

AP-VWP150

Smart IP Video Wall PAD

High Performance IP Video Wall PAD Solution

Video Conference Call Service



AddPac

AddPac Technology

2015, Sales and Marketing

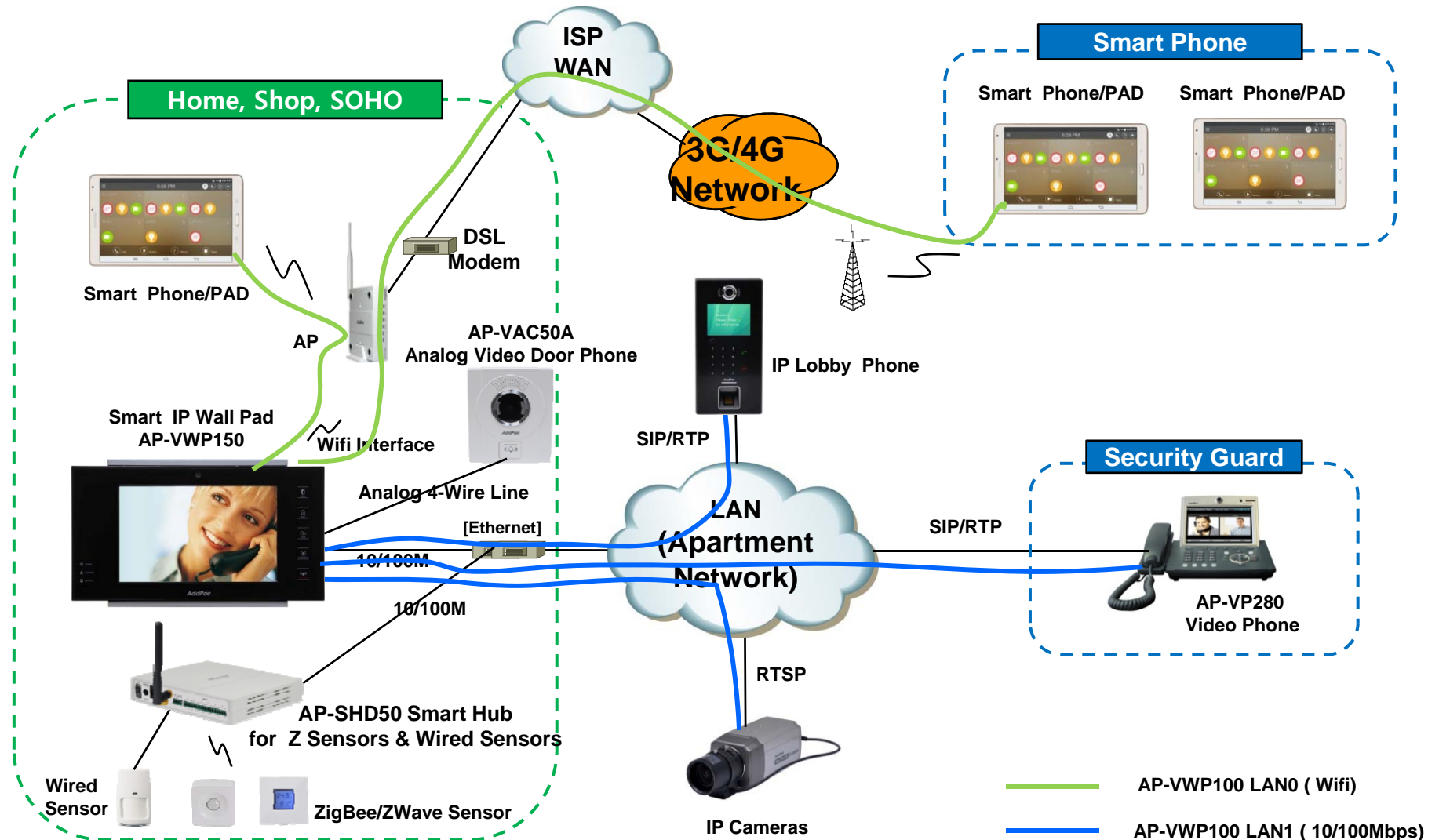
www.addpac.com

Contents

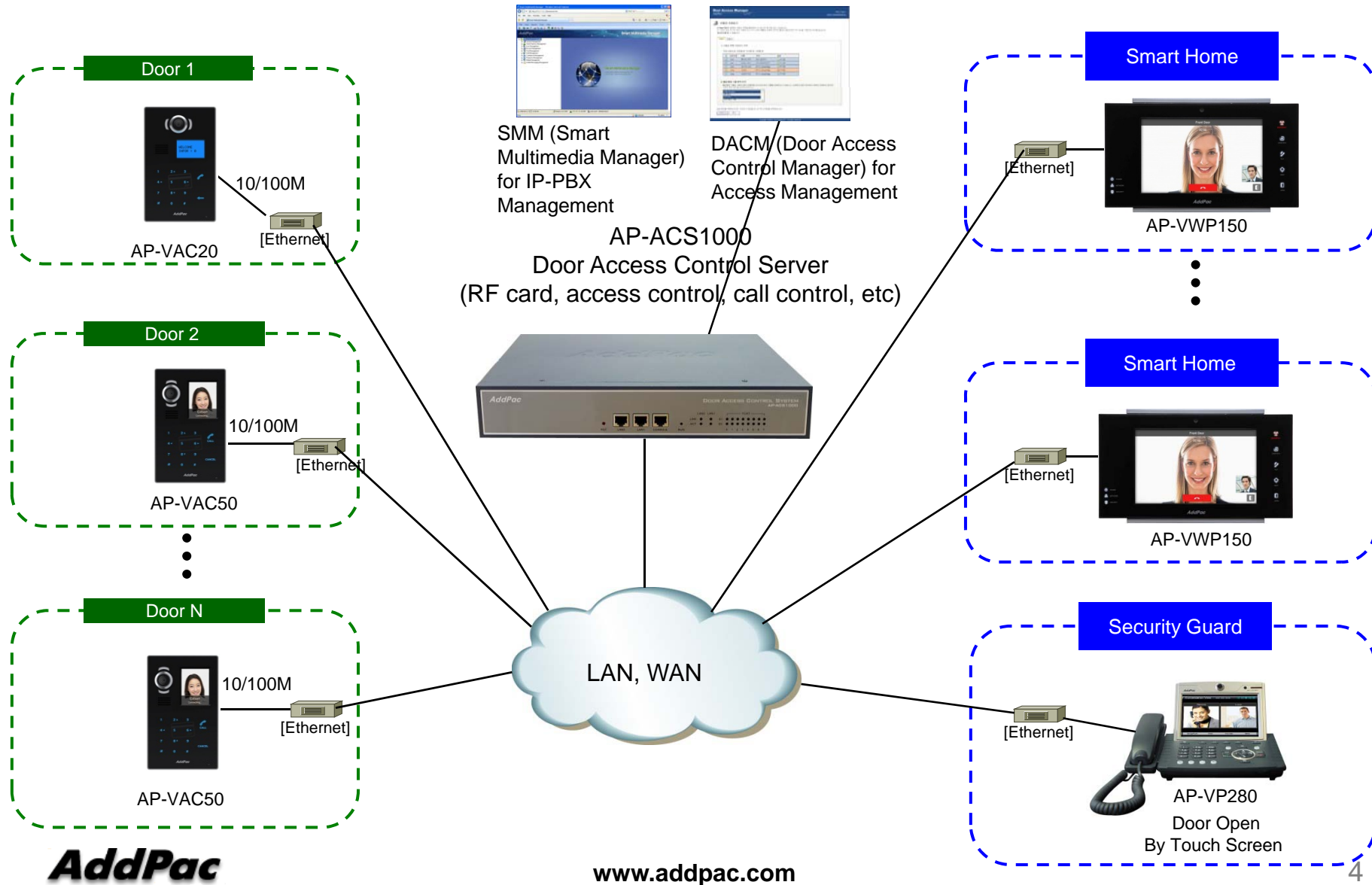
- Smart Home Application Network Diagram
- Normal Video Call Model (Point-to-Point)
- Video Conference Call Model
- Call Manager + MCU Protocols
- IP Video MCU (Ex: AP-MC2000)
- Video MCU Service Features



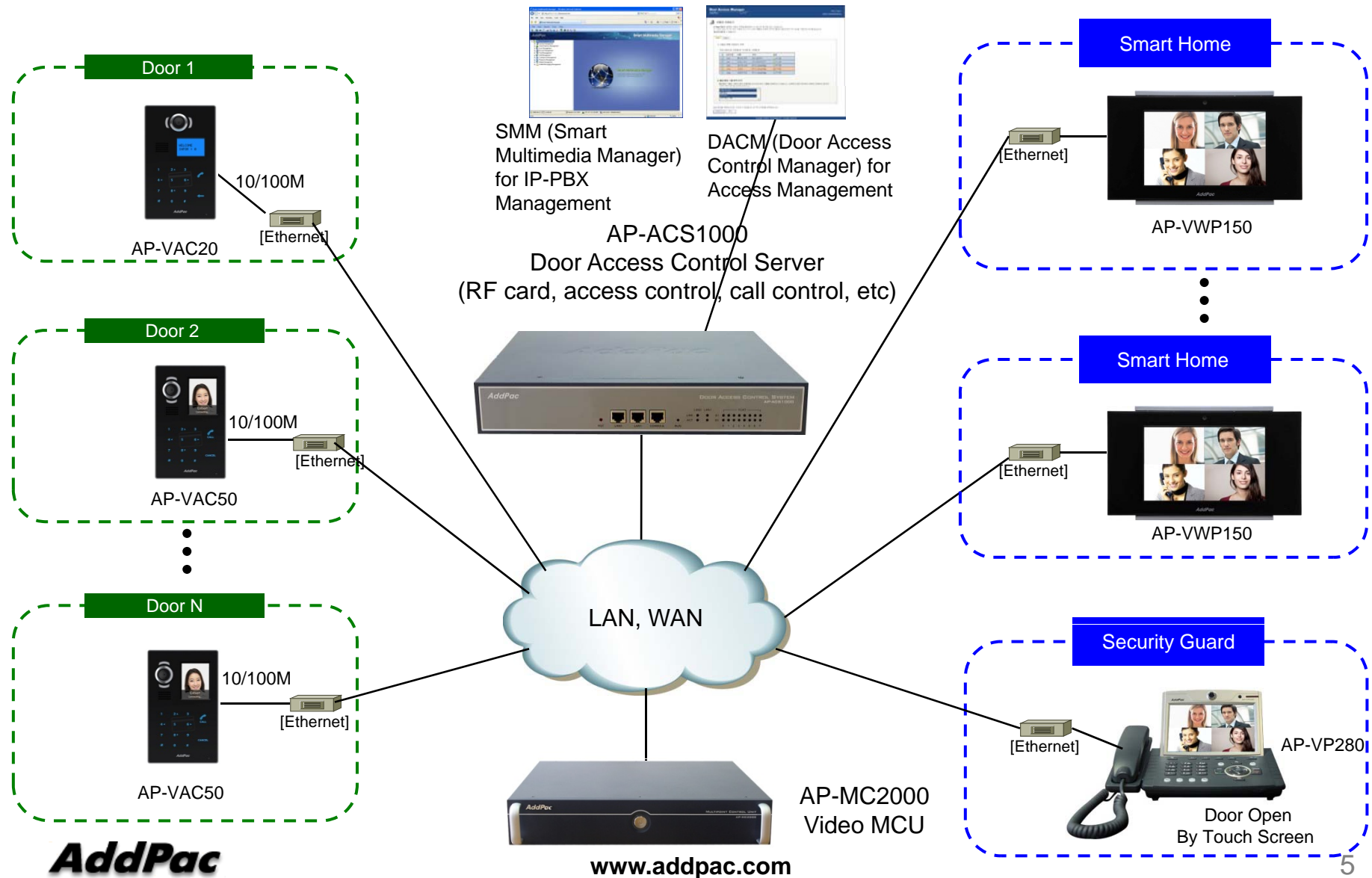
Smart Home Application



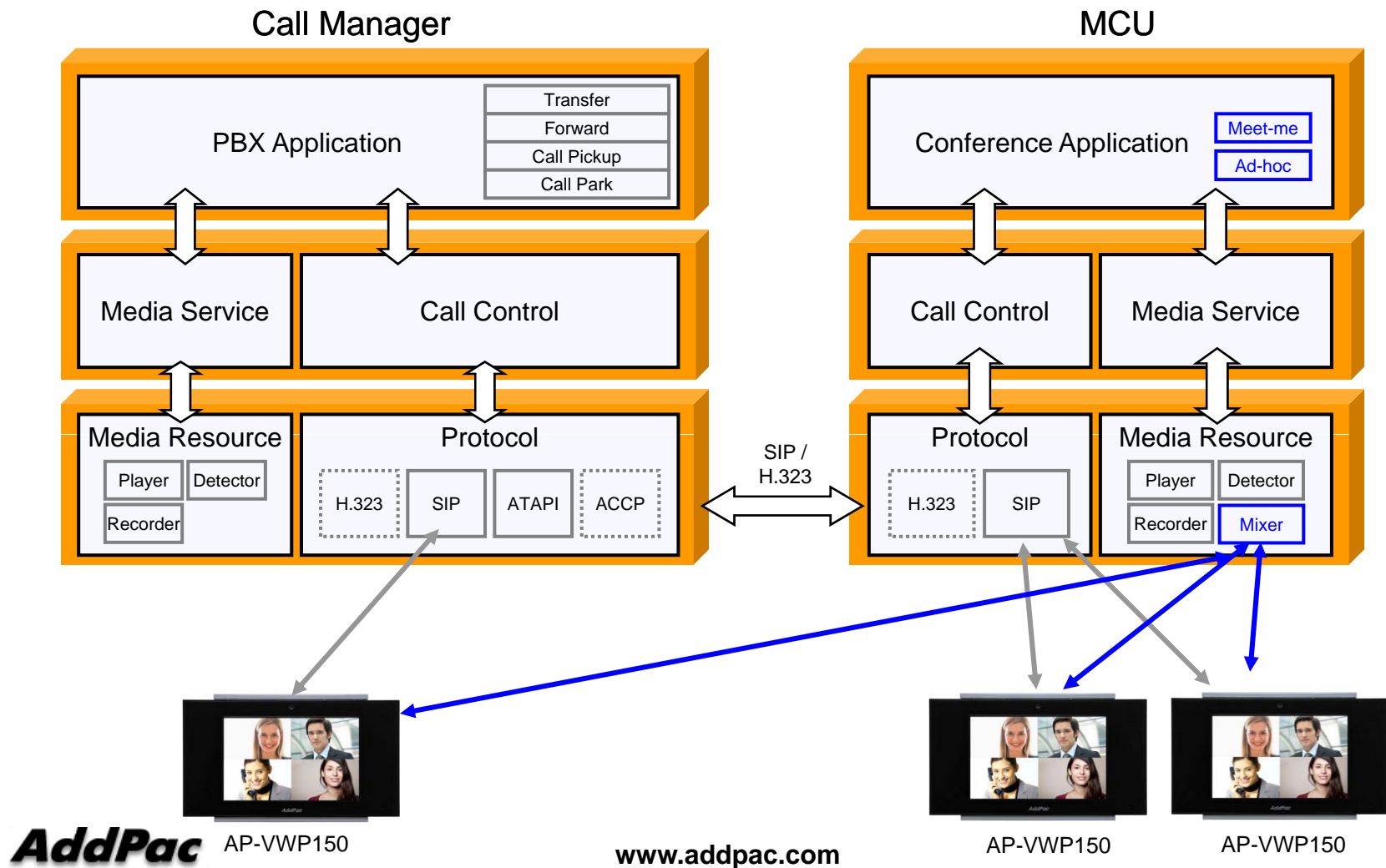
Normal Point-to-Point Video Call Model



Video Conference Call Model

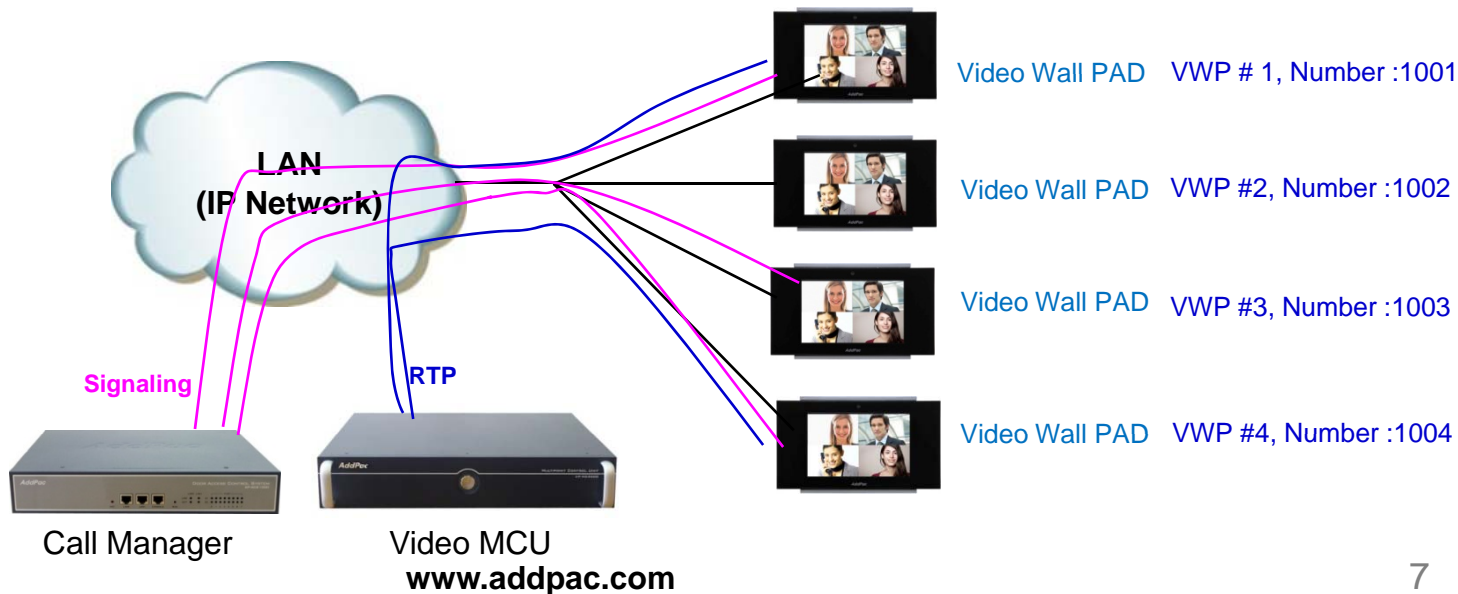
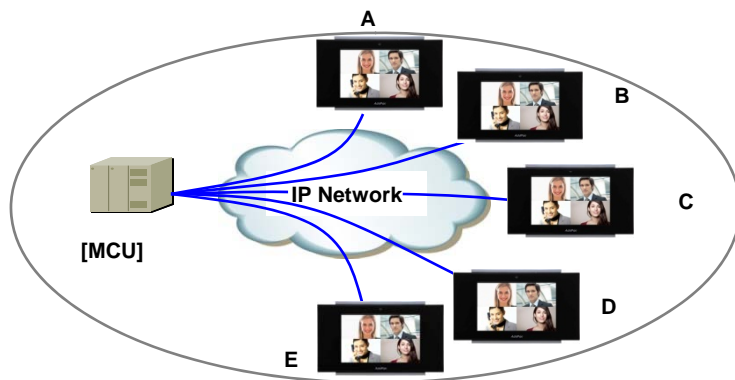


Call Manager + MCU Interworking Protocol Stack



Signaling and RTP Flow for Group Video Call Model

Multipoint Video Service





AP-MC2000 IP Video MCU

Main Features

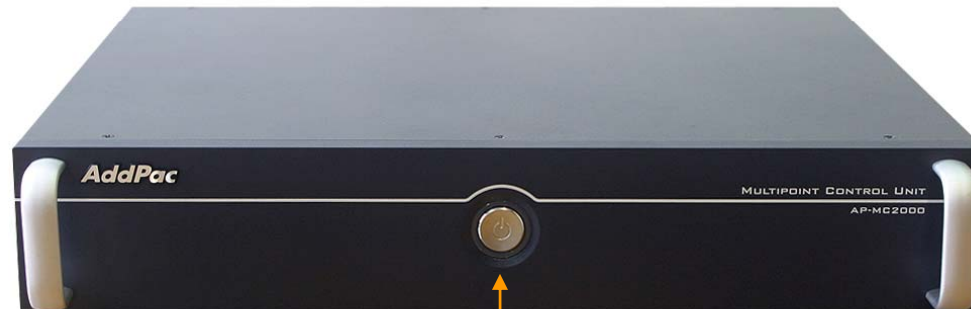
AP-MC2000 IP Video MCU

- IP based Multipoint Audio/Video Mixing Solution
- Support Various Conference System Model(Add-Hoc, Dial-Out, Meet Me)
- Multi-User/Multi-Session Video Conference Support
- Up to 16-Party Video Conference Mode Support
- H.263, MPEG4, H.264 Video Codec Support
- G.722/G.711/G.726/G.729/G.723,etc Voice Codec Support
- H.323/SIP VoIP Signaling Support
- H.323 GateKeeper Internal Support
- External SIP Proxy Server Interworking Support
- Scalability and Flexibility
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection

Hardware Specification

AP-MC2000 IP Video MCU

- High Performance Computing Power
- Programmable Hardware Architecture
- Main Chassis
 - Network Interface
 - One(1) 10/100/1000Mbps Gigabit Ethernet
 - One(1) RS-232C Console (RJ45)



Power ON/OFF Switch

Hardware Specification

AP-MC2000 Video MCU



Gigabit Ethernet
Interface LAN

RS232C Console Interface

Power Switch & Power Inlet



Video MCU Service Features

Contents

- Video Display Layout
- Dynamic Session Management
- Personal Feature
- Video Conference Signaling
- MCU Management (SMM)
- OSD (Video Phone, Video Terminal, etc)
- Media Class
- Conference Room
 - Speaking Mode
 - Voice Switching
- Active Conference
- Conference Scheduling

Video Display Layout

- **Various Layout**
 - 31 types (Symmetric Layout, Asymmetric Layout)
 - Symmetric Layout : same participant picture size
 - Asymmetric Layout : asymmetric participant picture size
 - Auto, Manually : can choice a specific video layout when a conference is started
- **Dynamic control**
 - Dynamic layout change
 - Dynamic participant movement
- **Floor**
 - Can distinguish a participant by using the concept of the right of a speaking participant
 - Floor to full screen
- **Name display**
 - Display or hide the name of a participant dynamically
- **Border**
 - Three kind of a participant picture border : empty border, a participant boarder, a speaker boarder

Personal Feature*

- Individual (Per Connection) Rate Control for Down Stream
 - Codec, Picture Size, etc
- Personal Layout
 - Example, Zooming for Detailed View

Video Conference Signaling

- Dial-in
 - Even in Dial-out started Video Conference, a participant can join the Video Conference if a participant knows the conference room number in outside.
- Mic off of invisible participant
 - Can turn off MIC of a invisible participant.
- Forced Mute (audio, video)
 - Can mute Audio/Video Capability of a participant via SMM or in Chair, Operator Terminal (Video Phone).
- Virtual Audience
 - Broadcasting solution
 - Can monitor the video conference via inter-working with AddPac Broadcasting Server.
- H323 Support *
 - Floor control(H.243)
 - Dual Video (H.239)

MCU Management (SMM)

Smart Multimedia Management

- Initial Setting
 - Video Layout Setting
 - User class
 - Chair, Operator, Participant, Audience
 - Initial position
- Active Monitoring
 - Monitoring
 - Snapshot
 - Control
 - Layout
 - Move party
 - Floor
 - Mute
- Video Conference Scheduling*
 - Scheduled Dial-Out Conference

Conference Room

Conference Name & Description
Conference Name
Description

Conference Number
Conference Number

Conference Type
: Dial-out, Meet me, AddHoc
Conference Type: Dial-Out Conference

Media Type
Select Conference Media Type
Media Type: Audio Video + Audio

Audio Codec
Select a conference audio codec
Audio Codec: G.711U

Maximum Participant
(Can select in Meet-Me conference type only)
Max Participant: 16

Close on Chair Out
Conference Disconnected if chair hang up phone
 Close on Chair Out

Secret Room
-Secret room and Room Password
-(Can select in Meet-Me conference type only)
 Secret Room
Room Password: (4 digit)

Video Endpoint
In case of Video Media type, select the video parameter of endpoint.
Video Support | EndPoint | Layout
Video Type: Continuous presence
Target Rate: 1024K
Picture Size: 640x480
Video Codec: MPEG4
Frame Rate: 30 fps

Video Support
In case of Video Media Type, select the video information

Ok Cancel

Conference - Layout

The screenshot shows the 'Add Conference' dialog box with the 'General' tab selected. The 'Video' sub-tab is active, showing various layout and display options. Several settings are highlighted with yellow callout boxes:

- Video Layout Mode**: - Auto (symmetric, asymmetric) - manual
- Arrange Mode**: -(dynamic, fixed, fixed reserved)
- Video Layout**: - Select the video layout
- Floor Assign Mode**: Floor 권한 할당에 대한 방법 설정. (After Release, On Request)
- Floor to Full Screen**: - Floor to Full Screen Enable/Disable in symmetric, asymmetric Layout Mode.
- Display Participant Name**: - Participant Name Display Enable/Disable and Location of Name Display
- Color**: - Layout border and Floor, Background Color Setting.
- Mic off of Invisible Participant**

The dialog box includes fields for Conference Name, Description, Conference Number, Conference Type, Partition, Media Type (Audio, Video + Audio), Audio Codec, Max Participant, Close on Chair, Secret Room, Room Password (4 digit), and buttons for Ok and Cancel.

Conference - Participants

Conference Properties

General | **Participants** | Virtual Audience

Phone Number	Par...	User
1002		hwang woo sun
1003		sim sang kwon
1004		lee young sik
1005		oh hyoung suk
1006		lee myoung won
1007		choi jin suk
1008		lee min ji
1010		kwon jong hwi
1012		kim sang mi
1013		you jae won
1015		jang byoung ju
1018		kim kyoung nam
1019		kim chang yeon
1020		kwon young pil
1021		kim do hyoung
1024		kim kwang
1026		lee jung hyuk
1027		kim so young
1101		choi woo suk
1102		sin kwang woong
1500		choi jin suk
3003		
		kim kyoung nam
		kim so young
4002		
4003		

Enter External Phone Number

Add

Conference Participants							
Number	Partition	User	Type	User Class	Media Type	Position	Display Name
3001		Steven	Internal	Chair	Video		
3004		John	Internal	Participant	Video		
3005		Jane	Internal	Participant	Video		
3010		Sally	Internal	Participant	Video		

Ok Cancel

Phone Number
Participant Phone List

External Phone Number
Register the external phone line number by inputting number directly

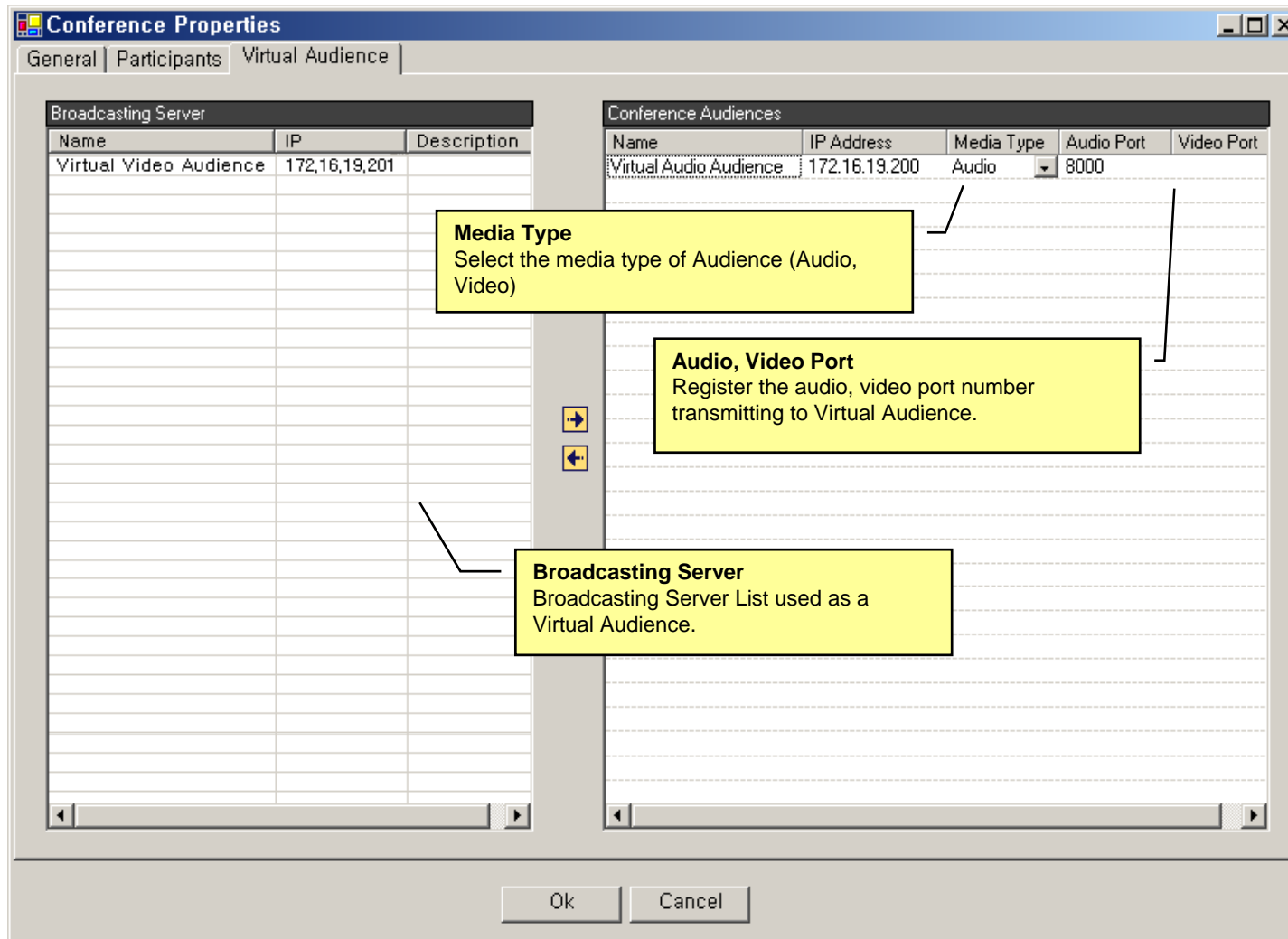
User Class
(Chair, Operator, Participant, Audience)

Media Type
(Audio, Audio (Seat Reserved), Video)

Position
In case of video media type, Select the location of a participant in video layout

Display Name
A Participant Display Name

Conference – Virtual Audience



Active Conference (1)

Smart Multimedia Manager - [Active Conferences]

File View Tools Window Help

AddPac Smart Multimedia Manager

172.16.201.100 172.16.11.120

Conference Name	Conference Number	Status	Conference Type	Start Time	Duration (s..	Media Type	Floor to Full..	Layout Mode	Arrange Mode	Layout	No. of Pa..
nms conference	7100	Running	Dial-Out	20061207-14:33:45	82	Video	On	Manual	Dynamic		3

Participants (nms conference)

Participant Name	Phone Number	IP	Status	Audio	Video	Floor	In Picture	Reason
choi jin suk(js.choi)	1500	172.16.19.103	Connected					
kim kyoung nam(kn...	3500	172.16.12.30	Connected					
lee joungh hyuk(jh.lee)	6010	172.16.11.110	Connected					

172.16.201.100 (Ok) 172.16.11.120 (Ok)

2006-12-07 오후 2:35:08 Version 2.9.2532.21338 172.16.201.100:389 administrator

Conference
Display the current conference room list

Participants
Display the participant list in conference room each

Active Conference (2)

Conference
Conference parameter setting is possible dynamically in current conference call

Conference Name	Conference Number	Status	Conference Type	Start Time	Duration (s..)	Media Type	Floor to Full..	Layout Mode	Arrange Mode	Layout	No. of Pa..
nms conference	7100	Running	Dial-Out	20061207-14:33:45	173	Video	On	Manual	Dynamic	[Layout Icon]	3

Participants (nms conference)									
Participant Name	Phone Number	IP	Status	Audio	Video	Floor	In Picture	Reason	
choi jin suk(js.choi)	1500	172.16.19.103	Connected	[Audio Icon]	[Video Icon]		[Floor Icon]		
kim kyoung nam(kn...	3500	172.16.12.30	Connected	[Audio Icon]	[Video Icon]		[Floor Icon]		
lee joungh hyuk(jh.lee)	6010	172.16.11.110	Connected	[Audio Icon]	[Video Icon]		[Floor Icon]		

172.16.201.100 (Ok) 172.16.11.120 (Ok)

2006-12-07 오후 2:36:34 Version 2.9.2532.21338 172.16.201.100:389 administrator

Active Conference (3)

The screenshot displays the 'Smart Multimedia Manager' interface. At the top, there is a menu bar (File, View, Tools, Window, Help) and a toolbar. The main area shows a 'Conference' table with the following data:

Conference Name	Conference Number	Status	Conference Type	Start Time	Duration (s..)	Media Type	Floor to Full..	Layout Mode	Arrange Mode	Layout	No. of Pa..
nms conference	7100	Running	Dial-Out	20061207-14:33:45	318	Video	On	Manual	Dynamic	[Layout Icon]	3

Below the table, there are two windows:

- Conference Snapshot:** A window showing a real-time still image of a current video conference call. It includes an 'Auto Refresh' checkbox, a 'Refresh' button, and a 'Refresh Interval' set to 5 seconds.
- Participants (nms conference):** A table listing participants with their parameters:

Participant Name	Phone Number	IP	Status	Audio	Video	Floor	In Picture	Reason
choi jin suk(js.choi)	1500	172.16.19.103	Connected	[Audio Icon]	[Video Icon]	[Floor Icon]	[In Picture Icon]	
kim kyoung nam(kn...)	3500	172.16.12.30	Connected	[Audio Icon]	[Video Icon]	[Floor Icon]	[In Picture Icon]	
lee jounghyuk(jh.lee)	6010	172.16.11.110	Connected	[Audio Icon]	[Video Icon]	[Floor Icon]	[In Picture Icon]	

Annotations in yellow boxes provide additional context:

- Conference Snapshot:** Display the real-time still image of a current video conference call.
- Participants:** Participant parameter setting is possible dynamically in current conference call.

The status bar at the bottom shows the date and time (2006-12-07 오후 2:39:02), version (2.9.2532.21338), and user (administrator).

OSD (Video Phone, Video Terminal, etc)

- Conference Management (Chair, Operator)
 - Layout
 - Move party
 - Floor
 - Mute
- Indicator
- Floor



Conference Room

- Application >> Conference Room
 - conference list

Annotations for the Conference Room interface:

- Conference room**: -Lock, -unlock
- Conference type**: -video, -audio
- User in conference / maximum**: (points to the 3/16, 0/4, 0/16 columns)
- Dial-in conference**: - gray : not active, - Colored : active
- Meet-me conference**: - gray : not active, - Colored : active
- Conference name**: (points to the 'Conference 1-3' text)
- Conference number**: (points to the '1000', '2000', '8888' text)
- Conference layout**: (points to the layout icons)
- See Detail Participant list**: (points to the 'Detail View' button)

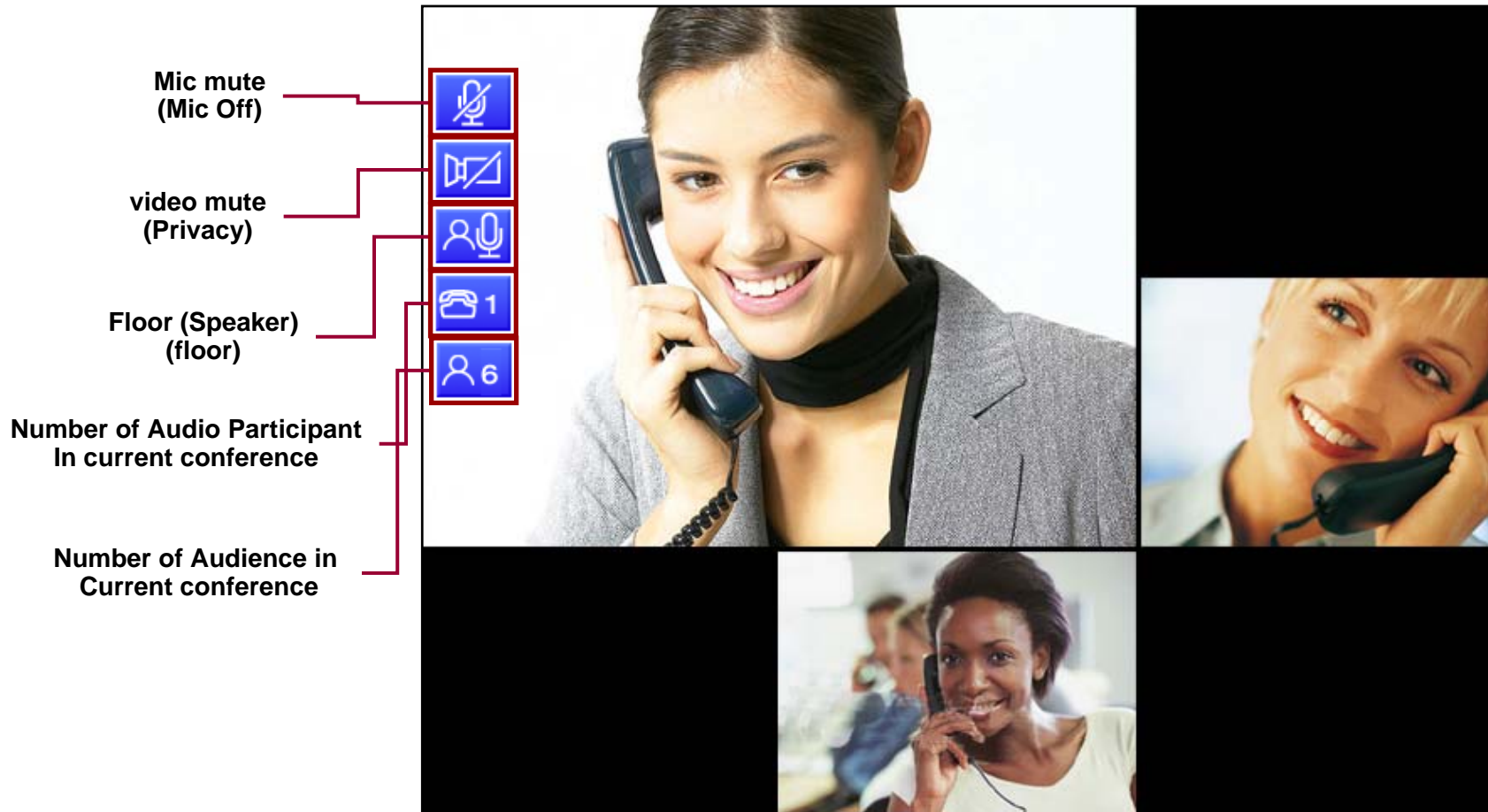
Conference Name	Conference Number	User in conference / maximum	Conference Room Controls	Conference Type	Conference Layout
Conference 1	1000	3/16	Lock, Unlock, Video, Audio, Layout	Video, Audio	Grid
Conference 2	2000	0/4	Lock, Unlock, Video, Audio, Layout	Video, Audio	Grid
Conference 3	8888	0/16	Lock, Unlock, Video, Audio, Layout	Video, Audio	Grid

Conference Open

- Conference open
 - OK or Send Key in Conference Room List
 - Dialing using Conference Room List

Indicators

- User conference status information (function key)



Add Party

- New User Invite in Current Conference

Invite new user

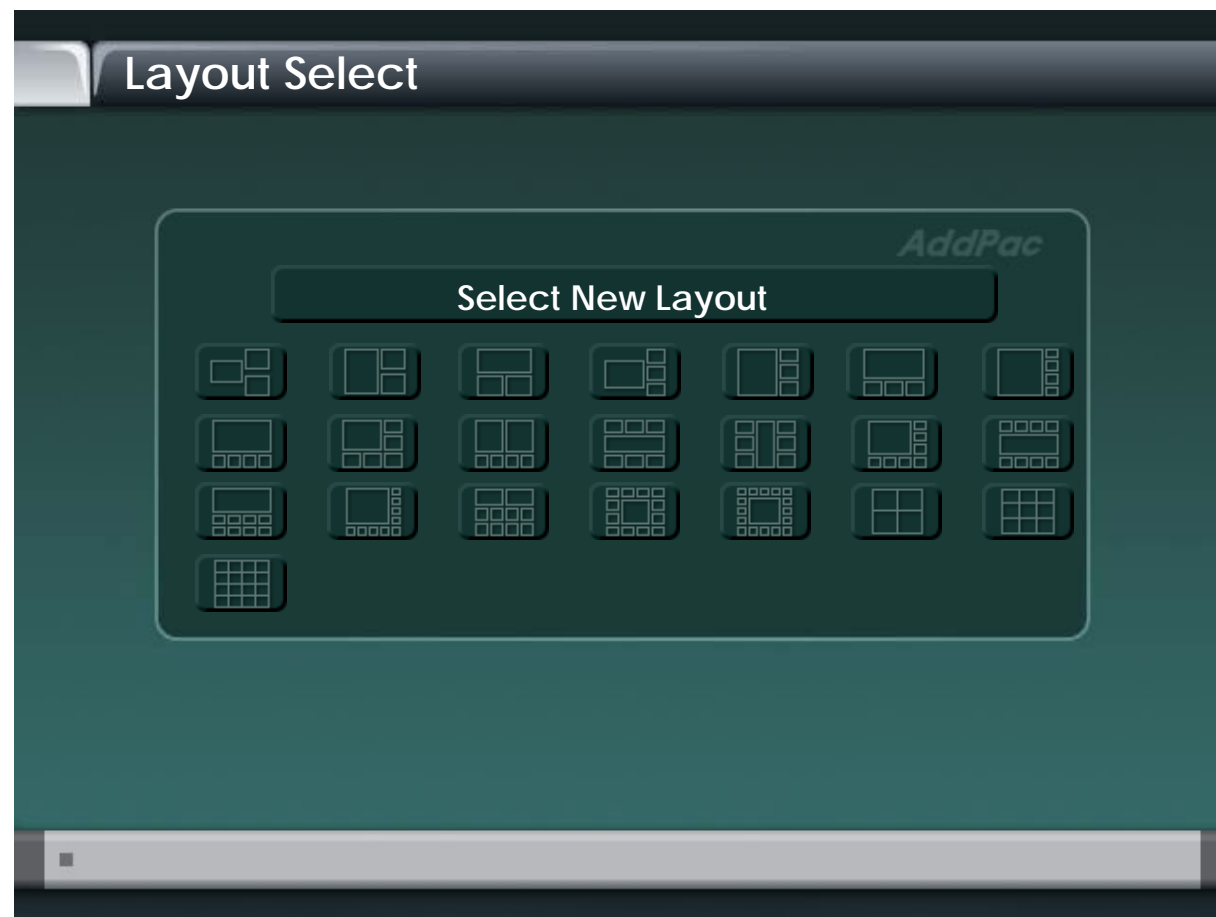
Select User class
-participant
-audience

Select Media type
-audio call
-video call

Participant Audio Call

Layout

- Video Layout Change in current conference



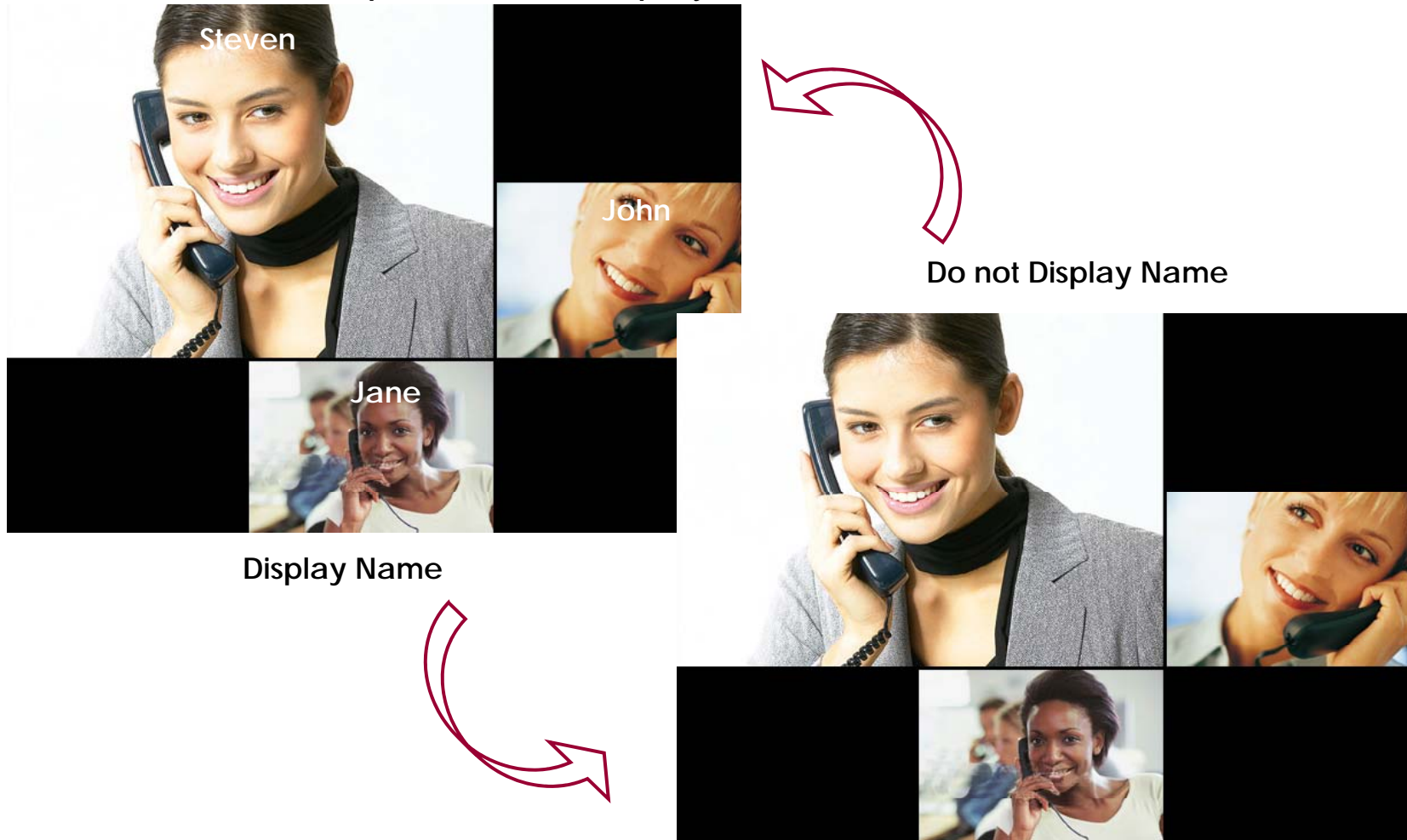
Floor To Full Screen

- Large view display mode : Floor Participant



Display Name

- Conference Participant Name Display Enable/Disable



Accept

- User unregistered want to join the conference
 - User can join the conference by Chair or Operator's Permission,

Accept

ON AIR

NUM

Incoming Call

3000

Conference Join Accept

Conference Join Reject

User class
-participant
-audience

Media type
-audio call
-video call

Accept Reject Participant Audio Call

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Participant info

- Party Info
 - Simple Participant info list View/Modification
 - Chair, Operator can modify the status of participant
 - Participant, Audience can read only the status of participant



Detail participant list

- Can view the status information of member In conference

The screenshot shows the 'Participant List' interface. At the top, there are control buttons: 'ON AIR', a network icon, a microphone icon, 'NUM', and a refresh icon. The list contains four participants: Sally (3010), Stever (3001), Jane (3005), and John (3004). Each row includes a user class icon, name, number, media type icons (video and audio), and an audio/video enable status icon. A 'position' icon is also present. At the bottom, there are buttons for 'Assign Floor', 'Remove Party', 'Position', and 'more'.

Media type
-video
-audio

Audio/Video enable status

position

User class

Participant's name

Participant's number

User class	Participant's name	Participant's number	Media type	Audio/Video enable status	position
[Icon]	Sally	3010	[Video/Audio]	[Status]	[Position]
[Icon]	Stever	3001	[Video/Audio]	[Status]	[Position]
[Icon]	Jane	3005	[Video/Audio]	[Status]	[Position]
[Icon]	John	3004	[Video/Audio]	[Status]	[Position]

Assign Floor Remove Party Position more

Assign floor

- Give floor (Right of Speaking) to Participant selected in List
 - The ICON of Participant having Floor is changed as MIC ICON

The screenshot shows the 'Participant List' interface in AddPac. The list contains four participants: Sally (ID 3010), Steven (ID 3001), Jane (ID 3005), and John (ID 3004). Each participant row has a set of icons on the left and right. The 'Assign Floor' button at the bottom is highlighted with a red box. Annotations with red lines point to the microphone icon in Steven's row (labeled 'Have a right of speaking'), the person icon in Jane's row (labeled 'Don't have a right of speaking'), and the 'Assign Floor' button (labeled 'Give Floor (Speaker) to Participant').

Participant	ID	Right of Speaking Icon
Sally	3010	Person icon
Steven	3001	Microphone icon
Jane	3005	Person icon
John	3004	Person icon

Remove Party

- Conference Call Disconnect of a Participant selected in List

The screenshot displays the 'Participant List' interface. At the top, there are icons for 'ON AIR', a network icon, a microphone icon, 'NUM', and a refresh icon. The list contains four participants: Sally (3010), Steven (3001), Jane (3005), and John (3004). The 'Jane' row is highlighted with a red box, and a red line connects this box to the text 'Participant Select'. At the bottom, a navigation bar contains buttons for 'Assign Floor', 'Remove Party', 'Position', and 'more'. The 'Remove Party' button is highlighted with a red box, and a red line connects this box to the text 'Conference call disconnect of a participant selected'.

Participant Icon	Name	Number	Microphone	Video	Screen
	Sally	3010			
	Steven	3001			
	Jane	3005			
	John	3004			

Position

- Participant Location Change In Conference View Layout
- Display the Position List in current conference view layout



User Class

- Change the Right of Participant selected in List
- User class icon change



Audio/Video Mute

- audio, video mute enable/disable

Audio Mute/Enable *Video Mute/Enable*

The screenshot displays the 'Participant List' interface. At the top right, there are control buttons for 'ON AIR', a grid icon, a microphone icon, 'NUM', and a camera icon. Below this is a table of participants with columns for a profile icon, name, ID, audio status, video status, and a grid icon. The participants listed are Sally (ID 3010), Steven (ID 3001), Jane (ID 3005), and John (ID 3004). Red boxes highlight the microphone and camera icons for Steven and Jane, and the 'Audio Enable' button in the bottom navigation bar. A red line connects the 'Audio Enable' button to the text 'Audio, video mute/ enable'.

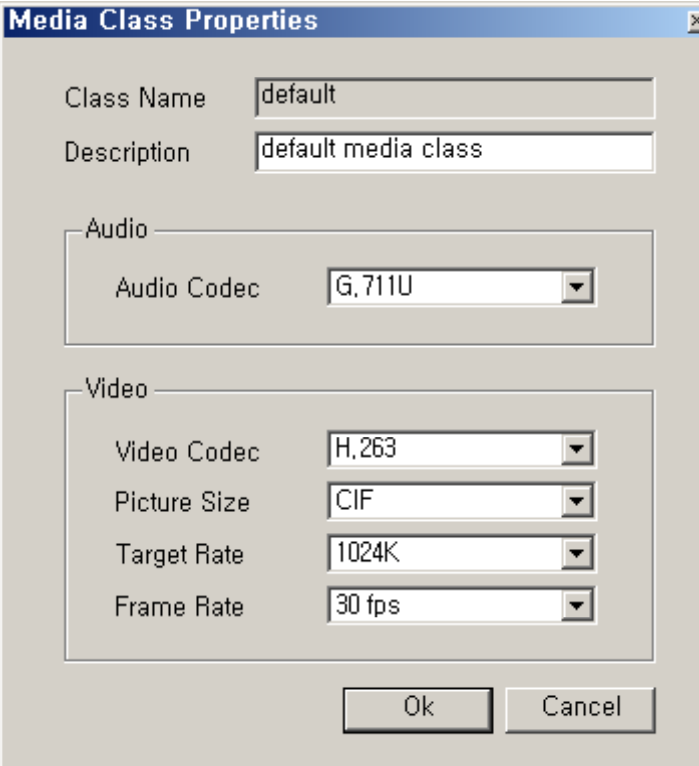
Profile Icon	Name	ID	Audio Icon	Video Icon	Grid Icon
	Sally	3010			
	Steven	3001			
	Jane	3005			
	John	3004			

Audio, video mute/ enable

User Class Audio Enable Video Mute more

Media Class (New)

- **Media Class** represents the profile information about Audio, Video Codecs, and is used for configuration at conference setup



The screenshot shows a dialog box titled "Media Class Properties" with a close button (X) in the top right corner. The dialog contains the following fields:

- Class Name: default
- Description: default media class
- Audio section:
 - Audio Codec: G.711U
- Video section:
 - Video Codec: H.263
 - Picture Size: CIF
 - Target Rate: 1024K
 - Frame Rate: 30 fps

At the bottom of the dialog are "Ok" and "Cancel" buttons.

Conference Room

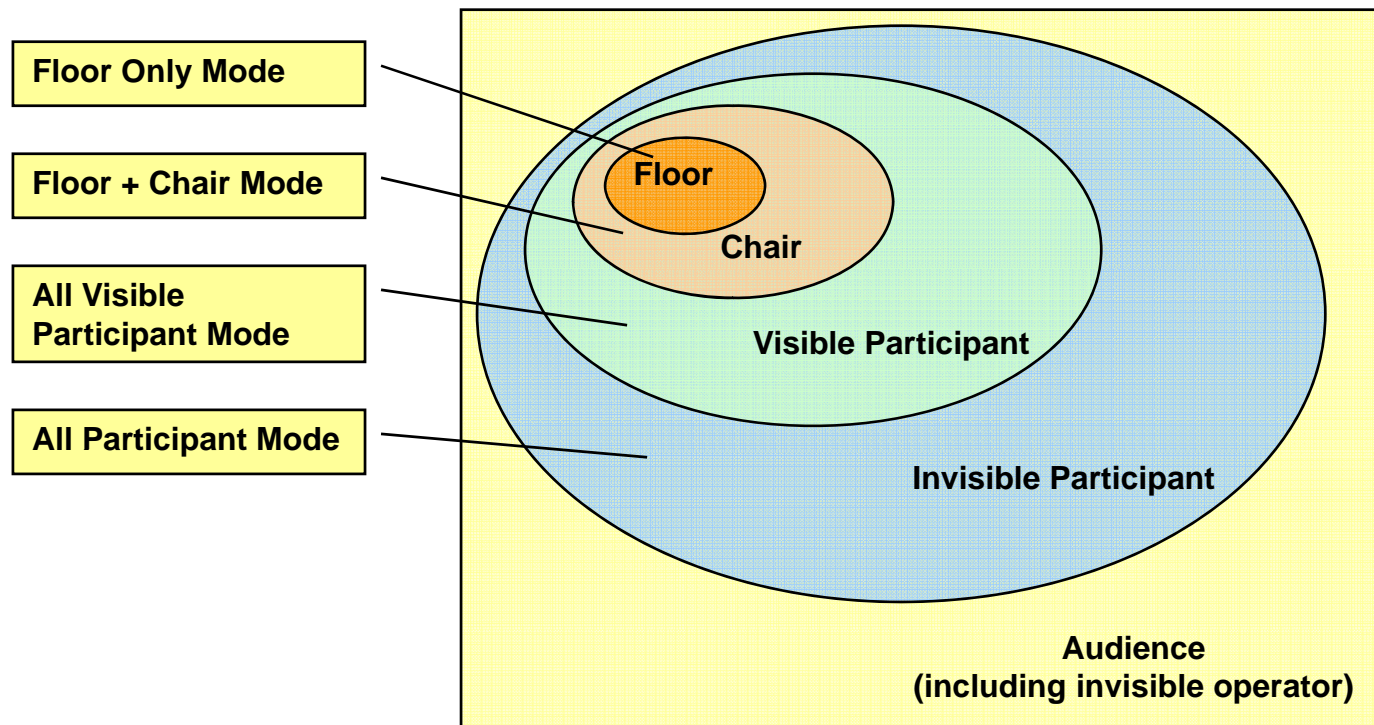
*Blue Box is newly implemented functions.

The screenshot shows the 'Add Conference' dialog box with the following settings and callouts:

- Conference Name & Description:** Fields for 'Conference Name' and 'Description'.
- Conference Number:** A text input field for the conference number.
- Conference Type:** A dropdown menu set to 'Dial-Out Conference'. Callout: 'Dial-out, Meet me, AddHoc'.
- Media Type:** A dropdown menu set to 'Audio'. Callout: 'Select Conference Media Type'.
- Media Class:** A dropdown menu set to 'default'. Callout: 'Select a Media Class for a conference room. Second, third media class are reserved for first media class Mismatch.'.
- Secondary Media Class:** A dropdown menu set to 'N/A'.
- Third Media Class:** A dropdown menu set to 'N/A'.
- Max Participant:** A spinner box set to '16'. Callout: 'Maximum Participant (Can select in Meet-Me conference type only)'.
- Conference Priority:** A spinner box set to '3'. Callout: 'Conference Priority Setting'.
- Speaking Mode:** A dropdown menu set to 'All Participants'. Callout: 'Set up Who can speak out at conference'.
- Encryption Mode:** A dropdown menu set to 'off'. Callout: 'Encryption mode setup for secure conference'.
- Close on Chair Out:** A checked checkbox. Callout: 'Conference Disconnected if chair hang up phone'.
- Secret Room:** An unchecked checkbox. Callout: '-Secret room and Room Password (Can select in Meet-Me conference type only)'.
- Room Password:** A text input field with '(4 digit)' next to it. Callout: 'Secret Room'.
- Video Terminal:** A sub-dialog box with settings for 'Target Rate' (384K), 'Frame Rate' (30 fps), 'Picture Size' (CIF), and 'Dynamic Picture Size' (enable). Callout: 'In case of Video Media type, select the video parameter of endpoint.'.

Speaking Mode (New)

- Speaking Mode
 - Determine the scope of participant who can speak out at conference.



Voice Switching(New)

- Voice Switching
 - Voice Activity Switching or Voice Detect Switching
 - Detect the Voice Activity of participants during video conference, and dynamically change the MCU display layout mode to display a participant who is speaking out currently
 - If one participant obtains Floor, Voice Switching is inactive automatically till Floor is released.
- Display Priority Control
 - Floor > Voice Switching > Chair

Conference Room - Layout

The screenshot shows the 'Add Conference' dialog box with the 'General' tab selected. The 'Video' section is highlighted, and several settings are annotated with yellow callout boxes:

- Video Layout Mode**: - Auto (symmetric, asymmetric) - manual
- Arrange Mode**: -dynamic, fixed, fixed reserved
- Video Layout**: - Select the video layout
- Floor Assign Mode**: -After Release, On Request
- Floor to Full Screen**: - Floor to Full Screen Enable/Disable in symmetric, asymmetric Layout Mode.
- Display Participant Name**: - Participant Name Display Enable/Disable and Location of Name Display
- Color**: - Layout border and Floor, Background Color Setting.

The dialog box includes fields for Conference Name, Description, Conference Number, Conference Type, Media Type, Partition, Media Class, Secondary Media Class, Third Media Class, Max Participant, Conference Priority (3), Speaking Mode, Encryption Mode, and Room Password (4 digit). The 'Video' section includes Terminal, Layout, Layout Mode (Auto(Asymmetric)), Arrange Mode (Dynamic), Video Layout (3), Floor Assign Mode (After Release, On Request), Floor to Full Screen (Symmetric, Asymmetric), Display Participant Name (Layout: Top Left, Size: Small), and Color (Border Line, Floor Line, Background Line, Background).

Conference Room - Participants

Search Phone Number
Used for phone number or user search

Filter
Filter Name: Phone Number, Rule: is exactly, Word: [] [Advanced Search](#) Find

Number	Partition	User
5007	Factory...	
5008	Factory...	
5009	Factory...	
5010	Factory...	
5011	Factory...	
5012	Factory...	
5013	Factory...	
5014	Factory...	
6000	external...	
6001	external...	
6005	external...	
6006	external...	
6010	external...	
6011	external...	
6020	external...	
6029	external...	

Phone Number
Participant Phone List

Enter External Phone Number
[] Add

External Phone Number
Register the external phone line number by inputting number directly

Number	Partition	User	Type	User Class	Media Type	Position	Display Name	Media Class
5007	Factory_in ternal_ex...		Internal	Chair	Video	[]	Steven	default
5008	Factory_in ternal_ex...		Internal	Participant	Video	[]	John	default
5009	Factory_in ternal_ex...		Internal	Participant	Video	[]	Jane	default
5010	Factory_in ternal_ex...		Internal	Participant	Video	[]	Sally	default
					Video	[]	Micle	default

User Class
(Chair, Operator, Participant, Audience)

Media Type
(Audio, Audio (Seat Reserved), Video)

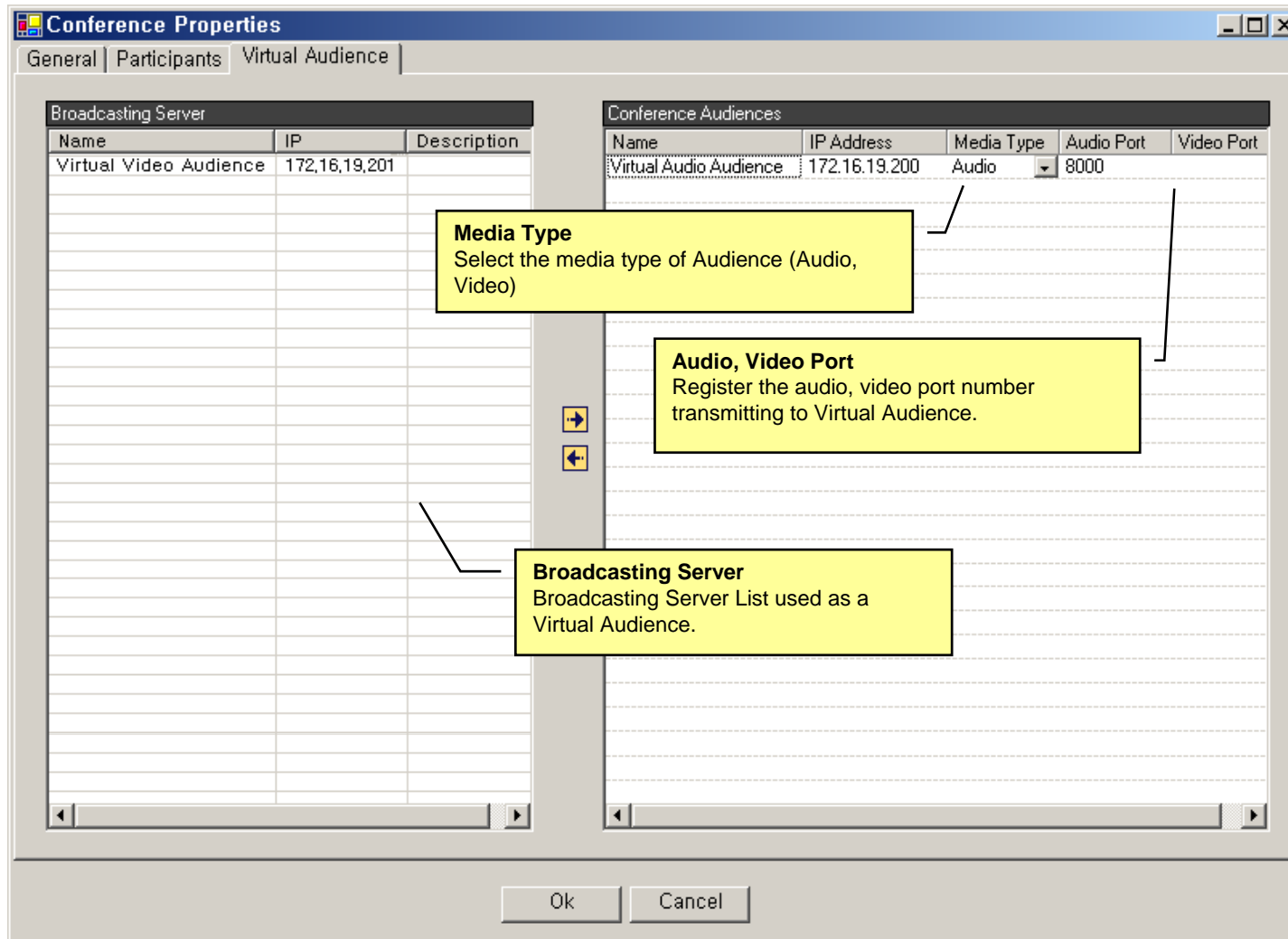
Position
In case of video media type, Select the location of a participant in video layout

Display Name
A Participant Display Name

Media Class
Select a Media Class for a conference participant

Ok Cancel

Conference Room – Virtual Audience



Active Conference (1)

Smart Multimedia Manager - [Active Conferences - IPNext200_Slave]

File View Search Tools Window Help

AddPac Smart Multimedia Manager AddPac Technology

172.17.250.250 172.16.31.13 172.16.31.2

Conference Na...	Conference Number	Status	Conference Type	Start Time	Duration	Media Type	Floor to Full...	Layout Mode	Arrange Mode	Layout	No. of Pa...
n>AddPac Conference	7002	Running	Dial-Out	20050714-15:30:22	00:02:01	Video	Off	Manual	Dynamic		4

Conference
Display the current conference room list

Participants (n>AddPac Conference)

Participant Name	Phone Number	IP	Status	Audio	Video	Mic.	Speaker	Floor	In Picture	Reason
Kown.jh	7030	172.16.10.1	Joined			8	10			
Choi.js	7031	172.16.10.2	Joined			8	10			
Lee.mj	7032	172.16.10.3	Joined			8	10			
JJang.hg	7033	172.16.10.3	Left			8	10			

Participants
Display the participant list in conference room each

172.17.250.250 (Ok) 172.16.31.13 (Connect fail) 172.16.31.2 (Ok)

2007-10-18 오후 3:35:55 Version 3.0.2846 172.16.31.13:389 Manager

Active Conference (2)

The screenshot displays the 'Smart Multimedia Manager' interface. At the top, a yellow callout box states: 'Conference: Conference parameter setting is possible dynamically in current conference call'. Below this, a table lists conference details. A blue callout box points to a layout icon in the 'Layout' column, labeled 'New 2 Party Layout'. The bottom section shows a list of participants with columns for Name, Phone Number, IP, Status, Audio, Video, Mic, Speaker, Floor, and In Picture.

Conference Na...	Conference Number	Status	Conference Type	Start Time	Duration	Media Type	Floor to Full...	Layout Mode	Arrange Mode	Layout	No. of Pa...
n>AddPac Conference	7002	Running	Dial-Out	20050714-15:30:22	00:02:01	Video	Off	Manual	Dynamic	[Layout Icon]	4

Participant Name	Phone Number	IP	Status	Audio	Video	Mic	Speaker	Floor	In Picture
Kown.jh	7030	172.16.10.1	Joined	[Icon]	[Icon]	8	10	[Icon]	[Icon]
Choi.js	7031	172.16.10.2	Joined	[Icon]	[Icon]	8	10	[Icon]	[Icon]
Lee.mj	7032	172.16.10.3	Joined	[Icon]	[Icon]	8	10	[Icon]	[Icon]
JJang.hg	7033	172.16.10.3	Left	[Icon]	[Icon]	8	10	[Icon]	[Icon]

Active Conference (3)

The screenshot displays the 'Smart Multimedia Manager' interface. At the top, the title bar reads 'Smart Multimedia Manager - [Active Conferences - IPNext200_Slave]'. Below the title bar is a menu bar (File, View, Search, Tools, Window, Help) and a toolbar with various icons. The main area features a 'Conference' table and a 'Participants' table.

Conference Table:

Conference Na...	Conference Number	Status	Conference Type	Start Time	Duration	Media Type	Floor to Full...	Layout Mode	Arrange Mode	Layout	No. of Pa...
n>AddPac Conference	7002	Running	Dial-Out	20050714-15:30:22	00:02:01	Video	Off	Manual	Dynamic	[Layout Icon]	4

Participants Table:

Participant Name	Phone Number	IP	Status	Audio	Video	Mic.	Speaker	Floor	In Picture	Res
Kown.jh	7030	172.16.10.1	Joined	[Icon]	[Icon]	8	10	[Icon]	[Icon]	[Icon]
Choi.js	7031	172.16.10.2	Joined	[Icon]	[Icon]	8	10	[Icon]	[Icon]	[Icon]
Lee.mj	7032	172.16.10.3	Joined	[Icon]	[Icon]	8	10	[Icon]	[Icon]	[Icon]
JJang.hg	7033	172.16.10.3	Left	[Icon]	[Icon]	8	10	[Icon]	[Icon]	[Icon]

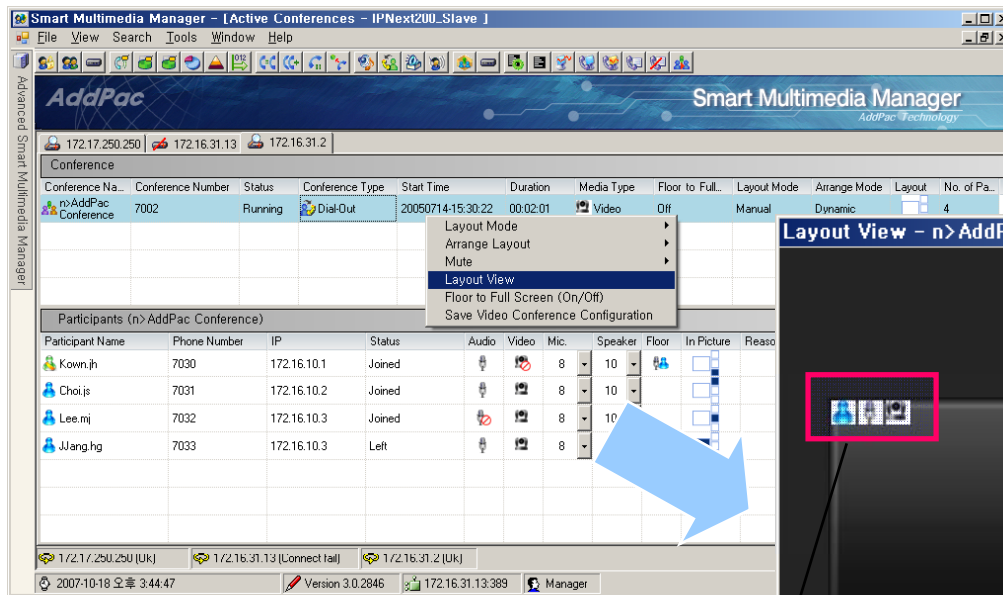
Annotations:

- Conference Snapshot:** Display the real-time still image of a current video conference call. (Points to the 'Conference Snapshot' window showing a woman on a phone.)
- Mic, Speaker:** Mic or Speaker Volume Control for a Conference participant. (Points to the 'Mic.' and 'Speaker' columns in the Participants table.)
- Participants:** Participant parameter setting is possible dynamically in current conference call. (Points to the 'Participants' table.)

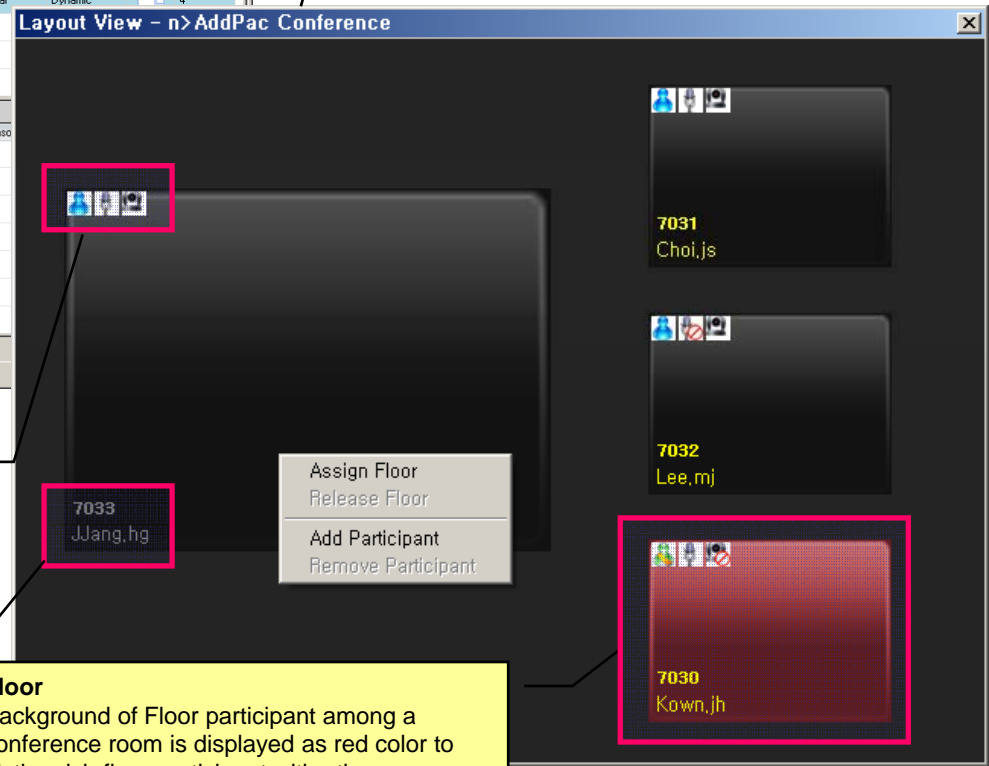
The interface also includes a 'Participants (n>AddPac Conference)' window with a 'Refresh' button and a 'Refresh Interval' set to 5 seconds. At the bottom, there are status indicators for IP addresses (172.17.250.250 (Ok), 172.16.31.13 (Connect fail), 172.16.31.2 (Ok)), a date/time stamp (2007-10-18 오후 3:38:57), and version information (Version 3.0.2846).

Active Conference (4)

Layout view function provide the layout status of a conference participant



Layout View
User can change a participant layout easily via Mouse Drag & Drag at Layout view window. Floor configuration, participant add or delete function is also provided.



Indicator
User class configuration, audio/video on/off and configuration is possible

Status
Display the status of each participant such as phone number, nick name, alias. Using font color, show whether a user participate conference room or not. (yellow color : participating , grey color : not participating)

Floor
Background of Floor participant among a conference room is displayed as red color to distinguish floor participant with other participant.

Conference Schedule

Conference scheduling is used for configuration of repeated conference or a specific day conference

The screenshot shows a dialog box titled "Add a New Conference Schedule" with the following fields and callouts:

- Schedule Name, Description:** Fields for "Schedule Name" (containing "Conference Schedule") and "Description".
- Conference Room:** A dropdown menu set to "Dial".
- Start Date time:** A date dropdown set to "2007-10-18" and a time spinner set to "오후 4:00:45".
- Duration:** A text input field followed by "sec".
- Schedule Recurrence:** A checked checkbox labeled "Schedule Recurrence".
- Recurrence:** Radio buttons for "Daily", "Weekly" (selected), and "Monthly".
- Weekly:** A sub-section with "Recur every" followed by checkboxes for 1, 2, 3, 4, and 5 weeks, and checkboxes for days of the week: Mon, Tue, Wed, Thu, Fri, Sat, Sun.
- Range Of Recurrence:** A section with "Range Of Recurrence" and "End By:" followed by a date dropdown set to "2007-10-18".
- Enable Schedule:** A checked checkbox labeled "Enable Schedule".

Callout boxes provide additional context:

- Start Date time:** Schedule start day and time setup
- Duration:** Conference duration time (sec)
- Schedule Recurrence:** Repeated conference setup
- Enable Schedule:** Schedule enable or disable Setup
- Schedule Name, Description:** Conference Schedule Name and Explanation
- Conference Room:** Conference Room Setup
- Daily, Weekly, Monthly:** Set up Conference schedule
- Range Of Recurrence:** Schedule end-day setup



Thank you!

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