitorin	g								
Today's Ava	ailability	CPU Utili	zation		Memory Utiliz	ation		Stora	ge Utilization				
10 °		1 20 1 20 1 10 1 10	Tot Use Fre	al : 1024 MB ed : 686.3 MB e : 337.7 MB	/hd		Total : 298 GB Used : 203.4 M Free : 297.8 GB	B ⊲ ⊳					
Interface Sta	atus												
Index	Name	IP Addre	ss	Speed	Status Rx Traffic Tx Traffic				Errors (pkts)				
2	GigabitEthernet0/0	172.17.1	13.40	1Gbps	⊜ up	9.7Kbps	10.1Kbps	\$	0				
3	GigabitEthernetU/1	0.0.0.0		lubps	down	U bps	U bps		U				
Service Info	ormation (Availability: F	^o ersentage ov	er last 24 ł	nours) Apply	Service M	Service Monitor Status							
Interface / S	Service Name	Status	Availabili	tu	Service		h	Aaximum	Value	Used			
🔽 Call Mana	ager	down	76.001%	,	CM Servic	e							
🗹 172.17.1	113.40				Call Mana	ager - Call Count	5	000	0	0%			
ICMP		🔵 up	97.743%		Call Mana	ager - Soft Phone (Count 1	00	0	0%			
SNMP • up		97.743%		Call Man	ager - Terminal Co	unt 5	000	7	0%				
Overall Availa	ability		90,496%										

AddPac

www.addpac.com

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 (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





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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