IP Telephony Call Center Solution

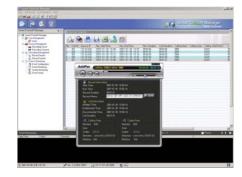
IPNext180 Hybrid IP-PBX







AP-NR1500 IP Voice Recording Server





AddPac Technology

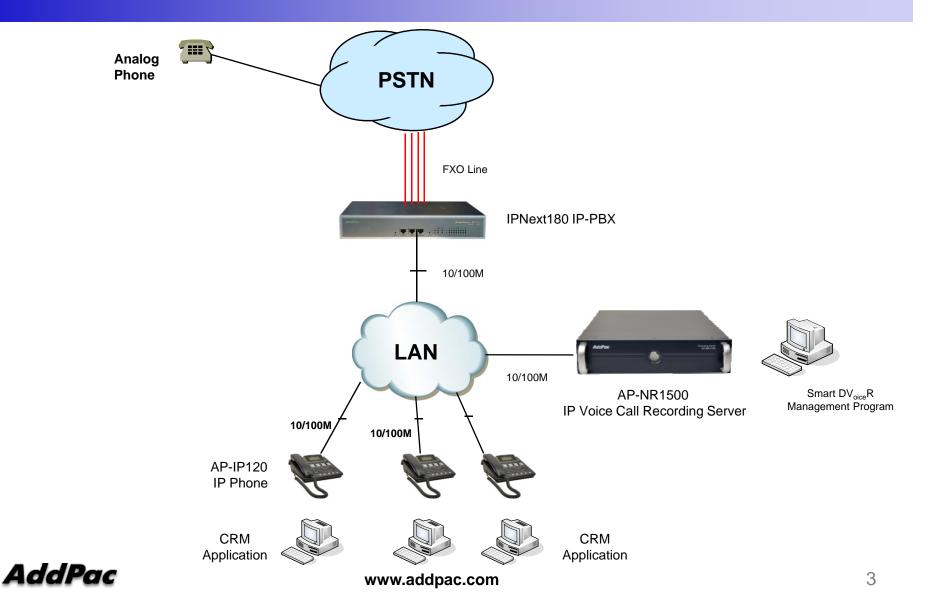
Sales and Marketing

www.addpac.com

Contents

- Network Diagram
- Small Scale IP Call Center Solution
 - IPNext180 Hybrid IP-PBX
 - AP-IP120 IP Phone
 - AP-NR1500 IP Voice Recording Server
- Software Features for Call Center Service
 - Call Log
 - IVR Scenario Editor
 - CRM API
 - ACD, Hunt Group

Network Diagram



IPNext180 NGN Hybrid IP-PBX System





Product Overview

- IP based Advanced Hybrid IP-PBX Solution
- IPv4/IPv6 Multimedia Telephony Solution for Small Office
- PSTN Interface (FXO, FXS, etc) 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



- 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



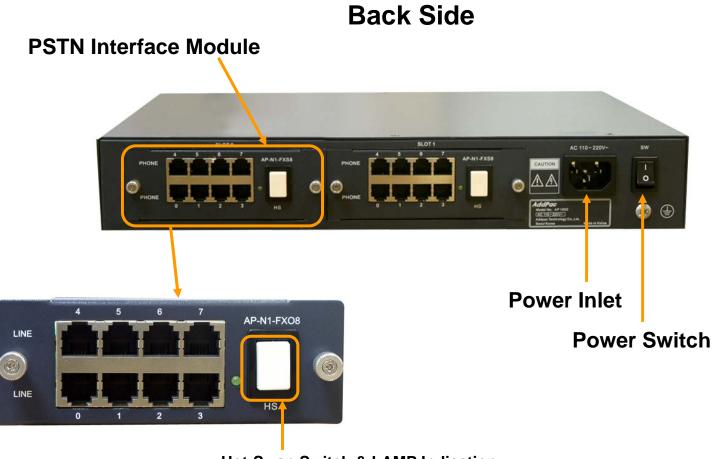


Front Side



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Hot-Swap Switch & LAMP Indication



• 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-FXO4	4-Port FXO Voice Processing Module (4 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)



IP Telephony Service and Features

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



IP Telephony Service and Features

• 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



IP Telephony Service and Features

• 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



AP-IP120 IP Phone





Product Overview

- 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

- 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)



Hardware Specifications

AP-IP120 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

AP-NR1500 IP Voice Recording Server



Product Overview

- 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

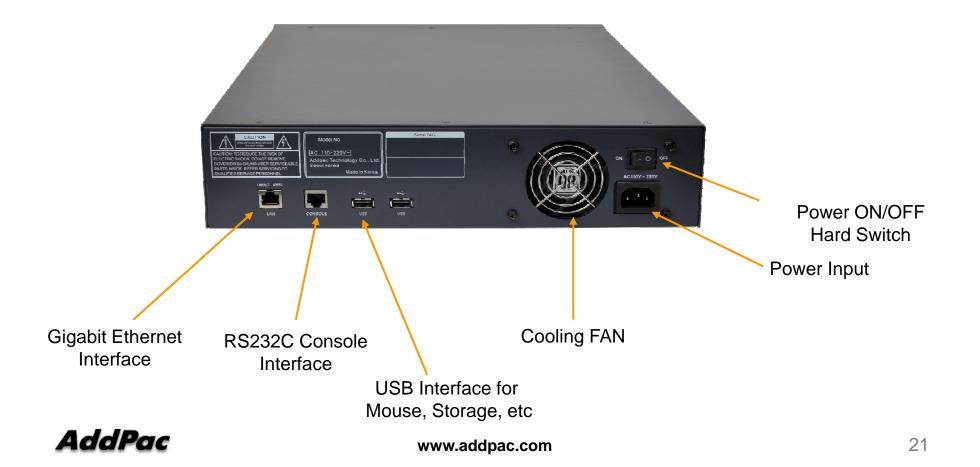


- High Performance Computing Power
- Network Interface
 - One(1) 10/100/1000Mbps Gigabit Ethernet Port
- Two(2) USB 2.0 Interfaces for Mouse, Secondary Storage, etc
- One(1) RS232C Console Interface (RJ45)
- Up Two(2) SATA type Hard Disk (4~8 Tera HDD Capacity)
- Power On/Off Soft Switch with LED Indication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

AP-NR1500 Front Side



AP-NR1500 Back Side



Software Specification

- Built-in AddPac Internetworking Software
 - Scalability, Functionality, and Stability Features
 - Advanced Network DV_{oice}R Recording & Live Streaming Features
 - QoS Control Features
- Firmware Upgradeable Architecture
- Industry Standard Network Protocol Features
- Highly User Friendly Management Features
 - PC based Window Program
 - Smart DV_{oice}R Manager

AddPac O APOS
AddPac Smart DVR Manager



Voice Recording Management Software

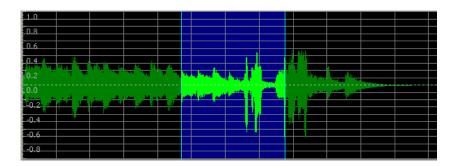
- Call History Management (search/modify/delete/save)
- Media Play Management (Play/Stop/Seek/Pause)
- Live Call List Management, Live Call Monitoring
- Local Backup (File Manager Support, PC HDD, DVD) and Local Play
- User Management (registration/modify/delete/search)
- Server Status (CPU/Memory/HDD)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





Application Area

- Call Center Application
- Enterprise Application
- All IP Network Application



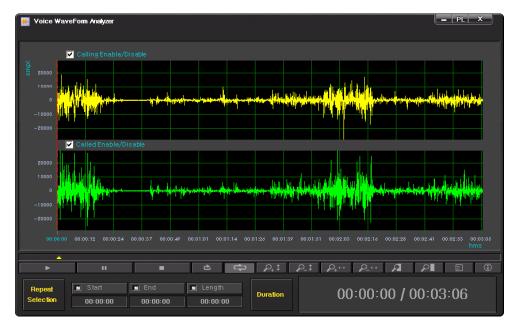


Smart DV_{oice}R Management Program for Voice Recording Server



Contents

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

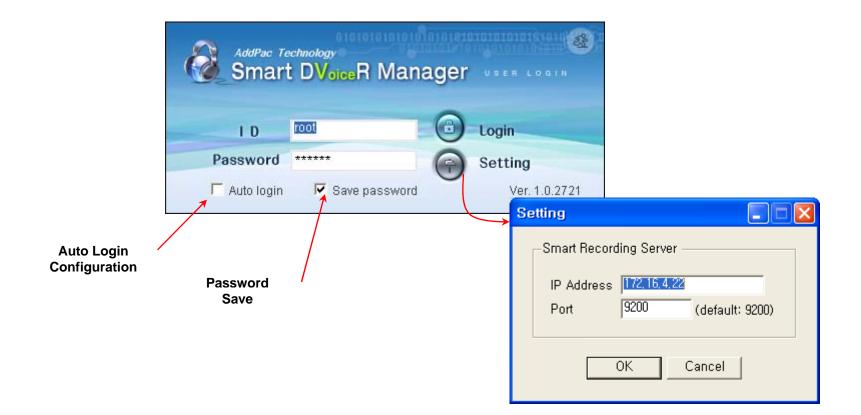


Overview

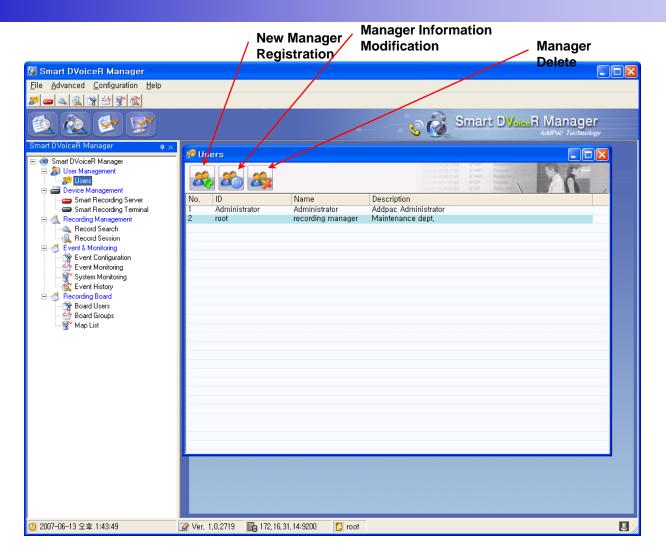
- Call History Management (search/modify/delete/Excel File save)
- Media Play Management (Play/Stop/Seek/Pause)
- Live Call Recording List Management
- Live Call Monitoring (Play)
- Local Backup (File Manager Support, PC HDD, DVD) and Local Play
- Event History Search
- User Management (registration/modify/delete/search)
- 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

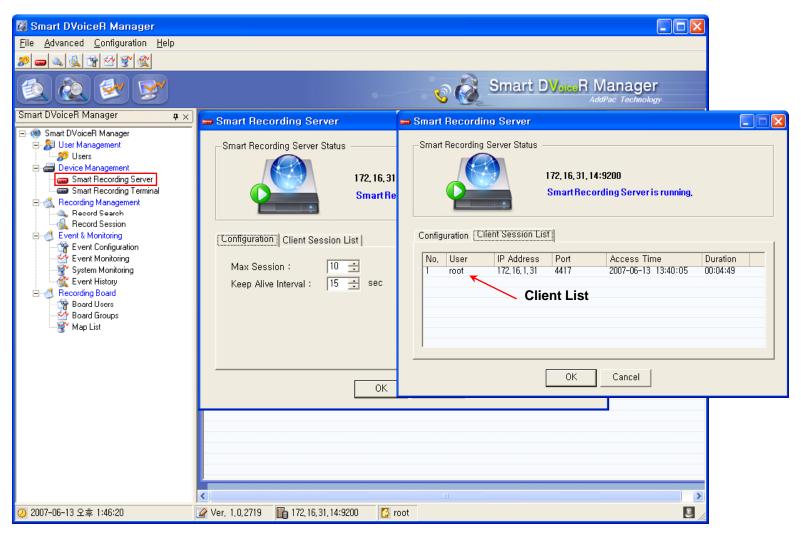


User Management





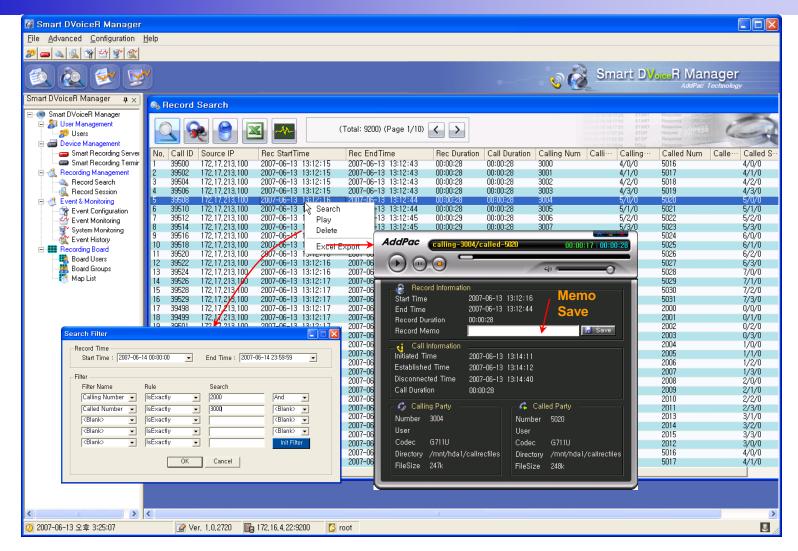
Recording Server Status Monitoring





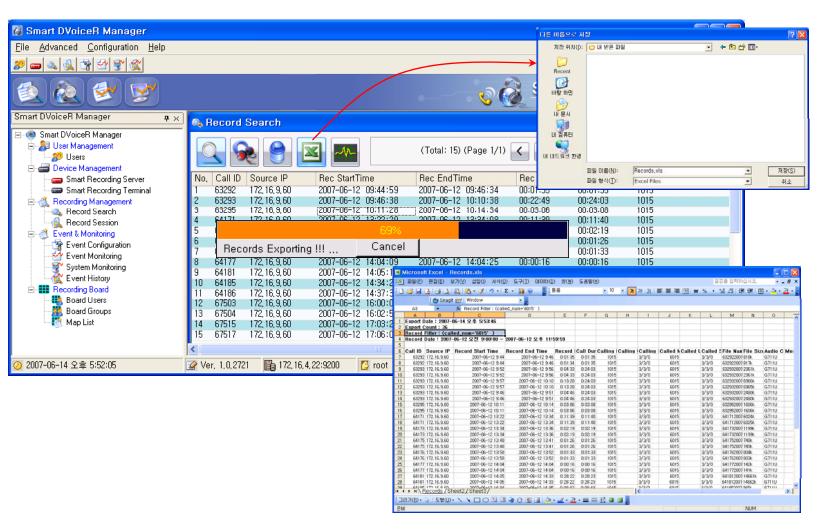
Recording File Management

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





Recording File List Save (Excel File Format)



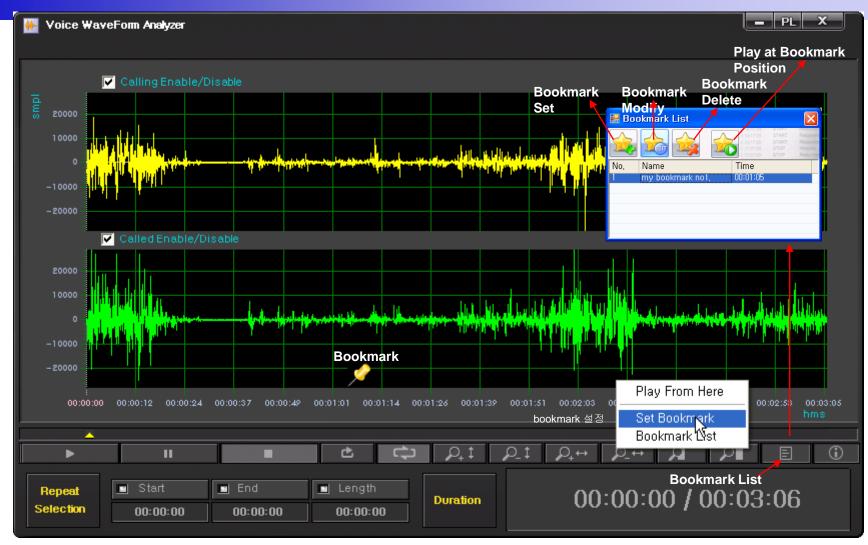
Recording File Waveform Analyzer



Recording File Waveform Analyzer (Repeated Play)



Recording File Waveform Analyzer (Bookmark Play)



Recording File Waveform Analyzer (Column Side Zooming)

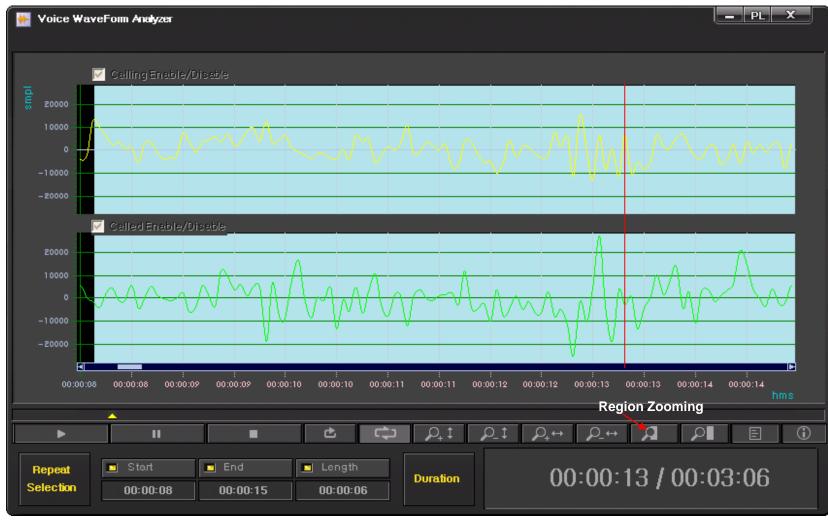


Recording File Waveform Analyzer (Row Side Zooming)



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Recording File Waveform Analyzer (Region Zooming)



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Recording File Waveform Analyzer (Call Info. Display)



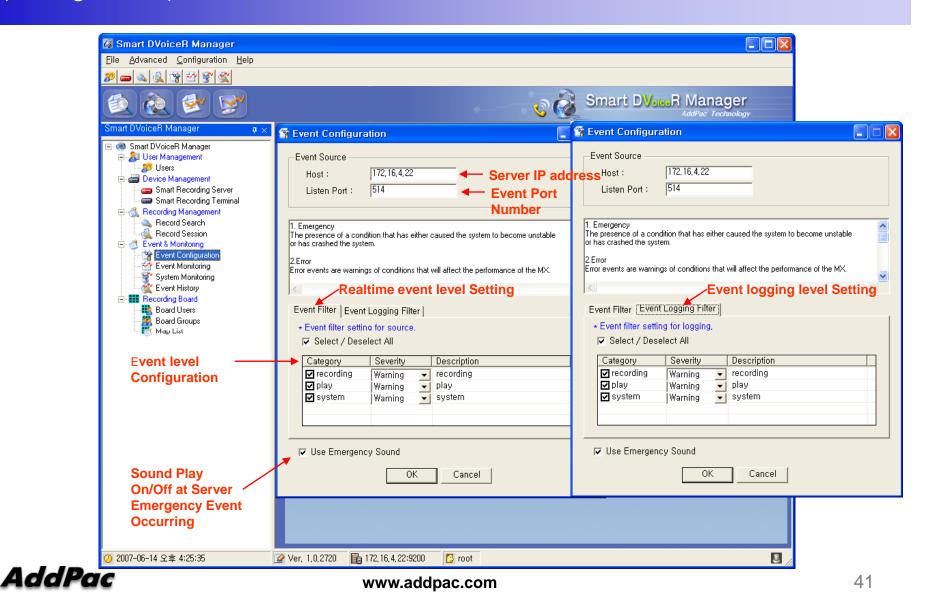
AddPac

Live Call Recording List and Monitoring

📓 Smart DVoiceR Manager			
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Event Management (Configuration)



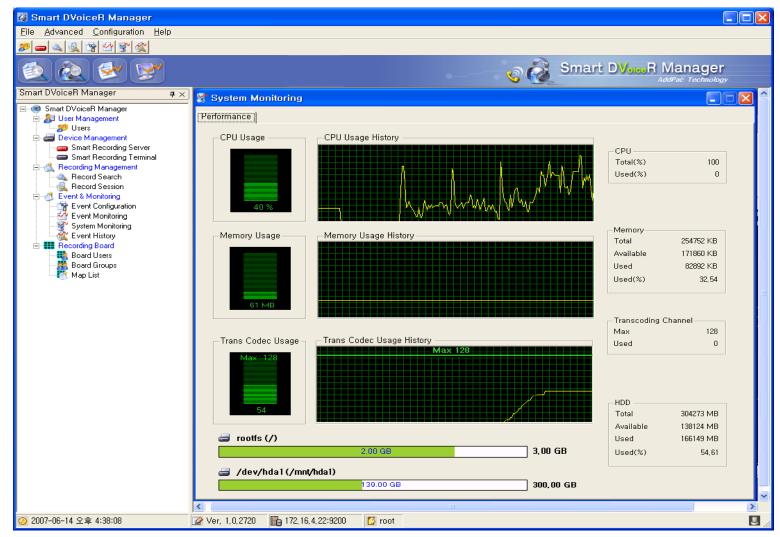
Event Management (Monitoring)

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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	ssion :			~
) 2007-06-14 오후 4:28:57	📝 Ver, 1,0,27	20 🛛 📑 172, 16, 4	4, 22:9200 🛛 🚺 root				
							- //.



Event Management

(System Monitoring)



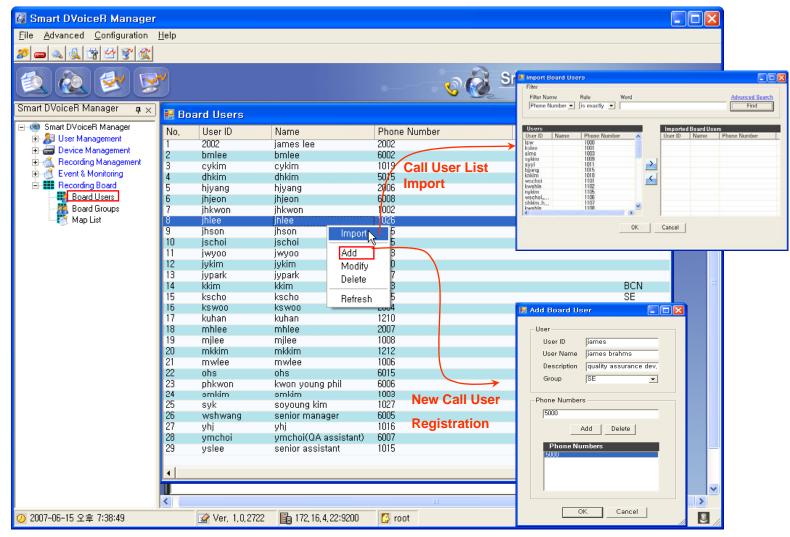


Event Management (Event History)

<u>File</u> <u>A</u> dvanced <u>C</u> onfiguration <u>H</u> elp			-
	Event Search	e e e e e e e e e e e e e e e e e e e	Search Condition Setting
0 60 🛠 😒			Smart D Voles R Manager
	Time Setting	Event category	AddPac Technology
art DVoiceR Manager 🛛 🗛 🗙			lter
Smart DVoiceR Manager	Start : 2007-06-14 00:00:00 👻		ilter Name : Kevent
🔁 🎝 User Management		Play : Debug 💌 R	ule : IsExactly 💽 Load
Sers Users	End : 2007-06-14 23:59:59 -	System : Debug - S	earch :
E - Device Management	· · · · · · · · · · · · · · · · · · ·	System : poods	
- Smart Recording Server			
Smart Recording Terminal	No, Event Time Host	Category Severity	
E 🔩 Recording Management	22 2007-06-14 15:14:21 172,16,4		
	23 2007-06-14 15:14:21 172,16,4 24 2007-06-14 15:15:31 172,16,4		
	24 2007-06-14 15:15:01 172,16,4 25 2007-06-14 15:15:32 172,16,4		
	26 2007-06-14 15:15:32 172,16,4		
- 😭 Event Configuration	27 2007-06-14 15:15:32 172,16,4		
Event Monitoring	28 2007-06-14 15:15:35 172,16,4		
System Monitoring	29 2007-06-14 15:15:37 172,16,4		
Event History	30 2007-06-14 15:15:39 172.16.4		
E Recording Board	31 2007-06-14 15:15:40 172,16,1		getChannelUsage : client ip = 172,16,1,48, port = 1824
- 🌉 Board Users	32 2007-06-14 15:15:43 172,16,1		get system information requested : cpu = 15%, mem
Board Groups	33 2007-06-14 15:15:44 172,16,1		get system information requested ; cpu = 20%, mem…
	34 2007-06-14 15:15:45 172,16,1		get system information requested : cpu = 20%, mem…
	35 2007-06-14 15:15:45 172,16,1	,48 system Debug	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		getChannelUsage ; client ip = 172,16,1,48, port = 1824
		.48 system Debug	get system information requested : cpu = 1%, memor…
	38 2007-06-14 15:15:47 172,16,1	.48 system Debug	get transcoding channel usage :
	39 2007-06-14 15:15:48 172,16,1		getChannelUsage : client ip = 172,16,1,48, port = 1824
	40 2007-06-14 15:15:49 172,16,1		getChannelUsage : client ip = 172,16,1,48, port = 1824
	41 2007-06-14 15:15:50 172,16,1		getChannelUsage : client ip = 172,16,1,48, port = 1824
	42 2007-06-14 15:15:51 172,16,1		get system information requested : cpu = 16%, mem…
	43 2007-06-14 15:15:51 172,16,1		get transcoding channel usage :
	44 2007-06-14 15:15:52 172,16,1		getChannelUsage : client ip = 172,16,1,48, port = 1824
	45 2007-06-14 15:15:53 172,16,1		getChannelUsage : client ip = 172,16,1,48, port = 1824
	46 2007-06-14 15:15:54 172,16,1		getChannelUsage : client ip = 172,16,1,48, port = 1824
	47 2007-06-14 15:15:55 172,16,1		getChannelUsage : client ip = 172,16,1,48, port = 1824
	48 2007-06-14 15:15:56 172,16,1 49 2007-06-14 15:15:57 172,16,1		getChannelUsage : client ip = 172,16,1,48, port = 1824 get system information requested : cpu = 16%, mem…
	49 2007-06-14 15:15:57 172,16,1 50 2007-06-14 15:15:57 172,16,1		get system information requested : cpu = 16%, mem… det transcoding channel usage :
	51 2007-06-14 15:15:57 172,16,1		
	52 2007-06-14 15:15:58 172,16,1		get system information requested : cpu = 8%, memor···
		you bystein Debug	get system information requested i cpu - u/s, memori ···

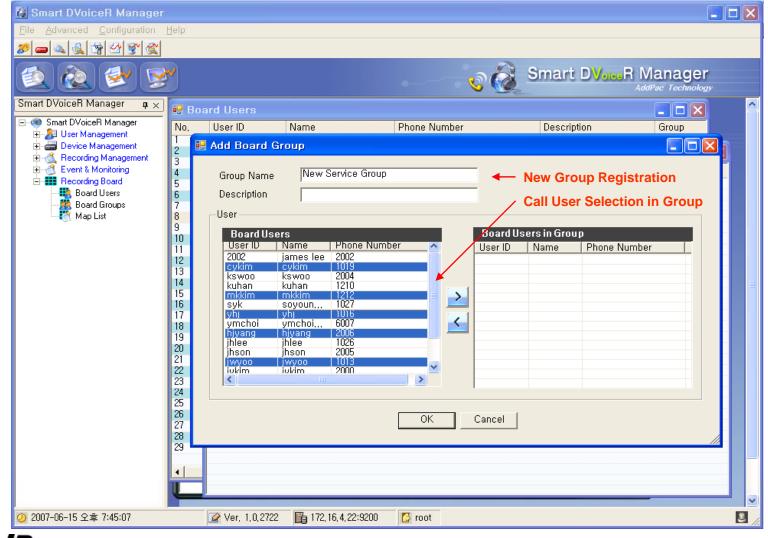


(Call User Registration)



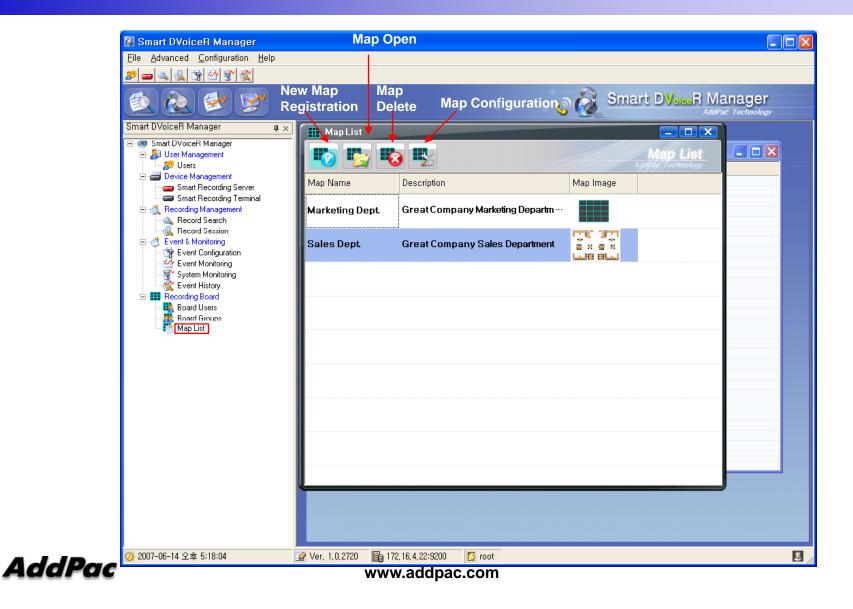


(Call Group Registration)

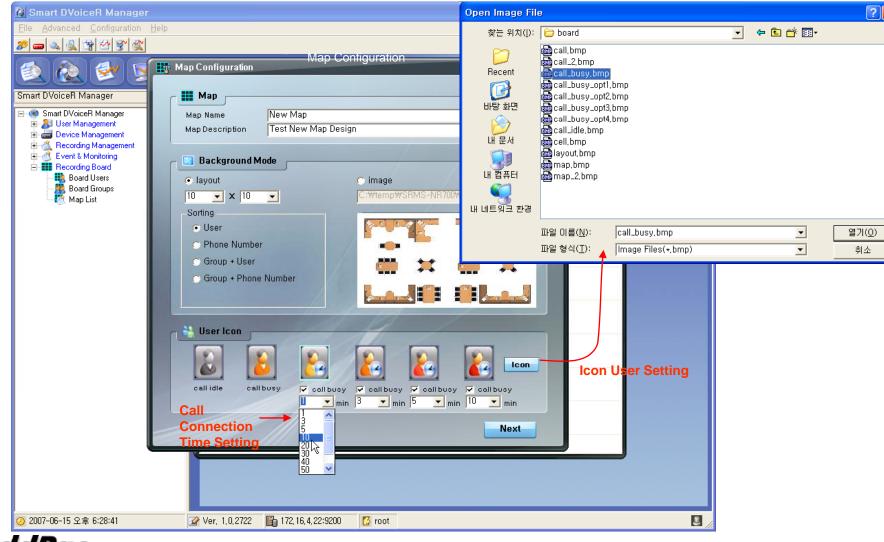




(Background Image (MAP) Selection)



(Layout Configuration)

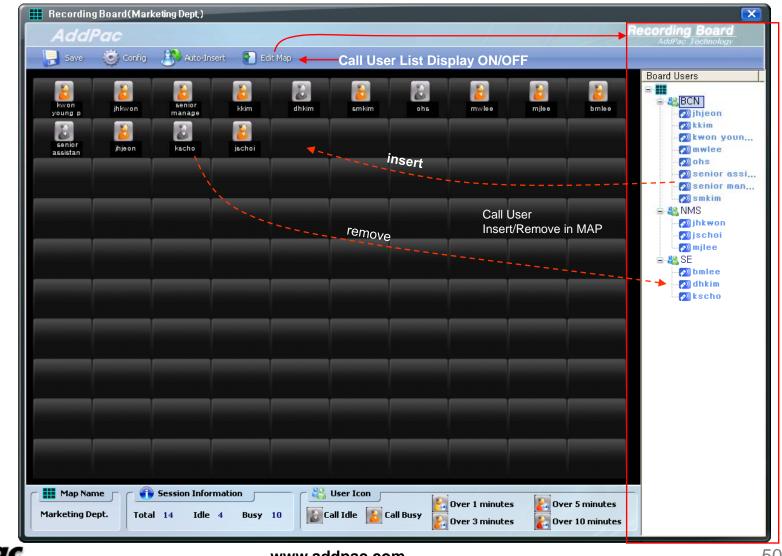




Recording Board Management (Live Monitoring) Мар Configuration (edit) Recording Board (Marketing Dept.) × ecording Board AddPac 52 🥘 Config 🛛 👫 Auto-Insert 🛛 💽 Edit Map 8 8 3 8 2 2 2 2 kwon young p senior manage kkim dhkim jhkwon smkim ohs mwlee mjlee bmlee 8 60 60 60 Map Information senior assistan 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

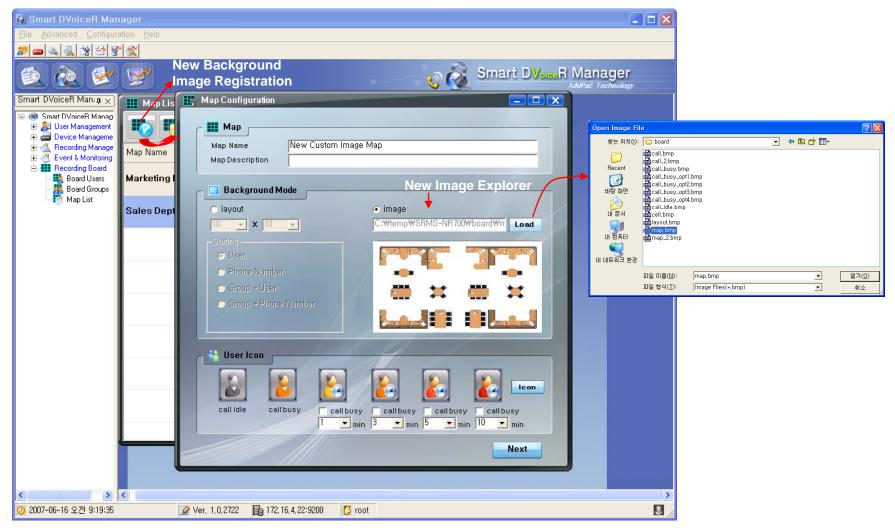
AddPac

(Call User Insert/Remove in MAP)



AddPac

(Background Image Loading)





Software Features for Call Center Service

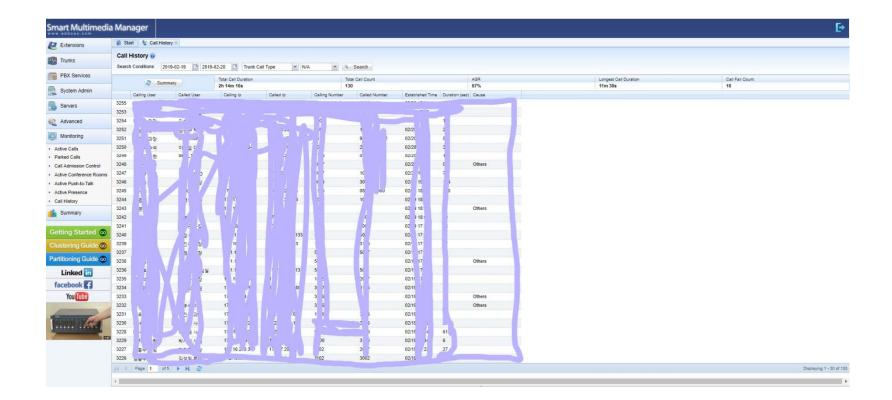


Contents

- Call Log
- IVR Scenario Editor
- CRM API
- Call Hunt Group (Enough for Small Call Center)
- ACD



Call Log (Main)



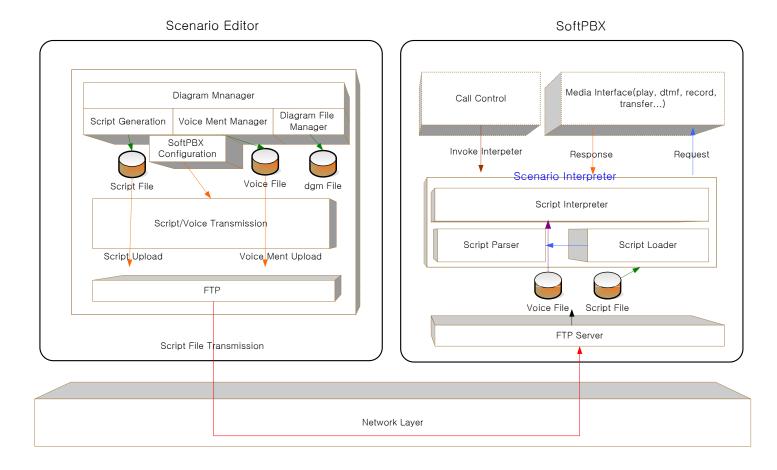
Call Log (Search Condition)

- Search Condition
 - Date
 - Trunk Call Type
 - NA
 - Unspecified
 - Inter-Site Call
 - PSTN Backup
 - Service Provider
 - User Name
 - Phone Number

IVR Scenario Editor



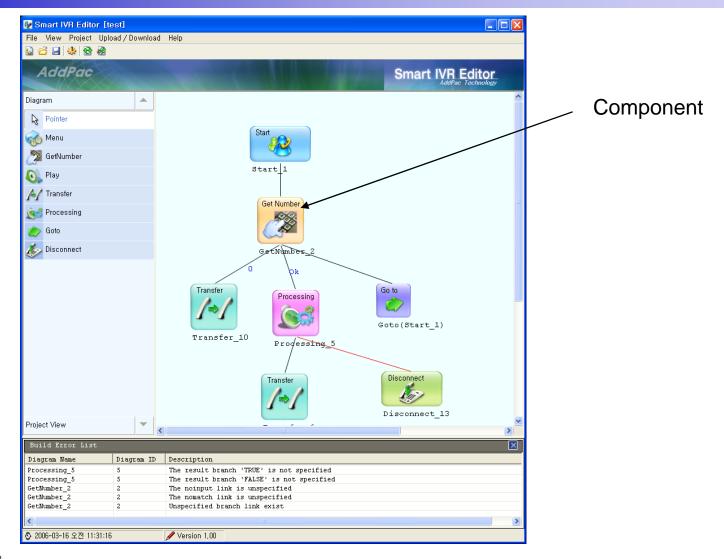
IVR Scenario Editor Architecture



AddPac

www.addpac.com

IVR Scenario Editor Creation





www.addpac.com

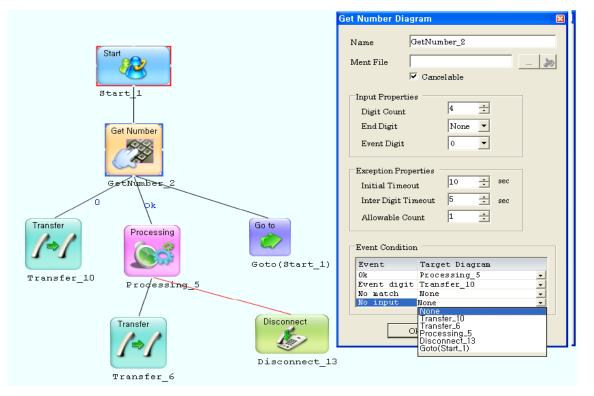
IVR Scenario Editor Creation

IPNext180 IP keyPhone System

- GUI based IVR Scenario Editor
- Support Pre-defined Component (DTMF Input, Call Transfer, Voice File Play, etc)
- Support Project Template File for Easy Modification and Reference.
- Support Pre-Defined IP-PBX System API and Additional Customization API
- Support IVR Scenario Creation Error Debugging Features

IVR Editor Component Property

IPNext180 IP keyPhone System



- Support the Property Setting for Component Flow Diagram (Input Event, Exception Properties, Event Condition)
- Provides the different IVR Component Flow depend on Event Condition



IVR Scenario Management

😵 Project Transfer		🛛 🗐 U	pdate	
Transfer Type	Ok		New	
© Upload © Download © Delete	Cancel	ঘ	Name mohl.pcm	Type Voice File
Download Path		¢	Modify	
		<u>द</u> द	index.sav	Type Document File Document File Project File
IP :172.16.31.11			Delete	
Project Transfer			Name	Туре
				Apply Cancel

Project Update

- IVR Scenario Script File can be upload or download to (from) IP-PBX.
- IVR Scenario Script File Version Control (Update, Add and Delete)
- Register Service with Smart Multimedia Manager



Voice Announcement File Management

Contents	Category	File Path	Type	
Hello. Please dial the target extension nubmer. if you are not aware of	Auto attendant		 pcm	
Thank you, hold on please. You are being connected to the operator	Auto attendant		 pcm	
Thank you, hold on please. You are being connected	Auto attendant		 pcm	
You have dialed a wong number. Please dial the correct number	Auto attendant		 pem	
You have not dialed the number properly	Auto attendant		 pcm	
You are being connected	Dial service		 pcm	
Sorry, please dial the extension number again	Dial service		 pcm	
Sorry, the extension nubmer you have dialed does not exist	Dial service		 pcm	
The limitation on the number of times that an extension number is di	Dial service		 pcm	
Parking to	Dial service		 pcm	
Please press the password	Conference		 pcm	
The limitation on the number of times that an extension number is di	Conference		 pcm	
You are being connected	Conference		 pcm	
You have not dialed the nubmer properly	Conference		 pcm	
The password is invalid	Conference		 pcm	

Voice File Upload

• Voice Announcement File Upload and Download for Backup



www.addpac.com



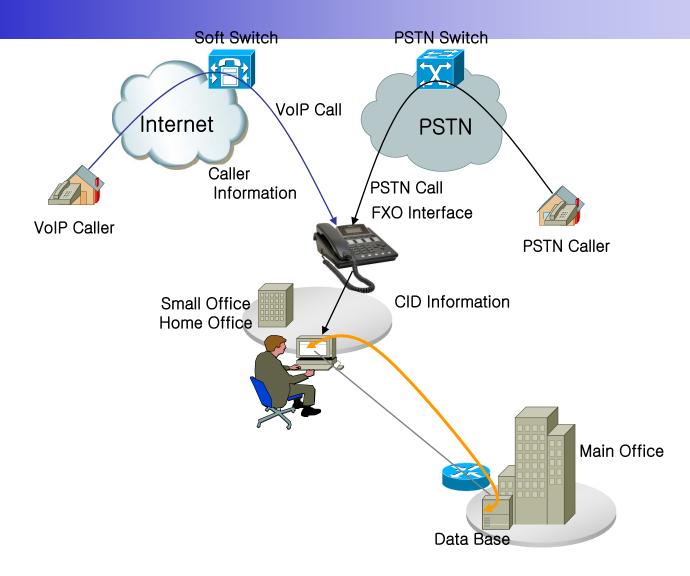
CRM API



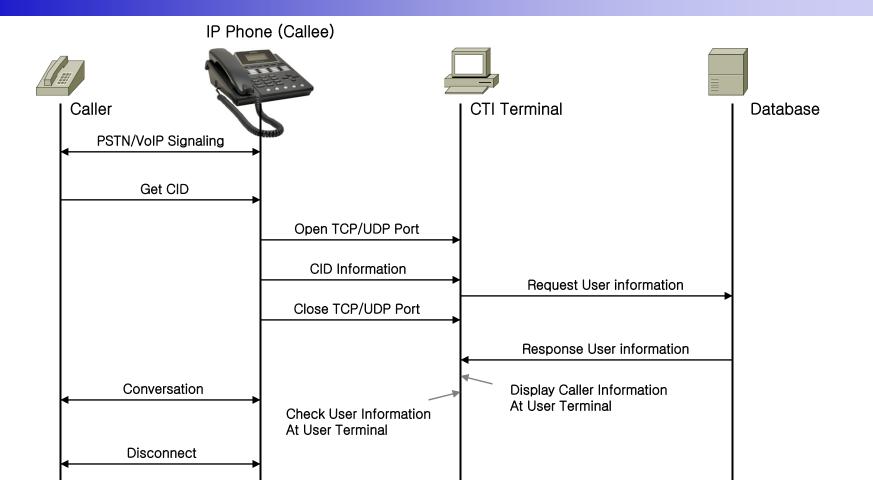
CTI using CID

- Simple CTI (Computer and Telephony Integration) Application
- AddPac IP-Phone or VoIP Gateway send CID information to CTI application via TCP/UDP socket
- CTI application get caller information using HTTP or custom specific protocol

Basic Network Diagram



Message Flow



ACD (Automatic Call Distribution) and Call Hunt Group



ACD (Automatic Call Distribution) on Attendant Queue

- The Attendant Queue is used for attendants of an organization or a call center
- When a call is inbound to the Attendant Queue, the call will be queued and distributed to one of queue member
- ACD policies
 - Longest Idle Time: Call will be distributed to longest idle queue member
 - Preference: Call will be distributed by preference order of queue member
 - Sequential: Call will be distributed to next queue member sequentially

Add an Attendant Queue Web UI

User Extension

A user extension is an IP Phone (SIP / SSCP phone) or a soft phone for end user. (The SSCP is enhanced SIP with XML based feature control protocol.)

Batch Job for User Extensions

Gives you simple and automated way to add, modify or delete one or more extensions through CSV (Comma Separated Values) file. Each CSV file can be created with your favorite text editor or Microsoft Excel.

Hunt Group

A hunt group has members of user extensions. Within a hunt group, an available member (user extension) can receive a call to the hunt group extension. A hunt group has one of simultaneous, sequential or random call hunting mode.

Pickup Group

A pickup group has members of user extensions who can pick up a ringing call within the group. The pickup group extension number is used for picking up a call by other group member.

Park Pool **V**.

A park pool is a set of extensions for parking calls. When a user parked an active call, an extension in this pool will be assigned. Other user can pick up the parked call using the parked extension number.

Conference Room

A conference room extension is used for making a conference room. The conference room can be open by WSMM or User Portal web page or by call to conference room number by privileged user (chair or operator) or by schedule. In case of dial-out participants, they receive call when conference is opening. In case of dial-in participants, they have to make a call to conference extension to join to opened conference.

IVR Extension

An IVR (Interactive Voice Response) extension has a role of auto attendant for incoming calls from trunks. If incoming calls from trunk are routed to an IVR extension by incoming call rule, the interactive scenario will be proceed to transfer the call to a proper user extension.

Push-to-Talk Group

星 A PTT (Push to Talk) group has members of user extensions who will receive broadcasting announcement with auto answering and also can be a floor (speaker role) by pushing the talk button. This is half-duplex two-way broadcasting.

Paging Group

📓 A paging group has members of user extensions who will receive broadcasting announcement with auto answering by speaker phone. This is halfduplex one-way broadcasting.

Attendant Queue

The Attendant Queue is used for attendants of organization or call center. When a call is inbound from trunk or extensions to this queue number, the call will be queued and picked up or distributed to one of queue member and handled by them. Currently, the queue member needs Smart Attendant Console software running on PC.



Attendant Queue Web UI

		ndant Queue 🗷				
Add an Attend		ed Options				
Attendant Queue	Extension *	(2~12 di	gits)	Check Extension		Description
0	Name *					The Attendant Queue is used for attendants of organization or
	Extensions			Allowed Attendant Me	mbers	call center. When a call is inbound from trunk or
	Extension 💌	A A		Name	Extension	extensions to this queue number, the call will be queued
Attendant Members	Name	Extension				and picked up or distributed to one of queue member and handled by them. Currently, the queue member needs Smart Attendant Console software running on PC.
٢						Related Links
						User Extension Address Pool Partitions

Attendant Queue Web UI

Advanced Optic	ns		
General Settings	Partition	internal	➤ ≥
	Address Pool	default	
	Queue Size	1024	
Queue Policy	Queue Fulled Mode	Announcement	
U	Redirection Target Number		
	Max Hold Time	100	
Iold Time Policy	Hold Time Expired Mode	Announcement	×
	Redirection Target Number		
Call Distribution	Enable Call Distribution		
٢	Automatic Call Distribution	Longest Idle Time	*
	2		

Call Hunt Group

- A hunt group has members of user extensions. Within a hunt group, an available member can receive a call
- Call Hunting Mode
 - Preference
 - Simultaneous
 - Random
- Call Hunting by Chained Hunting Group

Hunt Group Web UI

	Extension *		(2~12 dig	(atic	Check Extension		Constant of St
			(2~12 ui	gits)	Check Extension		Description
Hunt Group	Name *			~			A hunt group has members of user extensions. Within a hunt
W	Hunting Mode	Sequential					group, an available member (user extension) can receive a
	No Answer Timeout	10	sec				A hunt group has one of
	Extensions				Hunt Group Members		simultaneous, sequential or random call hunting mode.
	Extension		AA AS		Name	Extension	Related Links
Group Members							Partitions Address Pool
Advanced Optic	ons	-					
	Partition	internal		*			
General <mark>S</mark> ettings	Address Pool	default		~	2		



Difference between Attendant Queue and Hunt Group

- The Attendant Queue is similar to the Hunt Group
- The Attendant Queue accepts an incoming call even if all attendant members are busy. The queued call will be distributed to a member when the member is available
- The Hunt Group rejects an incoming call when all members in the group are busy

Thank you!

AddPac Technology Co., Ltd. Sales and Marketing

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