

AP-AS10000™ Multimedia Application Server

High-performance Next Generation IP-PBX Solution

Preliminary Product Overview

(Without notice, following described technical spec. can be changed)



AddPac

AddPac Technology

2009, Sales and Marketing

Content

- Product Overview
- System Redundancy Features
- Software Service
- AP-AS10000 Software Component
- Scalable Distributed Architecture
- IP Centrex Service
- Presence Service
- IVR Service
- RBT Service
- UMS Service
- Network Service and Features
- Ordering Information



Product Overview

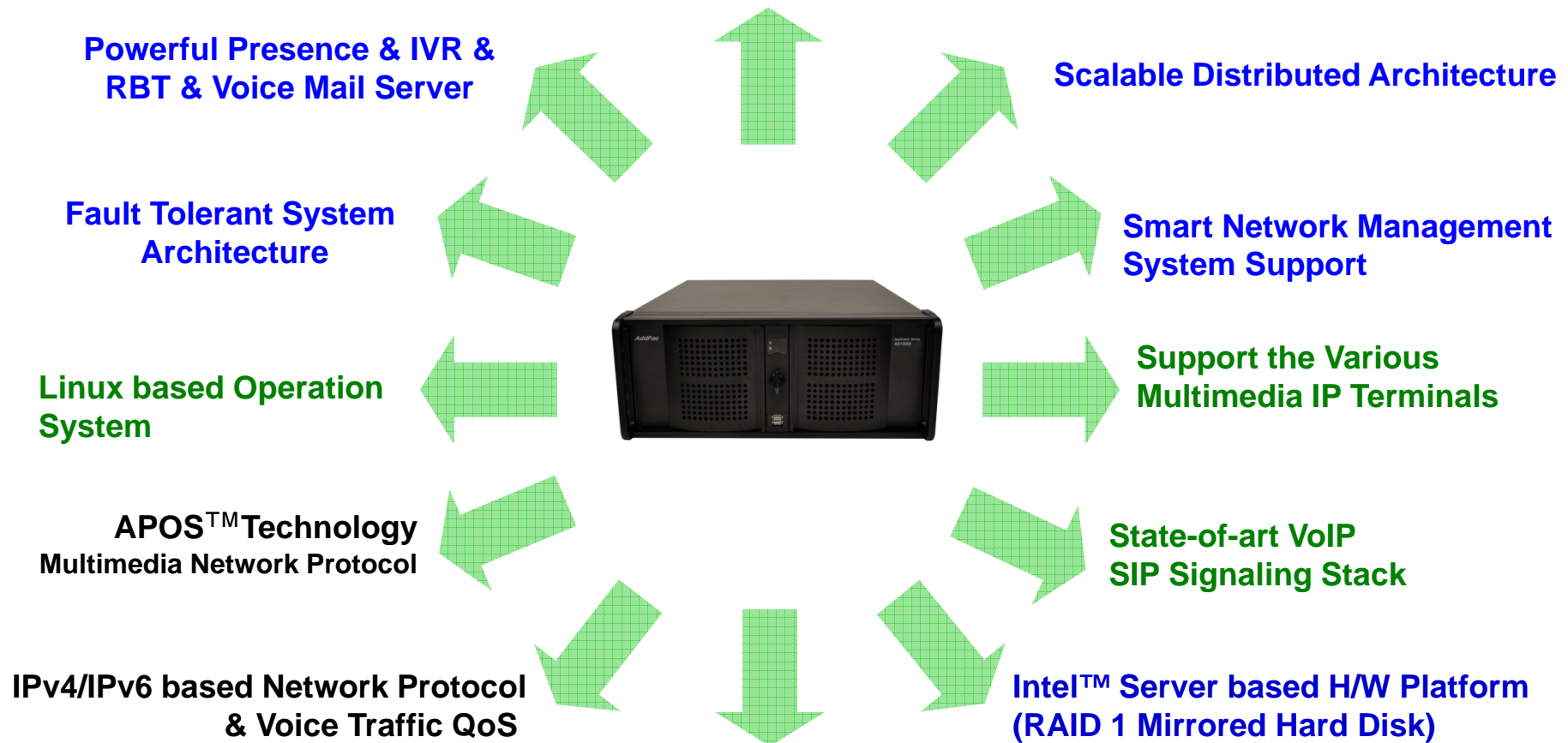
AP-AS10000 Next Generation Multimedia Application Server

- IP based Advanced Multimedia Application Server Solution
- Scalable and Distributed Presence Server, IVR Server, RBT (Ring back Tone) Server, and UMS (Unified Messaging Server) in One Hardware System
- Fully Interoperable with AddPac IPNext Series PBXs
- IPv4/IPv6 based Dual Network Protocol Support
- Powerful Management and User Friendly Features
- Fault Tolerant and Scalability Architecture
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- Linux Operation System

Product Highlights

AP-AS10000 Next Generation Multimedia Application Server

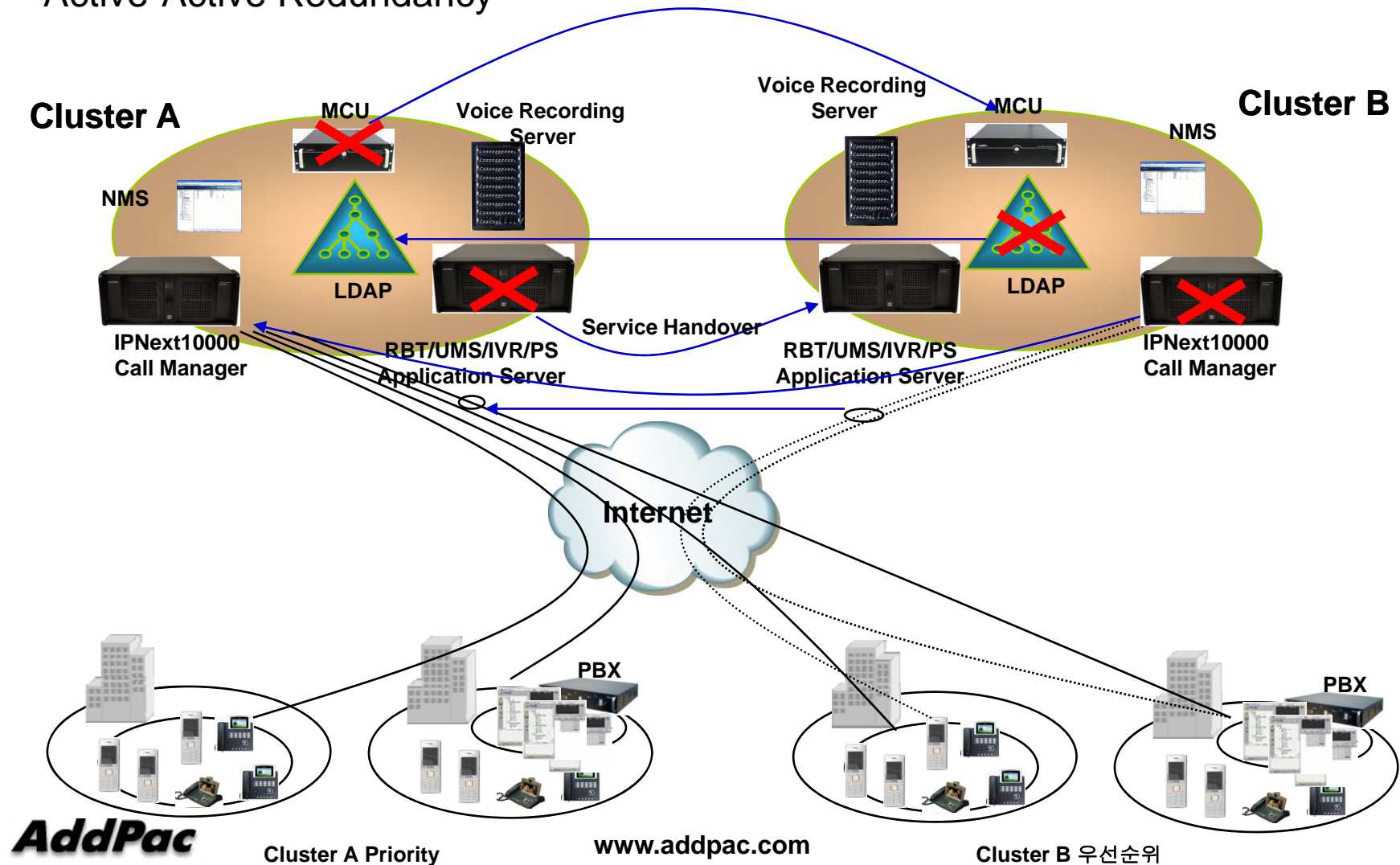
IP based Advanced Multimedia Application Server



System Redundancy Features

AP-AS10000 Next Generation Multimedia Application Server

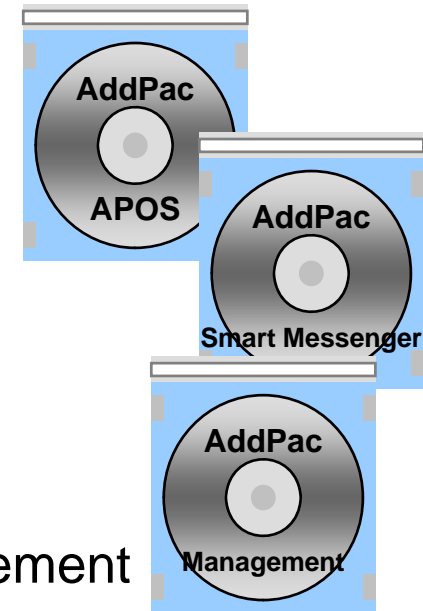
- Active-Active Redundancy



Software Service

AP-AS10000 Next Generation Multimedia Application Server

- Built-in AddPac APOS Internetworking Software
 - Scalability, Functionality, and Stability Features
 - Advanced Application Service Features
 - QoS Control Features
- Firmware Upgradeable Architecture
- Industry Standard Network Protocol Features
- Highly User Friendly Management Features
 - Smart Multimedia Manager for Operation & Management



Software Components

AP-AS10000 Next Generation Multimedia Application Server

Presence Server

- Provides User Extension Presence Monitoring Service
- Support Directory Service to Smart Messenger and Terminals

IVR (Interactive Voice Response) Server

- Provides Various IVR Scenarios Made by IVR Editor
- Support Schedule based Scenario

RBT (Ring Back Tone) Server

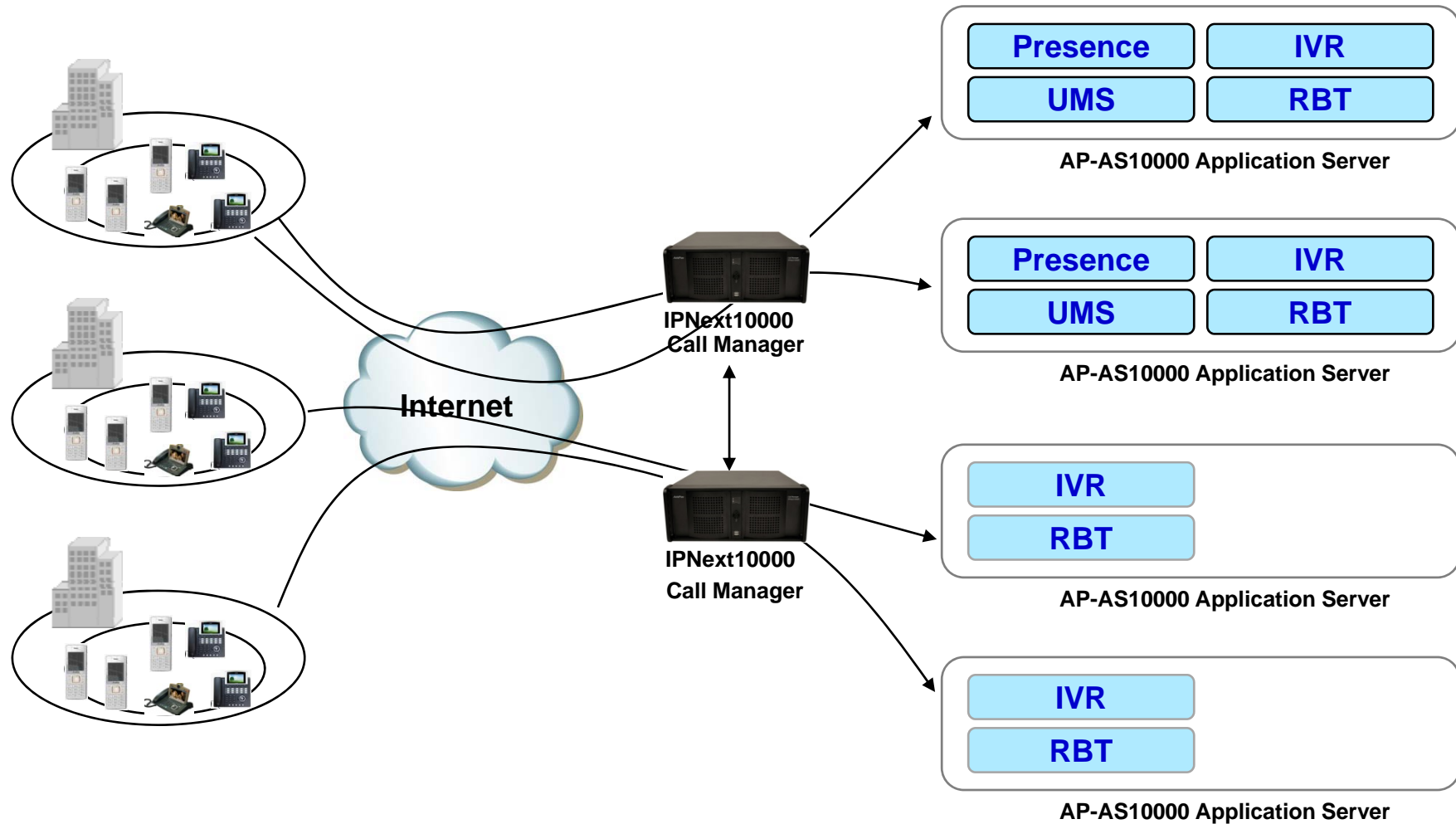
- Provides Department and Personal based MoH and RBT
- Provides Announcement and Tone Package Management

UMS (Unified Messaging) Server

- Provides Voice Mail Store and Play
- Provides SMS Delivery Service

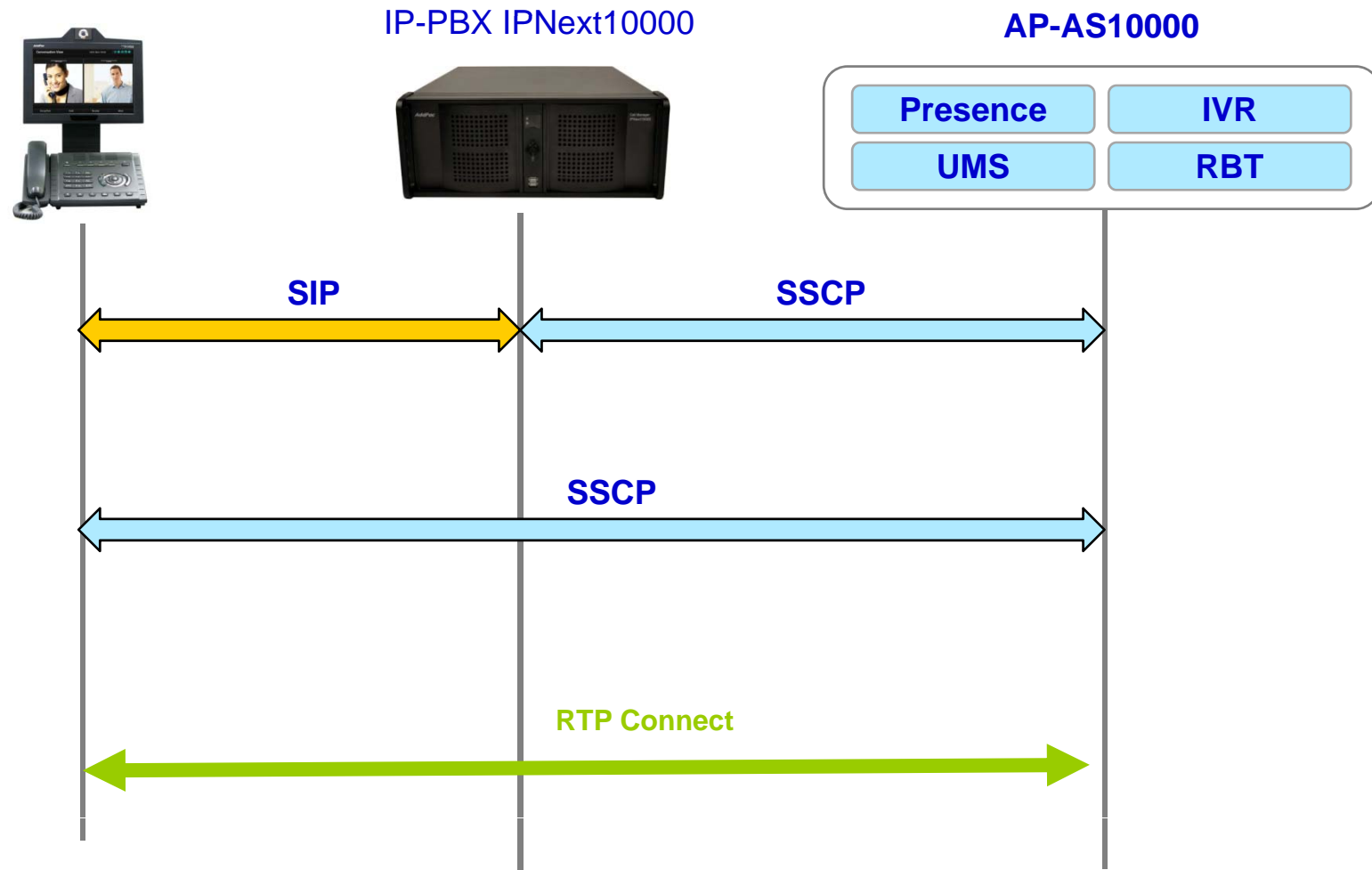
Scalable Distributed Architecture

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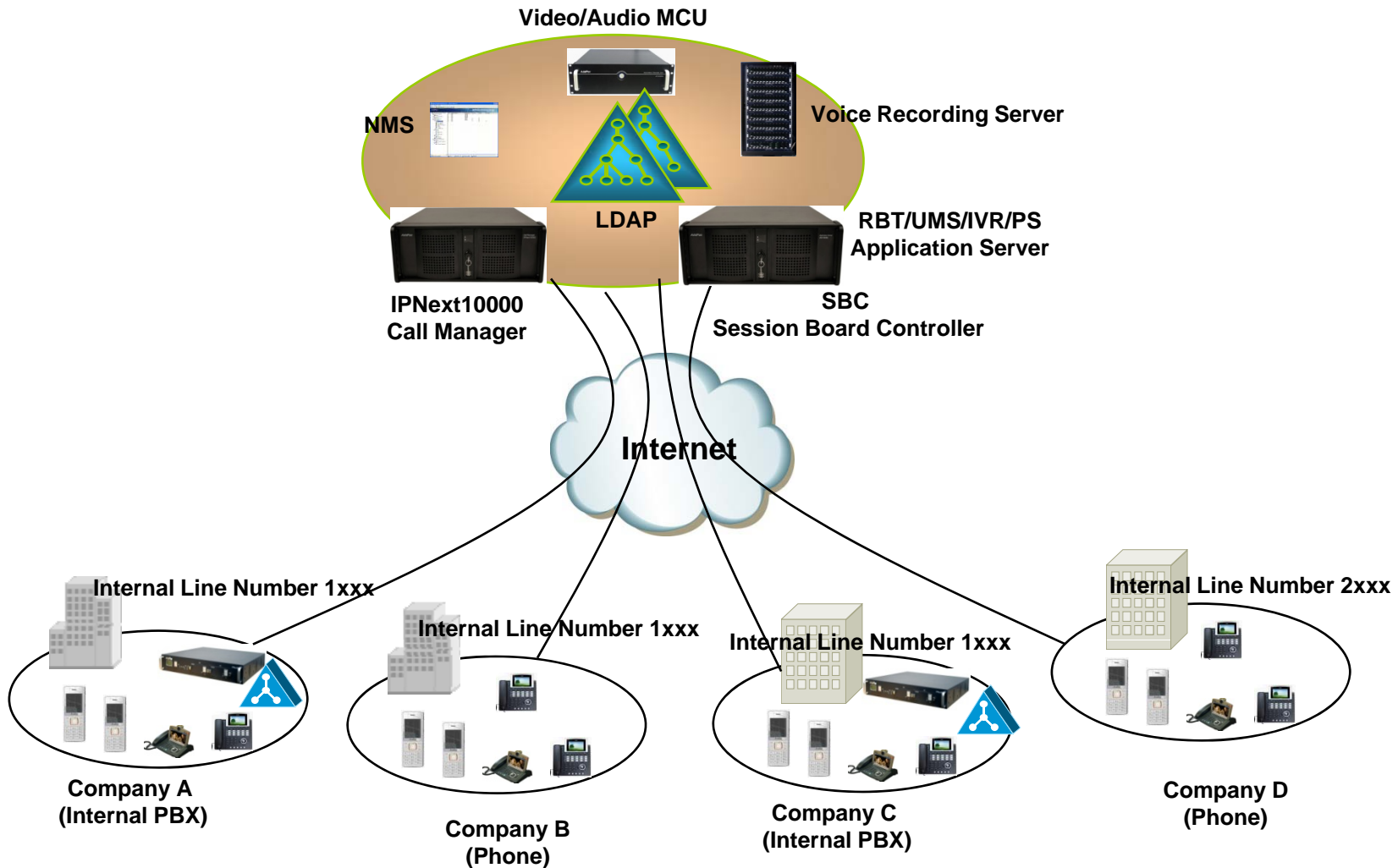
SIP and SSCP based Service Scenario

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IP Centrex Service

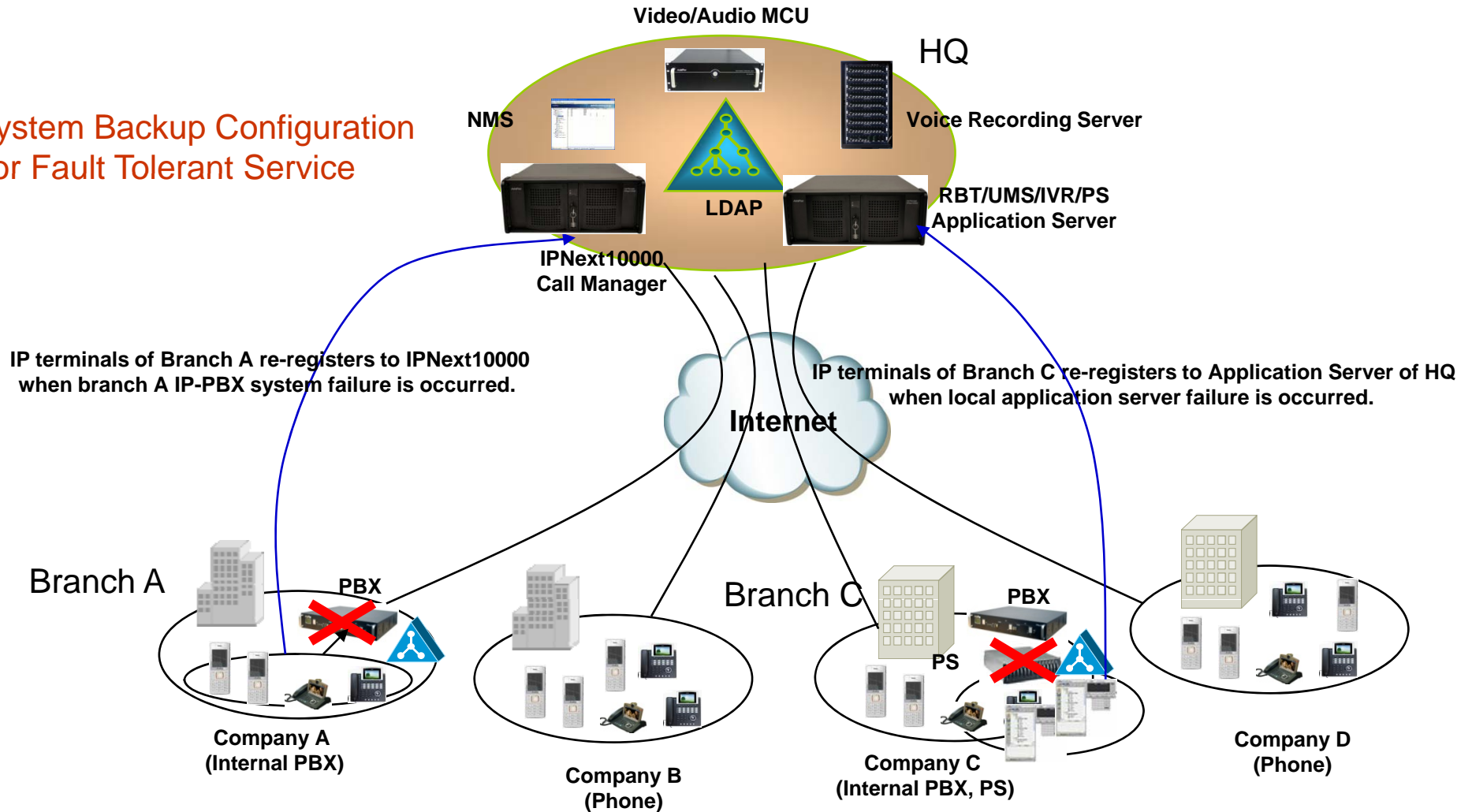
AP-AS10000 Next Generation Multimedia Application Server



IP Centrex Service

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System Backup Configuration for Fault Tolerant Service





Presence Service

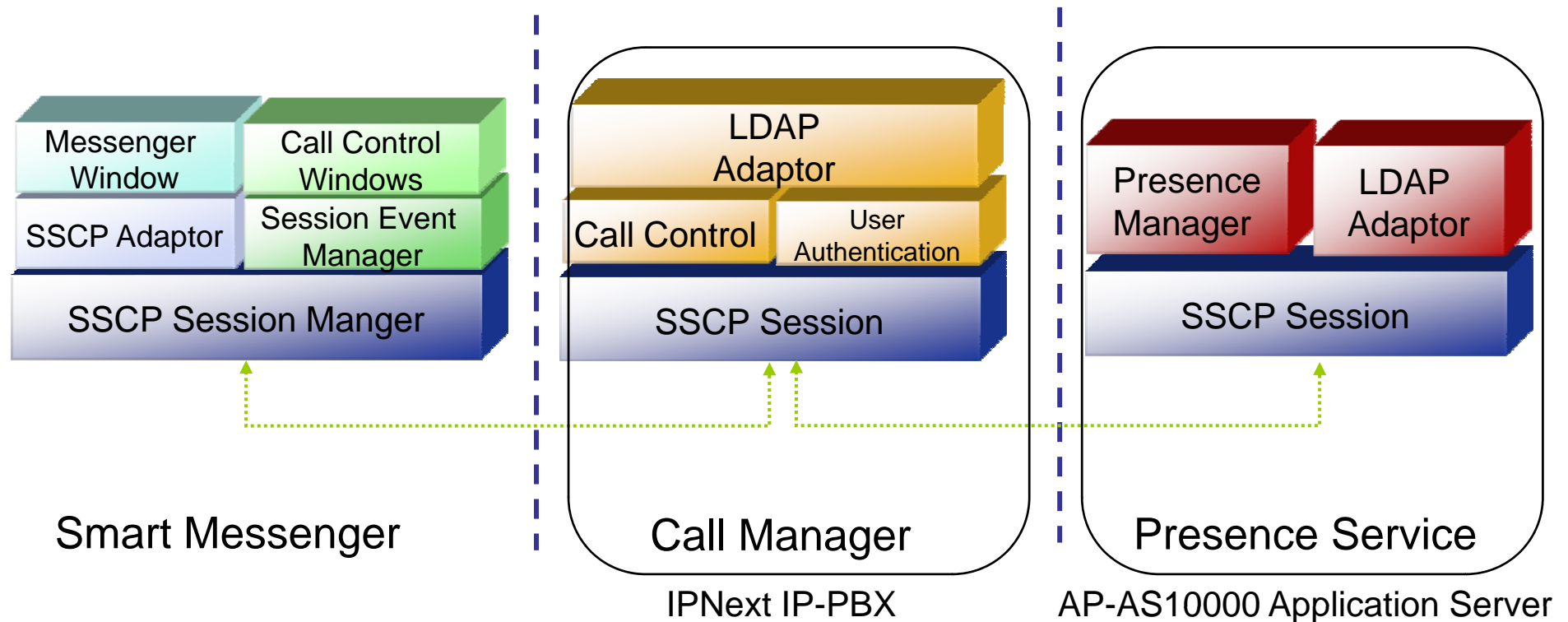
Presence Service Functions

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- User Extension Status Monitoring
- User Extension Status Broadcasting
- Presence Server System Management
- Presence Server Cluster Management
- Multiple Phone Book Management
- Multiple Presence Group for Scalable User Extensions
- Multiple Speed Button Profiles for Speed Button Enabled Terminal or Messenger
- Presence Service Monitoring
- Presence Session Monitoring

Presence Service Model

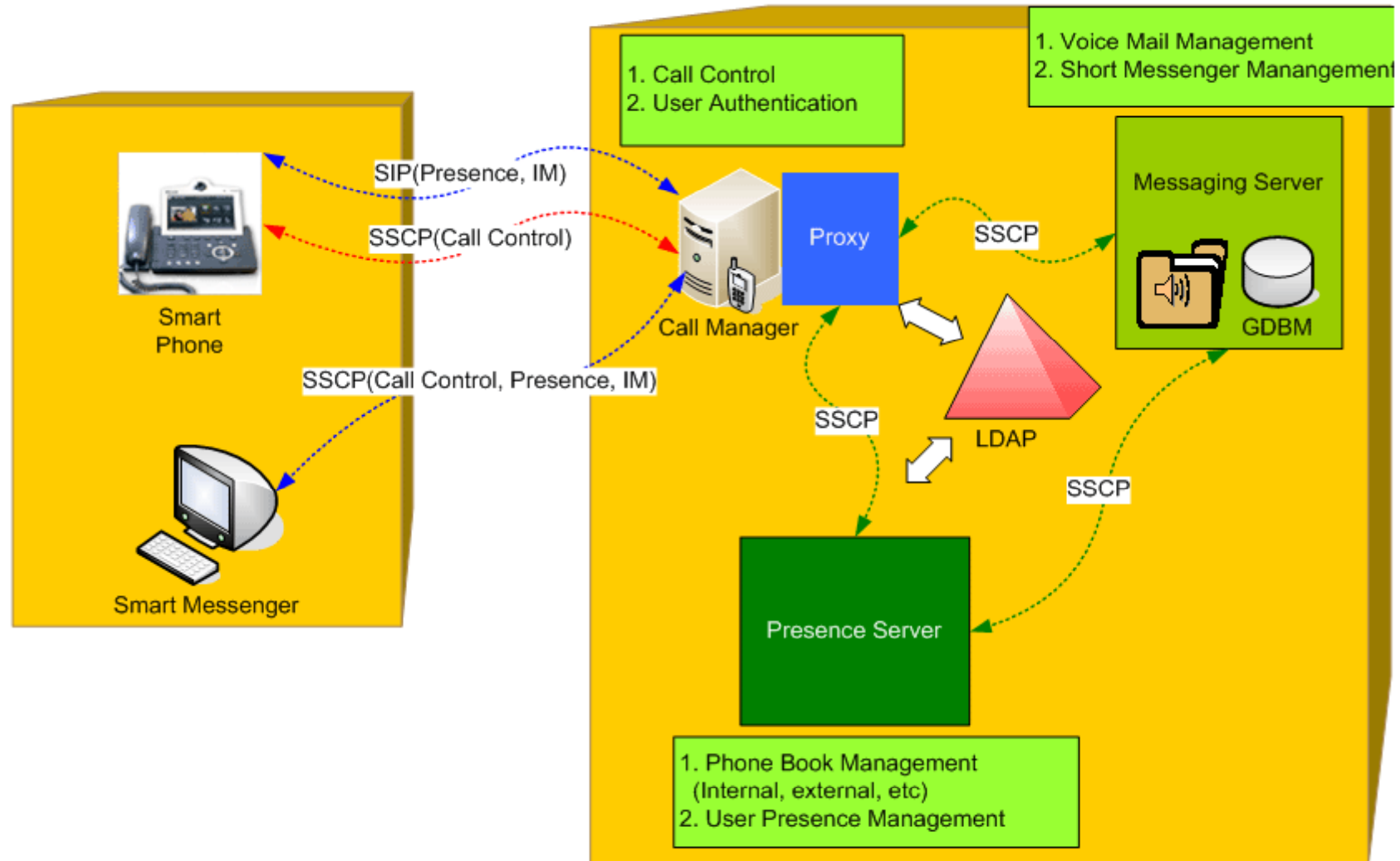
AP-AS10000 Next Generation Multimedia Application Server



- Large Scale User Presence Solution
- Scalable Architecture
- Load balancing Arch. for Multiple Presence Servers

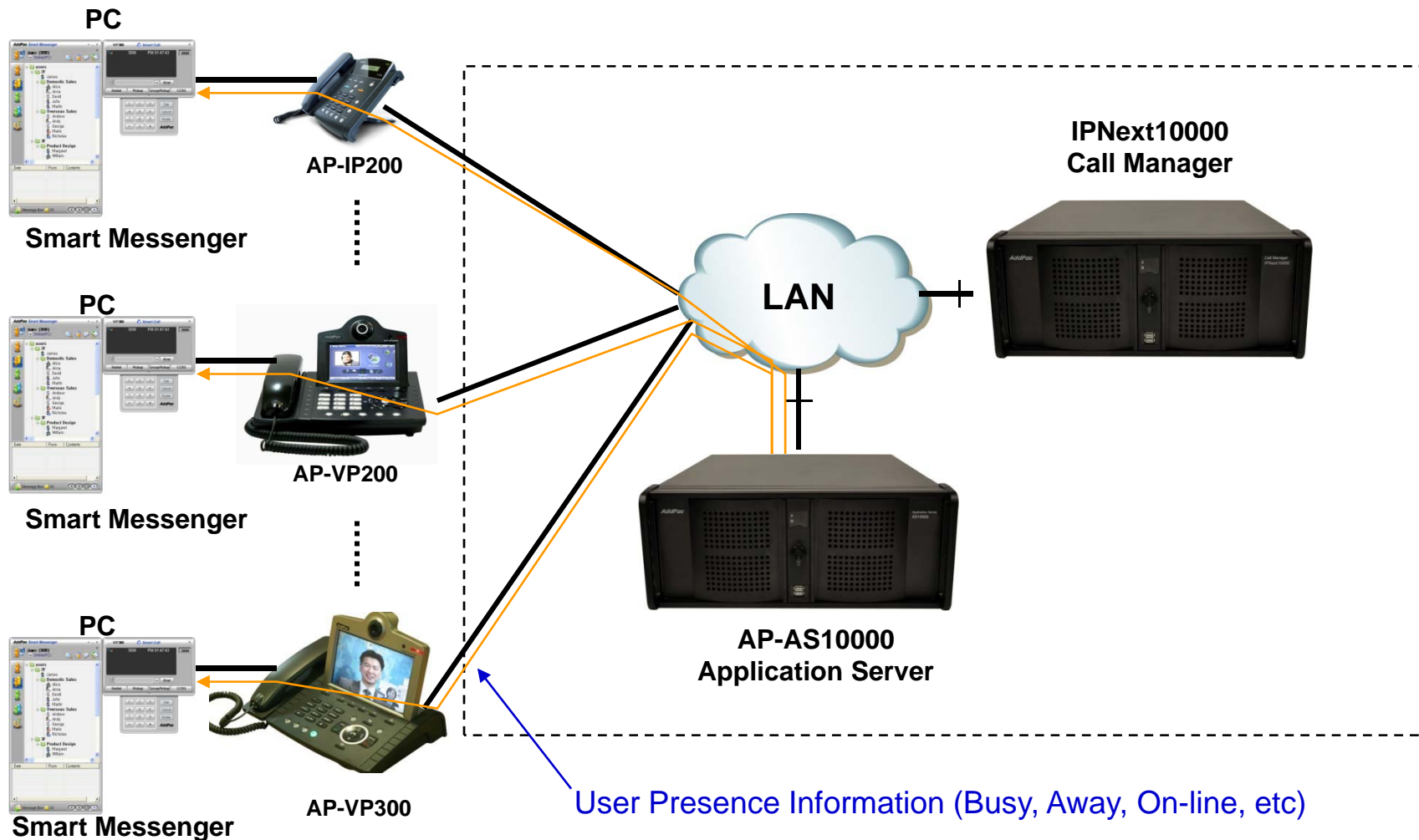
Presence Service System Diagram

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Presence Service Flow

AP-AS10000 Next Generation Multimedia Application Server



Presence Service Cluster Management

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File View Search Tools Help

Smart M

PBX (172.17.250.250:389)

- System Management
- Smart Directory Management
- User Management
- Device Management
- Fault Management
- Call Management
- Conference Management
- Presence Management
 - System
 - Presence Server
 - Presence Server Preference
- Configuration
- Monitoring
- Media Management
- Unified Messaging Management
- Call Recording Management
- IVR Management
- Transcoding Management
- RTP Proxy Management
- Chating Management

Presence Server Preference Properties

Preference Profile Name: main_ps_0

Description:

Presence Servers	
Name	IP Address
Slave	172.17.250.251
Master	172.17.250.251

Presence Server Preference	
Name	IP Address
Master	172.17.250.251
Slave	172.17.250.251

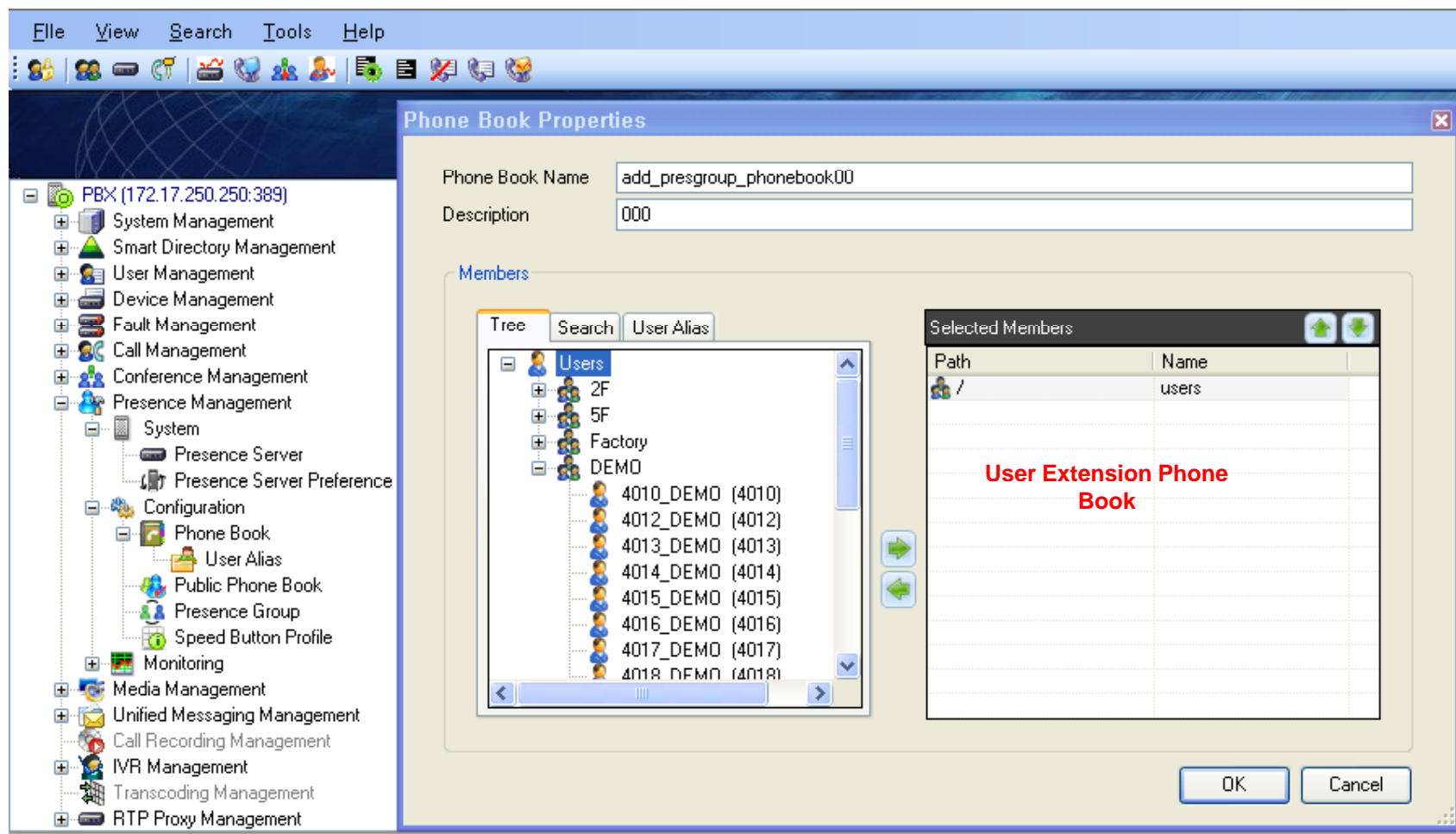
Cluster for Redundancy

Apply to Inter-server Connection

Ok Cancel

Phone Book Management

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Public Phone Book Management

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The screenshot displays the AddPac PBX management interface. On the left is a tree view of the system configuration, including sections like System Management, Smart Directory Management, and Configuration. The 'Configuration' section is expanded to show 'Phone Book', which contains 'User Alias', 'Public Phone Book', and 'Presence Group'. The 'Public Phone Book' item is selected, opening the 'Public Phone Book Properties' dialog box.

The dialog box has the following fields and controls:

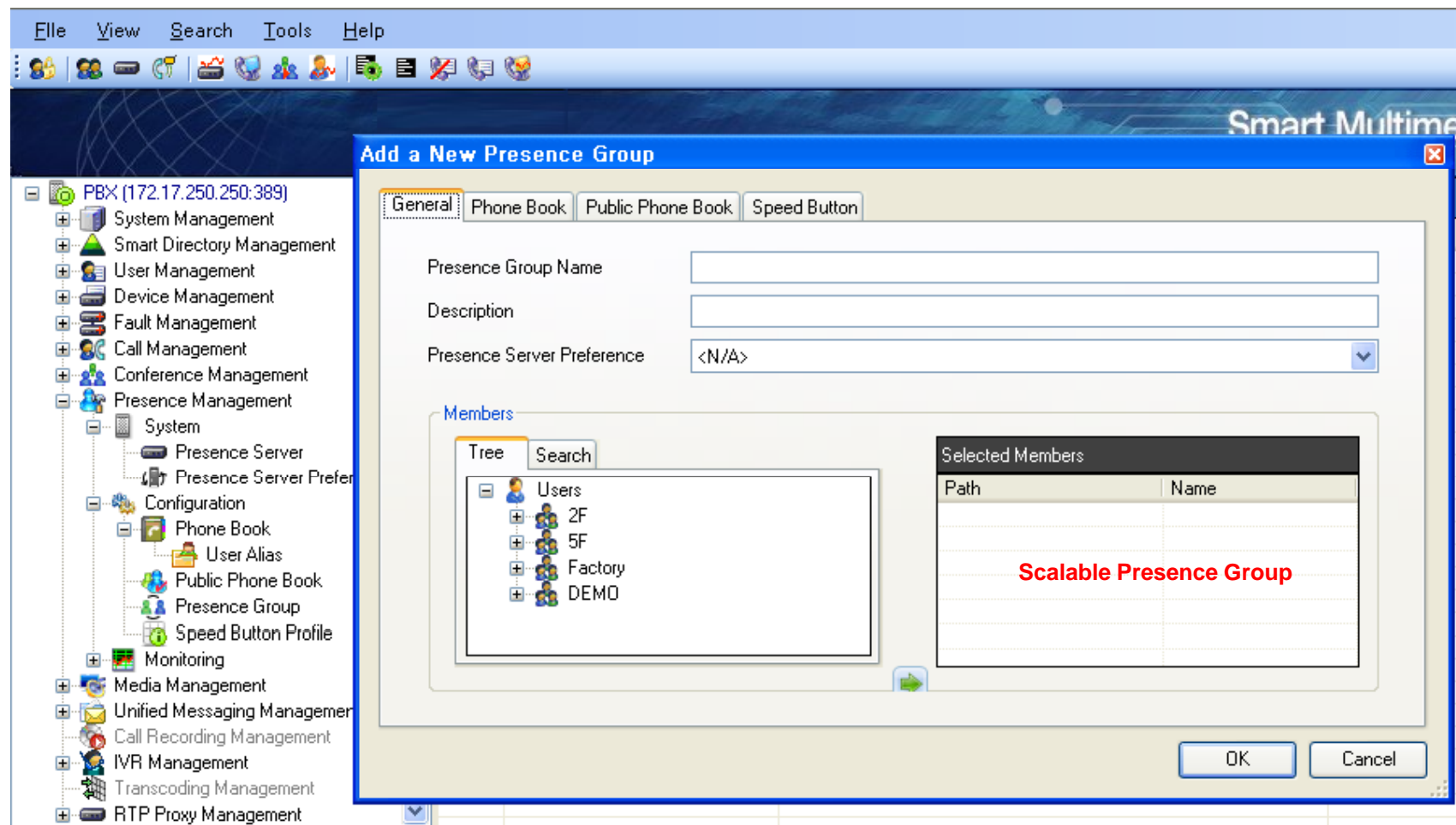
- Phone Book Name:
- Description:
- Modify button
- Path:
- Table with columns: Name, Description, Office, Mobile, Email

Name	Description	Office	Mobile	Email
test				

Public Phone Book for Customer Directory

Presence Group Management

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Speed Button Profile Management

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Smart Multime

Speed Button for Speed Button
Enabled IP Phone and Video
Phone

No.	Path	Display Name	Phone
1			
2	/DEMO	4010_DEMO	4010
3	/DEMO	4012_DEMO	4012
4	/DEMO	4013_DEMO	4013
5	/DEMO	4014_DEMO	4014
6	/DEMO	4015_DEMO	4015
7	/DEMO	4016_DEMO	4016
8	/DEMO	4017_DEMO	4017
9	/DEMO	4018_DEMO	4018
10	/DEMO	4019_DEMO	4019
11			
12			

Presence Session Monitoring

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Smart Multimedia Manager

Presence Session Monitoring

172.17.250.251 172.17.250.250

Messenger IP-Phone

No.	Presence Group Name	Login Sessions	On-Line	Away	Working	Absence	Conference	Latest Directory	Old Directory
1	add_presgroup	0	0	0	0	0	0	0	0
Total		0	0	0	0	0	0	0	0

172,17,250,251 : Connected ok!

Presence Session Status Statistics of Messenger and Phone



IVR Service

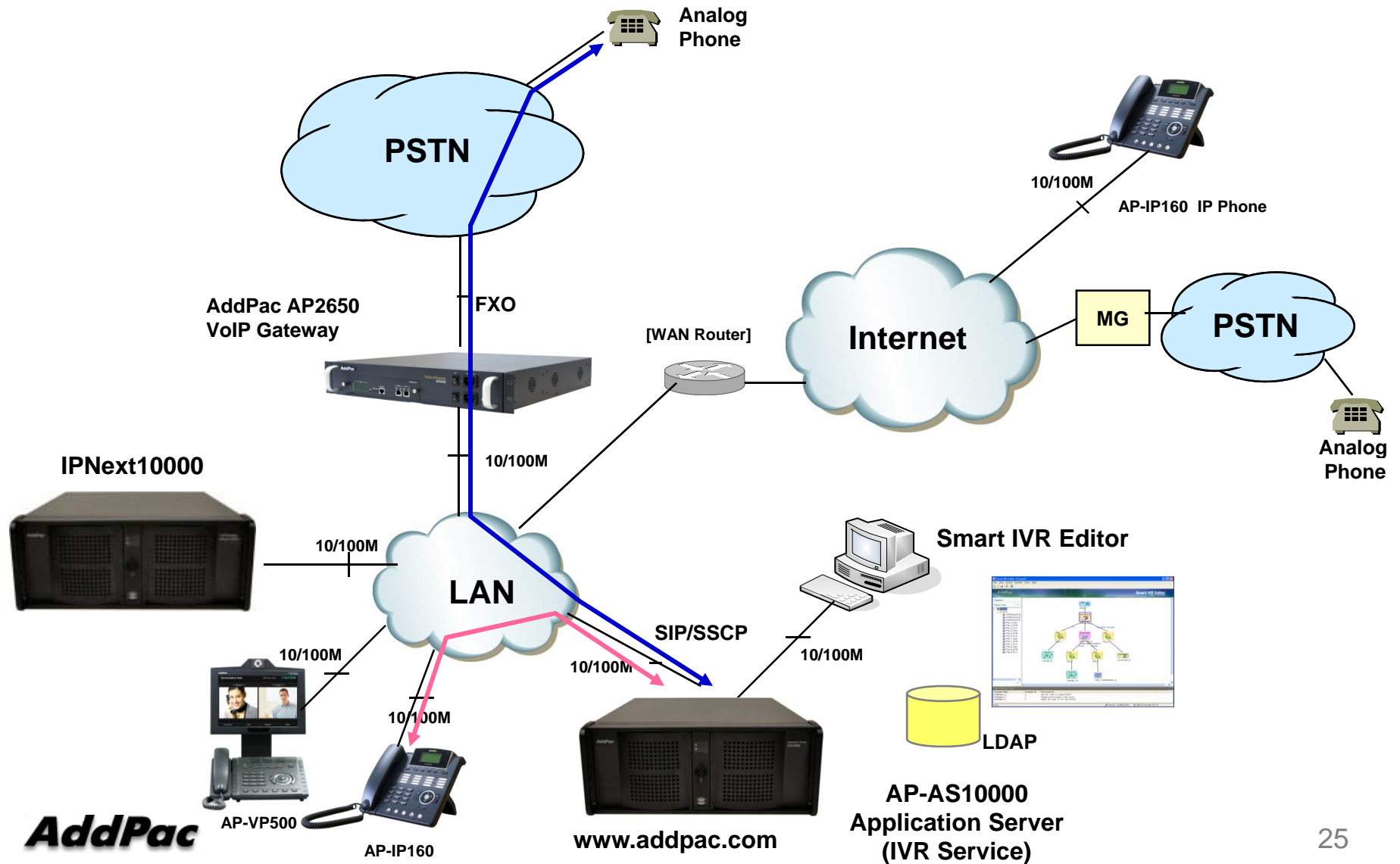
IVR Service Functions

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- IVR (Interactive Voice Response) Service
- GUI based IVR Editor
- IVR Compile Error Checking
- Voice File Transcoding and Play
- IVR Server System Management
- IVR Server Cluster Management
- Scenario Management
- IVR Service Address Management
- Schedule Based Service Support
- IVR Service Monitoring
- IVR Session Monitoring

IVR Service Network Diagram

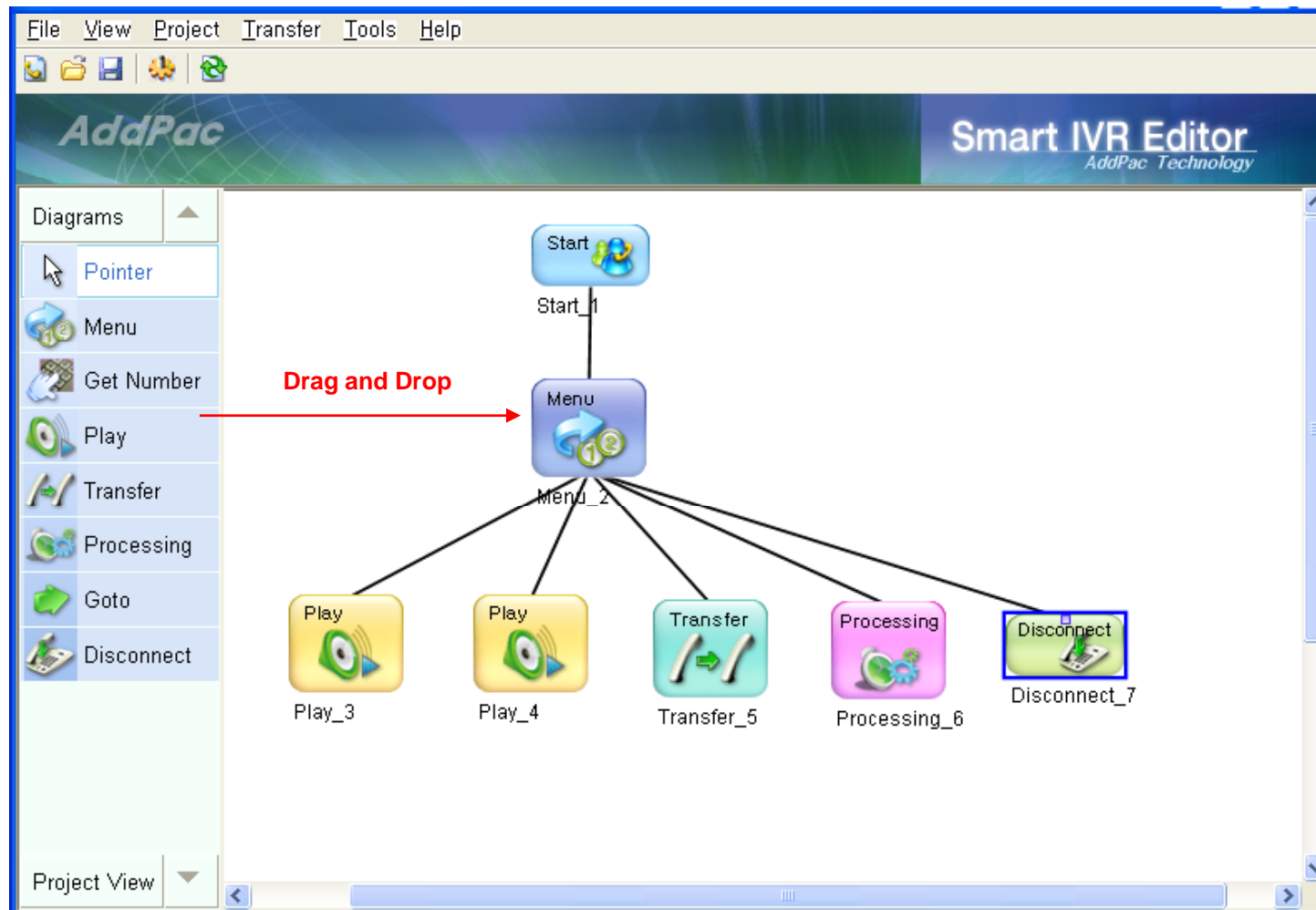
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AddPac

GUI Based IVR Editor

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IVR Compile Error Checking

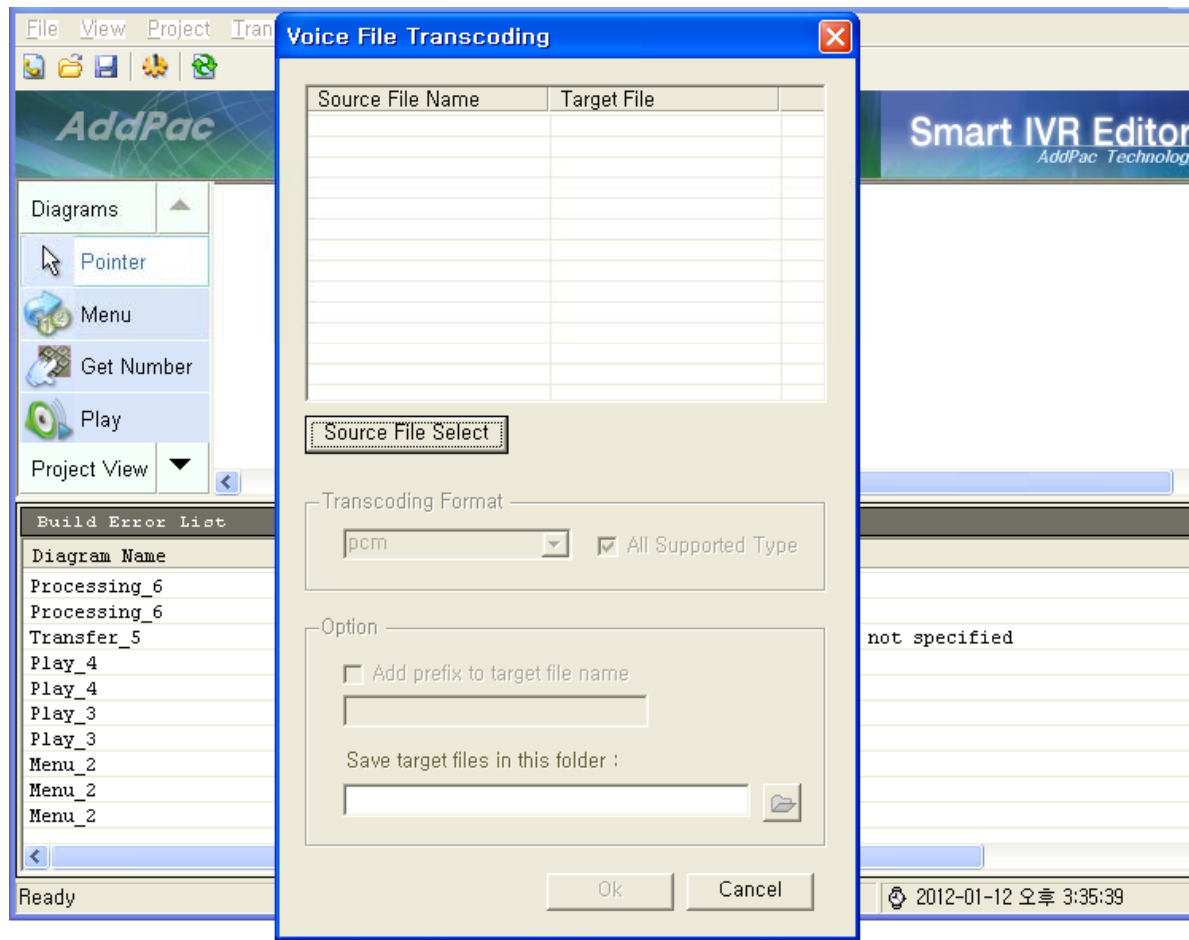
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The screenshot displays the AddPac Smart IVR Editor interface. The main workspace shows a diagram with a 'Start' node connected to a 'Menu' node. The 'Build Error List' window is open at the bottom, showing a table of errors. The error for 'Menu_2' is highlighted in red.

Diagram Name	Diagram ID	Description
Processing_6	6	The next diagram does not exist
Processing_6	6	System API is not selected
Transfer_5	5	The transfer destination value is not specified
Play_4	4	The next diagram does not exist
Play_4	4	Play list have no play item
Play_3	3	The next diagram does not exist
Play_3	3	Play list have no play item
Menu_2	2	The noinput link is unspecified
Menu_2	2	The nomatch link is unspecified
Menu_2	2	Unspecified branch link exist

Voice File Transcoding

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IVR Cluster Management

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Smart Mult

IVR Server Cluster

IVR Server Cluster Properties

Cluster Name: default

Description: 0000

IVR Servers	
Name	IP Address
Slave	172.17.250.251
Master	172.17.250.250
ACS1000	172.17.216.250

IVR Server Cluster	
Name	IP Address
Master	172.17.250.250
Slave	172.17.250.251
ACS1000	172.17.216.250

Cluster for Redundancy

Ok Cancel

- System Management
- Smart Directory Management
- User Management
- Device Management
- Fault Management
- Call Management
- Conference Management
- Presence Management
- Media Management
- Unified Messaging Management
- Call Recording Management
- IVR Management
 - System
 - IVR Server
 - IVR Server Cluster
 - Configuration
 - IVR Scenario
 - IVR Service
 - Monitoring
 - IVR Service Monitoring
 - IVR Session Monitoring
 - Transcoding Management
 - RTP Proxy Management
 - Chating Management

IVR Scenario

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The screenshot displays the AddPac IVR Management web interface. On the left is a navigation tree with categories like System Management, Smart Directory Management, User Management, Device Management, Fault Management, Call Management, Conference Management, Presence Management, Media Management, Unified Messaging Management, Call Recording Management, IVR Management, Transcoding Management, RTP Proxy Management, and Chating Management. The IVR Management section is expanded to show System, IVR Server, IVR Server Cluster, Configuration, IVR Scenario, IVR Service, Monitoring, IVR Service Monitoring, and IVR Session Monitoring. The main panel shows the 'IVR Scenario List' for a 'default' context. It contains a table with columns for Scenario Name, Scenario Number, and Description. The table lists various scenarios such as 'attendant', 'addpac-07-01-16', 'addpac-08-07-10-hol8', 'addpac-08-07-10-hol7', 'lscable6', 'main2', 'qing out', 'tech queing timeout', '1234', 'LS-09-09-25-day', 'kwangjujigu-09-11-20', 'kwangjujigu-10-06-27', and 'AMC'. The 'AMC' scenario has a description in Korean: '건국AMC음원변경'. Below the table, the text 'Scenario List' is written in red.

Scenario Name	Scenario Number	Description
attendant		Auto Attendant scenario
addpac-07-01-16	0006	
addpac-08-07-10-hol8	0004	
addpac-08-07-10-hol7	0005	
lscable6		lscable4
main2		
qing out		모든 상담원이 통화중입니다
tech queing timeout		기술지원팀 전용
1234	0009	
LS-09-09-25-day		
kwangjujigu-09-11-20		
kwangjujigu-10-06-27		
AMC	0010	건국AMC음원변경

Scenario List

IVR Service Address

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The screenshot shows the 'Add a New IVR Service' dialog box in the AddPac IVR Management interface. The dialog is open over a table of IVR services. The background interface shows a tree view on the left with 'IVR Management' expanded to 'IVR Service'. The table in the background has columns for 'No.', 'Scenario Name', and 'Schedule'.

No.	Scenario Name	Schedule
1	addpac-07-01-16	☺
2	addpac-08-07-10-hol7	☺
3	addpac-08-07-10-hol8	
4	kwangmeaong-10-02-23	
5	1234	
6	AMC	

The 'Add a New IVR Service' dialog box contains the following fields and options:

- Service Name: ARS568-3848
- Description: ARS568-3848
- Service Number: 0006
- IVR Server Cluster: default
- Scenario Name: addpac-07-01-16
- Partition: service_number (with an [Edit](#) link)
- Codec: G.711 ulaw
- Frame per Packet: 2
- Enable IVR Service (with an [IVR Schedule](#) link)
- Buttons: Ok, Cancel

IVR Schedule

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The screenshot displays the configuration interface for the IVR Schedule. The main window shows a tree view on the left with categories like System Management, User Management, and Call Management. The 'Schedule Template' folder is expanded, showing sub-items like 'holiday', 'workingday', and 'holiday'. A 'ScheduleTemplate Properties' dialog box is open, showing a 'Schedule List' table with one entry: 'lunchtime'. Below the table are configuration sections for 'Day', 'Day Template', 'Week', and 'Hour', each with a 'Use' checkbox and specific date/time settings.

No.	Schedule Name	Description
1	lunchtime	

Day

Use Start Date: 2008년 5월 23일 금요일 End Date: 2008년 5월 23일 금요일

Day Template

Use holiday

Week

Use Mon Tue Wed Thu Fri Sat Sun

Hour

Use Start Time: 오전 9:29:47 End Time: 오전 9:29:47
am 12:00:00 => 00:00:00 pm 12:00:00 => 12:00:00

Buttons: OK, Cancel, Apply

IVR Session Monitoring

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IVR Session Monitoring

Call ID	IVR Scenario	Scenario Number	Start Time	Codec	Duration (sec)	Calling N
IVR Session List for IVR Servers						



RBT(Ring Back Tone) Service

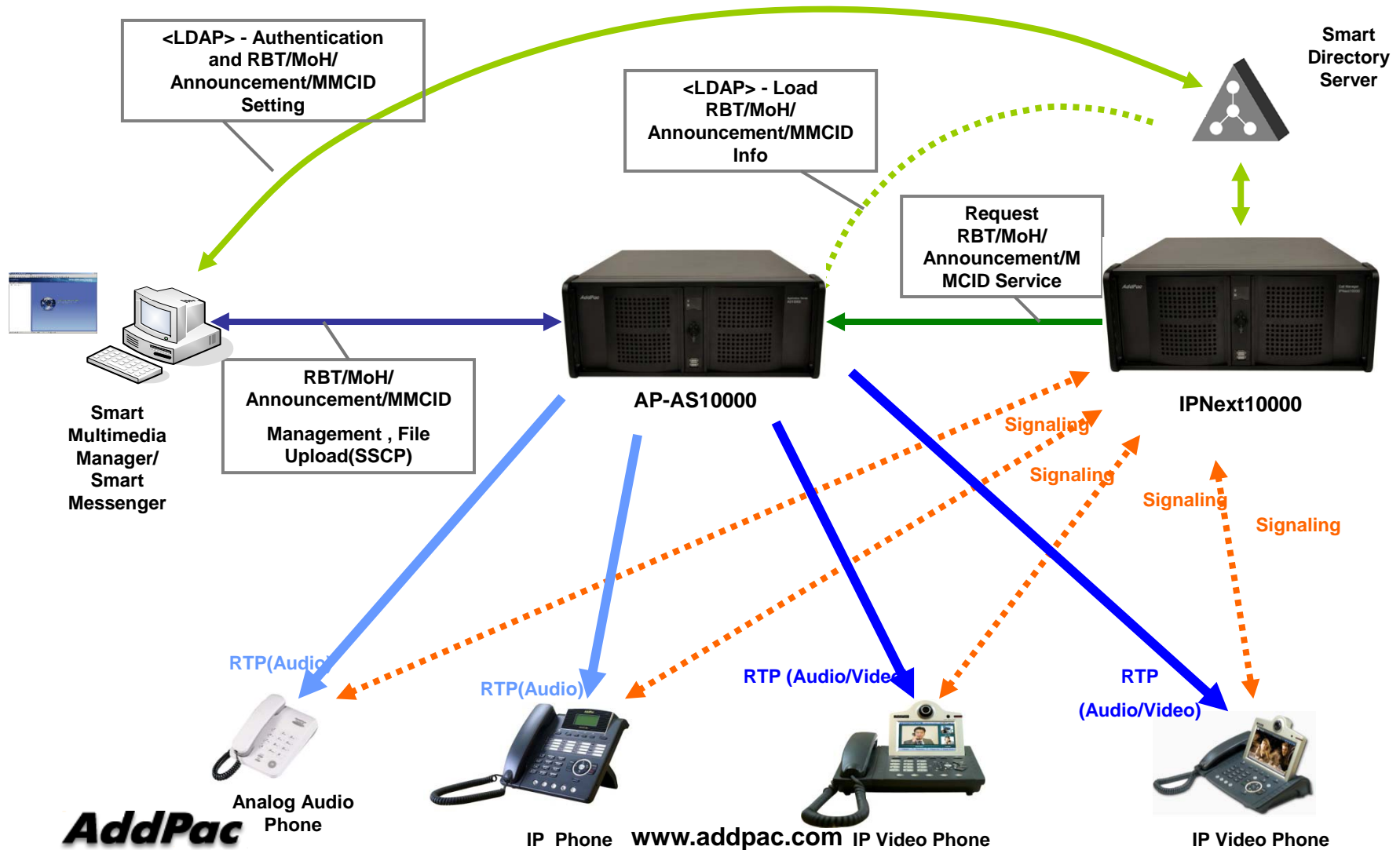
RBT Service Functions

AP-AS10000 Next Generation Multimedia Application Server

- Provides Ring Back Tone Service
- Provides Music on Hold Service
- Provides Multimedia Caller ID Service
- Address Pool Based Scalable Architecture
- RBT Server System Management
- RBT Server Cluster Management
- Announcement Package Management
- Announcement Version Management
- Personal RBT and MoH(Music on Hold) Service
- RBT Synchronize
- RBT System Monitoring
- RBT Session Monitoring

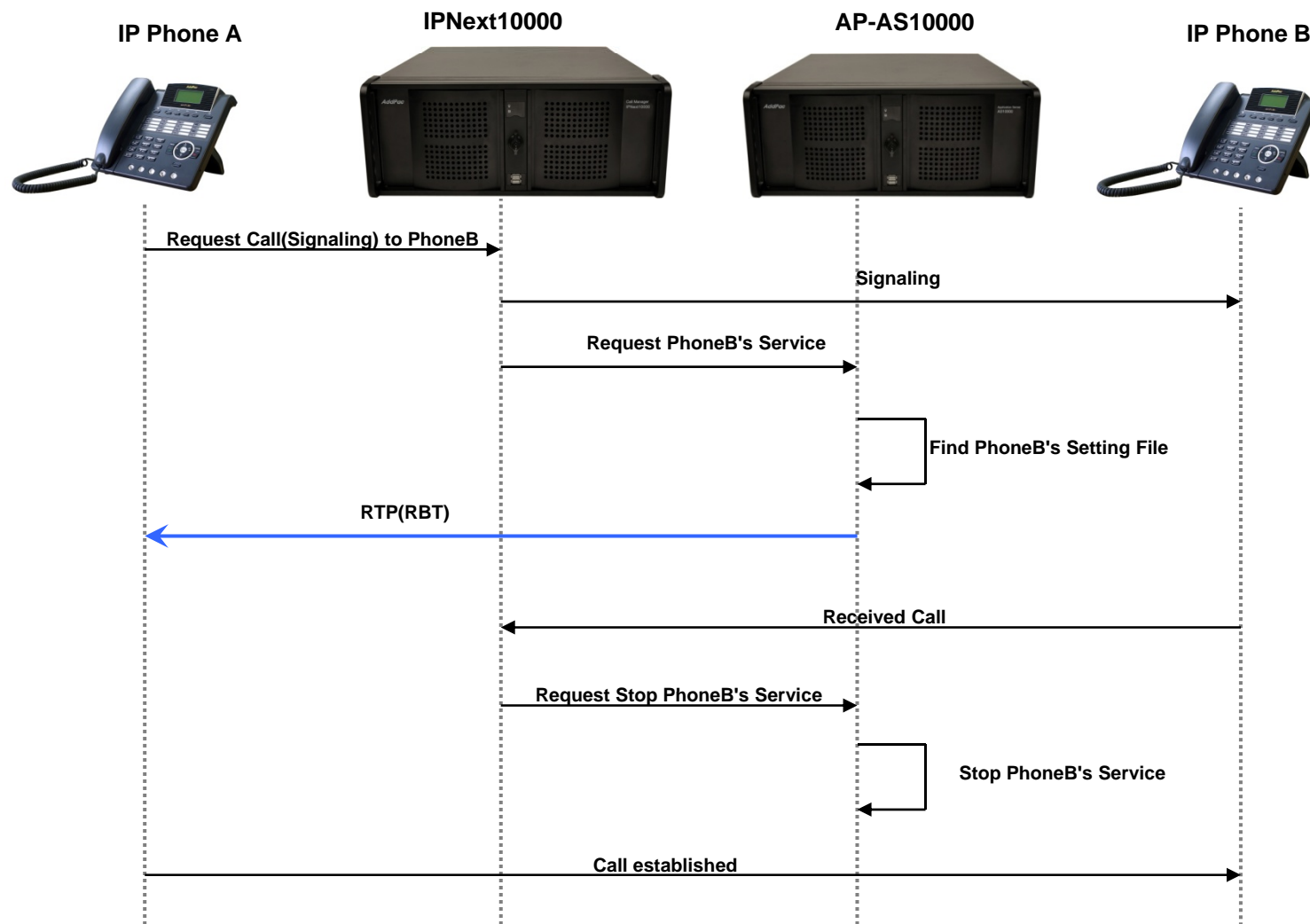
RBT Service Data Flow Diagram

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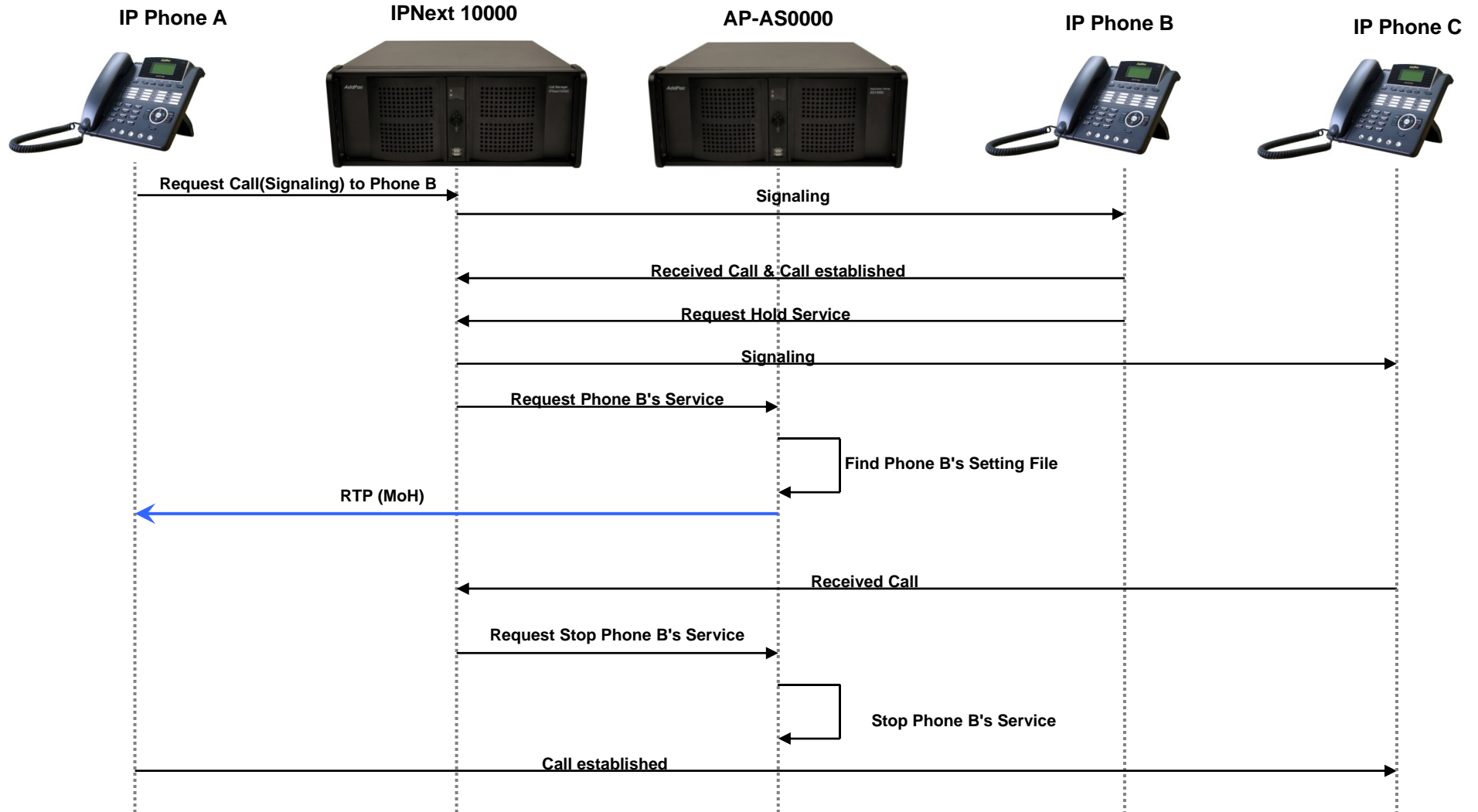
RBT Service Call Flow Diagram (Ring Back Tone)

AP-AS10000 Next Generation Multimedia Application Server



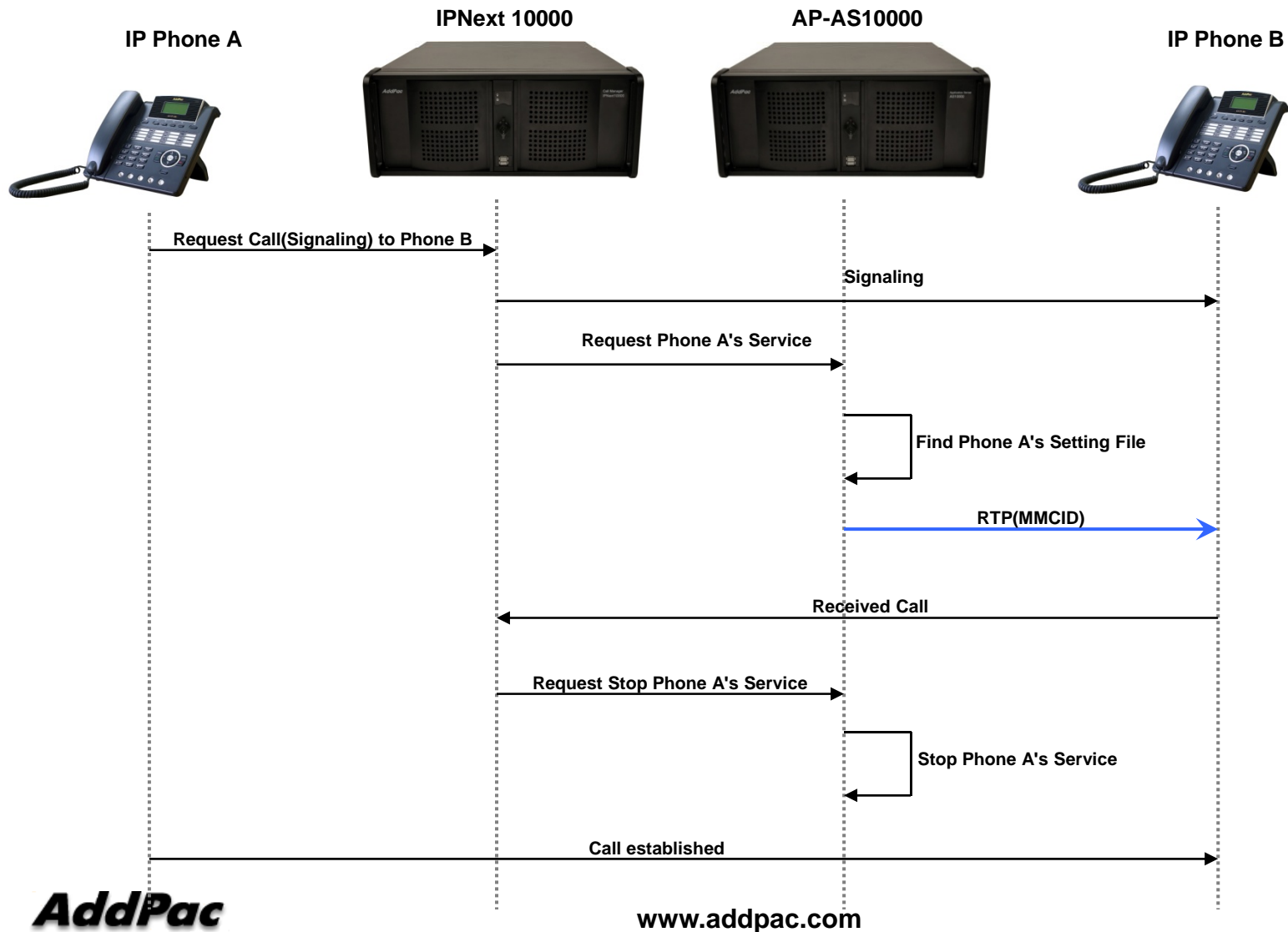
RBT Service Call Flow (MoH: Music on Hold)

AP-AS10000 Next Generation Multimedia Application Server



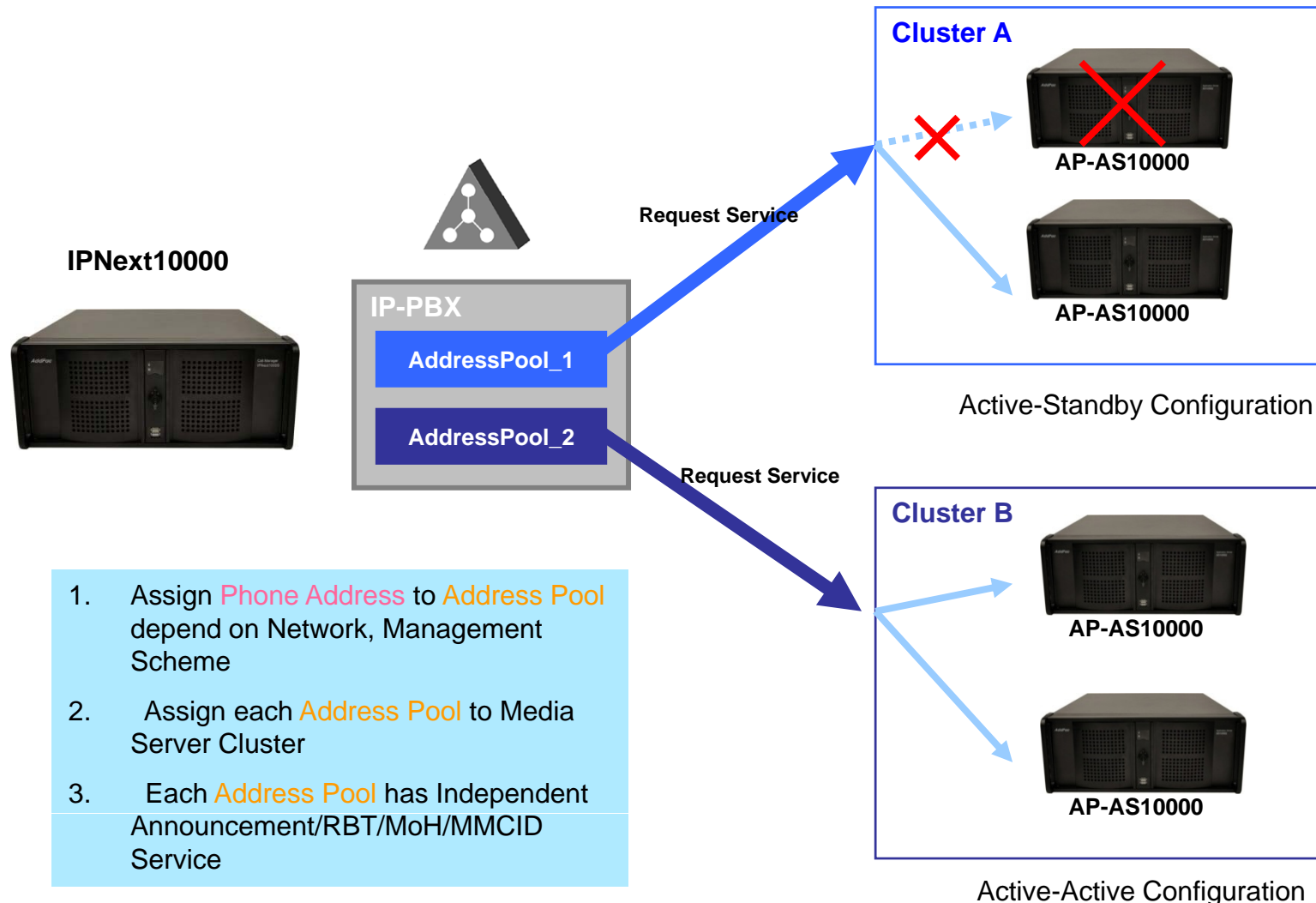
RBT Server Call Flow(MMCID:Multimedia Caller ID)

AP-AS10000 Next Generation Multimedia Application Server



RBT Service Address Pool and Cluster

AP-AS10000 Next Generation Multimedia Application Server



1. Assign Phone Address to Address Pool depend on Network, Management Scheme
2. Assign each Address Pool to Media Server Cluster
3. Each Address Pool has Independent Announcement/RBT/MoH/MMCID Service

RBT Service Support Codec

AP-AS10000 Next Generation Multimedia Application Server

Audio/Video	Codec
Audio	G711u
	G711a
	G729
Video	MPEG4
	H.263

Announcement Service

AP-AS10000 Next Generation Multimedia Application Server

Service	Name	Description
Dial Tone	Normal Dial-tone	Hearing Tone When off-Hook("ttou")
	Virtual Dial-tone	Hearing tone when a user try to external outbound call (9T). Little bit difference with normal tone
	Consult tone	Hearing tone when a user transfer call("ttou", "ttou")
Announcement	Connect	Call will be connected
	Retry	Sorry, retry to call connect
	No Number	Sorry, Phone Number is not available
	Over Count	Retry count number is over.
	Busy	Sorry, this phone line is busy
	No Answer	Sorry. User doesn't answer
	System Normal Fail	Sorry, call connection is not available at this time
	Network Busy	Sorry, Network is busy, please retry after moment.
	System overload	Sorry, this call is restricted by license, please rety after moment
Default RBT/MoH	Ring back tone	Default RBT
	Music On Hold	Default MoH
	Call Waiting tone	Call Waiting tone

RBT Server Cluster Management

AP-AS10000 Next Generation Multimedia Application Server

The screenshot displays the AddPac management console interface. On the left, a tree view shows the navigation structure, including 'Media Management' and 'Media Server Cluster'. The main area shows the 'Media Server Cluster Properties' dialog box. The dialog box has the following fields and tables:

- Cluster Name: default
- Description: (empty)
- Media Servers table (empty):
- Media Server Cluster table:

Name	IP	Role
Master	172.17.250.250	master
Slave	172.17.250.251	slave
ACS1000	172.17.216.250	slave

Cluster for Redundancy

Buttons: Ok, Cancel

Announcement Package Management

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Smart Mult

Package Management

Media Server Cluster: All

No.	Media Server Cluster	Package ID	Version	Description	Language
1	default	8	8.48	cm_v8.48 package	한국어
2	default	9	8.48	cm_v8.48 package	en
3	default	10	8.50	cm_v8.50 package	한국어
4	default	11	8.50	cm_v8.50 package	en

Multiple Announcement Packages

Announcement File Management

AP-AS10000 Next Generation Multimedia Application Server

Announcement Management

ID: 400120 Description: 내선 번호 재 시도 안내
Name: Retry Language: 한국어

No.	File Type	Media Type	Version	File Name	Uploaded Time	Codec	Play
1	package	Audio	8.48	400120_kr_v8.48.audio...	20090516 15:58:...	g711u/g729	
2	package	Audio	8.50	400120_kr.audio.pcm.p...	20100127 20:09:...	g711u/g729...	

Announcement File Uploading and Play

>>> Upload OK Cancel

Personal Media Service

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The screenshot displays the 'Media File Management' window. The 'Service Address' section includes fields for Name (활우선 상무), Address (1002), Path (/5F), and Description (반갑습니다.). The 'File List' table contains one entry:

No.	Media Type	File Name	File Size(kb)	Uploaded Time	Codec	Play
1	Audio	My Story - Brow...	2554	20080123 23:09:58		

Below the table, there is an 'Upload File' section with a file selection button, a progress bar, and status indicators: 'Transfer Size : 0/0 MB' and 'Speed: 0 KB/s'. At the bottom, there are 'Upload', 'Cancel', and 'Exit' buttons. The background shows a tree view of system components, with 'Personal RBT & MOH' selected.

Personal RBT/MoH/MMCID File Uploading and Play

RBT Service Synchronize

AP-AS10000 Next Generation Multimedia Application Server

The screenshot shows the 'RBT Synchronize' configuration window. The left sidebar displays a tree view of system services, with 'RBT Synchronize' selected. The main panel features a 'Filter' section with dropdown menus for 'Filter Name' (Message Box), 'Rule' (begins with), and 'Word' (Garbage), along with an 'Advanced Search' link and a 'Find' button. Below this, there are tabs for 'None Exist File List' and 'Garbage List'. The 'Garbage List' tab is active, showing a table with two entries:

No.	File Name	Path
1	UUID_2100_44049_100011_serenade_jim brickman...	/hd/addpac//personal_0000003
2	UUID_2100_44049_100011_serenade_jim brickman...	/hd/addpac//personal_0000003

Below the table, the text 'Personal Garbage File List' is displayed in red. At the bottom of the window, a status bar shows '172.17.250.251 : Connected ok!'.

Session Monitoring

AP-AS10000 Next Generation Multimedia Application Server

Media Session Monitoring

172.17.216.250 172.17.250.251 172.17.250.250

RBT

No.	Call Manager	Media Type	Calling Address	Calling User	Called Address	Called User
Session Monitoring						

MoH

No.	Call Manager	Media Type	Calling Address	Calling User	Called Address	Called User
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CID

No.	Call Manager	Media Type	Calling Address	Calling User	Called Address	Called User
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UMS(Unified Messaging Service)

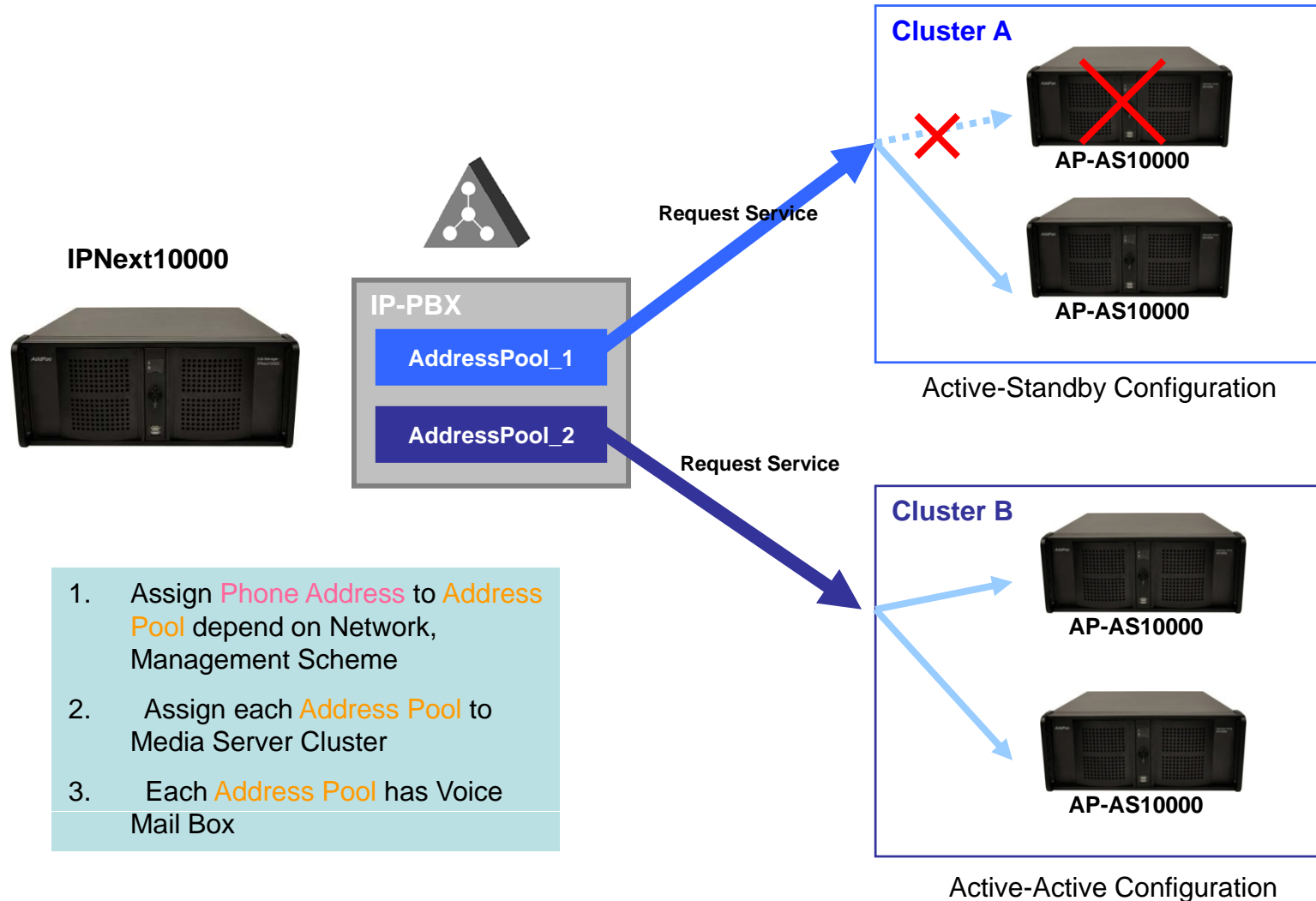
UMS Service Main Functions

AP-AS10000 Next Generation Multimedia Application Server

- UMS Server System Management (search/modify/delete/save)
- UMS Server Cluster Management (search/modify/delete/save)
- UMS Server Email Notification Setting (SMTP Server)
- Address Pool Management (search/modify/delete/save)
- Create Message Box from unassigned address
- Default Unified Message Box Configuration (HDD Quota, Email Notification, Account Blocking)
- Personal Unified Message Box Configuration (HDD Quota, Email Notification, Account Blocking)
- Unified Message Box Management (initialize/move/delete)
- Unified Message Management (move/delete)
- Real-time UMS List Search
- Synchronize Message Box
- UMS Server System Performance and Status Monitoring (CPU/Memory/HDD/Traffic)
- UMS Session Monitoring

UMS Service Address Pool and Cluster

AP-AS10000 Next Generation Multimedia Application Server



1. Assign Phone Address to Address Pool depend on Network, Management Scheme
2. Assign each Address Pool to Media Server Cluster
3. Each Address Pool has Voice Mail Box

UMS Service System Management

AP-AS10000 Next Generation Multimedia Application Server

The screenshot displays the Smart Multimedia Manager interface. On the left, a tree view shows the navigation structure, with 'Add Unified Messaging Server' highlighted under the 'Unified Messaging Management' section. The main window shows a table of devices with columns for Device Name, Model, Status, IP Address, Device Pool, and Description. A context menu is open over the table, and the 'Add Unified Messaging Server' option is selected. A dialog box titled 'Add a New Unified Messaging S...' is open, showing the following fields:

- Name: UMS_1000
- Description: (empty)
- Model Name: AP-UMS1000
- Device Pool: default
- Service Access Point: (empty)
- IP Address: (empty)
- Control Port: 5101
- Network Domain: private

Red arrows and a bracket highlight the dialog box and the 'Add Unified Messaging Server' option in the context menu, with the text 'New UMS Server Registration Information' next to the bracket.

Device Name	Model	Status	IP Address	Device Pool	Description
testBroadCast	AP3120	Static	172.16.3.151	default	
PS2000	AP-PS2000	Static	172.17.250.249	default	
VP350	AP-VP350MCU	Static	61.33.161.124	default	
VC2000	AP-VP350MCU	Static	61.33.161.29		
MC3000	AP-MC3000	Static	172.17.215.111		
MC1000_test	AP-MC1000	Static	172.17.250.248		
Auto-Upgrade			.11		
UMS Server			0.246		
RBT1000			0.247		

UMS Service Cluster Management

AP-AS10000 Next Generation Multimedia Application Server

The screenshot displays the Smart Multimedia Manager interface. A context menu is open over a table listing UMS Clusters, with the 'Add Unified Messaging Cluster' option highlighted. A red arrow points from this menu item to the 'Unified Messaging Server Cluster Properties' dialog box. The dialog box contains the following fields and tables:

- Cluster Name: UMS Cluster
- Description: (empty)
- Unified Messaging Servers table:

Name	IP
- Unified Messaging Server Cluster table:

Name	IP	
UMS Server	172.17.250.246	master

Buttons for 'Ok' and 'Cancel' are visible at the bottom of the dialog box. A red text label 'UMS Server Cluster Setting' is positioned to the right of the dialog box. The status bar at the bottom shows the date and time as 2008-09-24 3:01:38, version 3.4.3174, and the user as Administrator.

UMS Service Email Notification Setting

AP-AS10000 Next Generation Multimedia Application Server

The screenshot displays the AddPac Smart Multimedia Manager interface. On the left is a tree view of the system configuration. The main area shows a table of Unified Messaging Servers. A red box highlights the first row, and a red arrow points from it to a configuration dialog box.

No.	Name	Model	IP	Status	Description
1	UMS Server	AP-UMS1000	172.17.250.246	In Service	

Unified Messaging Server Configuration Dialog:

- Unified Messaging Server: UMS Server
- Service Address Point
 - IP Address: 172.17.250.246
 - Port: 5101
 - Network Domain: private
- SMTP Server (highlighted with a red box)
 - IP Address: 61.33.161.2
 - Port: 25
 - Email Account: ysllee@addpac.com
- Enable Service
- Buttons: OK, Cancel

**UMS Server SMTP Setting
to send a mail with attached file**

Address Pool Management

AP-AS10000 Next Generation Multimedia Application Server

Smart Multimedia Manager

Address Pool - 172.17.250.250

No.	Address Pool Name	Description
1	default	
2	address_pool	

Address Pool Properties

General [Phone Number]

Address Pool Name: address_pool

Description:

Media Server Cluster: RBT

Unified Messaging Server Cluster: UMS Cluster

UMS Server Cluster Setting

Address Pool Properties

General [Phone Number]

Filter

Filter Name: Address, Rule: begins with, Word: , Advanced Search, Find

Address

Address	Partition
1000	2F_internalExt.
1001	3F_internalExt.
1002	5F_internalExt.
1003	3F_internalExt.
1004	5F_internalExt.
1005	5F_internalExt.
1006	5F_internalExt.
1007	5F_internalExt.
1008	5F_internalExt.
1009	5F_internalExt.
1010	5F_internalExt.
1011	3F_internalExt.

Address List Setting In Address Pool

Unassigned Address Configuration

(Create message box from unsigned address)

AP-AS10000 Next Generation Multimedia Application Server

Smart Multimedia Manager

Advanced Smart Multimedia Manager

Smart Directory Servers

- 172.17.250.250 (172.17.250.250:389)
 - Smart Directory Management
 - User Management
 - Device Management
 - Fault Management
 - Call Management
 - Conference Management
 - Presence Management
 - Media Management
 - Unified Messaging Management
 - System
 - Unified Messaging Server
 - Unified Messaging Server C
 - Configuration
 - Message Box Configuration
 - Unified Message Box
 - Unassigned Address
 - Synchronize Message Box
 - Monitoring

Unassigned Address

Filter

Filter Name Rule Word [Advanced Search](#)

Phone Number begins with Find

Create max count: 400

No.	Address Pool	Address	Partition	Path	User	Description
124	address_pool	5002	Factory_inte...	/Factory	ihlee	
125	address_pool	5003	Factory_inte...	/Factory	ykkim	
126	address_pool	5004	Factory_inte...	/Factory	parkh	
127	address_pool	5005	Factory_inte...	/Facto		
128	address_pool	5006	Factory_inte...	/Facto		F5
129	address_pool	5007	Factory_inte...	/Factory		
130	address_pool	5008	Factory_inte...	/Factory	hhm	
131	address_pool	5009	Factory_inte...	/Factory		
132	address_pool	5010	Factory_inte...	/Factory	ictak	
133	address_pool	5011	Factory_inte...	/Factory	dsjang	
134	address_pool	5012	Factory_inte...	/Factory	5012	
135	address_pool	5013	Factory_inte...			
136	address_pool	5014	Factory_inte...			
137	address_pool	6000	external_Lext...			
138	address_pool	6001	external_Lext...			
139	address_pool	6005	external_Lext...			
140	address_pool	6006	external_Lext...			
141	address_pool	6010	external_Lext...			
142	address_pool	6011	external_Lext...			
143	address_pool	6012	external_Lext...			

Total Numbers : 185

Message

Create message box succeeded!

확인

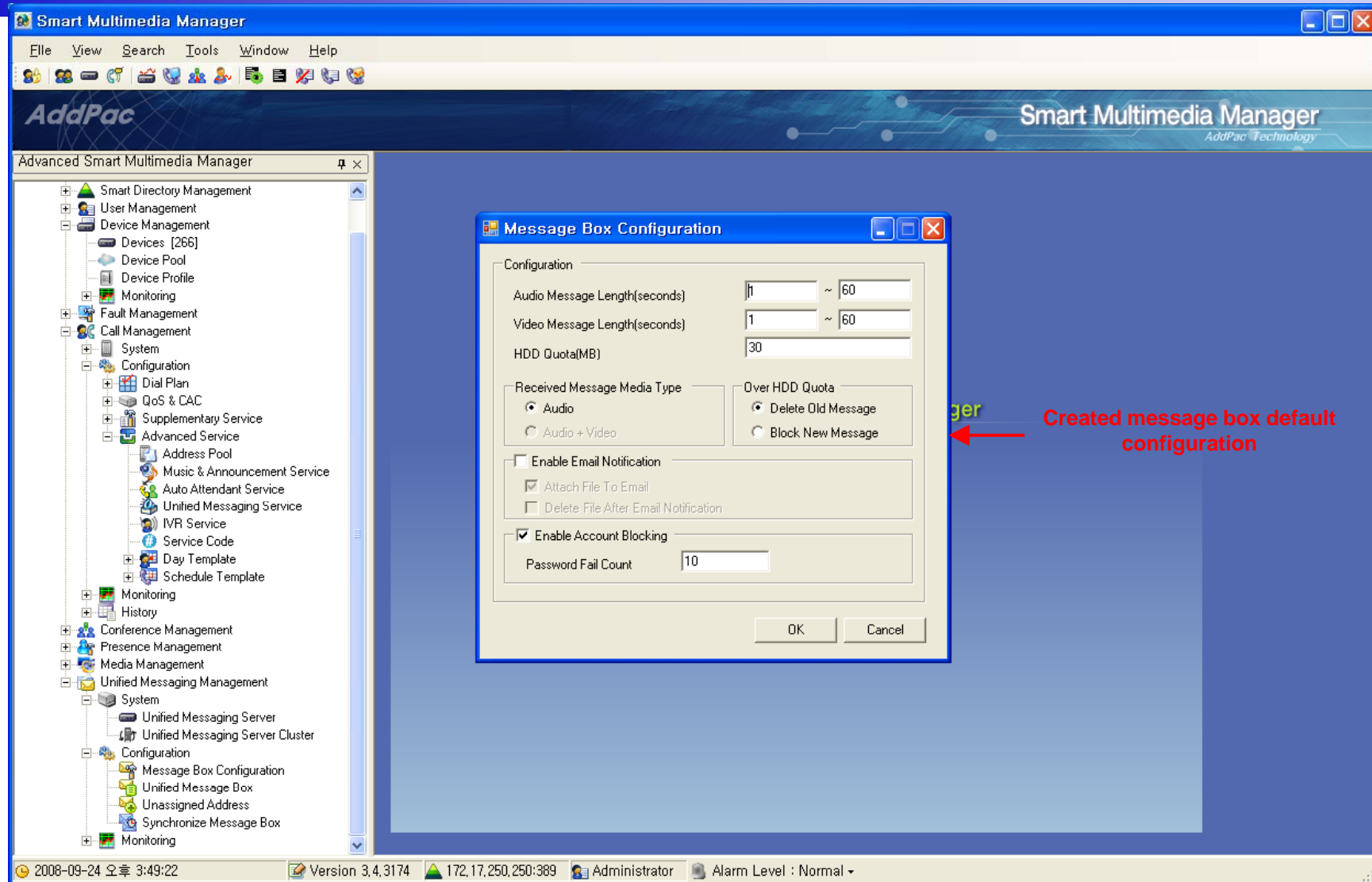
Select Unassigned Address to create message box

Message Box Created

2008-09-25 오전 9:24:14 Version 3.4.3174 172.17.250.250:389 Administrator Alarm Level : Normal

Unified Message Box(1) (use default setting)

AP-AS10000 Next Generation Multimedia Application Server



Unified Message Box(2)(use personal setting)

AP-AS10000 Next Generation Multimedia Application Server

The screenshot displays the Smart Multimedia Manager interface. On the left, a tree view shows the 'Unified Message Box' configuration. The main window shows a table of message boxes with the following data:

No.	Address Pool	Address	Partition	Path	User
73	address_pool	1224	5F_intern...		
74	address_pool	1225	5F_intern...		
75		1226	5F_intern...		
76		1227	5F_intern...		
77	default	1228	5F_intern...		
78	default	1229	5F_intern...		
79	address_pool	1235	5F_intern...	500/5F/BCN/U...	
80	address_pool	1300	5F_intern...		
81	address_pool				
82	default				
83	default				
84	default				
85	default				
86	default				
87	default				
88	default				
89	default	1336	5F_intern...		

The 'Phone Number Properties' dialog is open, showing the 'General' tab. The 'Generation' section has 'Single' selected. The 'Phone Number' field contains '1235'. The 'Description' field is empty. The 'External Phone Number' field is empty. The 'AAR Group' dropdown is set to 'N/A'. The 'Address Pool' dropdown is set to 'address_pool'. The 'Unified Message' tab is selected, and the 'Use Personal Configuration' checkbox is checked. A red arrow points from the 'Properties' menu item in the table to the dialog. Red text annotations read: 'Use Personal Configuration' and 'For specific address's message box'.

Unified Message Box(3) (General management)

AP-AS10000 Next Generation Multimedia Application Server

UMS Information

Message Box
Garbage Message Box

Initialize, delete max count: 400

No.	Address Pool	Address	Partition	Path	User ID	Messa...	Inbox	Savebox	Quota(MB)	Used(KB)	Blocking	Blocking Reason
73	address_pool	1224	5F_intern...				0	0	30	0		
74	address_pool	1225	5F_intern...				0	0	30	0		
75	address_pool	1226	5F_intern...				0	0	30	0		
76	address_pool	1227	5F_intern...				0	0	30	0		
77	default	1228	5F_intern...				0	0	30	0		
78	default	1229	5F_intern...				0	0	30	0		
79	address_pool	1235	5F_intern...	.../5F/BCN/U...	1235		0	0	30	0		
80	address_pool	1300	5F_intern...				0	0	30	0		
81	address_pool	1301	5F_intern...				0	0	30	0		
82	default	1302	5F_intern...				0	0	30	0		
83	default	1303	5F_intern...				0	0	30	0		
84	default	1304	5F_intern...				0	0	30	0		
85	default	1305	5F_intern...				0	0	30	0		
86	default	1333	5F_intern...				0	0	30	0		
87	default	1334	5F_intern...				0	0	30	0		
88	default	1335	5F_intern...				0	0	30	0		
89	default	1336	5F_intern...				0	0	30	0		

Total Numbers : 158 Message Box Numbers : 101 Garbage Numbers : 57

Unified Message Box(4) (Message Management)

AP-AS10000 Next Generation Multimedia Application Server

The screenshot displays the Smart Multimedia Manager interface. The main window is titled "Unified Message Box" and contains a filter section with "Filter Name" set to "Phone Number" and "Rule" set to "is exactly". A context menu is open over the "Message List" button, with options: "Initialize Message Box", "Move Message Box", "Delete Message Box", "Message List", "Refresh F5", and "Properties". A red arrow points from the "Message List" button to the "Unified Messaging List" window.

The "Unified Messaging List" window shows a table of messages in the "Inbox[5]" folder. A context menu is open over the first row, with options: "Move Message", "Delete Message", "Delete Message Option", "Delete Directory", and "Refresh F5". A red arrow points from the "Delete Message" option to the text "UMS Message Management".

Red annotations include "Check UMS Message" pointing to the context menu in the Unified Message Box window, and "UMS Message Select" pointing to the first row in the Unified Messaging List window.

No.	Address	Partition	Path	User	Start Time	Duration	Size(KB)	Type	Audio Co...	Video Co...
1	1225				2008-08-04 16:18:06	00:00:04	32	audio	G711U	
2	1228				2008-07-14 13:06:40	00:00:01	10	audio	G711U	
3	1228				2008-07-09 17:28:30	00:00:01	11	audio	G711U	
4	1228				2008-07-09 17:24:32	00:00:04	26	audio	G711U	
5	1228				2008-07-09 17:23:35	00:00:05	42	audio	G711U	

Address : 1213 User : bmlee Quota : 30MB Used : 211KB

Synchronize Message Box

AP-AS10000 Next Generation Multimedia Application Server

Smart Multimedia Manager - [Synchronize Message Box]

Advanced Smart Multimedia Manager

Filter

Filter Name Rule Word [Advanced Search](#)

Phone Number begins with Find

No.	Address Pool	Address	Partition	Path	User	Description
1	default	1018				
2	default	1099				

Synchronize Refresh

Synchronize non-exist message box

Message

Synchronize message box successfully.

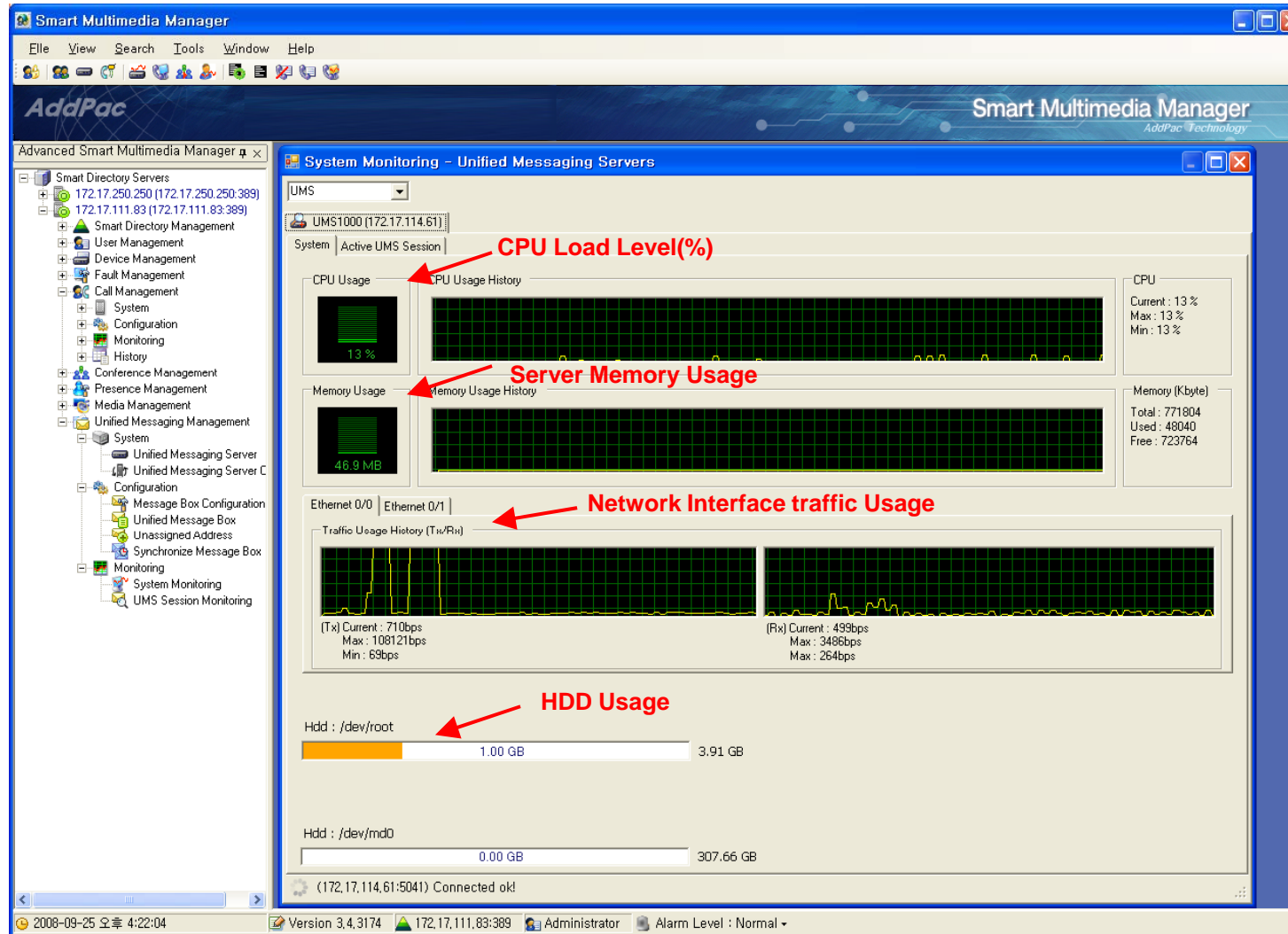
확인

Total Numbers : 0

2008-09-24 오후 5:35:10 Version 3.4.3174 172.17.250.250:389 Administrator Alarm Level : Normal

System Performance Monitoring

AP-AS10000 Next Generation Multimedia Application Server



Active UMS Session Monitoring

AP-AS10000 Next Generation Multimedia Application Server

The screenshot displays the 'Smart Multimedia Manager' software interface. The main window is titled 'System Monitoring - Unified Messaging Servers'. On the left, a tree view shows the navigation structure, including 'Smart Directory Servers', 'System', and 'Monitoring'. The main content area shows a 'UMS Cluster' dropdown set to 'UMS Server (172.17.250.246)'. Below this, there are two panels: 'UMS Session' and 'UMS Session History'. The 'UMS Session' panel contains a small green bar chart with the number '2' below it, representing the current session size. A red arrow points from the text 'UMS Session Size' to this panel. The 'UMS Session History' panel is an empty grid. A button labeled 'UMS Session Monitoring...' is located to the right of the history panel, with a red arrow pointing from the text 'UMS Session Monitoring' to it. At the bottom of the window, a status bar shows '(172, 17, 250, 246:5041) Connected ok!'. The Windows taskbar at the bottom indicates the date and time as '2008-09-25 오후 4:28:24', the version as 'Version 3.4.3174', and the user as 'Administrator'.

Active UMS Session List Monitoring

AP-AS10000 Next Generation Multimedia Application Server

The screenshot displays the 'Smart Multimedia Manager' interface for 'UMS Session Monitoring'. The left sidebar shows a tree view of system components, including 'Smart Directory Servers', 'User Management', 'Device Management', 'Fault Management', 'Call Management', 'System', 'Configuration', 'Dial Plan', 'QoS & CAC', 'Supplementary Service', 'Advanced Service', 'Address Pool', 'Music & Announcement Service', 'Auto Attendant Service', 'Unified Messaging Service', 'IVR Service', 'Service Code', 'Day Template', 'Schedule Template', 'Monitoring', 'History', 'Conference Management', 'Presence Management', 'Media Management', 'Unified Messaging Management', 'System', 'Unified Messaging Server', 'Unified Messaging Server Cluster', 'Configuration', 'Message Box Configuration', 'Unified Message Box', 'Unassigned Address', and 'Synchronize Message Box'. The main area shows a 'UMS Cluster' dropdown menu with 'UMS Server [172.17.250.246]' selected. Below this is a table titled 'UMS Session' with the following data:

No.	Call Manager	Calling Address	Calling User	Called Address	Called User	Start Time	Audio Co...	Video Co...	Status
1	172.16.7.90	2000		2001		2008-09-25 02:0...	G711U		Leaving

The status bar at the bottom indicates '(172.17.250.246:5101) Connected ok!' and the system tray shows the date '2008-09-24 오후 5:05:10', version '3.4.3174', IP '172.17.250.250:389', user 'Administrator', and 'Alarm Level : Normal'.

Network Service and Features

AP-AS10000 Next Generation Multimedia Application Server

Basic Network Protocols

- ARP, IP, IPv6, TCP, UDP, ICMP, ICMPv6, SCTP, IGMP, MLD

Routing Protocol

- IPv4 : Static
- IPv6 : Static

Service Protocol

- FTP, Telnet, TFTP, DHCP Server/Relay, SNMP Server
- CDP (Cisco Discovery Protocol)
- DNS Resolver , DDNS(nsupdate)
- Bridge
- Syslog
- IP/IPv6 policy control (QoS)
- VPDN (Virtual Private Dial-up Network : L2TP Server)

Network Service and Features

AP-AS10000 Next Generation Multimedia Application Server

IPv4/IPv6 Interworking

- NAT/PAT for IPv4
- IP connect (formerly ip-share) and device cascade for IPv4
- IP/IP, IP/GRE tunneling
- NAT-PT
- 6to4, Autoconfig tunneling

IPv4 Address Configuration

- Fixed (Static)
- DHCP
- PPPoE

IPv6 Address Configuration

- Fixed (Static)
- EUI-64
- Autoconfig (Neighbor Advertisement and Solicitation)

Network Service and Features

AP-AS10000 Next Generation Multimedia Application Server

Miscellaneous

- Cisco Style CLI
- Standard & Extended IPv4/IPv6 Access List
- Multi-level User Account Management
- IP accounting
- fsh (Embedded file system shell)
- STUN Client

Network Service and Features

AP-AS10000 Next Generation Multimedia Application Server

SNMP MIBs

- MIB-II
- RMON MIBs (Statistics, History, Alarm, Hosts Group)
- RFC2465 Management Information Base for IP Version 6: Textual Conventions and General Group
- RFC2466 Management Information Base for IP Version 6: ICMPv6 Group
- RFC2452 IP Version 6 Management Information Base for the Transmission Control Protocol
- RFC2454 IP Version 6 Management Information Base for the User Datagram Protocol
- AddPac Enterprise MIBs
- etc

Ordering Information

- AS-10000 Multimedia Application Server Hardware
- Built-in APOS Internetworking Software for AP-AS10000
- Including 1 Year Hardware Warranty
- Product Documents
 - Install and Operation Guide (PDF)
- Pricing
 - AddPac Technology Regional Sales Manager
 - Authorized Sales and Marketing Representatives
 - Please Contact www.addpac.com

Multimedia Application Server

Thank you!

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