



# AP-VC2000™

## Video Conference Equipment

High Performance BcN Video Terminal Solution  
(BcN : Broadband Convergence Network)

**Advanced MCU Features**



**AddPac**

**AddPac Technology**

2006, Sales and Marketing

# Contents

- Video Display Layout
- Video Conference Signaling
- MCU Management (SMM)
- OSD (Video Phone, Video Terminal, etc)

# Video Display Layout

- **Various Layout**
  - 7 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

# 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 – MC1000 만 지원

# MCU Management (SMM)

## Smart Multimedia Management

- Initial Setting
  - Video Layout Setting
  - User class
    - Chair, Operator, Participant, Audience
  - Initial position
- Active Monitoring
  - Monitoring
    - Snapshot (MC1000 Only Support)
  - Control
    - Layout
    - Move party
    - Floor
    - Mute

# 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 dialog is divided into several sections: 'General', 'Participants', and 'Virtual Audience'. The 'General' section includes fields for 'Conference Name', 'Description', 'Conference Number', 'Conference Type', 'Partition', 'Media Type' (Audio or Video + Audio), 'Audio Codec', 'Max Participant', 'Close on Chair' (checked), and 'Secret Room' (unchecked). The 'Participants' section includes a 'Room Password' field (4 digit). The 'Virtual Audience' section is expanded, showing 'Video' settings: 'Support' (tabbed), 'EndPoint', and 'Layout'. The 'Layout' sub-section includes 'Layout Mode' (Manual), 'Arrange Mode' (Dynamic), 'Video Layout' (3), 'Floor Assign Mode' (After Release), 'Color' settings (Border Line, Floor Line, Background Line, Background), and 'Mic Off of Invisible Participant' (unchecked). The 'Floor to Full Screen' section includes 'Symmetric' (checked) and 'Asymmetric' (unchecked). The 'Display Participant Name' section includes 'Display Participant Name' (unchecked) and 'Layout' (Top Left). The 'Color' section includes 'Background' (black). The 'Mic Off of Invisible Participant' section includes 'Mic Off of Invisible Participant' (unchecked). The dialog has 'Ok' and 'Cancel' buttons at the bottom.

**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**

# Conference - Participants

**Phone Number**  
Participant Phone List

Number	Parti...	User
3001		lee jong ...
3002		kim kyun...

Enter External Phone Number

Add

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

**Conference Participants**

Number	Partition	User	Type	User Class	Media Type	Position	Display Name
3000		choi jin suk	Internal	Participant	Video		Steven
3500		kim kwang	Internal	Chair	Video		Jane
6010		kim kyung nam	Internal	Participant	Video		John
6012		lee jong hyuk	Internal	Participant	Video		Sally

**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

Ok Cancel



# Active Conference (1)

**Smart Multimedia Manager - [Active Conferences]**

File View Tools Window Help

**AddPac** Smart Multimedia Manager AddPac Technology

172.16.12.30

**Conference**

Conference Name	Conference Number	Status	Conference Type	Start Time	Duration (s..)	Media Type	Floor to Full..	Layout Mode	Arrange Mode	Layout	No. of Pa..
7100	7100	Running	Dial-Out	20061226-16:21:58	72	Video	Off	Manual	Dynamic		4

**Participants (7100)**

Participant Name	Phone Number	IP	Status	Audio	Video	Floor	In Picture	Reason
kim kwang(Jane)	3500	172.16.12.30	Connected	🔊	📹		█	
lee jong hyuk(Sally)	6012	172.16.11.112	Connected	🔊	📹		█	
kim kyung nam(John)	6010	172.16.11.110	Connected	🔊	📹		█	
choi jin suk(Steven)	3000	172.16.39.40	Connected	🔊	📹		█	

172.16.12.30 (Ok)

2006-12-26 오후 4:24:55 Version 2.9.2540.28759 172.16.12.30:389 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..
7100	7100	Running	Dial-Out	20061226-16:21:58	133	Video	Off	Manual	Dynamic	[Layout Icon]	4

Participant Name	Phone Number	IP	Status	Audio	Video	Floor	In Picture	Reason
kim kwang(Jane)	3500	172.16.12.30	Connected	[Audio Icon]	[Video Icon]	[Floor Icon]	[In Picture Icon]	
lee jong hyuk(Sally)	6012	172.16.11.112	Connected	[Audio Icon]	[Video Icon]	[Floor Icon]	[In Picture Icon]	
kim kyung nam(John)	6010	172.16.11.110	Connected	[Audio Icon]	[Video Icon]	[Floor Icon]	[In Picture Icon]	
choi jin suk(Steven)	3000	172.16.39.40	Connected	[Audio Icon]	[Video Icon]	[Floor Icon]	[In Picture Icon]	

# OSD (Video Phone, Video Terminal,etc)

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



# Conference Room

- Application >> Conference Room
  - conference list

**Conference Room**

User in conference / maximum

Conference room  
-Lock  
-unlock

Conference type  
-video  
-audio

Dial-in conference  
- gray : not active  
- Colored : active

Meet-me conference  
- gray : not active  
- Colored : active

Conference name

Conference number

See Detail Participant list

Detail View

Conference layout

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

# 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

**Add Party**

**Incoming Call**

3000

**Participant** **Audio Call**

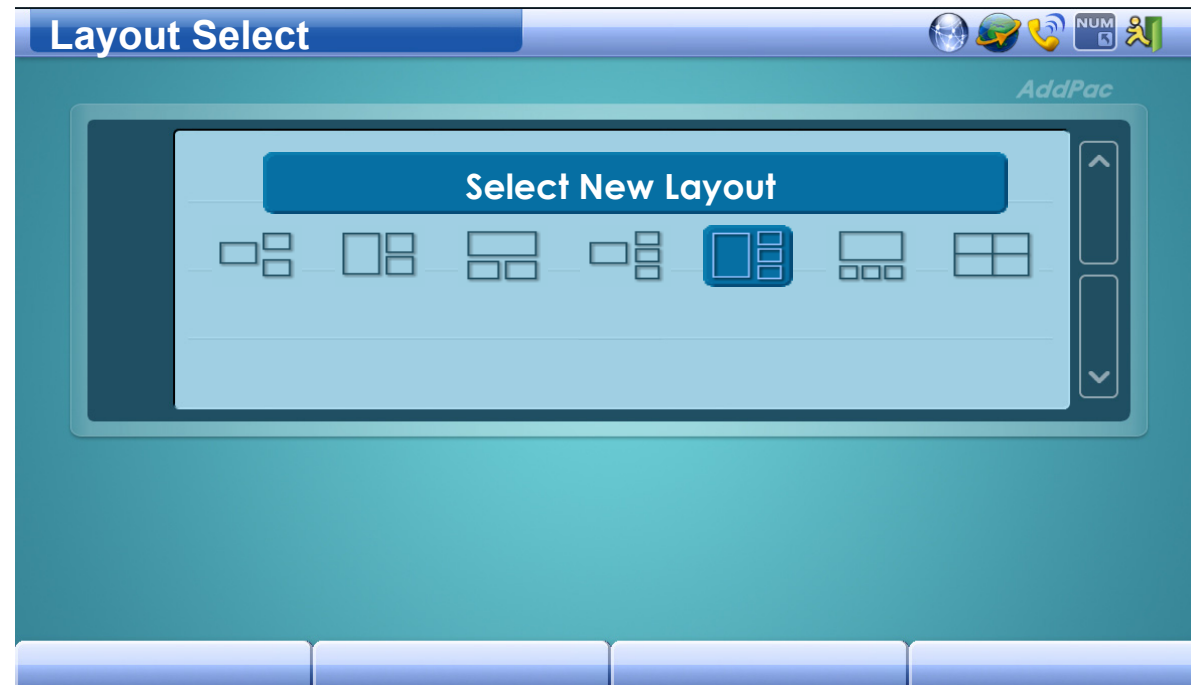
Invite new user

Select User class  
-participant  
-audience

Select Media type  
-audio call  
-video call

# Layout

- Video Layout Change in current conference





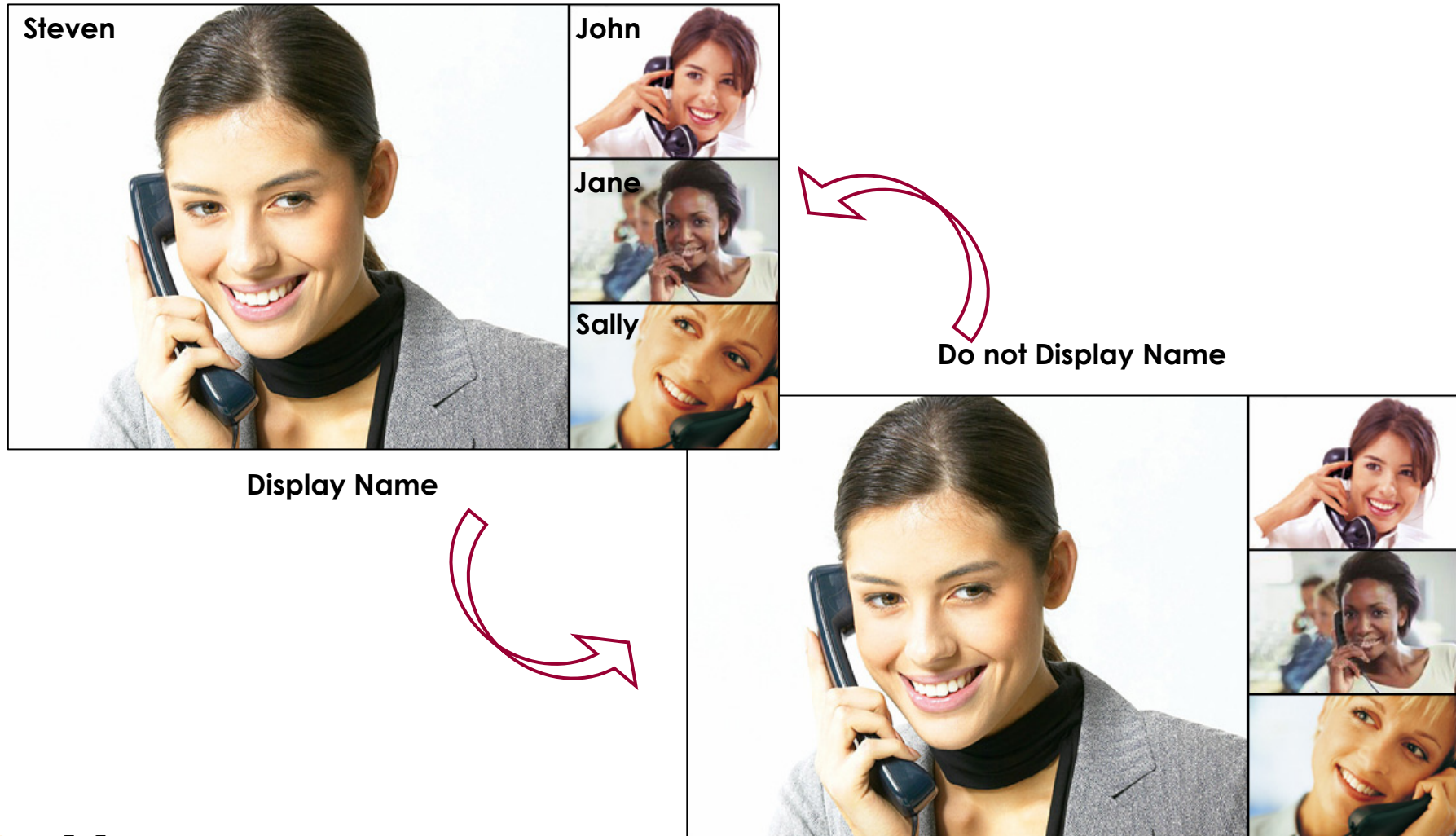
# Floor To Full Screen

- 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,



# 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 icons for media type (video/audio), audio/video enable status, and position. The main list contains four participants: Sally (3010), Steven (3001), Jane (3005), and John (3004). Each row includes a user class icon, name, number, and media status icons. At the bottom, there are buttons for 'Assign Floor', 'Remove Party', 'Position', and 'more'.

User class	Participant's name	Participant's number	Media type	Audio/Video enable status	position
Person with laptop	Sally	3010	video, audio	video, audio	position
Person with microphone	Steven	3001	video, audio	video, audio	position
Person	Jane	3005	video, audio	video, audio	position
Person	John	3004	video, audio	video, audio	position

# 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' window in the AddPac software. The window title is 'Participant List' and the logo 'AddPac' is in the top right corner. The list contains four participants: Sally (ID 3010), Steven (ID 3001), Jane (ID 3005), and John (ID 3004). Each participant row has several icons: a person icon, a microphone icon, a camera icon, and a status icon. Sally and Steven have a person icon, while Jane and John have a microphone icon. Jane's row is highlighted in blue. Below the list is a toolbar with four buttons: 'Assign Floor', 'Remove Party', 'Position', and 'more'. The 'Assign Floor' button is highlighted with a red box. Red lines connect the text labels to the corresponding elements in the screenshot.

Have a right of speaking

Don't have a right of speaking

Give Floor (Speaker) to Participant

Name	ID	Microphone Icon	Camera Icon	Status Icon
Sally	3010	No	No	Person
Steven	3001	No	No	Person
Jane	3005	Yes	No	Person
John	3004	Yes	No	Person

# Remove Party

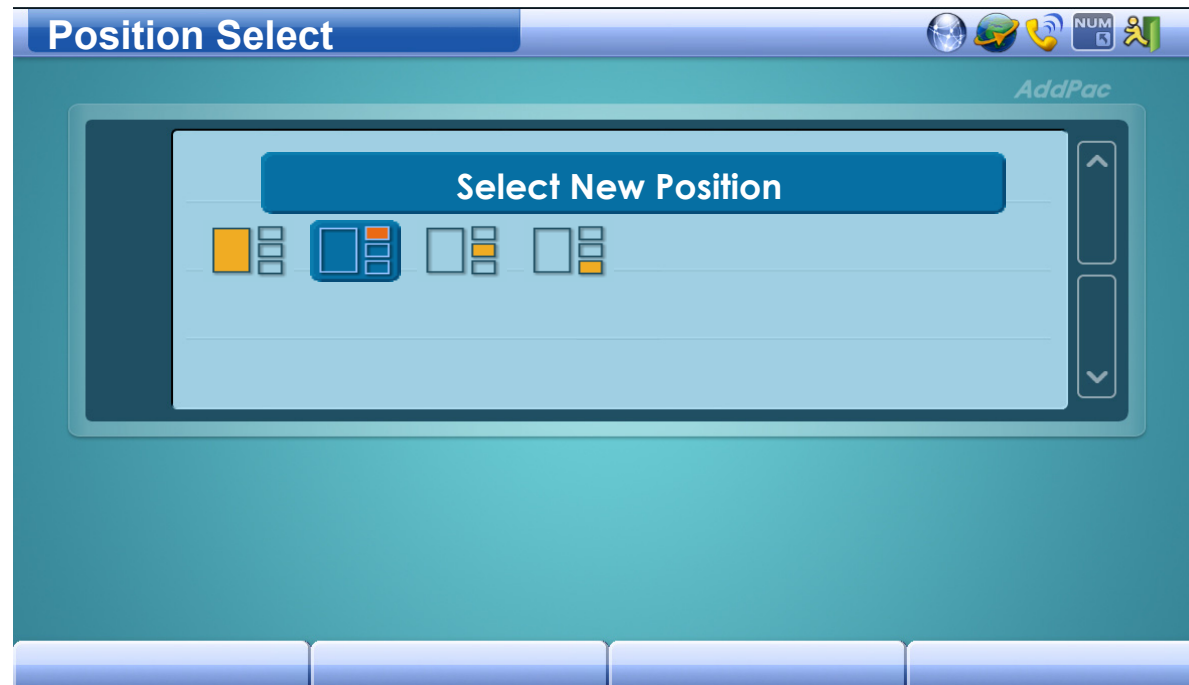
- Conference Call Disconnect of a Participant selected in List

The screenshot displays the 'Participant List' window in the AddPac software. The window title is 'Participant List' and the logo 'AddPac' is visible in the top right corner. The list contains four participants: Sally (3010), Steven (3001), Jane (3005), and John (3004). Each participant row includes icons for audio, video, and other controls. The row for 'Jane' is highlighted with a red border, indicating she is the selected participant. Below the list, there are four buttons: 'Assign Floor', 'Remove Party', 'Position', and 'more'. The 'Remove Party' button is also highlighted with a red border. Two red lines with text labels point to these elements: 'Participant Select' points to the red border around Jane's row, and 'Conference call disconnect of a participant selected' points to the 'Remove Party' button.

Participant	Number	Audio	Video	Other
Sally	3010	Speaker	Microphone	Camera
Steven	3001	Speaker	Microphone	Camera
Jane	3005	Speaker	Microphone	Camera
John	3004	Speaker	Microphone	Camera

# Position

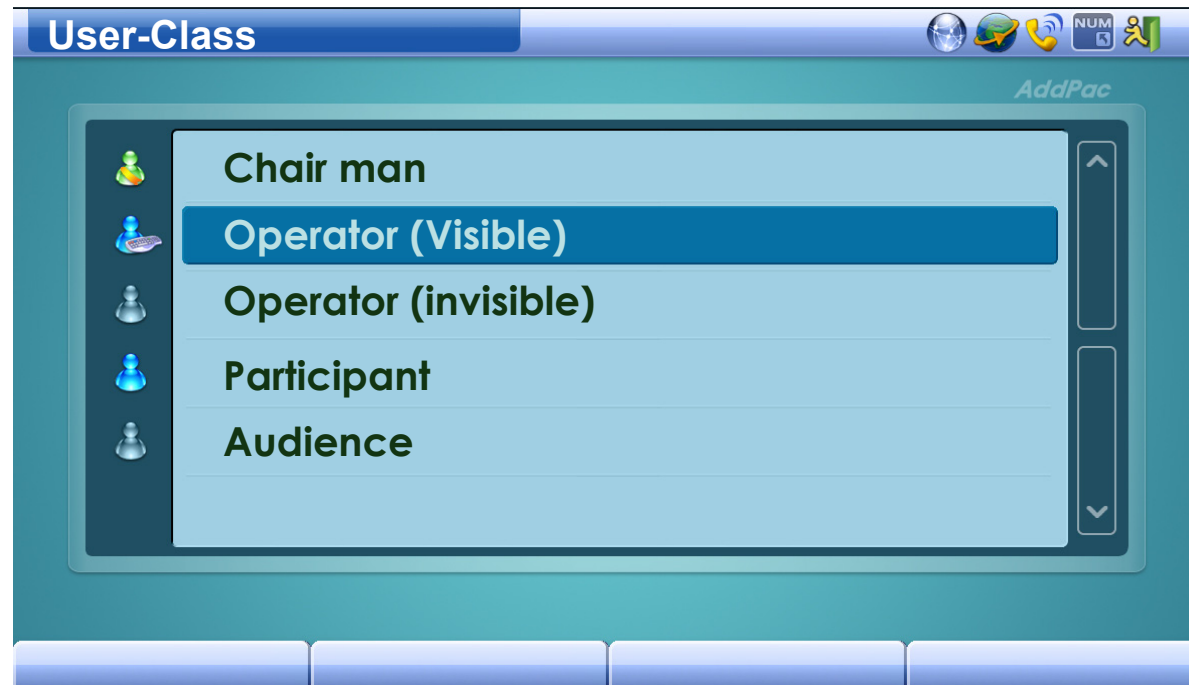
- Participant Location Change In Conference View Layout
- Display the Position List in current conference view layout





# User Class

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



# Audio/Video Mute

- audio, video mute enable/disable

The screenshot displays the 'Participant List' interface. At the top, there are icons for globe, globe with signal, phone, NUM, and a person icon. Below the title bar, the 'AddPac' logo is visible. The main area contains a table of participants with columns for name, ID, and control icons. The 'Remove Party' button at the bottom is highlighted with a red box. Red lines connect the 'Audio Mute/Enable' and 'Video Mute/Enable' labels to the microphone and camera icons in the participant rows. A red box also highlights the microphone and camera icons for Jane (ID 3005). A red line connects the 'Audio, video mute/ enable' label to the 'Remove Party' button.

Name	ID	Audio Mute/Enable	Video Mute/Enable
Sally	3010	Enabled	Enabled
Steven	3001	Enabled	Enabled
Jane	3005	Muted	Muted
John	3004	Enabled	Enabled

Audio Mute/Enable

Video Mute/Enable

Participant List

AddPac

Assign Floor Remove Party Position more

Audio, video mute/ enable



# Thank you!

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