Voice Recording Solution for IP Centrex Service







AddPac Technology

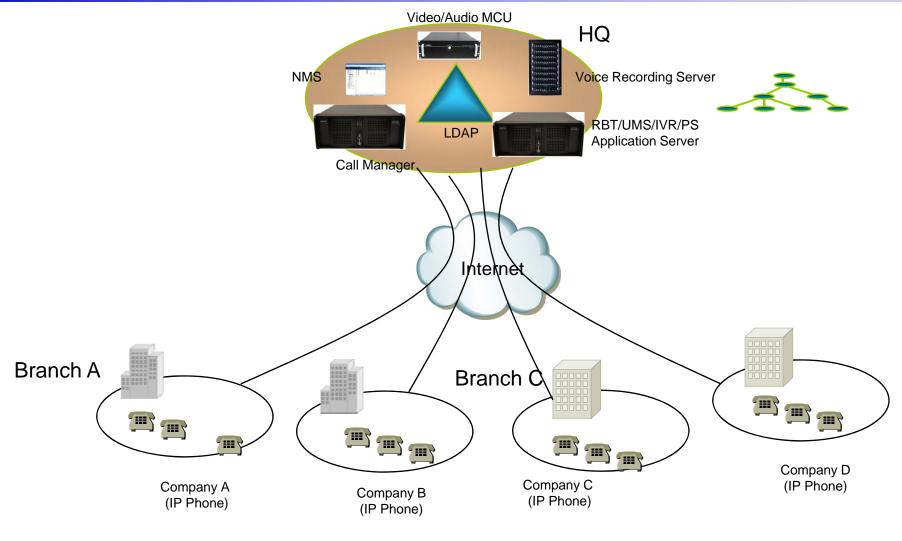
Sales and Marketing

www.addpac.com

Contents

- Network Diagrams
- Product Specifications
 - IP Voice Recording Server : AP-NR1500
 - IPNext180 SIP Proxy Server for Voice Recording
 - AP-IP120 IP terminal
 - Smart Digital Voice Recording Management Program

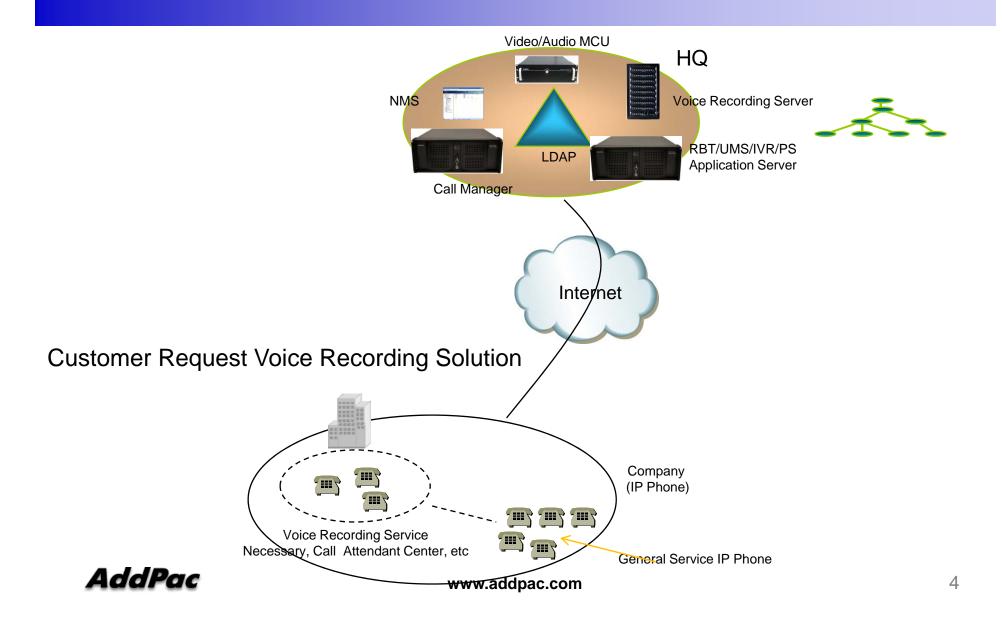
Network Diagram (IP Centrex Service)



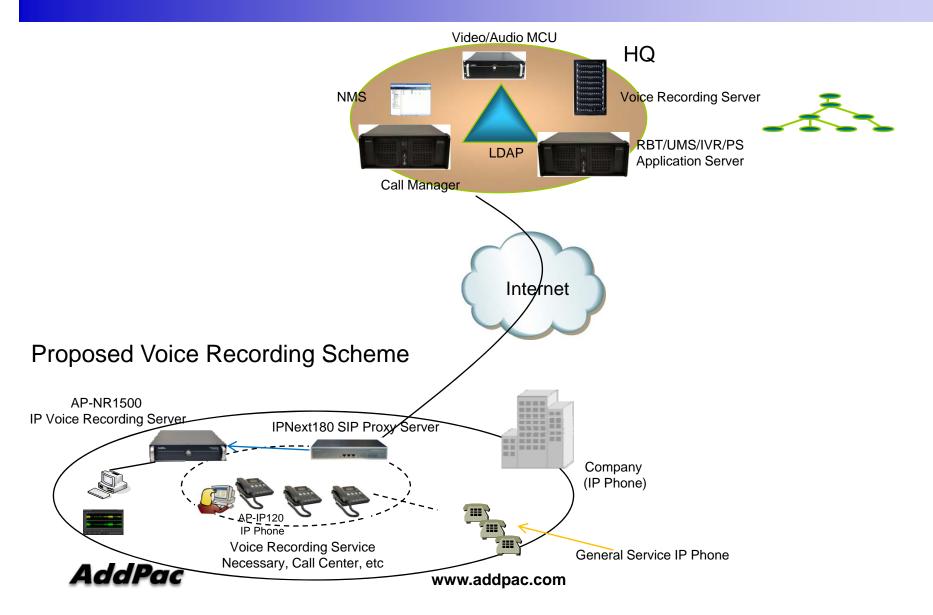
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Network Diagram (IP Centrex Service)



Network Diagram (IP Centrex Service)



Product Solution Overview



AP-NRR1500 IP Voice Recording Server





Product Overview

AP-NR1500 IP Voice Call Recording Server

- IP based Network Voice Call Recording Server
- Linux Operating System
- Powerful Management and User Friendly Features
- High-performance Voice Recording Service
- External AddPac IP Terminal (Ex: IP Phone, IP Intercom, IP Emergency Phone) Interworking Support
- Firmware Upgradeable Architecture
- One(1) 10/100/1000Mbps Gigabit Ethernet Interface
- Up to Two(2) 3.5Inch SATA Hard Disk Interface Support
- Two(2) USB Interface Support
- One(1) RS232C Console Interface



AP-N1500 IP Voice Call Recording Server

- High Performance Computing Power
- Network Interface
 - One(1) 10/100/1000Mbps Gigabit Ethernet Port
- Two(2) USB 2.0 Interfaces for Mouse, Secondary Storage, etc
- One(1) RS232C Console Interface (RJ45)
- Up Two(2) SATA type Hard Disk (4~8 Tera HDD Capacity)
- Power On/Off Soft Switch with LED Indication Lamp (Front Side)

AP-NR1500 IP Voice Call Recording Server

AP-NR1500 Front Side



Power On/Off Switch with LED Indication LAMP



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AP-NR1500 IP Voice Call Recording Server

AP-NR1500 Back Side



IPNext180 SIP Proxy Server for Voice Recording





Product Overview

IPNext180 Next Generation Hybrid IP-PBX System

- IP based Advanced Hybrid IP-PBX Solution
- IPv4/IPv6 Multimedia Telephony Solution for Small Office
- PSTN Interface (FXO, FXS) Support
- Powerful Management and User Friendly Features
- Fault Tolerant and Scalability Architecture
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- IVR Service with Scenario Editor
- Voice Mailing Service
- Presence Service for High-End IP Key Phone, UC
- RTP Proxy Service for Private IP service
- SIP, H.323 Signaling for Outbound Calls
- Various Call Scenario (Call Pickup, Call Park, Call Transfer, etc)
- Various IP Terminal Support





IPNext180 Next Generation Hybrid IP-PBX System

- RISC Microprocessor Computing Power
- Main Chassis
 - Fixed Network Interface
 - Two(2) 10/100Mbps Fast Ethernet
 - One(1) RS-232C Console (RJ45)
 - Two(2) VoIP Module Slots for FXS, FXO etc

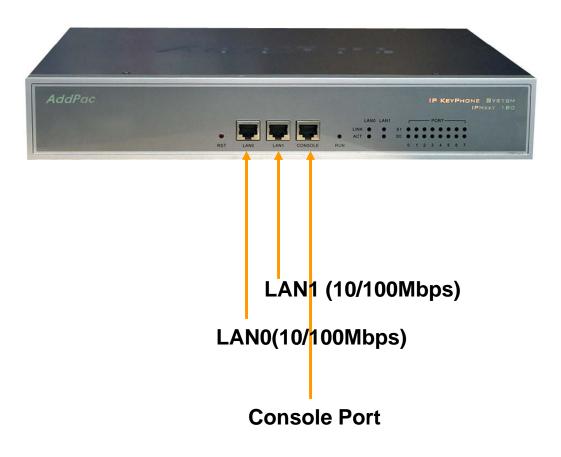




IPNext180 Next Generation Hybrid IP-PBX System

64bit CPU DSP

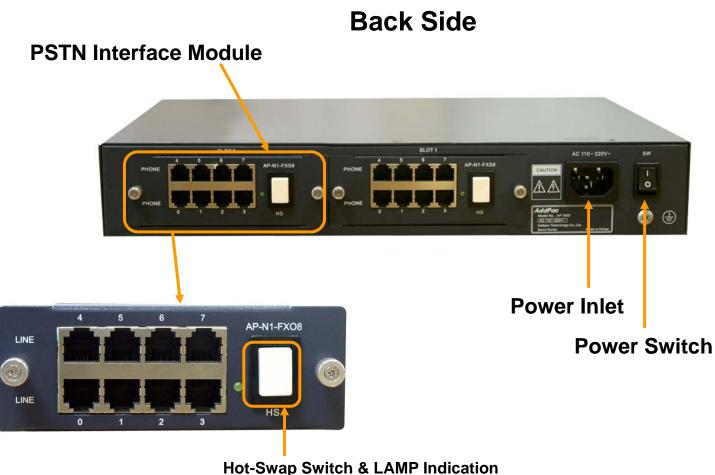
Front Side



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IPNext180 Next Generation Hybrid IP-PBX System



Hot-Swap Switch & LAWF Huic



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64bit

CPU

DSP

IPNext180 Next Generation Hybrid IP-PBX System

• VoIP Interface Module



AP-N1-FXS8	8-Port FXS Voice Processing Module (8 x RJ11)
AP-N1-FXO8	8-Port FXO Voice Processing Module (8 x RJ11)
AP-N1-FXO4S4	4-Port FXO and 4-Port FXS Voice Processing Module (8 x RJ11)
AP-N1-E1T1	1-Port VoIP Digital E1/T1 Interface Module(1xRJ45)

IPNext180 Next Generation Hybrid IP-PBX System

Signaling Server

- SIP Application Server, Proxy, Registrar and Location Server (RFC3261)
- Multiple ITSP Trunk with SIP & H.323 Accounts Support
 - IP UA Client Role for Registering to ITSP SIP Server
 - H.323 Gatekeeper Client Role for Registering to ITSP H.323 Gatekeeper Server

• IVR & Auto Attendant

- Default Auto Attendant Support
- Interactive Voice Response (IVR)
 - Provides with GUI-based Smart IVR Scenario Editor
 - Upload/Download Scenario by Smart IVR Scenario Editor
 - Supports Multiple Concurrent Scenarios
 - Supports Recordable IVR Prompts

Voice Mail

- Support Voice Mail with IVR
- Access from Remote Site via Trunk Support
- Voice Mail Notification Support



IPNext180 Next Generation Hybrid IP-PBX System

• Number & Call Routing

- Trunk Hunting by Preference or Sequential
- Call Hunting by Preference, Simultaneous, Random
- Call Hunting by Chained Hunting Group
- Partition for Address Grading
- Call Class for Call Access Control
- Number Translation Rule for Inbound/Outbound Call
- Centrex with Prefix Support
- Multiple Shared Devices with One Number
- Multiple Numbers on One Device
- Individual Call Park within Park Number Pool
- Group Call Park within a Group or Other Group
- Call Pickup of Ringing Call of Same Group or Other Group
- Call Pickup of Parked Call
- Call Transfer Blind, Consult
- Call Forwarding Unconditional, Busy, No Answer, Voice Mail
- Call Waiting
- Call Swaping
- Call Hold



IPNext180 Next Generation Hybrid IP-PBX System

• IP-PBX Advanced Features with AddPac IP Phones

- Multiple Call Handling with Call Status and Calling Line Number and Name
- Plug and Play with Auto Discovery Function
- Softkey Map Download and Control
- Time and Date Setting
- Voice Mail List View
- Parked Call List View
- Call Forward Setting
- Recent Call List View
- Calling Number and Name Identification
- Individual Call Park within Park Number Pool by Softkey
- Group Call Park within a Group or Other Group by Softkey
- Call Pickup of Ringing Call of Same Group or Other Group by Softkey
- Call Pickup of Parked Call by Softkey
- Call Transfer Blind, Consult by Softkey
- Call Waiting Indication
- Call Swaping by Softkey
- Call Hold by SoftKey
- Conference Control



IPNext180 Next Generation Hybrid IP-PBX System

User & Device Management

- LDAP (Light weight Directory Access Protocol) Support
 - Supports Hierarchical Organization
- Auto Discovery of IP Phones & Video Phones
- Monitoring Status of Phones

Miscellaneous*

- Distinctive Ring by Calling User
- Auto Config & Upgrade
- Personal Directory
- Downloadable Ring
- Do not Disturb

IPNext180 Next Generation Hybrid IP-PBX System

• Conference

- G.711 (4-party Conference, 2 session) : Basic
- G.711/G.729/G.723 (4-party Conference, 2session) Internal MCU Module : Option
- Ad-hoc Conference
- Dial-Out Conference
- Meet-me Conference
- Multiple External MCU support(Video, Audio, etc) : AddPac AP-MC1000, etc
- Conference Chair and Participants Management

Music & Announcement

- Music on Hold
- Replaceable Announcements
- Dialing Music / Tone Service



AP-IP120 IP Phone





Product Overview

AP-IP120 IP Phone

- IP Phone Solution
- 12 Speed-Dial Key with Presence Indication Lamp
- Audio Broadcasting Solution
- High-performance Audio, and Voice Service
- Firmware Upgradeable Architecture
- VoIP Solution with Outstanding Network Service Capability
- Audio Privacy Protection

AP-IP120 IP Phone

- RISC+DSP Microprocessor Computing Power (Dual Processor Architecture)
- Optional PSTN Backup (FXO) Interface
- Optional PoE (Power over Ethernet)
- High quality Audio and Voice Interface
 - Stereo Audio Input Connector
 - Stereo Audio Output Connector
- Network Interface
 - Two(2) 10/100Mbps Fast Ethernet
- LCD Window : Graphic LCD (4 Line Text)
- 12 Speed-Dial Key with Presence Indication LAMP
- Power Supply
 - External Power Adaptor (5V, 2A)

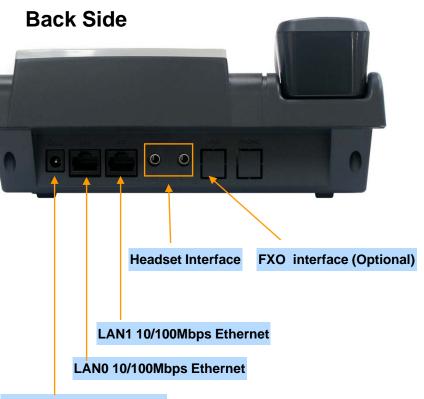


AP-IP120 IP Phone

Hardware Specifications

AP-IP160 IP Phone	Basic Specifications
CPU	RISC Microprocessor
Ethernet Interface	2-Ports 10/100Mbps Ethernet Interface(RJ-45)
PSTN Backup Port (Optional)	1-Port PSTN Backup Port(RJ-11)
Flash Memory	4Mbyte High-speed Flash Memory
Base Memory	16Mbyte High-speed SDRAM
Power Requirement	External Power Supply Adaptor / VAC 110~220V, 50/60Hz, 10Watt(5V,2A)
	Power over Ethernet (option)
Operating Temperature	0°C ~ 45°C (32 °F ~ 122°F)
Storage Temperature	-40°C ~ 85°C (-40°C ~ 185°F)
Relative Humidity	5% ~ 95% (Non-condensing)
Dimensions	H x W x D (70mm x 200mm x 210mm)
Weight (g)	1Kg

Network interface Configurations



External Power Interface

Audio & Voice Service and Features

AP-IP120 IP Phone

• Audio & Voice Networking Interface

- Audio Input/Output Port (2 x 3.5mm Stereo Female Connector)

• VoIP based Signaling Protocol Support

- H.323, SIP Multiple Signaling Protocol Stack
- H.323 Gateway, Gatekeeper Support

• High-performance Audio & Voice Codec Support

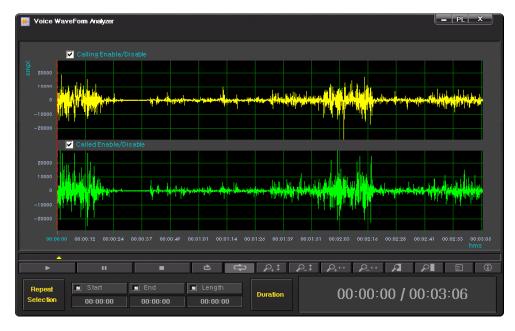
- Line IN/OUT : G.726, G.711 Audio Codec, etc
- Enhanced QoS Management Features for Voice Traffics

Smart DV_{oice}R Management Program for Voice Recording Server



Contents

- Overview
- Smart Digital Voice Recorder Manager
- Smart File Manager for Secondary Backup

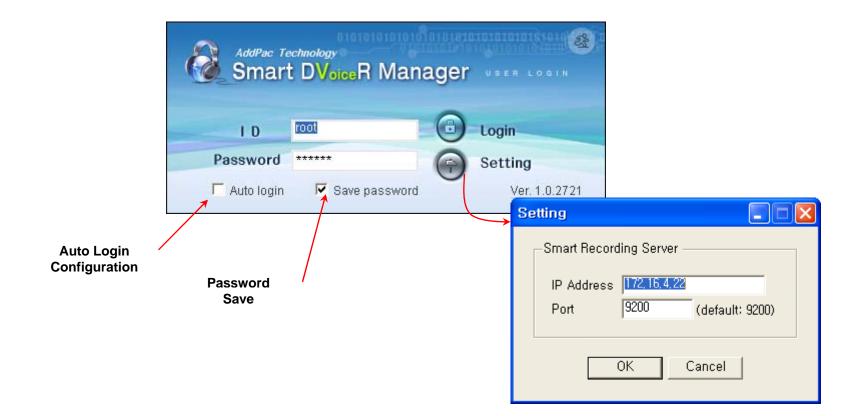


Overview

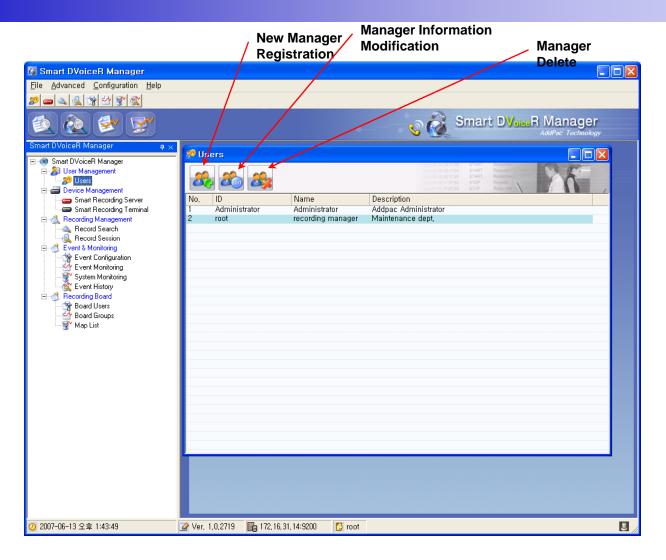
- Call History Management (search/modify/delete/Excel File save)
- Media Play Management (Play/Stop/Seek/Pause)
- Live Call Recording List Management
- Live Call Monitoring (Play)
- Local Backup (File Manager Support, PC HDD, DVD) and Local Play
- Event History Search
- User Management (registration/modify/delete/search)
- Server Status (CPU/Memory/HDD/Transcoding) & Event Monitoring
- Recording File Waveform Analyzing Function
- Recording Source Management (VoIP Gateway, IP Phone, etc)
- Live Call Recording Board (Recording Board Design, Live Call Status, Voice Monitoring)



Login

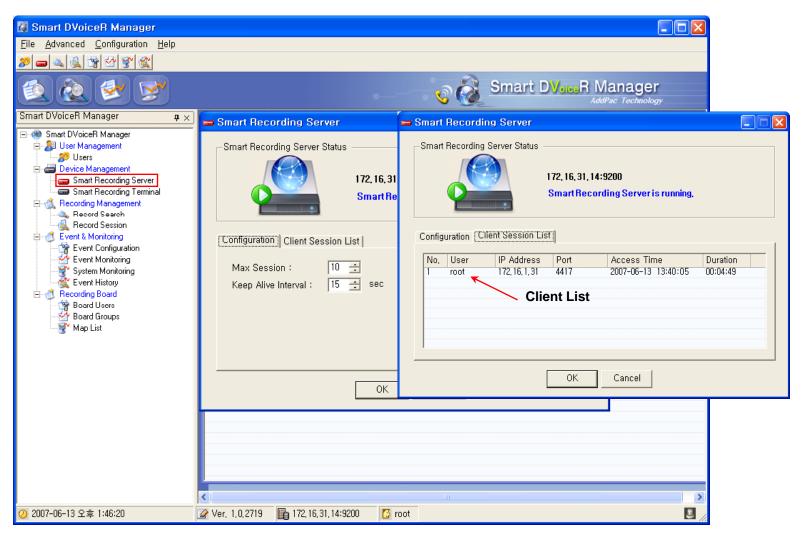


User Management





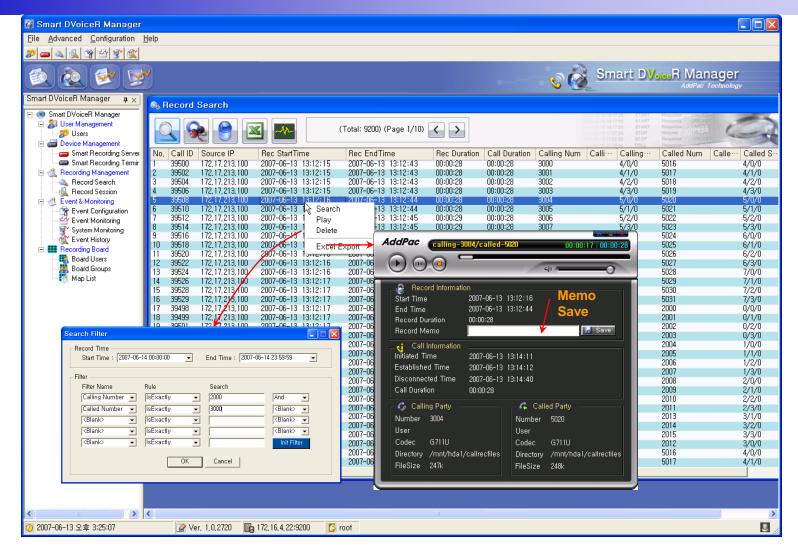
Recording Server Status Monitoring





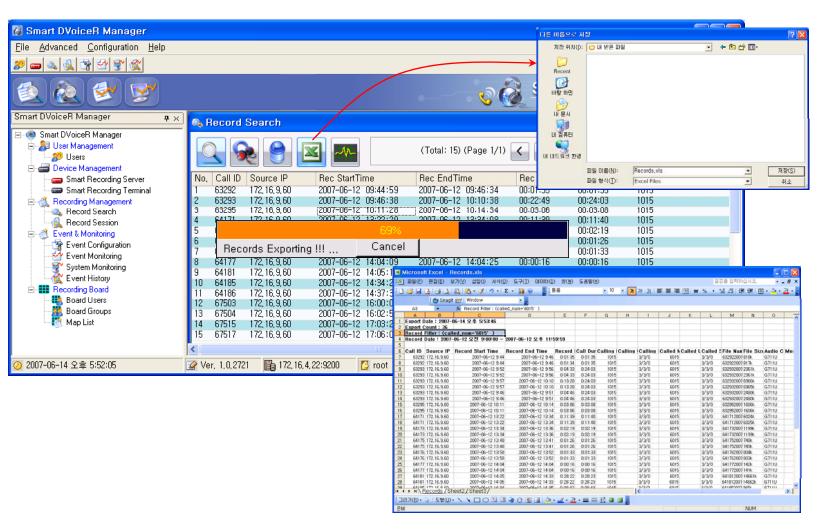
Recording File Management

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





Recording File List Save (Excel File Format)



Recording File Waveform Analyzer

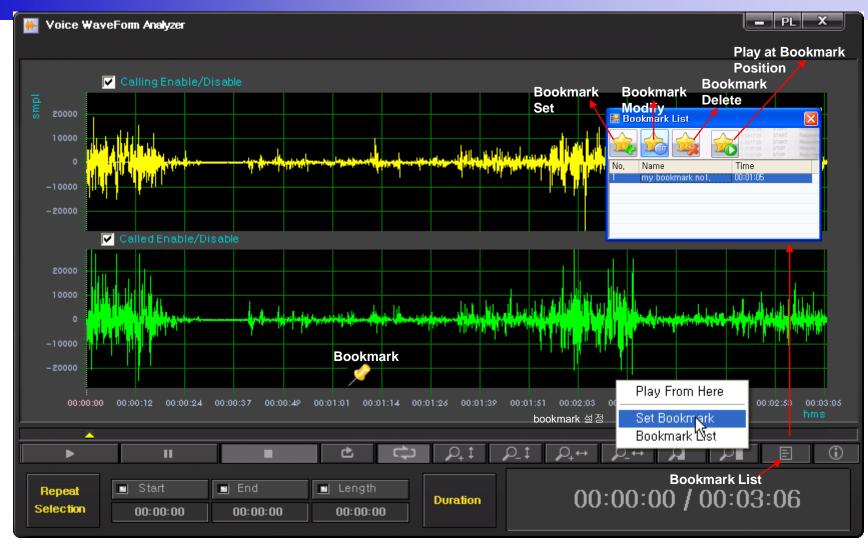


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Recording File Waveform Analyzer (Repeated Play)



Recording File Waveform Analyzer (Bookmark Play)



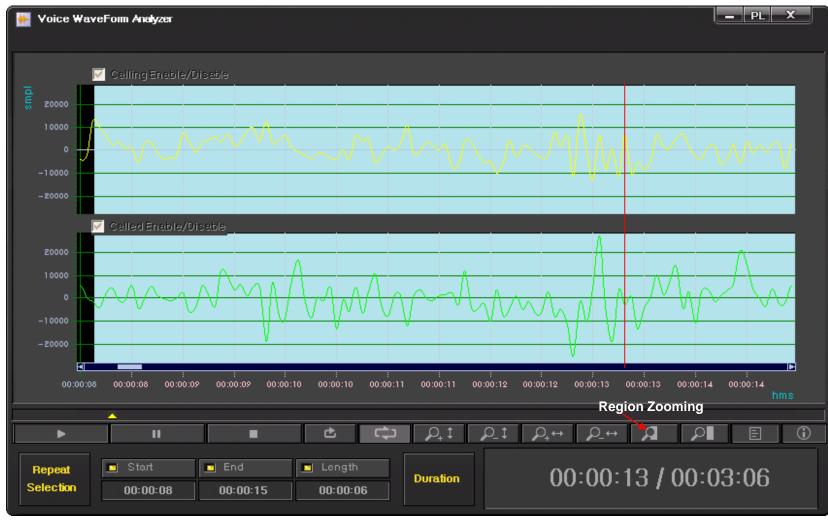
Recording File Waveform Analyzer (Column Side Zooming)



Recording File Waveform Analyzer (Row Side Zooming)



Recording File Waveform Analyzer (Region Zooming)



Recording File Waveform Analyzer (Call Info. Display)

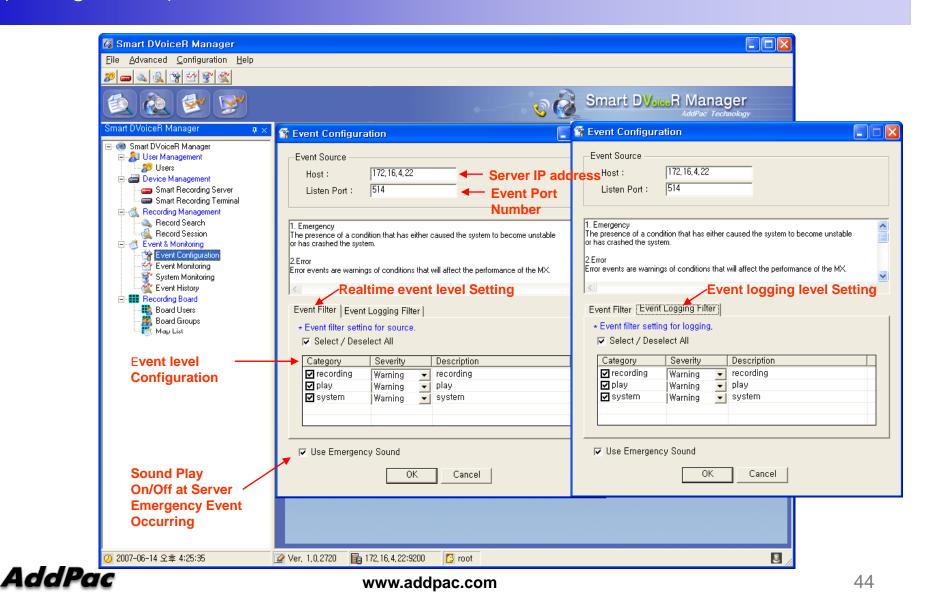


Live Call Recording List and Monitoring

👪 Smart DVoiceR Manager			
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Event Management (Configuration)



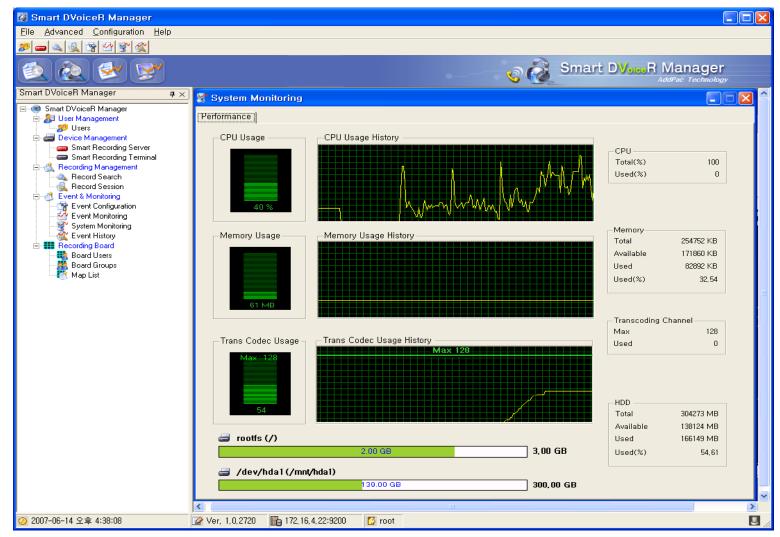
Event Management (Monitoring)

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	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 5014	Configuration
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ID 14 11725344 172 16 4 22	Informational Informational	recording	Start Recording, bind id: recording stopping 1 call	2003 Lid = 683, ip = 172, 17, 213, 1	100 mag addr - 0002 a40	13 cc82	
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in 14 07:25:44 172 16 4 22	Informational Debug	recording system	Start Recording, bind id: get current recording se	ssion :			
in 14 07:25:44 172,16,4,22	Informational	recording	new recording starting :	call_id = 709, ip = 172,17,2	213, 100, mac_addr = 0002	, a 403, c c 82	
in 14 07:25:44 172,16,4,22 in 14 07:25:45 172,16,4,22	Informational Informational	recording recording	Start Recording, bind id: recording stopping : call	2003 Llid = 684, ip = 172,17,213,1	100 mac addr = 0002 a40	13 cc82	
ID 14 117:25:45 172 15 4 22	Informational	recording	Stop Recording, bind id:	2003			
un 14 07:25:45 172,16,4,22 un 14 07:25:45 172,16,4,22	Informational Informational	recording	new recording starting : Start Recording, bind id:	call_id = 710, ip = 172,17,2	213, 100, mac_addr = 0002	,a403,cc82	
un 14 07:25:45 172,16,4,22 un 14 07:25:46 172,16,4,22	Informational	recording recording	recording stopping : call	Lid = 686, ip = 172,17,213,1	100, mac_addr = 00 <u>02.a40</u>	13, cc82	
un 14 07:25:46 172,16,4,22	Informational	recording	Stop Recording, bind id:	2003			
un 14 07:25:46 172,16,4,22	Debug	system	get current recording se	881011-3			~



Event Management

(System Monitoring)



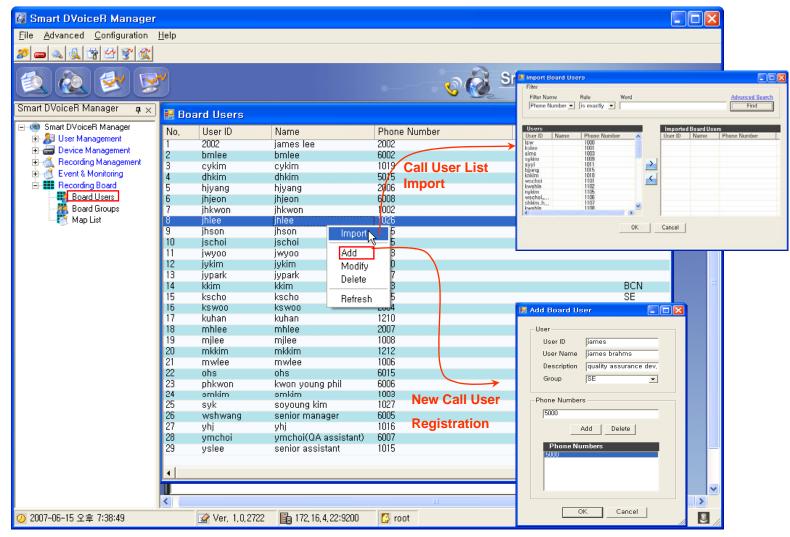


Event Management (Event History)

<u>File A</u> dvanced <u>C</u> onfiguration <u>H</u> elp			- !
	Event Search		Search Condition Setting
0 60 🛠 😒			Smart DVR Manager
	Time Setting	Event category	AddPac Technology
art DVoiceR Manager 🛛 🗛 🗙		ategory	Filter
Smart DVoiceR Manager	Start : 2007-06-14 00:00:00 👻	Recording Debug	Filter Name : Event
🔁 🎝 User Management		Play : Debug 💌	Rule : IsExactly 💽 Load
Sers Users	End : 2007-06-14 23:59:59 💌	System : Debug 👻	Search :
E - Device Management	J.	System: poolag	
- Smart Recording Server			
Smart Recording Terminal	No, Event Time Host		erity Event
E 🔩 Recording Management	22 2007-06-14 15:14:21 172,16,4		rmational recording stopping ; call_id = 0, ip = , mac_addr =
	23 2007-06-14 15:14:21 172,16,4 24 2007-06-14 15:15:31 172,16,4		rmational recording stopping : call_id = 0, ip = , mac_addr = rmational new recording starting : call_id = 9702, ip = 172,10,9~
	24 2007-06-14 15:15:01 172,16,4 25 2007-06-14 15:15:32 172,16,4		rmational new recording starting : call_id = 9702, ip = 172,10,900 rmational new recording starting : call_id = 9784, ip = 172,16,900
	26 2007-06-14 15:15:32 172,16,4		rmational new recording starting : call_id = 9788, ip = 172,16,9**
- 😭 Event Configuration	27 2007-06-14 15:15:33 172,16,4		rmational new recording starting : call_id = 9700, ip = 172,10,9**
Event Monitoring	28 2007-06-14 15:15:35 172,16,4		rmational new recording starting : call_id = 3730, ip = 172,10,344
System Monitoring	29 2007-06-14 15:15:37 172,16,4		rmational new recording starting : call_id = 3132, ip = 112,10,3
Event History	30 2007-06-14 15:15:39 172.16.4		rmational new recording starting : call_id = 9797, ip = 172,16,9…
E Recording Board	31 2007-06-14 15:15:40 172,16,1		
- 🌉 Board Users	32 2007-06-14 15:15:43 172,16,1		
Board Groups	33 2007-06-14 15:15:44 172,16,1		
	34 2007-06-14 15:15:45 172,16,1		
	35 2007-06-14 15:15:45 172,16,1	l,48 system Deb	ug get transcoding channel usage :
	35 2007-06-14 15:15:45 172,16,1 36 2007-06-14 15:15:46 172,16,1 37 2007-06-14 15:15:47 172,16,1		
		1,48 system Deb	ug get system information requested : cpu = 1%, memor…
	38 2007-06-14 15:15:47 172,16,1	1,48 system Deb	ug get transcoding channel usage :
	39 2007-06-14 15:15:48 172,16,1		
	40 2007-06-14 15:15:49 172,16,1		
	41 2007-06-14 15:15:50 172,16,1		
	42 2007-06-14 15:15:51 172,16,1		
	43 2007-06-14 15:15:51 172,16,1		
	44 2007-06-14 15:15:52 172,16,1		
	45 2007-06-14 15:15:53 172,16,1		
	46 2007-06-14 15:15:54 172,16,1		
	47 2007-06-14 15:15:55 172,16,1		
	48 2007-06-14 15:15:56 172,16,1 49 2007-06-14 15:15:57 172,16,1		
	49 2007-06-14 15:15:57 172,16,1 50 2007-06-14 15:15:57 172,16,1		
	51 2007-06-14 15:15:57 172,16,		ug get transcooling channel usage ; rmational recording stopping ; call_id = 9785, ip = 172,16,9,60,…
	52 2007-06-14 15:15:58 172,16,1		
		, 40 System Deb	ag get system in on allon requested - cpu - ox, memoria

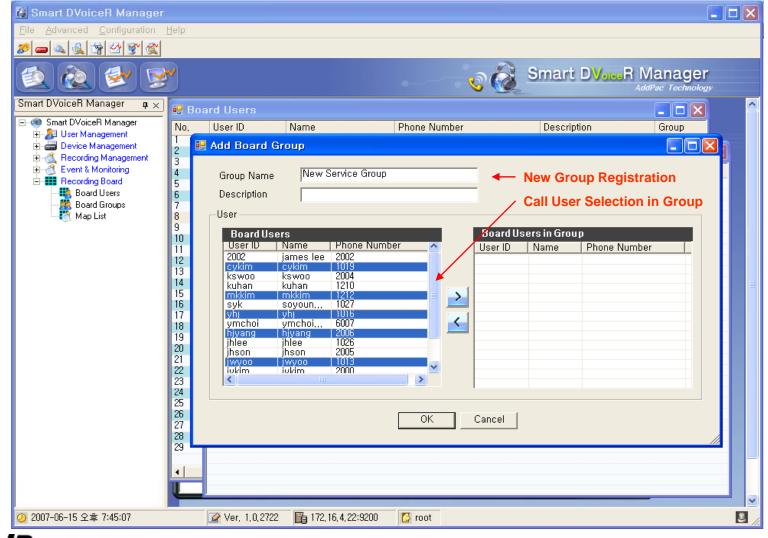


(Call User Registration)



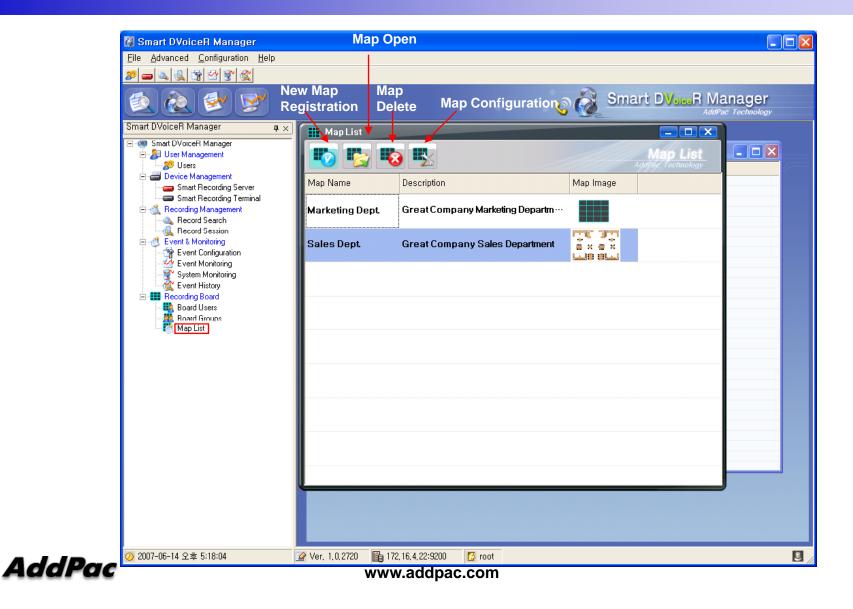


(Call Group Registration)

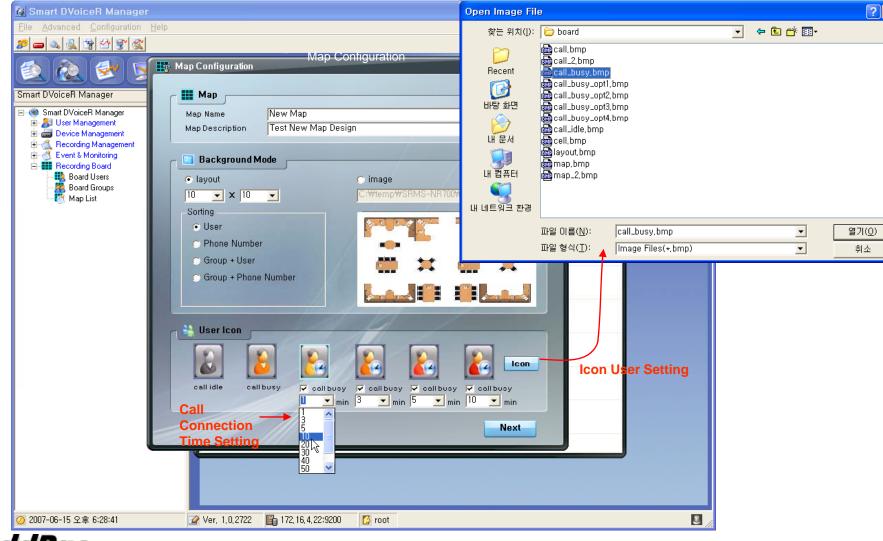




(Background Image (MAP) Selection)



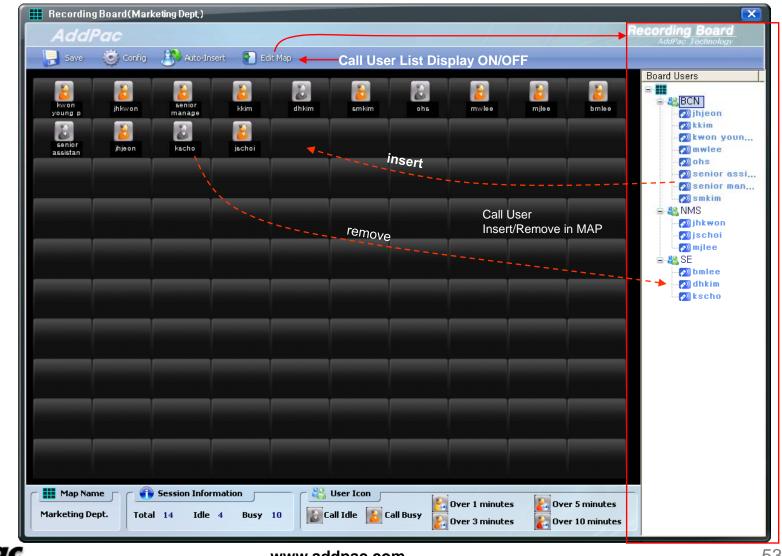
(Layout Configuration)





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 Marketing Dept. 🔝 Call Idle 🛛 🚹 Call Busy Total 14 Idle 6 Busy 8 🛃 Over 3 minutes 🛃 Over 10 minutes

(Call User Insert/Remove in MAP)

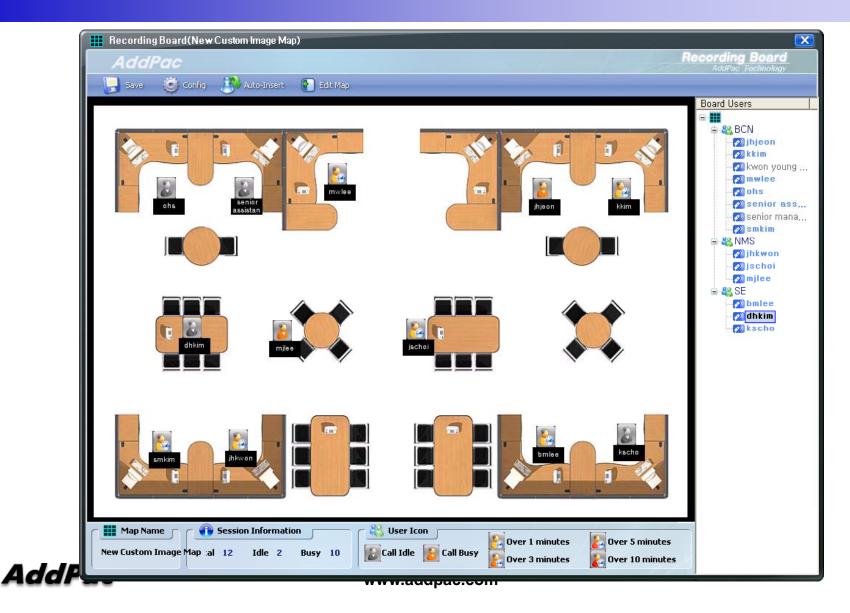


(Background Image Loading)





(Call User Registration in Background MAP image)



Thank you!

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