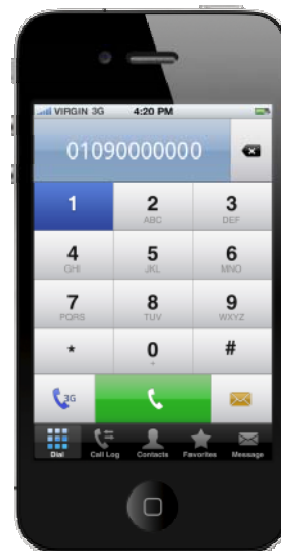# Smart Phone based SIP Phone Solution

AP-SAP100   AP-SIP100

AddPac Technology
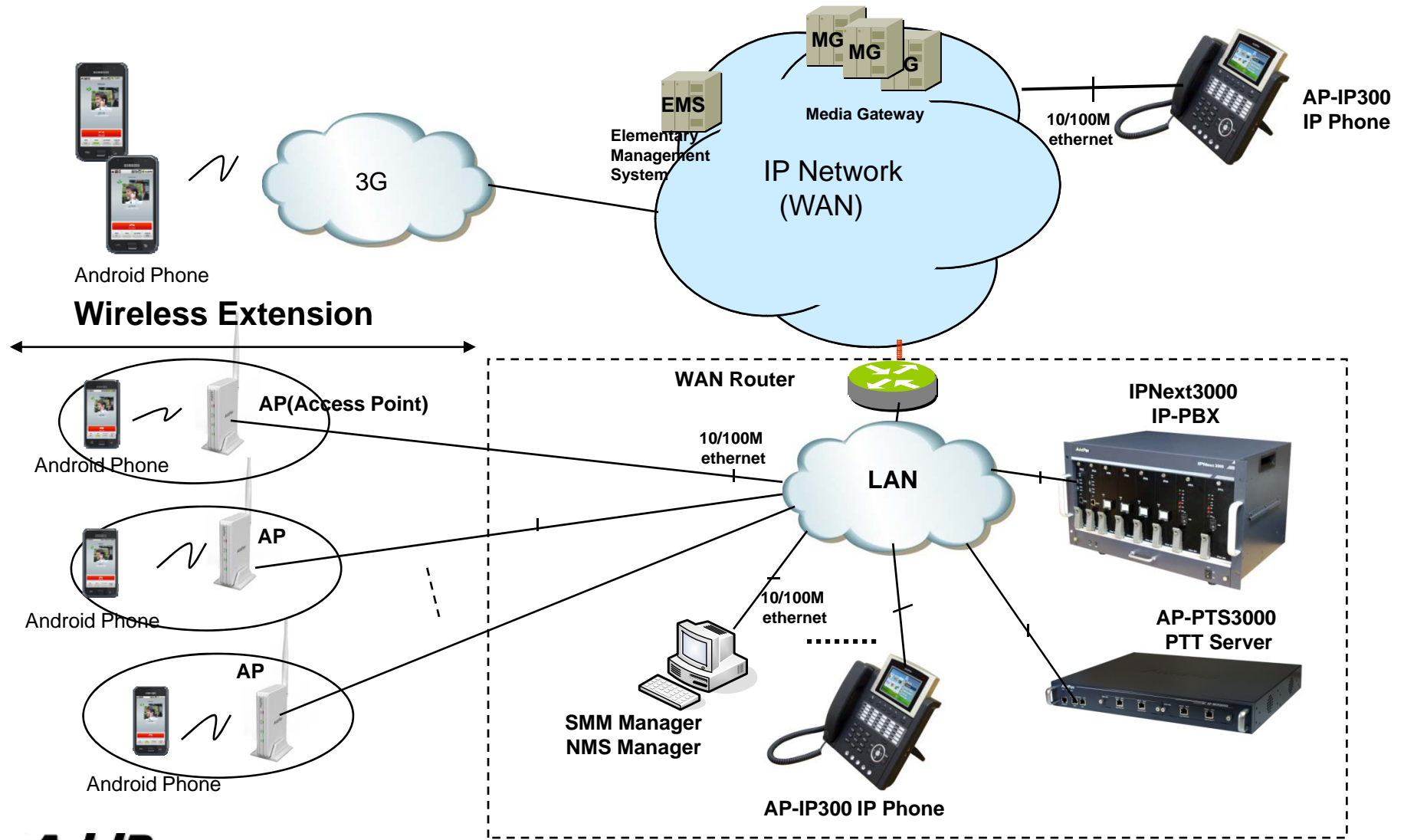
Sales and Marketing

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Contents

- Network Service Diagram

- SIP Phone Appl. Comparison

- Android based SIP Phone (AP-SAP100)

  - SIP Phone Service Features

  - Call Service Examples

  - Call Scenario

- I-Phone based SIP Phone (AP-SIP100)

  - SIP Phone Service Features

  - Call Service Examples

  - Call Scenario

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Network Service Diagram

3G

Android Phone

Wireless Extension

AP(Access Point)

Android Phone

AP

Android Phone

AP

Android Phone

EMS

Elementary Management System

MG MG G

Media Gateway

IP Network (WAN)

10/100M ethernet

AP-IP300 IP Phone

WAN Router

IPNext3000 IP-PBX

10/100M ethernet

LAN

10/100M ethernet

SMM Manager
NMS Manager

AP-IP300 IP Phone

AP-PTS3000 PTT Server

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3

SIP Phone Appl. Comparison Table

|	AP-SAP100	AP-SIP100
OS	Android based Smart Phone	IOS based Apple I-Phone
Network	WiFi, 3G/LTE	WiFi, 3G/LTE
Call Service	Basic PTP (Point-to-Point) Call PTT (Pusht-to-Talk) Call	Basic PTP (Point-to-Point) Call PTT (Pusht-to-Talk) Call
Emergency PTT Call Service	Support	Support
IP-PBX Call Scenario	Hold/Resume , Transfer, Call Waiting	Hold/Resume , Transfer , Call Waiting
Phone Book	Personal, Public, Group Address	Personal, Public, Group Address

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Android based SIP Phone (AP-SAP100)

Android based SIP Phone Service Features

- Android OS Support (Galaxy S, Galaxy Note, Galaxy U, etc)
- Wifi based PTT over IP Service
- 3G based PTT over IP Service (mVoIP)
- SIP based Point-to-Point VoIP Call Service
- SIP based Group(PTT) VoIP Call Service
- Emergency PTT Call Service
- Various IP-PBX Call Scenario
  - Hold/Resume , Transfer , Call Waiting
- Personal, Public, Group Address List Support
- Use Internal Contacts List for Personal Phone Book
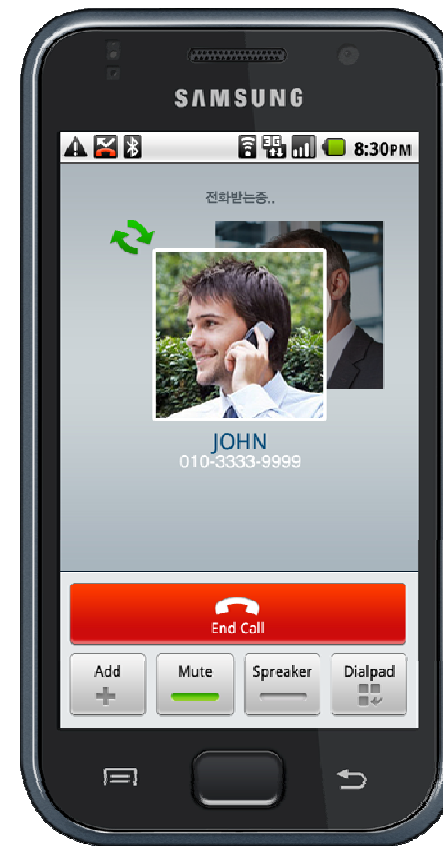
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Call Service Example

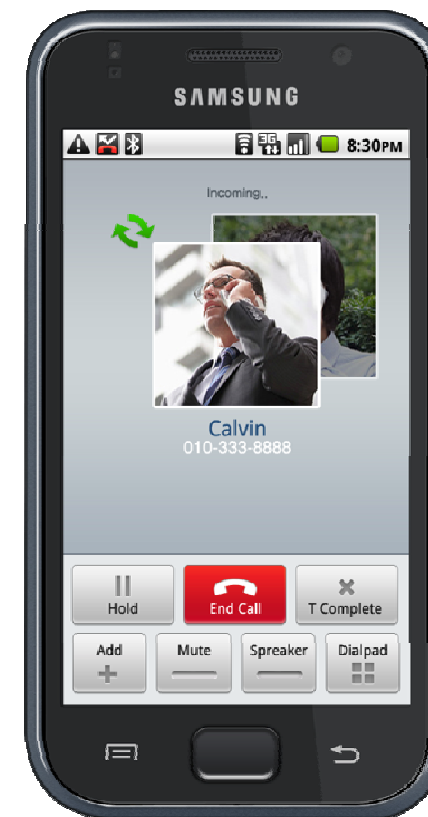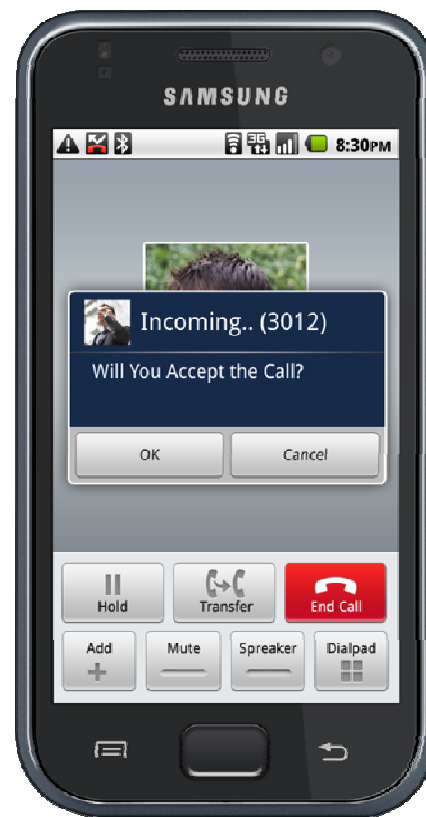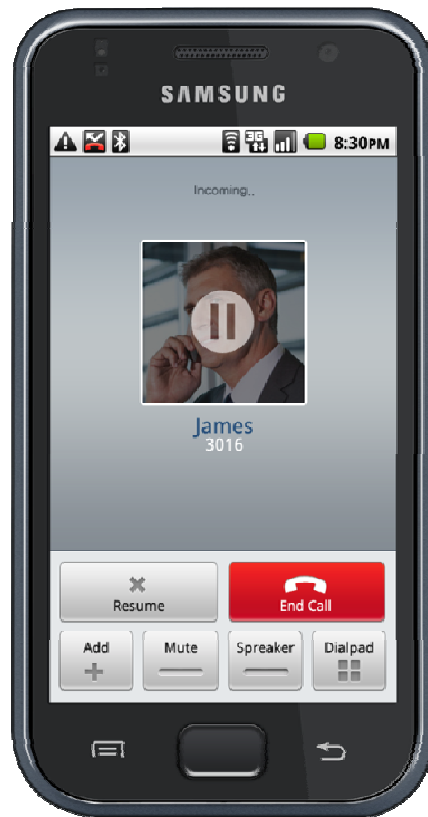- Personal Phone Book is synchronized with built-in Contacts
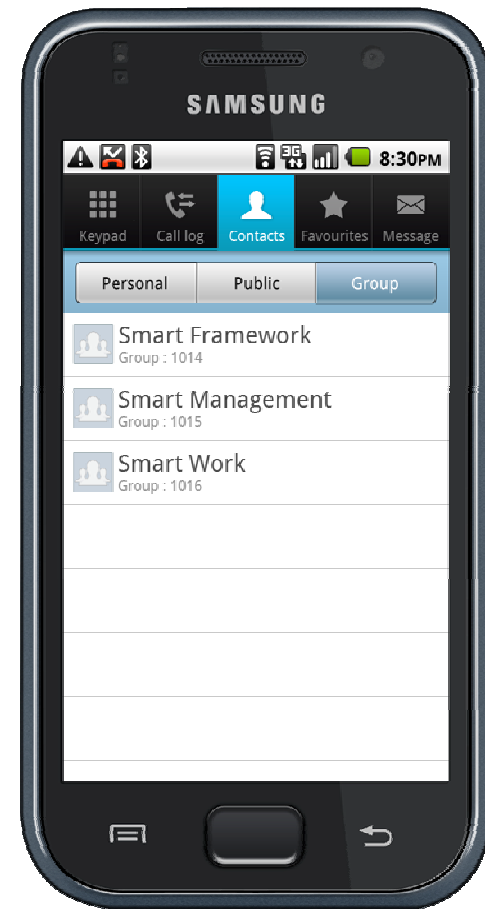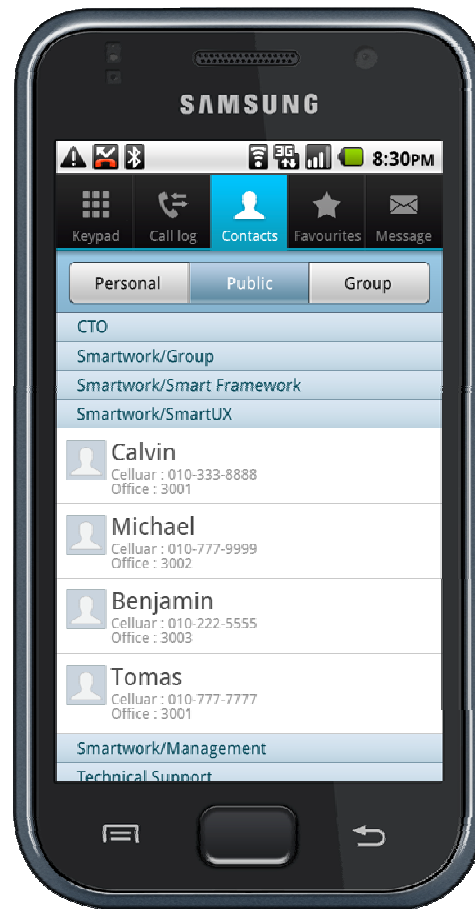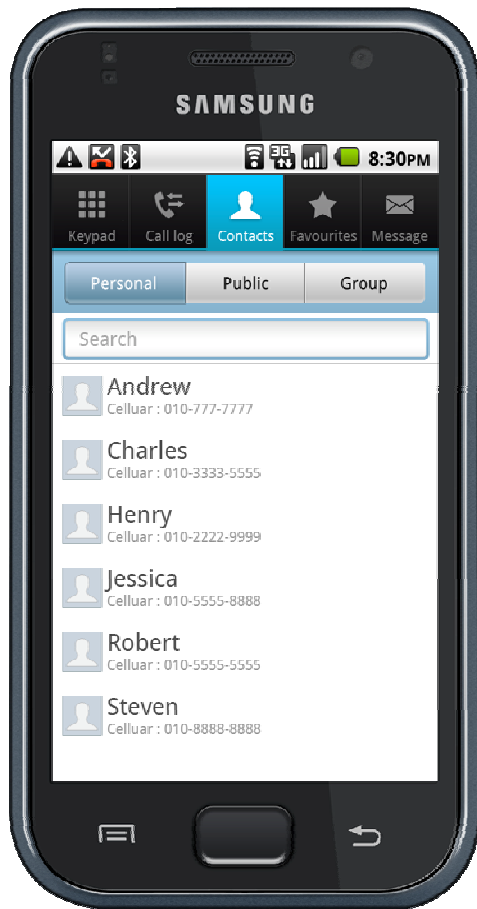
Call Service Example

- **Display user profile in call**
  - User Name, Phone Number, Photo

Call Service Example

- Support IP-PBX call features
  - Hold/Resume , Transfer , Call Waiting

Android SIP Phone Call Scenario (example)

- PTP(Point-to-Point) Call Scenario
  - Basic Call and Display user profile
  - Hold / Resume
  - Call Waiting
  - Call Transfer
  - 3G to 3G basic Call

- PTT Scenario
  - Basic Call (Wi-Fi to Wi-Fi)
  - Basic Call (3G to 3G)

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Android - Call Scenario

- Basic Call and Display user profile

  - Android Phone(3014: Wi-Fi)   →   Android Phone(3016:3G)

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Android - Call Scenario

- **Hold / Resume**
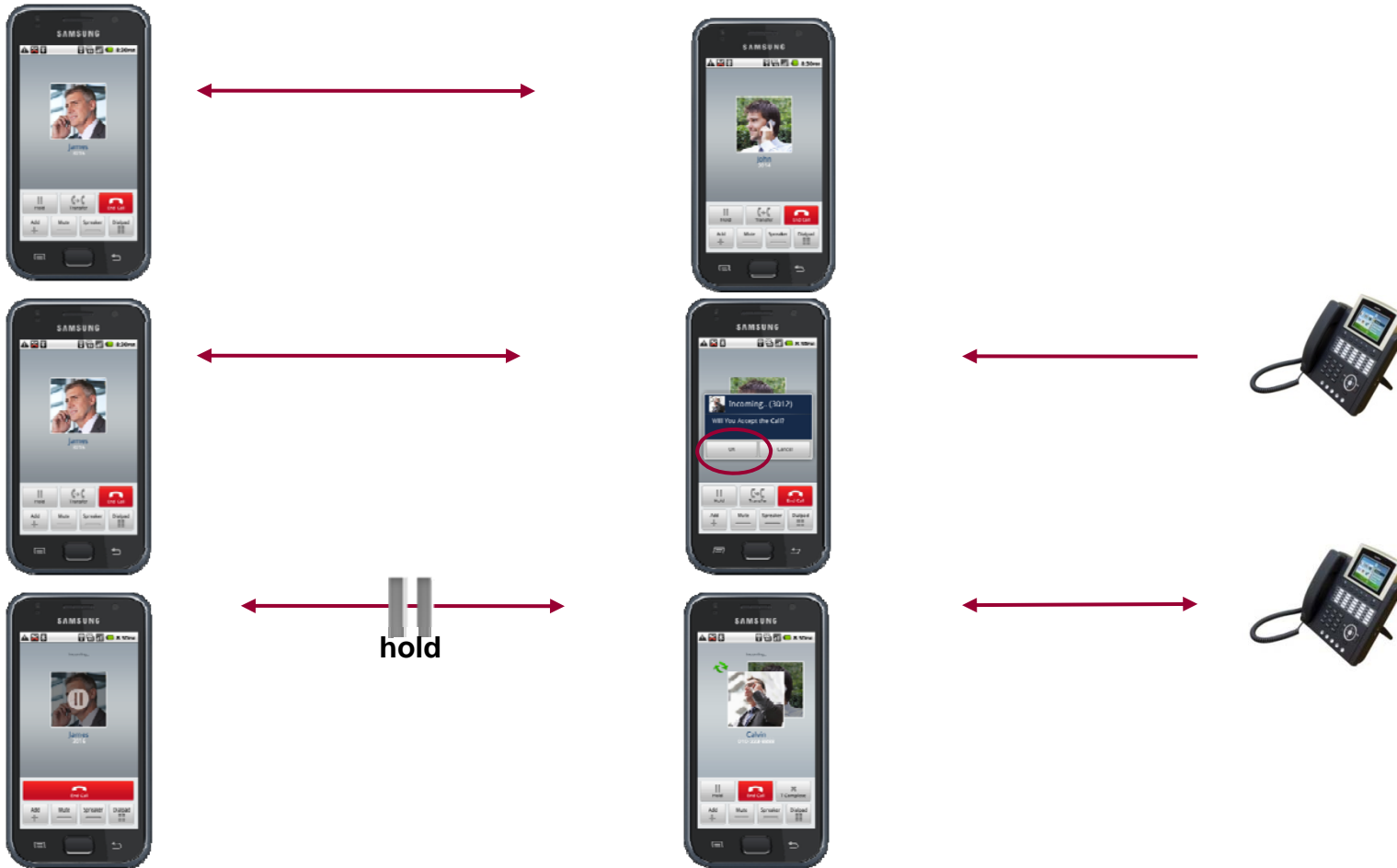
  - Android Phone(3014: Wi-Fi) → Android Phone(3016:3G)

hold

Android - Call Scenario

- **Call Waiting (1)**

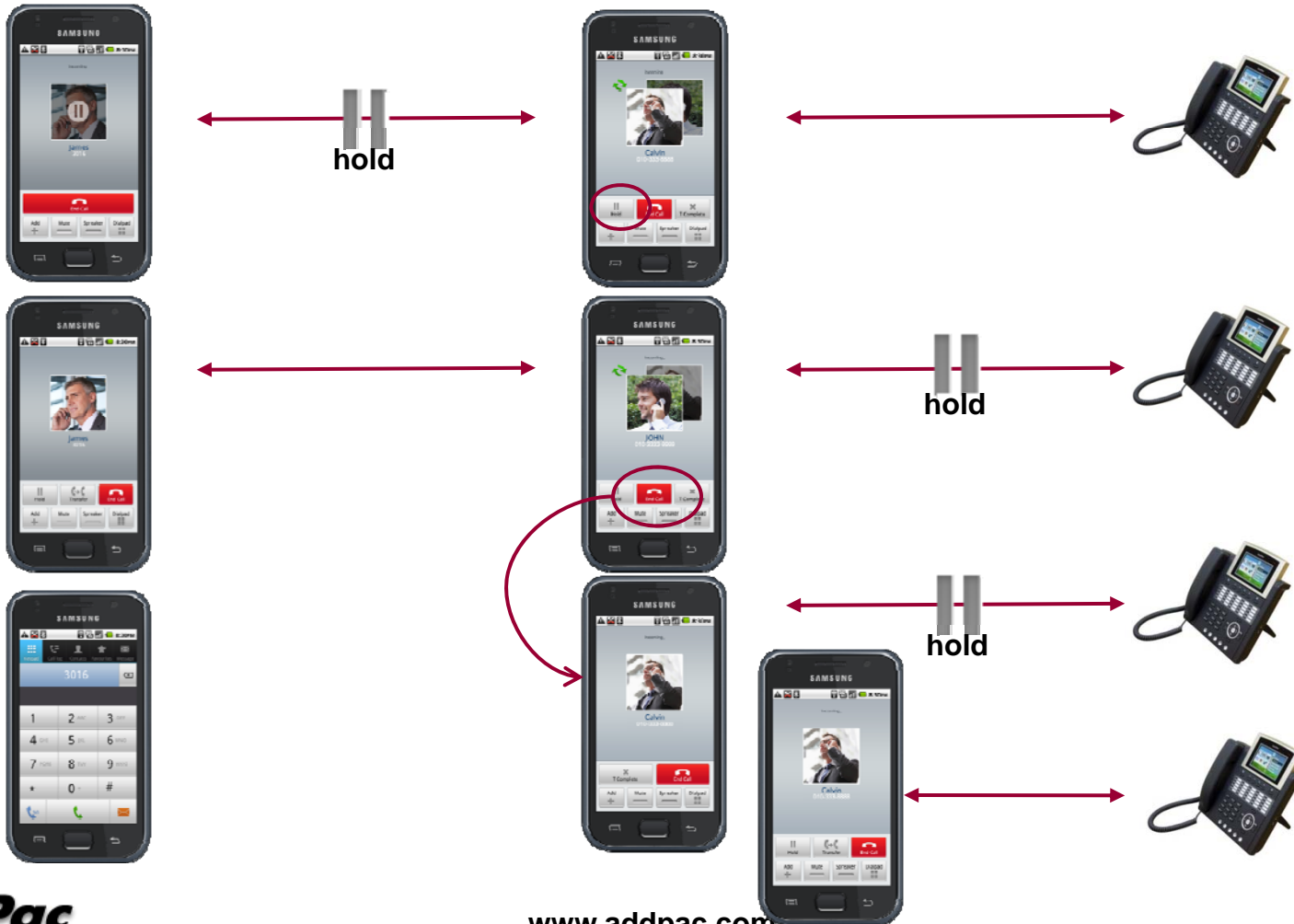 - Android Phone(3014: Wi-Fi) Android Phone(3016:3G) AP-IP300 (3012)
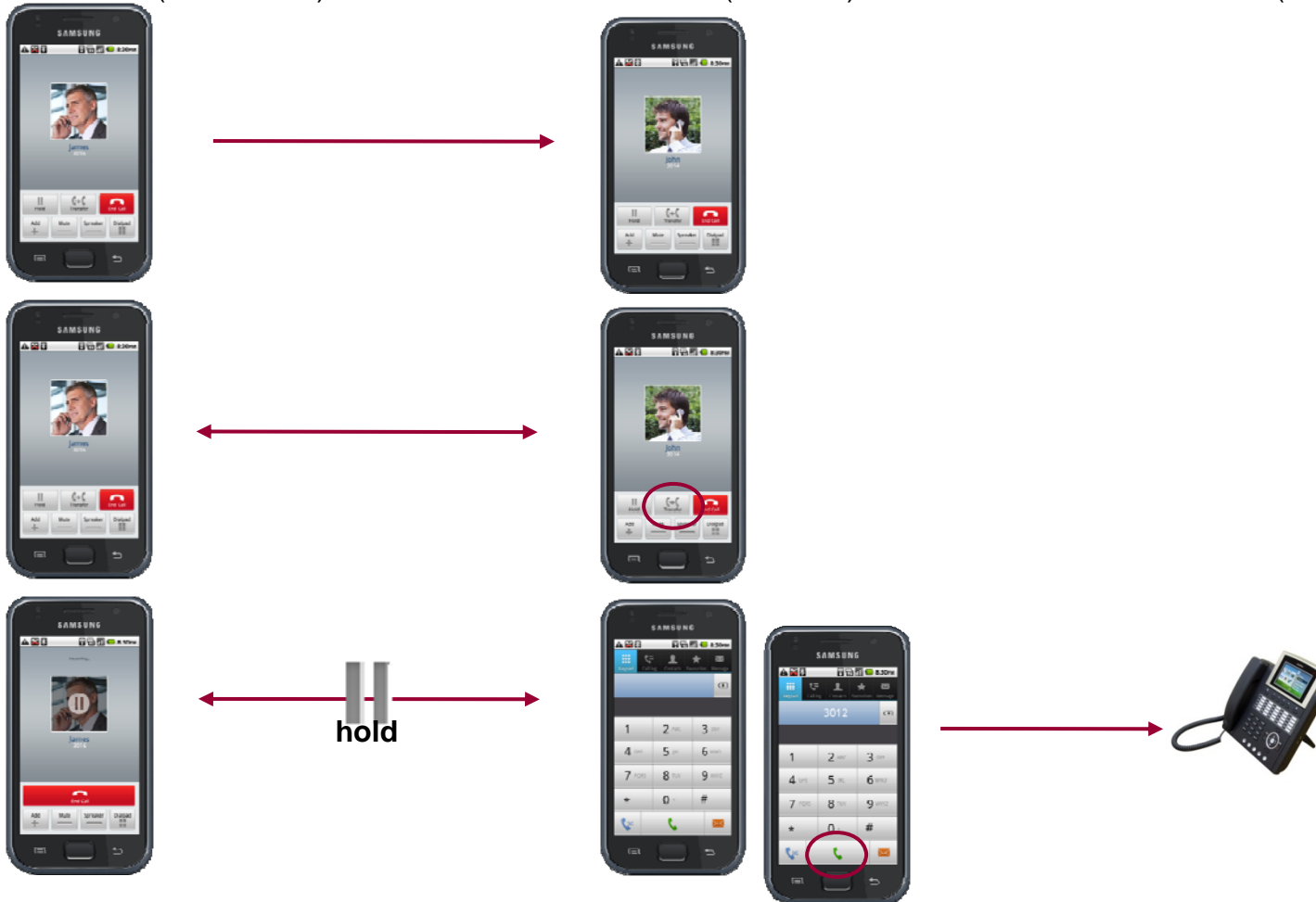

hold

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Android - Call Scenario

- **Call Waiting (2)**

- Android Phone(3014: Wi-Fi)   Android Phone(3016:3G)   AP-IP300 (3012)

hold
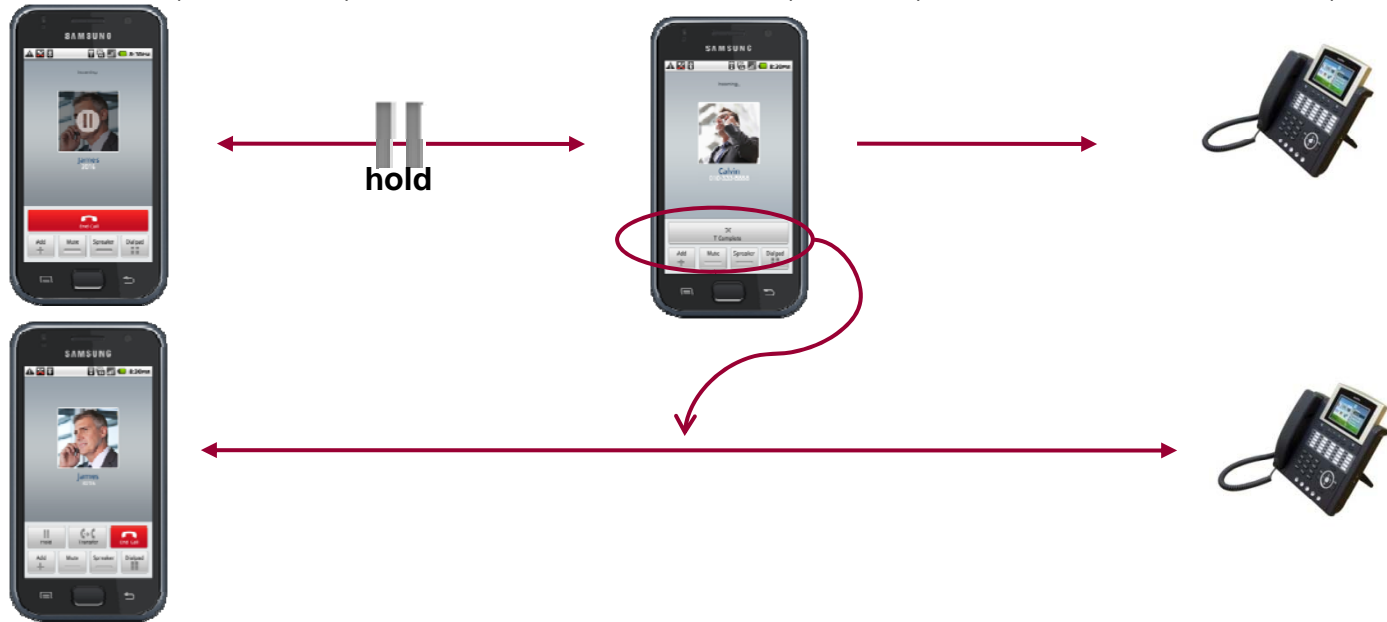
hold

hold

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Android - Call Scenario

- Transfer (1)

- Android Phone(3014: Wi-Fi)   Android Phone(3016:3G)   AP-IP300 (3012)

hold

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Android - Call Scenario

- **Transfer (2)**

- Android Phone(3014: Wi-Fi)   Android Phone(3016:3G)   AP-IP300 (3012)

hold

Android - Call Scenario

- **3G to 3G basic Call**

  - Android Phone(3014: 3G) → Android Phone(3016:3G)
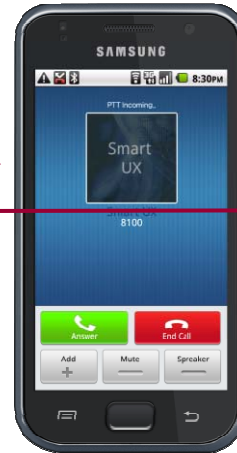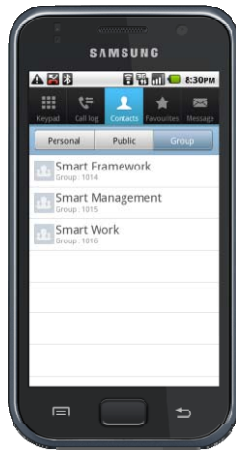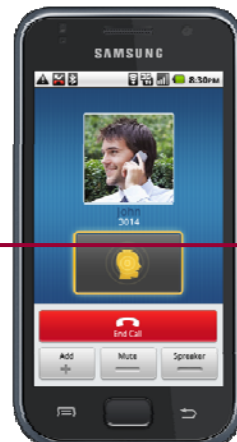
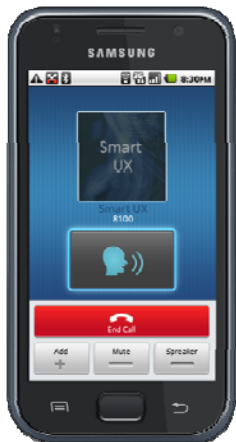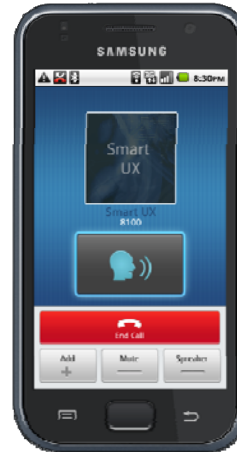**AddPac**

Android - PTT Scenario

- **Basic Call (Wi-Fi to Wi-Fi)**

  - Android Phone(3014: Wi-Fi)   Android Phone(3016:Wi-Fi)   AP-IP300 (3012)

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Android - PTT Scenario

- **Basic Call (Wi-Fi to Wi-Fi)**

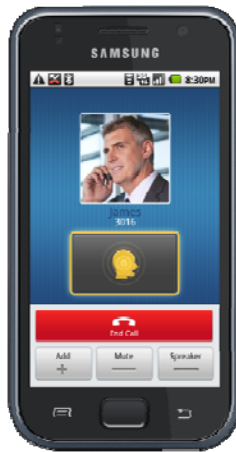- Android Phone(3014: Wi-Fi)   Android Phone(3016:Wi-Fi)   AP-IP300 (3012)
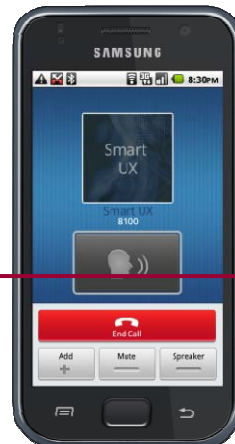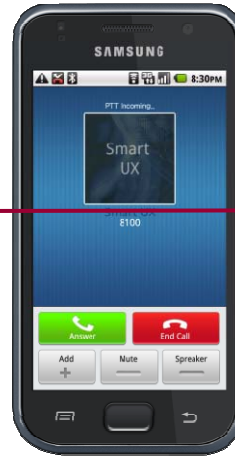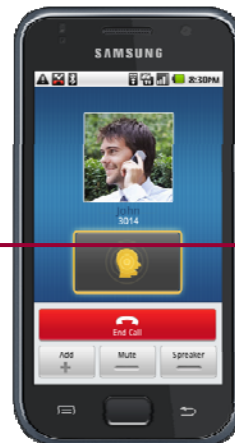
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Android - PTT Scenario

- **Basic Call (3G to 3G)**

- Android Phone(3014: 3G)   Android Phone(3016:3G)   AP-IP300 (3012)
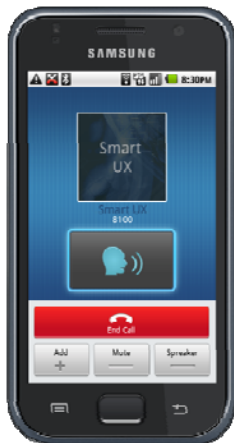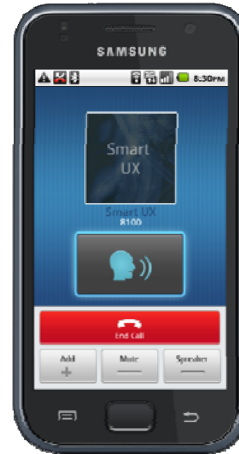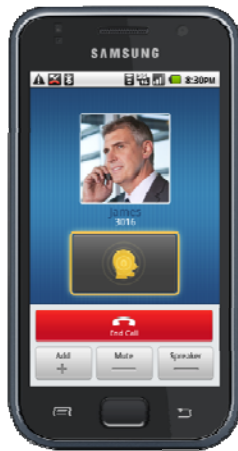
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Android - PTT Scenario

- **Basic Call (3G to 3G)**

  - Android Phone(3014: 3G)   Android Phone(3016:3G)   AP-IP300 (3012)

I-Phone based SIP Phone (AP-SIP100)

I-Phone based SIP Phone Service Features

- Apple MAC IOS Support (Over IOS 4.2 Version)
- I-Phone 3g, 3gs, 4 Support
- Wi-Fi based PTT over IP Service
- 3G over PTT over IP Service (mVoIP)
- SIP based Point-to-Point VoIP Call Service
- SIP based Group(PTT) VoIP Call Service
- Emergency PTT Call Service
- Various IP-PBX Call Scenario
    Hold/Resume , Transfer , Call Waiting
- Personal, Public, Group Address List Support
- Use Internal Contacts List for Personal Phone Book

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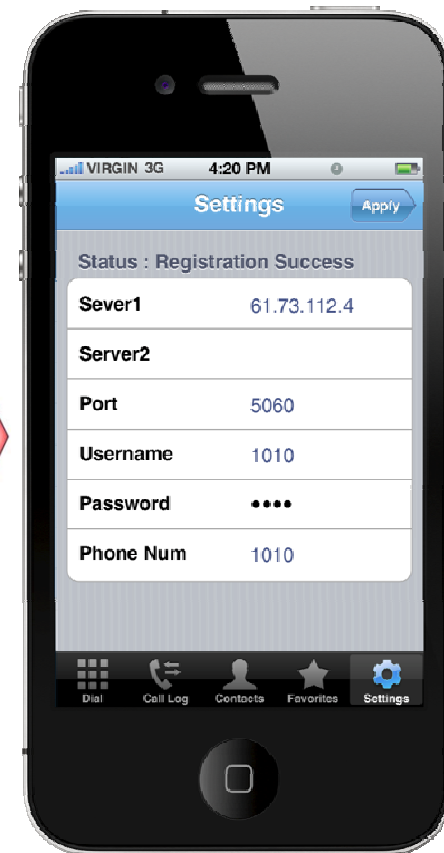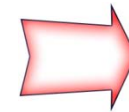# Call Service Examples

1. Application Start

I-Phone SIP Phone
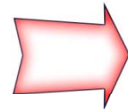Application
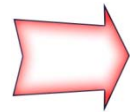
Application Loading

IP-PBX registration

Call Service Examples

2. IP-PBX Registration

After IP-PBX registration is done at first, all function such as Basic Call, PTT Call, Phone book, UMS is enabled.

New IP-PBX Registration Method

Registration Apply after Server Address, User Name, Password, Telephone Number field is done
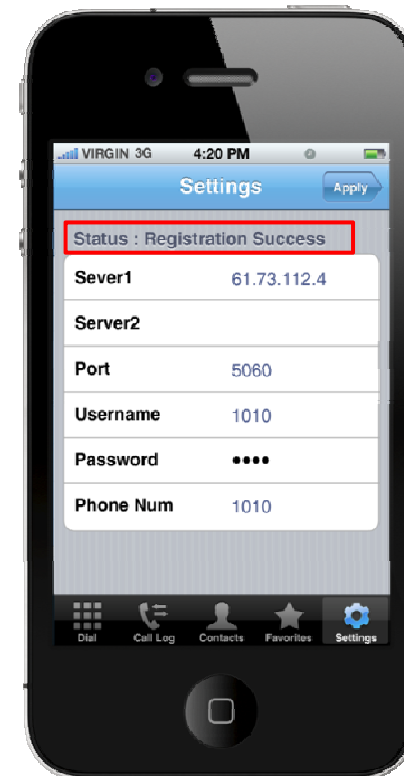
IP-PBX Registration Success

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Call Service Examples

3. Application Termination

Click Twice Home Button

Application icon press for 1sec. And then press PTT appl. icon

Termination Confirm

Call Service Examples (Supplementary Service)

1-1. Personal Phone Book

After IP-PBX registration is done, PTT application display the personal, public, group address book list which is received from IP-PBX and Local Phone book

① ②	After edit button is pressed, Local Phone Book remove
	new address addition
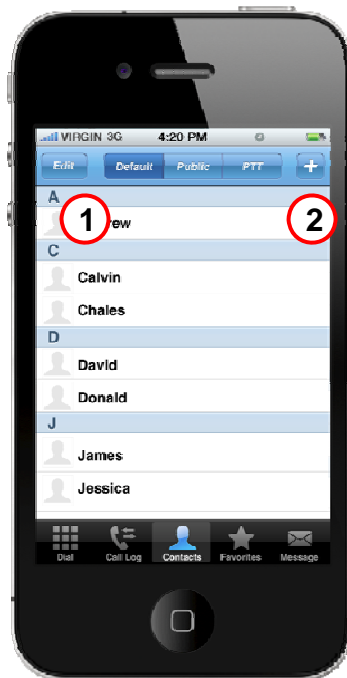
Personal Phone Book List

①	Personal Picture
②	SMS sending
③	3G call
④	Favorites addition

Personal Phone Book Edition Mode

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1-2. Public Phone Book

In case of public phone list, address book can loaded from AddPac Presence Server
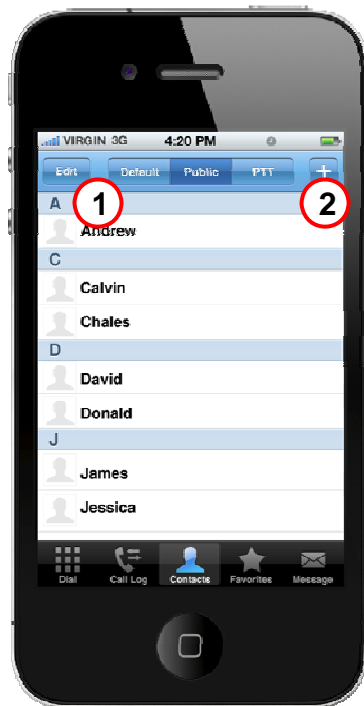
1	After edit button is pressed, Public Phone book can be removed
2	New address addition

1	Photo Registration
2	Name
3	Telephone Number

Public Phone Book Mode

Public Phone Book Edition Mode

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Call Service Examples (Supplementary Service)

1-3. Group PTT Phone Book

In case of Group PTT call, user can add a PTT group. (Multiple Group PTT call configuration)
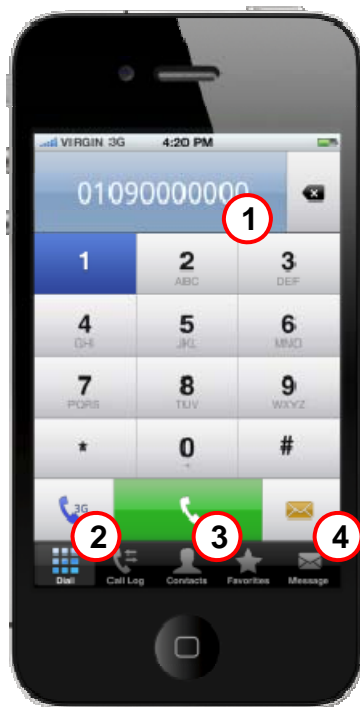
1	After edit button is pressed, Group Phone book can be removed
2	New address addition

PTT Phone Book Mode

1	Photo registration
2	Emergency PTT call
3	Favorites addition

PTT Phone Book Editing Mode

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Call Service Examples (Key PAD)

1	Dial number input
2	3G call button
3	internal line button
4	message button

Key PAD Layout

1	Call duration Display
2	Mute
3	Entering KeyPAD Mode
4	Speaker Phone Mode
5	Phone Book Mode
6	New call
7	Call Hold
8	Call waiting
9	Call Transfer

Outgoing Call Layout

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Call Service Examples (Call History)

Recent Call History
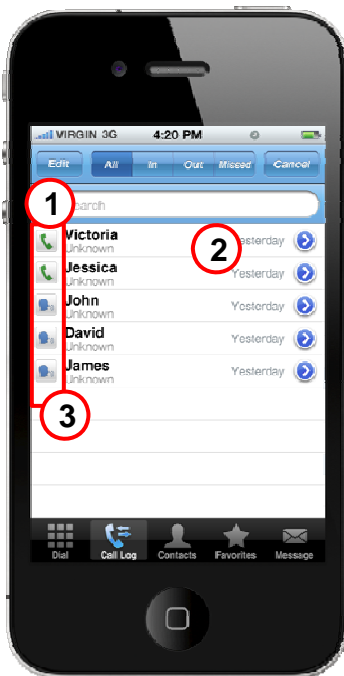
1		Recent call log editing mode
2		Date and time display
3		3G call connection ICON
		PTP call connection ICON
		PTT call connection ICON
		emergency call connection ICON

Call Log Mode

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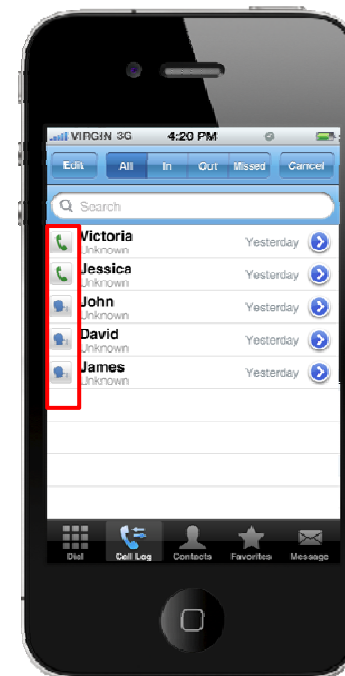
Call Service Examples (Favorite)

Favorite Function

PTT Call Scenario (example)

- **PTP Call Scenario**

  - Basic Call and Display user profile

  - Hold / Resume

  - Call Waiting

  - Call Transfer

  - 3G to 3G basic Call

- **PTT Scenario**

  - Basic Call (Wi-Fi to Wi-Fi)

  - Basic Call (3G to 3G)

I-Phone - Call Scenario

1-1. Basic Call

AP-IP300 IP Phone
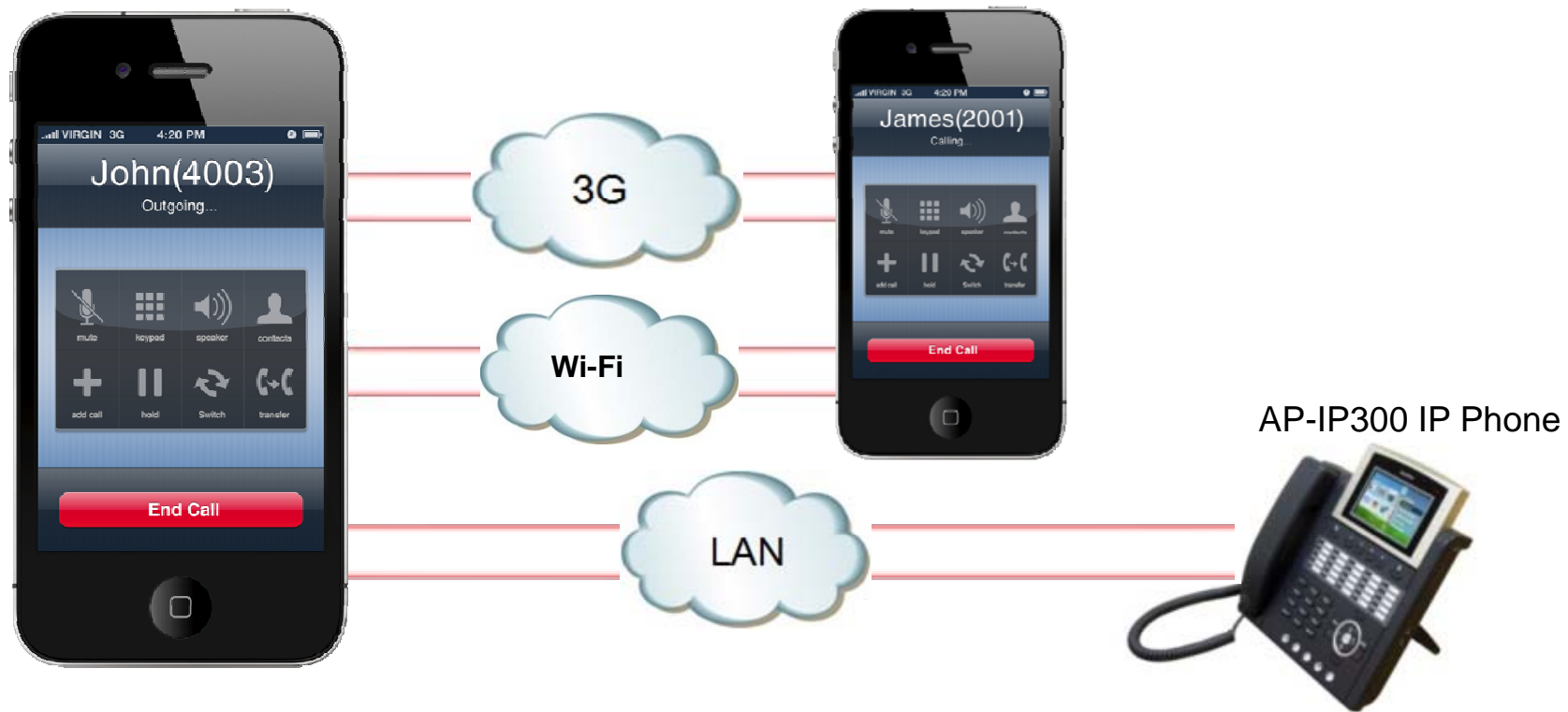
I-Phone - Call Scenario

1-2. Basic Call and display user profile

Wi-Fi and 3G Call Connection

Call Process

Call Answer

Call Session
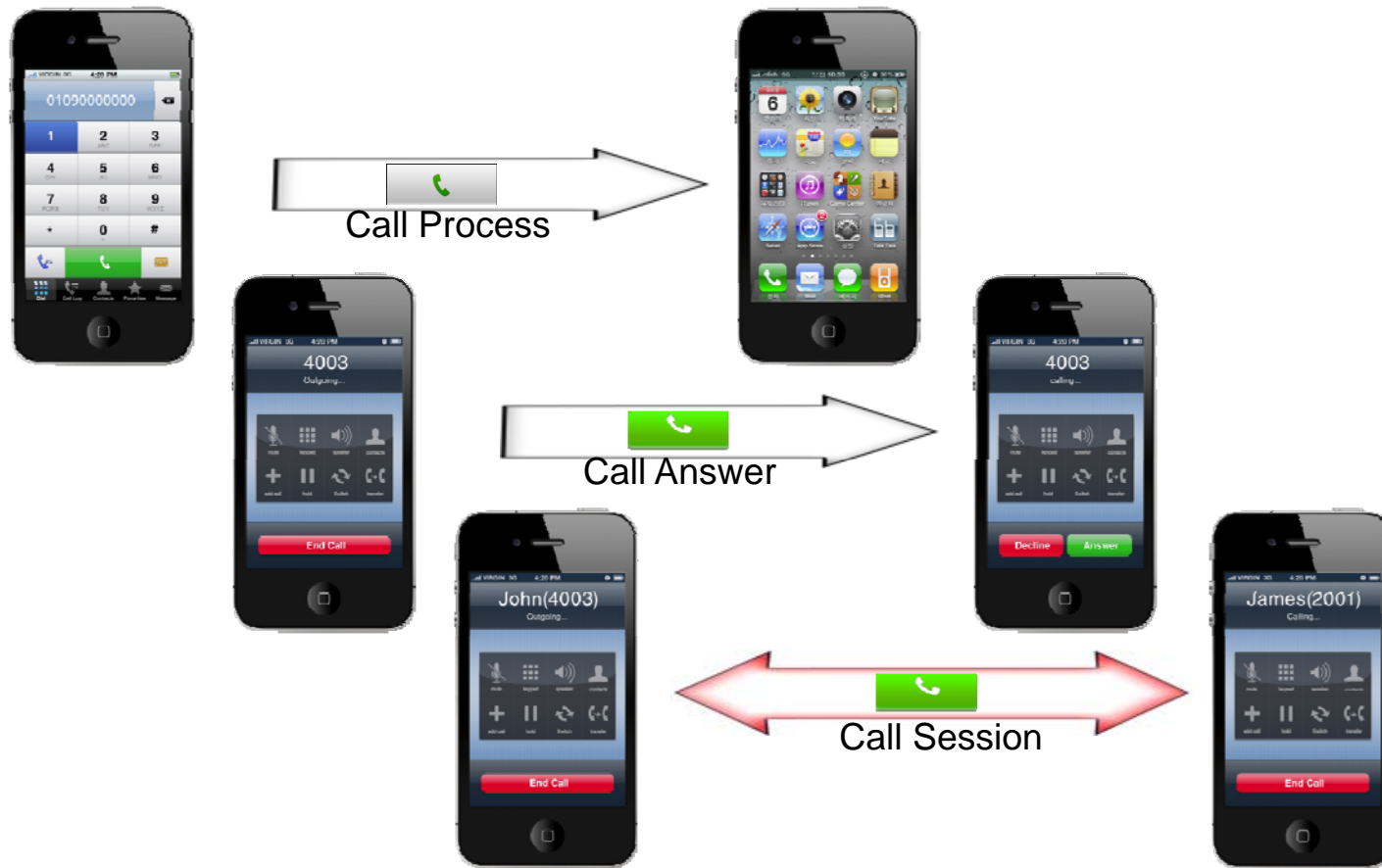
I-Phone - Call Scenario

2. Hold/Resume

Call Session

Hold button

hold

Resume
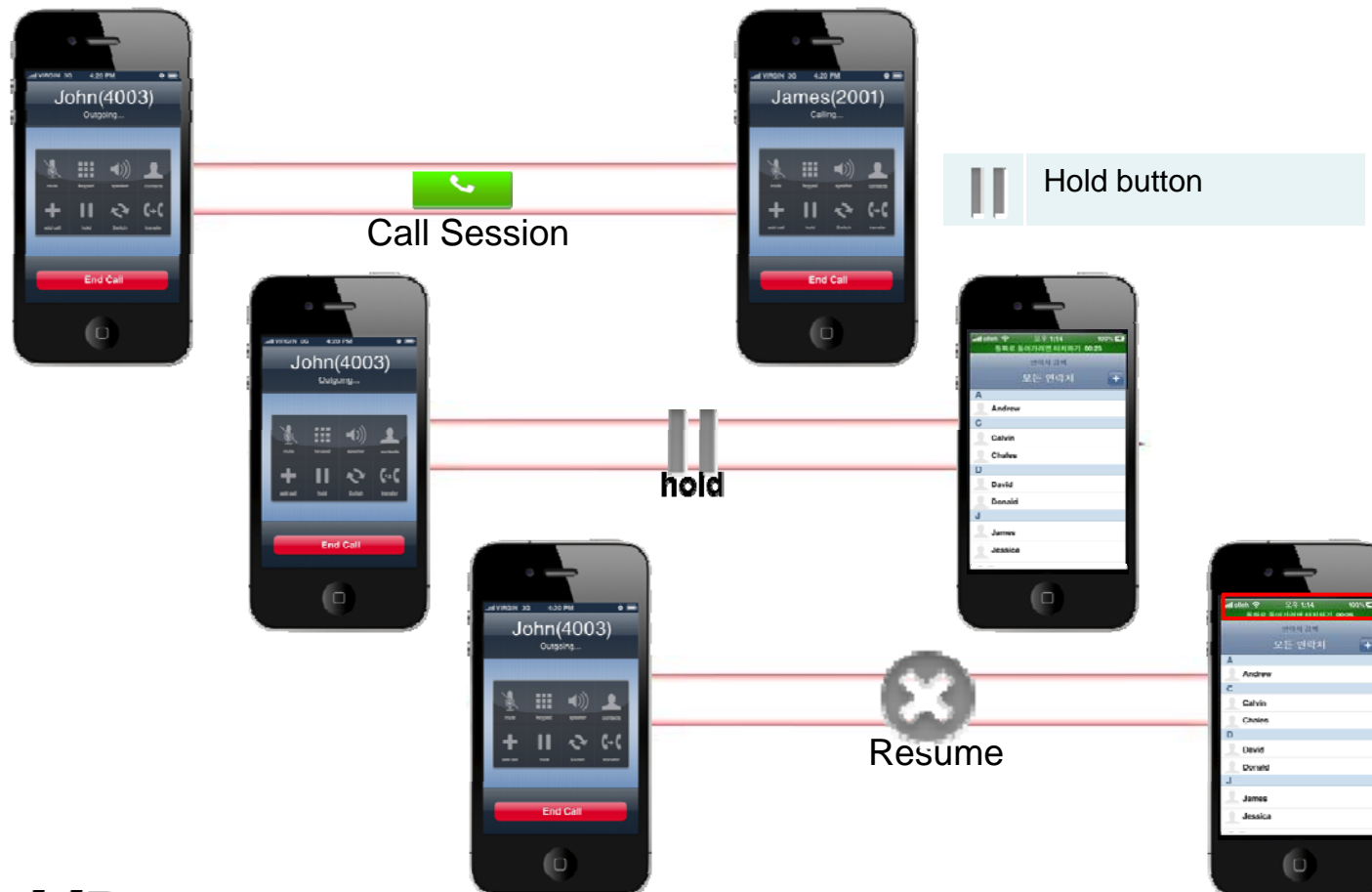
I-Phone - Call Scenario

3. Call Waiting

Call Session

Call Session

Call Process

AP-IP300
IP Phone

I-Phone - Call Scenario

4. Call Transfer

Call Session

Call transfer button

hold

Call Transfer

AP-IP300
IP Phone
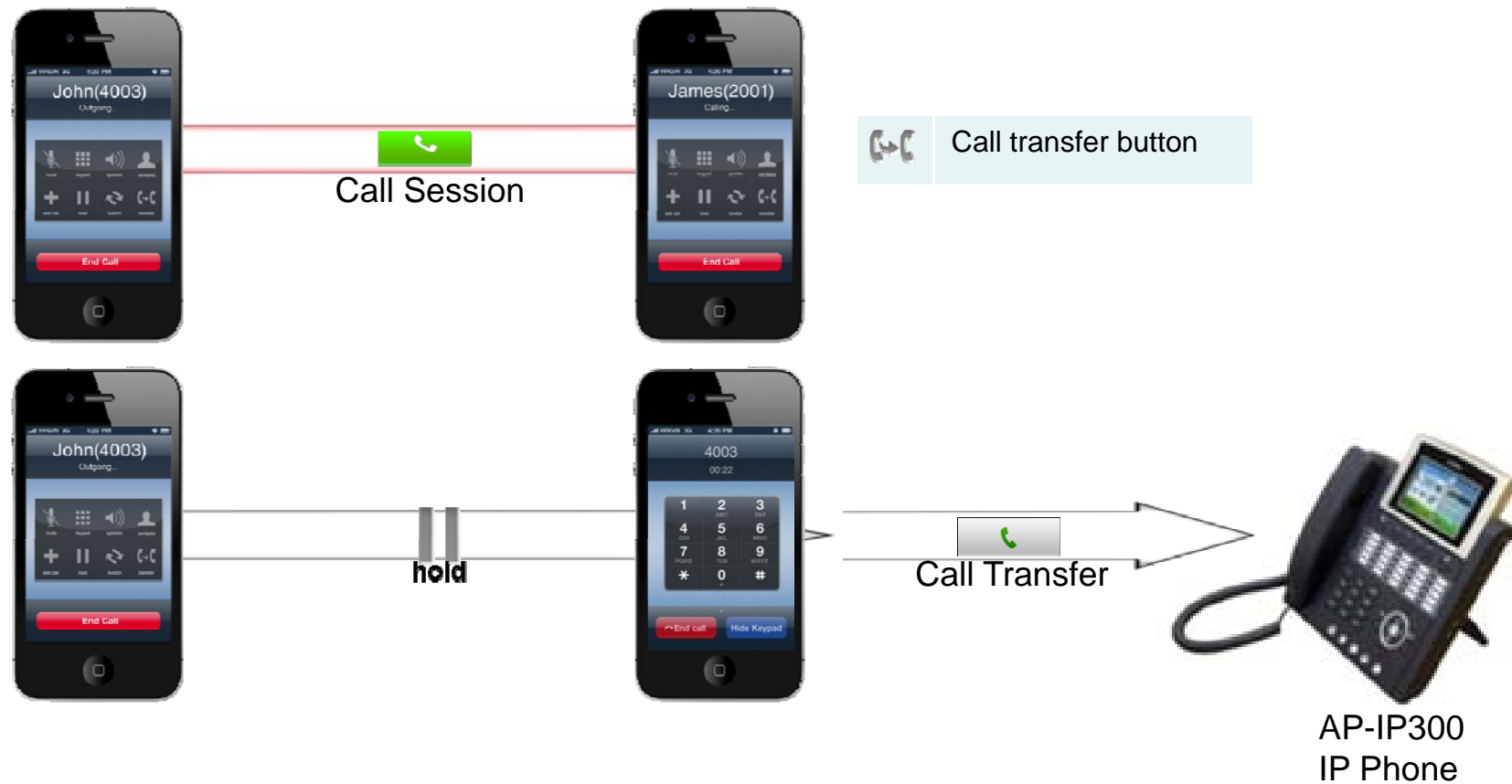
I-Phone - Call Scenario

1-1. Basic PTT call connection

AP-IP300

I-Phone - Call Scenario

1-2. Basic PTT call connection (1)

PTT Call Process

PTT Call Session
(Auto-Answer)

Tip. PTT group call addition
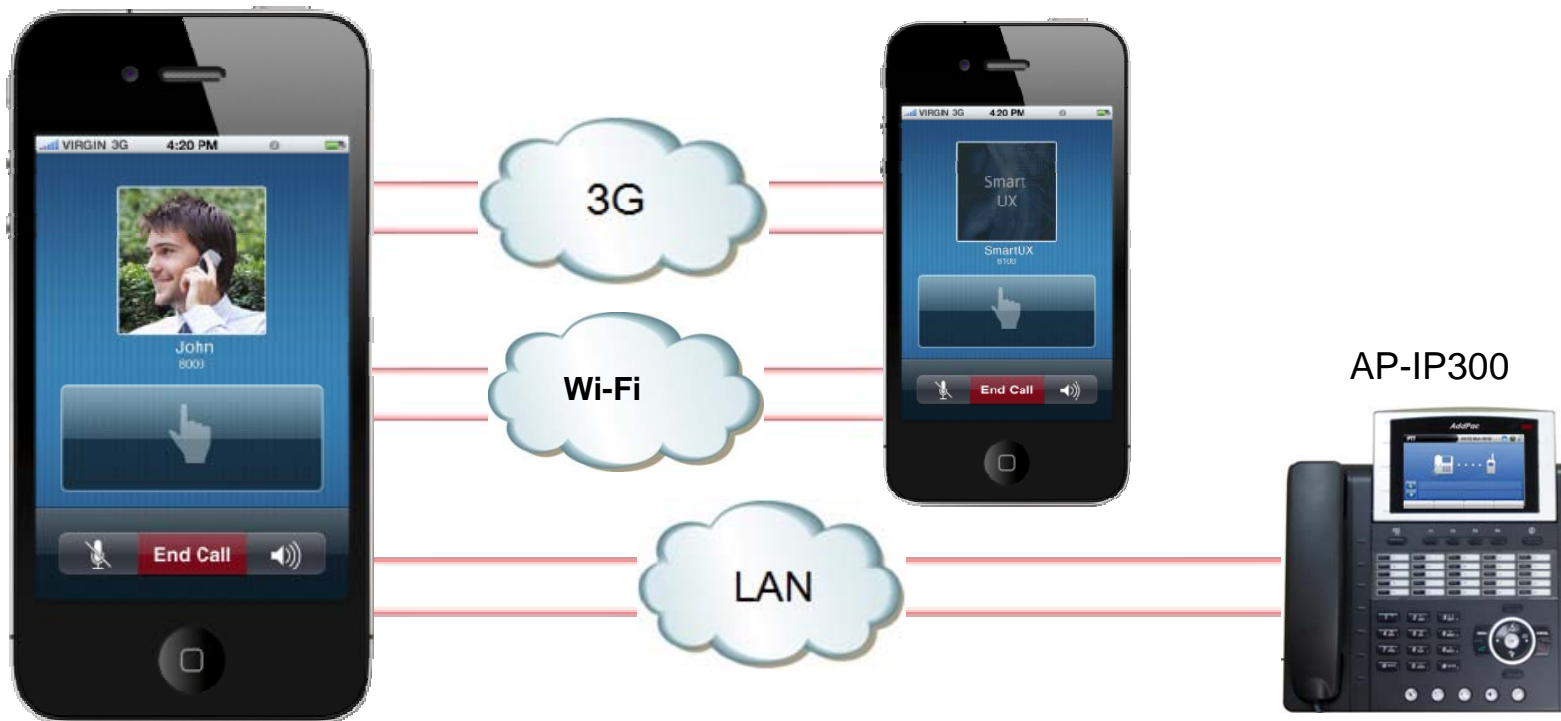
I-Phone - Call Scenario

1-2. Basic PTT call addition(2)

①	PTT button
②	mute
③	Call termination
④	Speaker phone

Tip. Phone Book Photo addition

①	Take Picture
②	Photo selection from internal album
③	Delete Photo

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I-Phone - Call Scenario

1-3. PTT(Push-To-Talk) Speaking Mode(1)

AP-IP300

PTT Call Session   PTT Call Session

AP-IP300

PTT Call Talk   PTT Call Talk

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I-Phone - Call Scenario

1-3. PTT(Push-To-Talk) Speaking Mode (2)

AP-IP300

PTT Call Talk

PTT Call Talk

PTT Call Talk

AP-WP100
WiFi SIP Phone

Radio

Thank you!

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