

Android PTT (Push-to-Talk) over IP Solution



Mobile VPN

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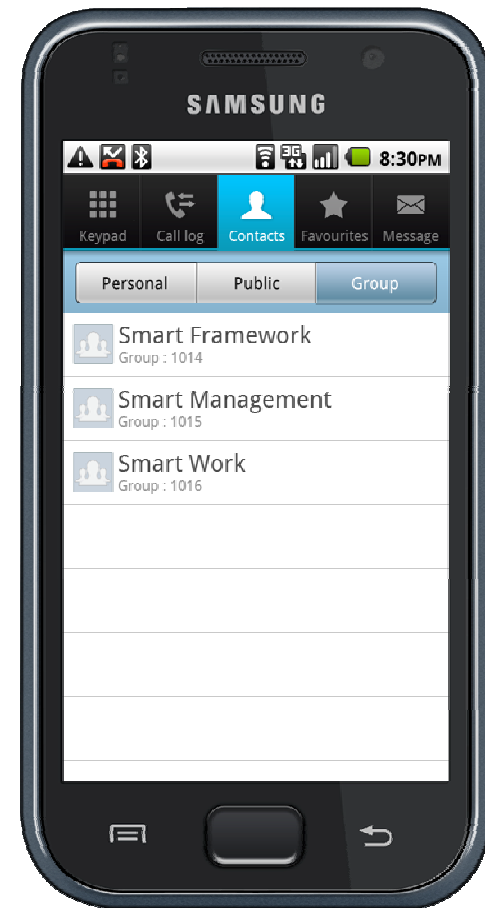
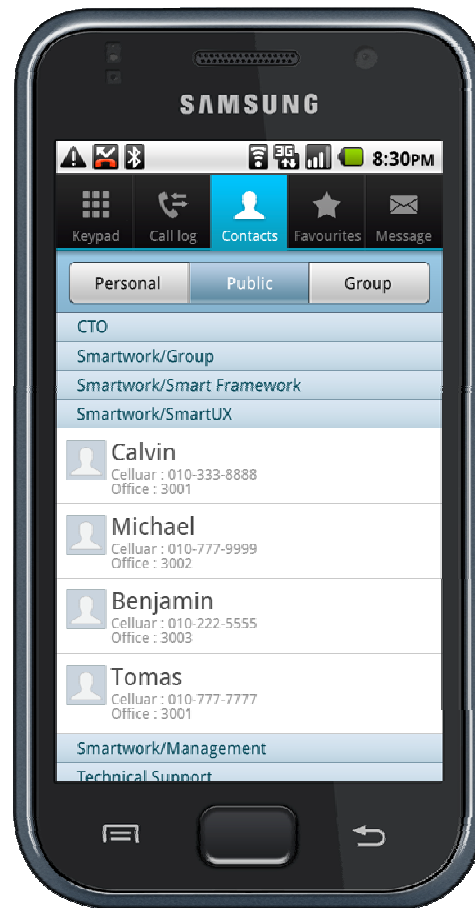
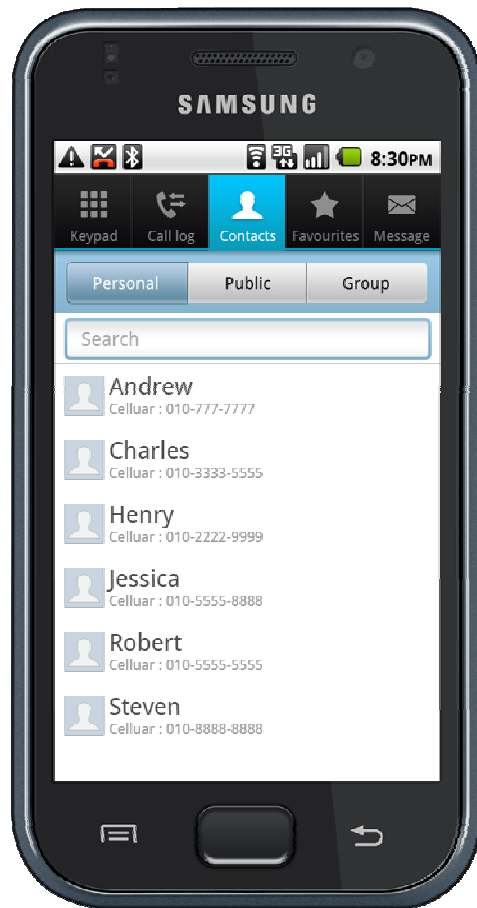
- Android PTT Service Features
- Android PTT Network Diagram
- Android PTT Call Service Examples
- Android PTT Call Scenario
- Android PTT Solution Components
 - IPNext3000 IP-PBX
 - AP-PTS3000 PTT Server
 - LMR(Land-to-Mobile Radio) Gateway for PTT Service
 - AP-IP300 IP Phone for PTT Service
 - Network Management System
- Additional Components for Mobile VPN
 - OpenVPN Server (Linux)
 - OpenVPN Client for Android (over 5.x for 'per App white-list and black-list')

Android PTT Service Features

- Android OS Support (Galaxy S, Galaxy U, etc)
- Wifi based PTT over IP Service
- 3G/LTE 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

Example

- Personal Phone Book is synchronized with built-in Contacts



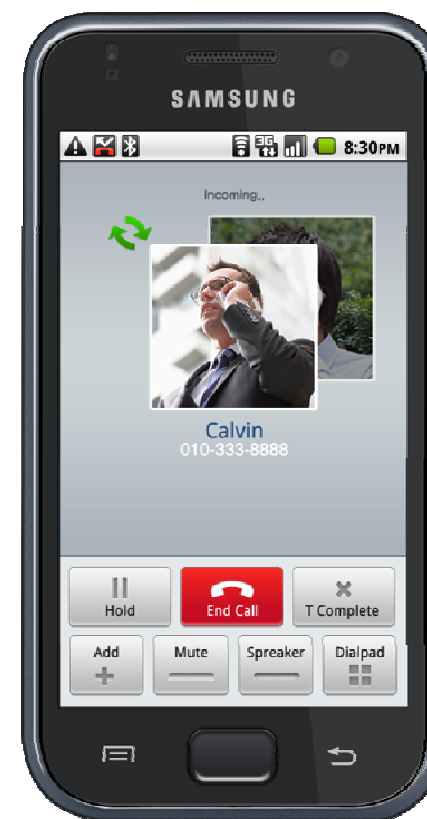
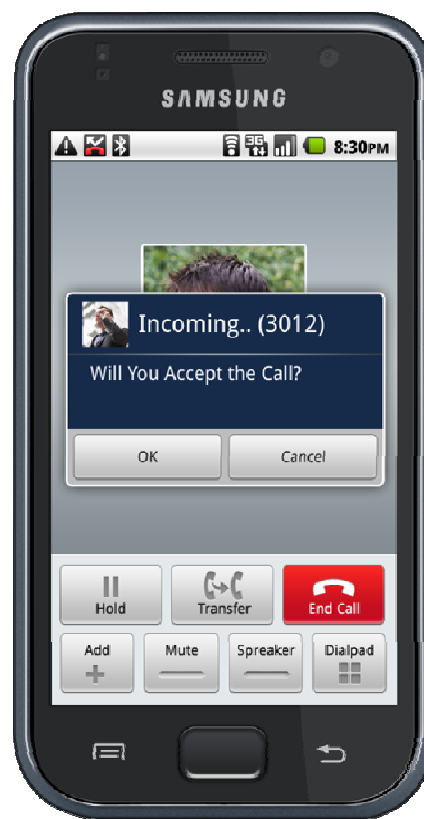
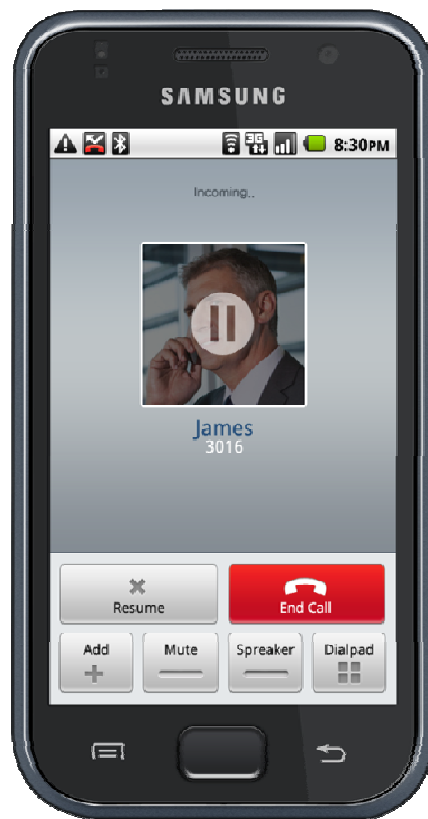
Example

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

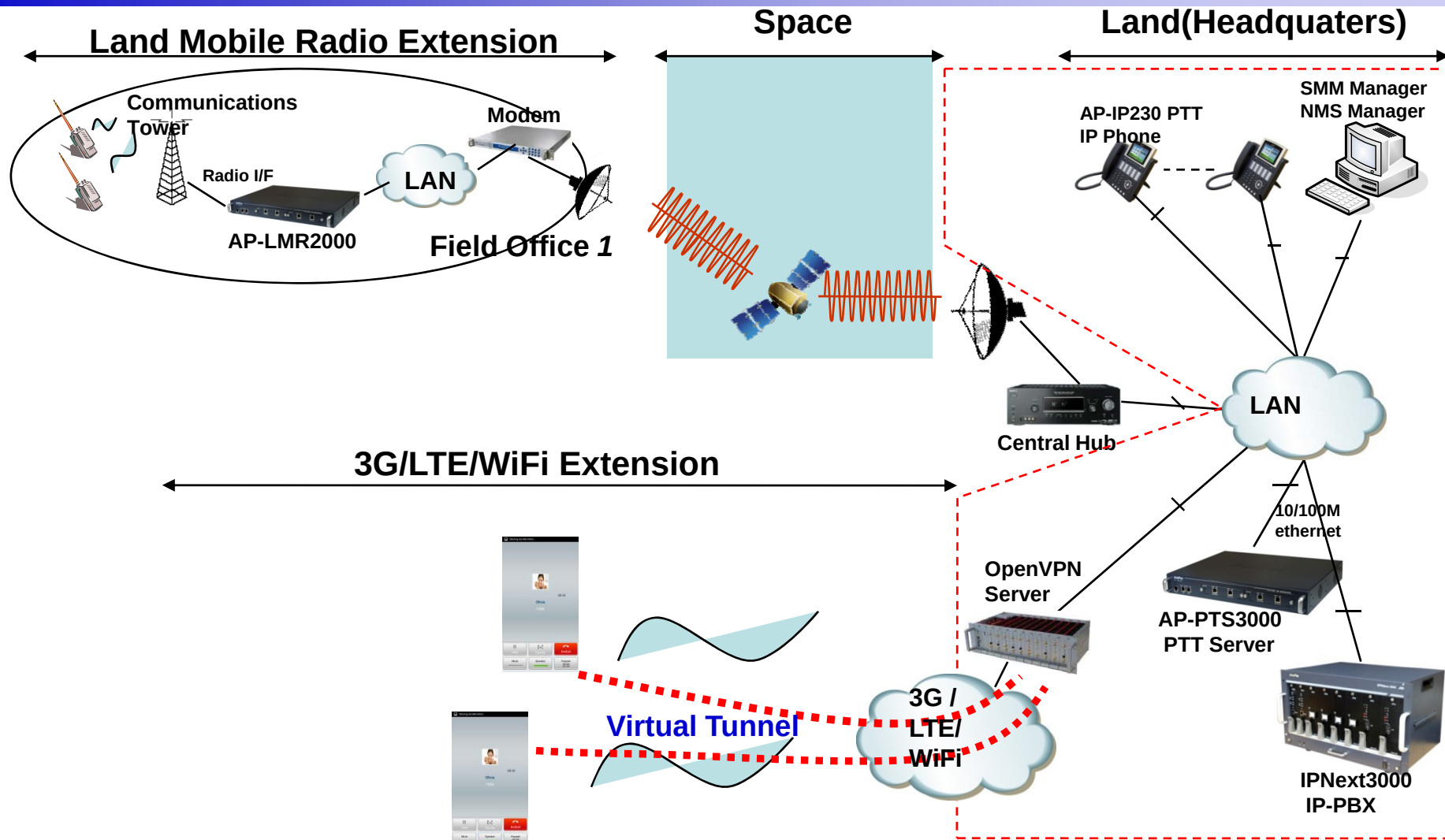


Example

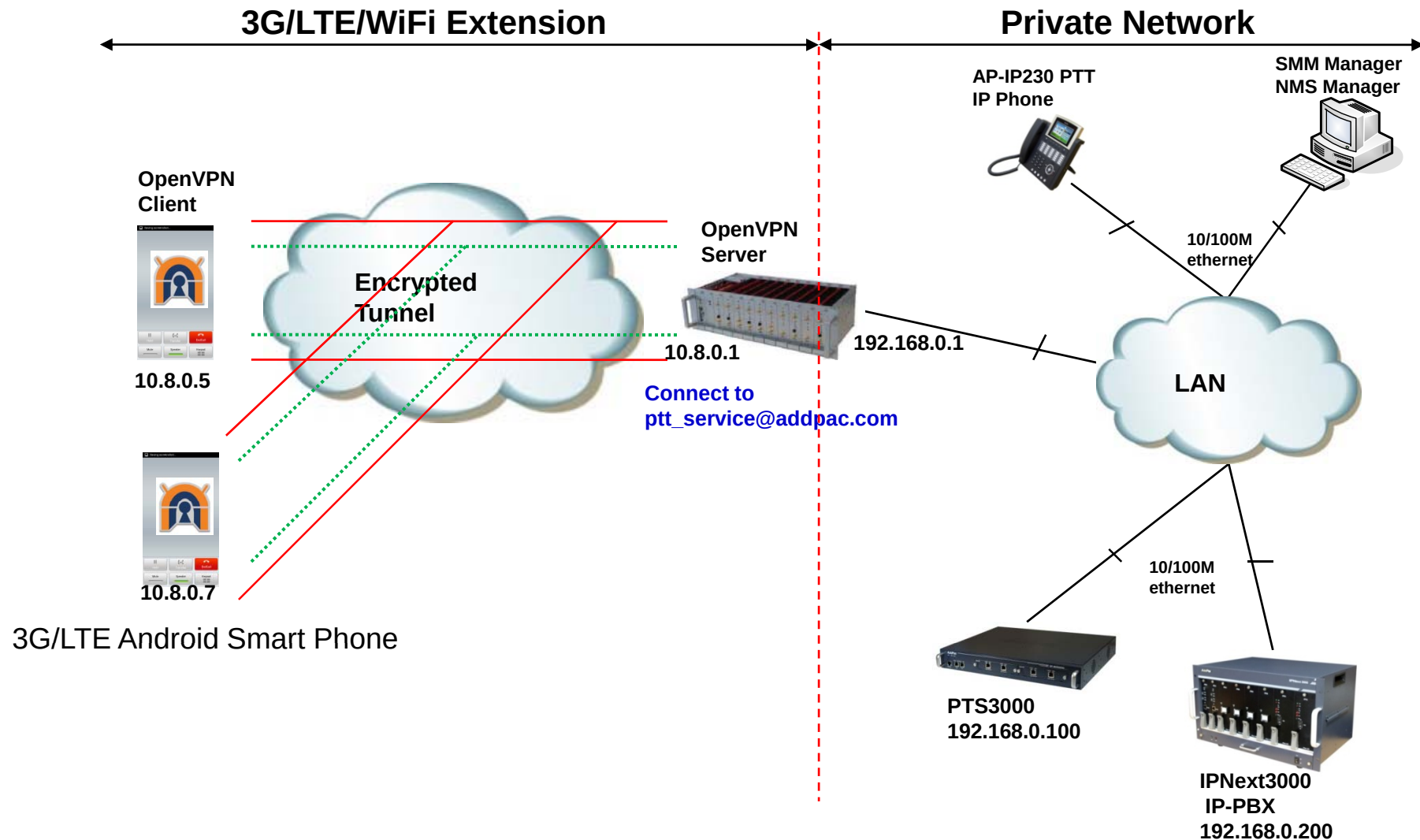
- Support IP-PBX call features
 - Hold/Resume , Transfer , Call Waiting



Android PTT Network Diagram



Android PTT Network Diagram



Android PTT Call Scenario (example)

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

Android PTT - Call Scenario

- Basic Call and Display user profile

- Android Phone(3014: Wi-Fi)



Android Phone(3016:3G/LTE)



Android PTT - Call Scenario

- Hold / Resume

- Android Phone(3014: Wi-Fi)



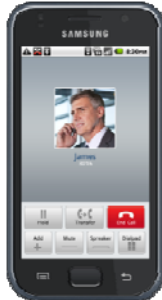
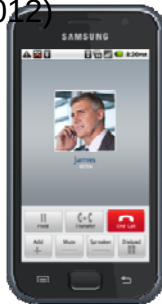
Android Phone(3016:3G/LTE)



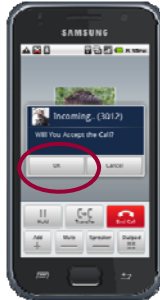
Android PTT - Call Scenario

■ Call Waiting (1)

- Android Phone(3014: Wi-Fi)
(3012)



Android Phone(3016:3G/LTE)



AP-IP300



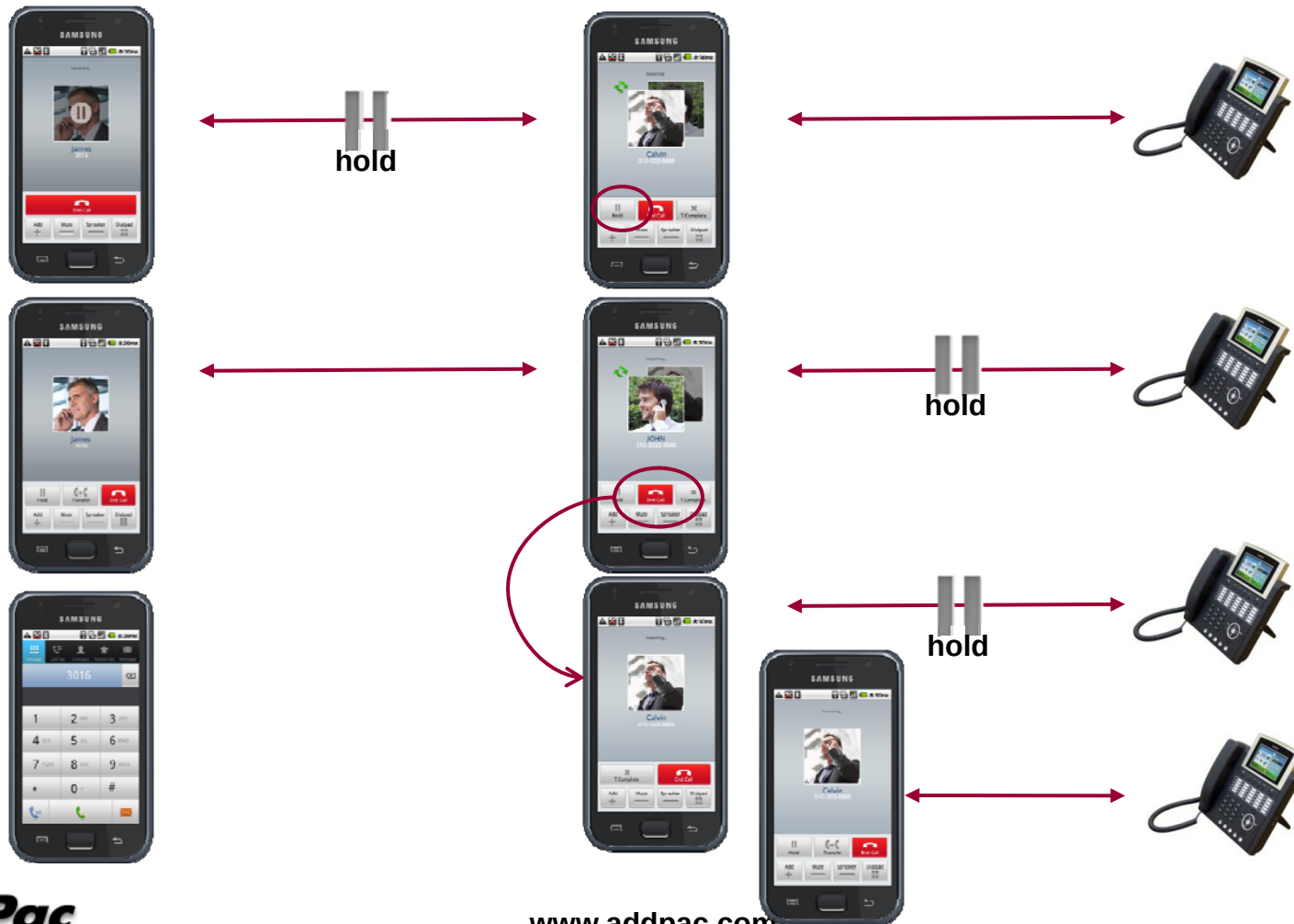
Android PTT - Call Scenario

■ Call Waiting (2)

- Android Phone(3014: Wi-Fi)

Android Phone(3016:3G/LTE)

AP-IP300 (3012)



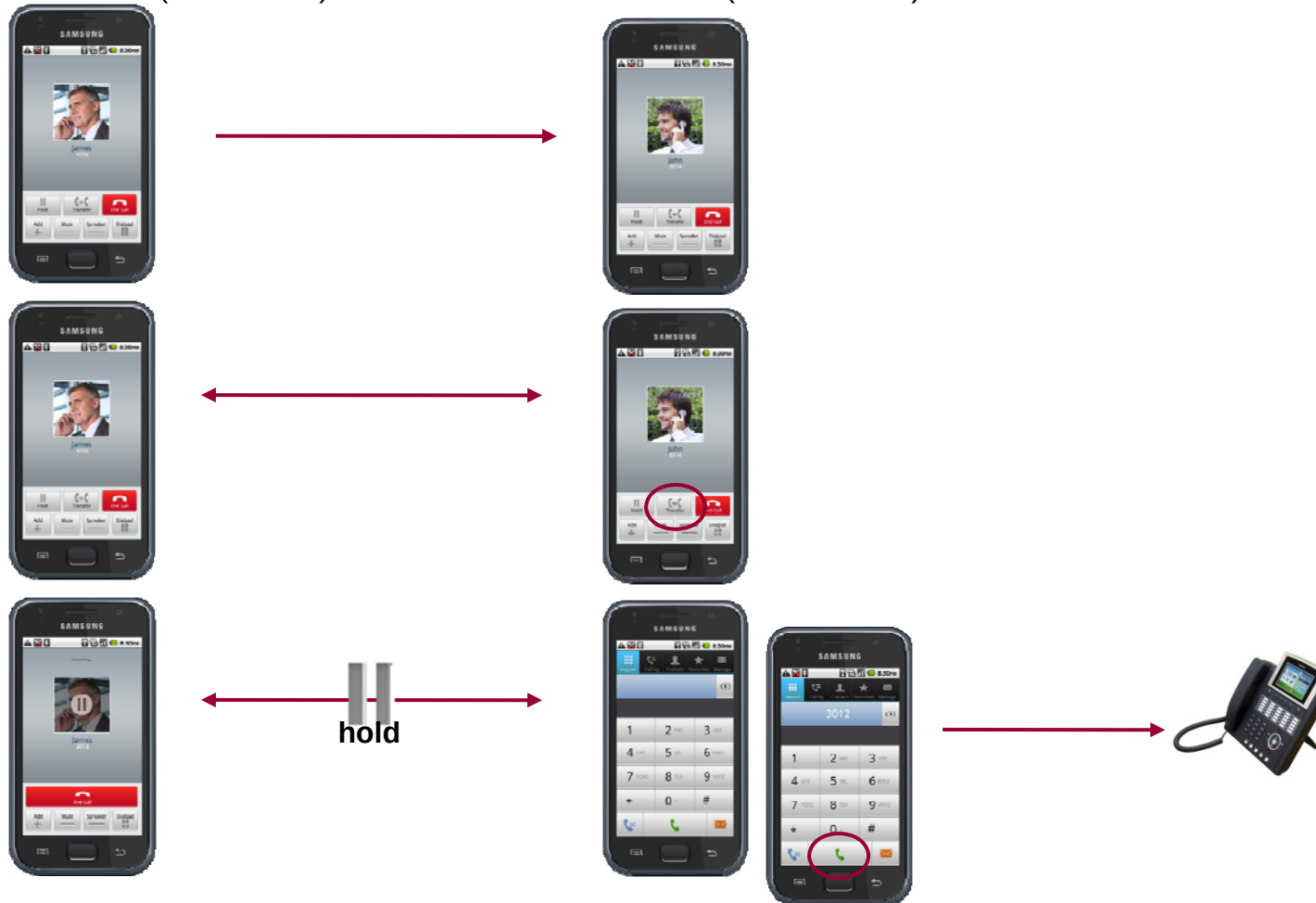
Android PTT - Call Scenario

■ Transfer (1)

- Android Phone(3014: Wi-Fi)

Android Phone(3016:3G/LTE)

AP-IP300 (3012)



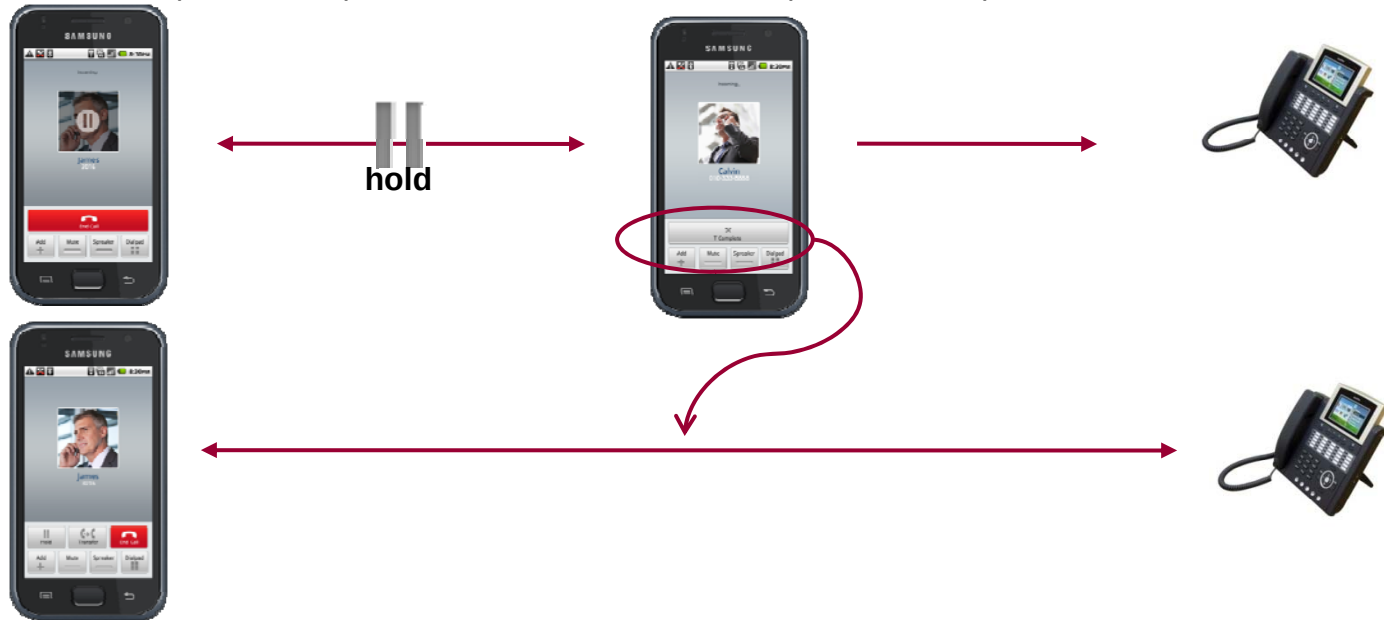
Android PTT - Call Scenario

■ Transfer (2)

- Android Phone(3014: Wi-Fi)

Android Phone(3016:3G/LTE)

AP-IP300 (3012)



Android PTT - Call Scenario

- 3G/LTE to 3G/LTE basic Call

- Android Phone(3014: 3G/LTE)



Android Phone(3016:3G/LTE)



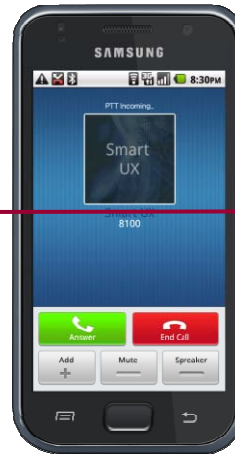
Android PTT - PTT Scenario

- basic Call (Wi-Fi to Wi-Fi)

- Android Phone(3014: Wi-Fi)

Android Phone(3016:Wi-Fi)

AP-IP300 (3012)



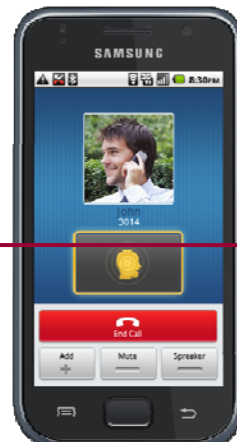
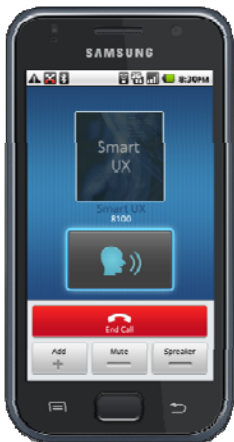
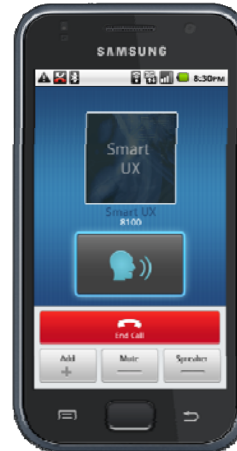
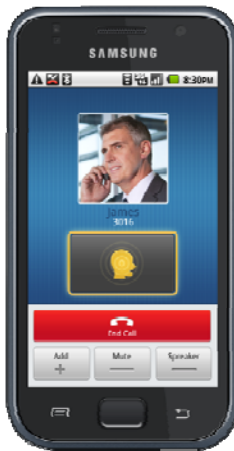
Android PTT - PTT Scenario

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

- Android Phone(3014: Wi-Fi)

Android Phone(3016:Wi-Fi)

AP-IP300 (3012)



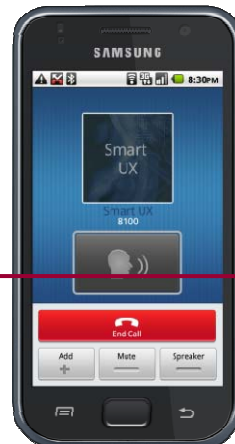
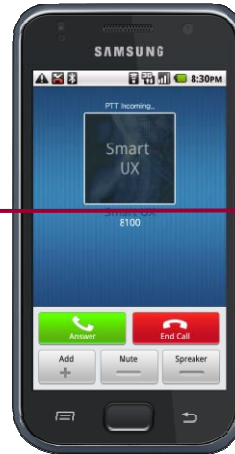
Android PTT - PTT Scenario

- Basic Call (3G/LTE to 3G/LTE)

- Android Phone(3014: 3G)

Android Phone(3016:3G)

AP-IP300 (3012)



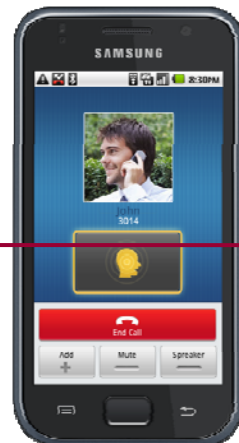
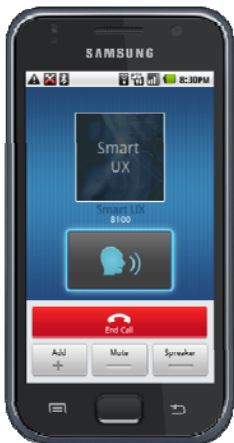
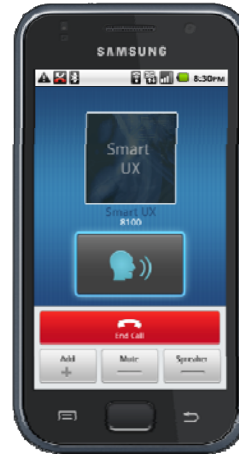
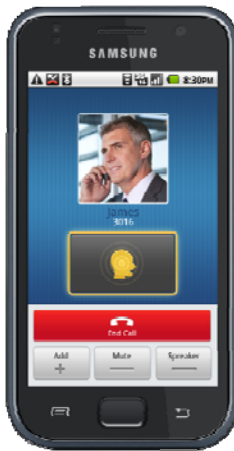
Android PTT - PTT Scenario

- Basic Call (3G/LTE to 3G/LTE)

- Android Phone(3014: 3G)

Android Phone(3016:3G)

AP-IP300 (3012)



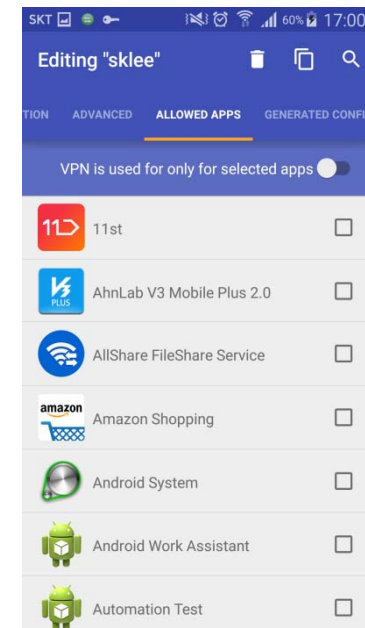
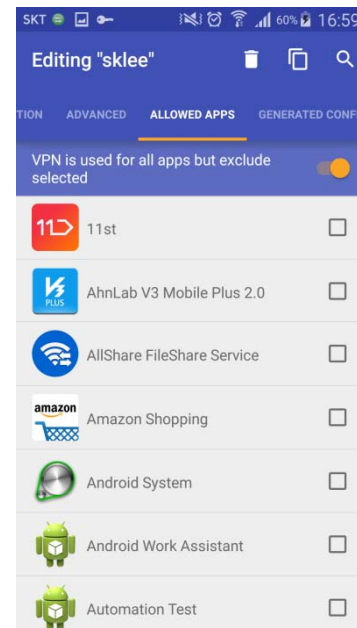


Mobile VPN Service

OpenVPN Service Features

- Service Features
 - Support static, pre-shared keys or TLS-based dynamic key exchange
 - Over NAT or DHCP
 - Over connection-oriented stateful firewalls

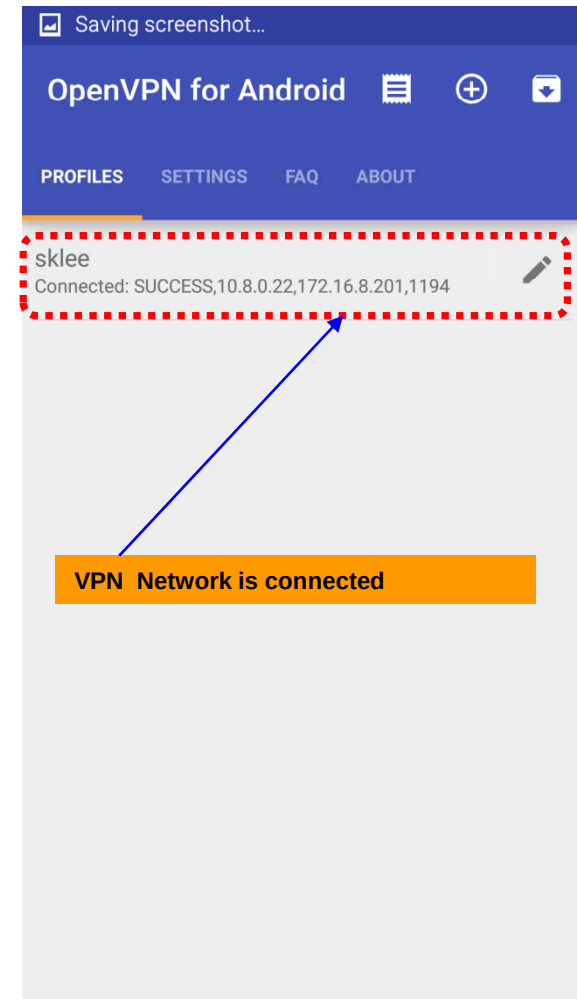
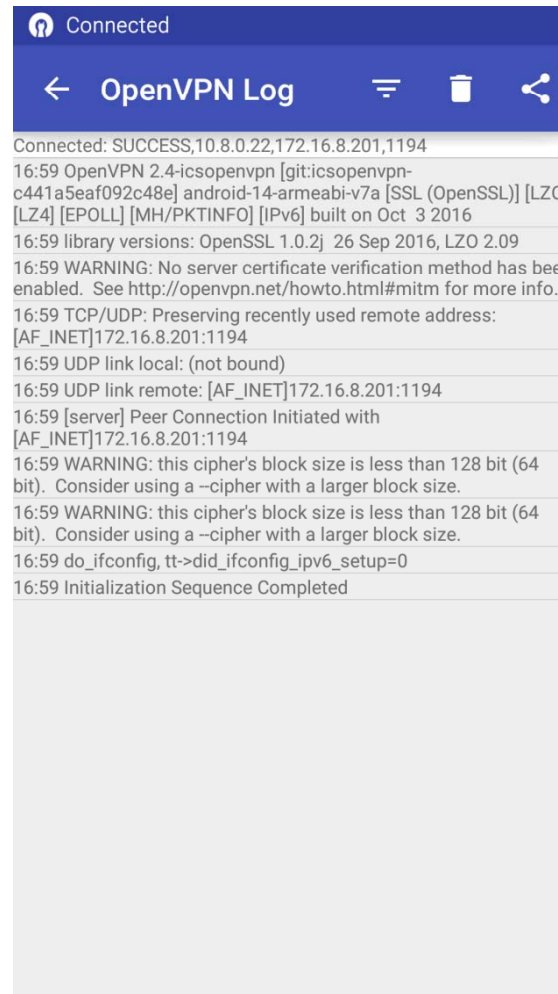
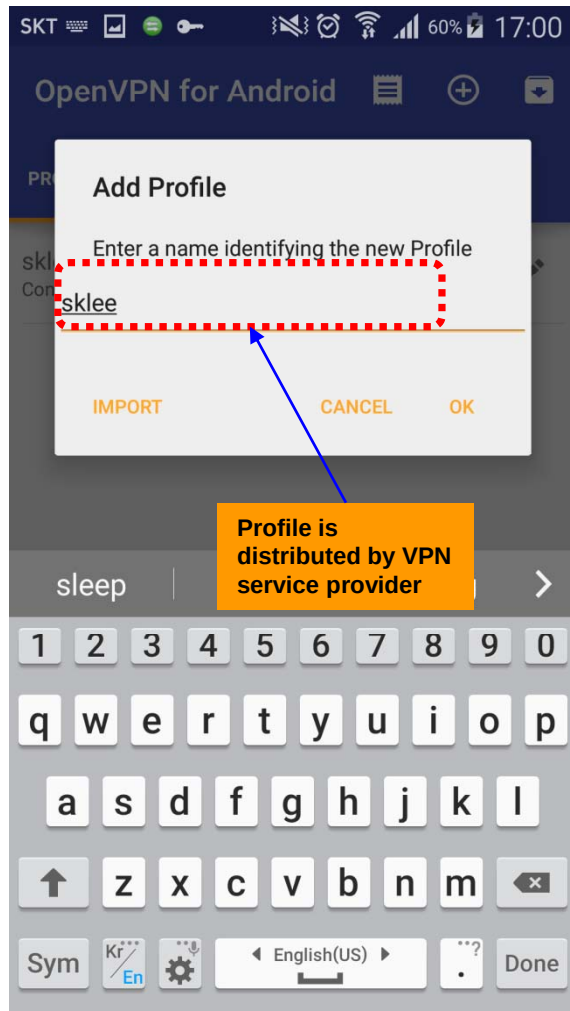
- Server Feature
 - Free(Open source based, GPL)
 - Support Linux OS



- Client Features
 - Support per App white-list / black-list (over Android 5.x)

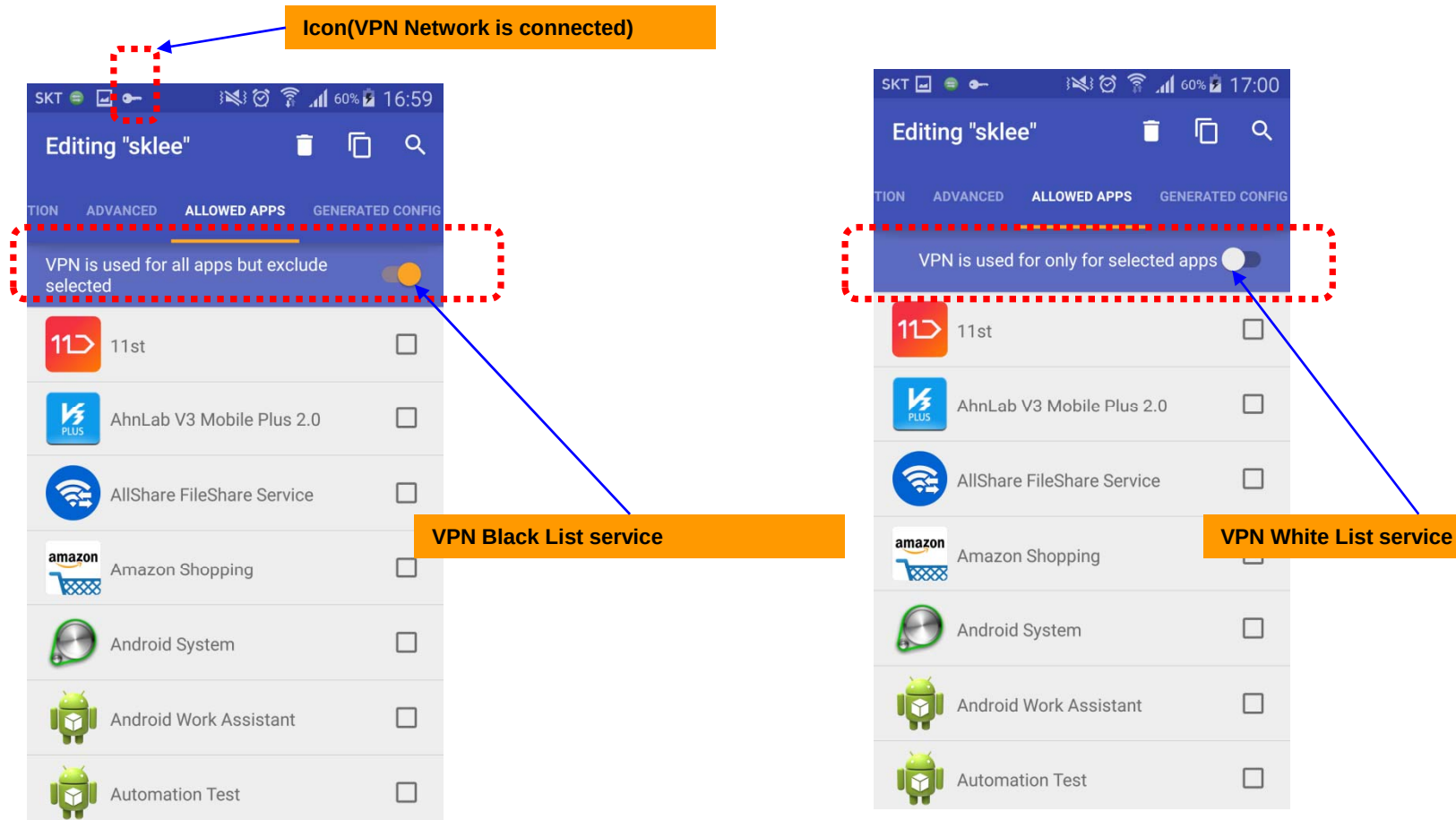


OpenVPN – Add profile / VPN Connect

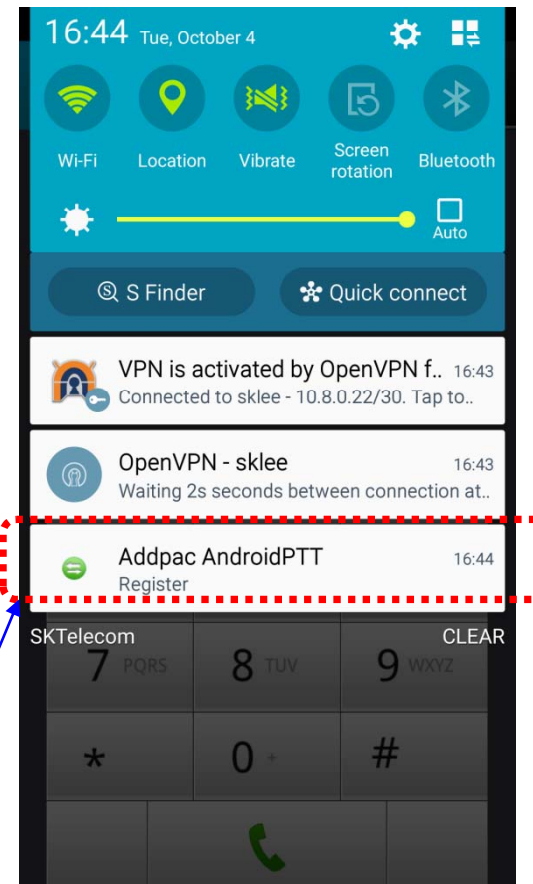
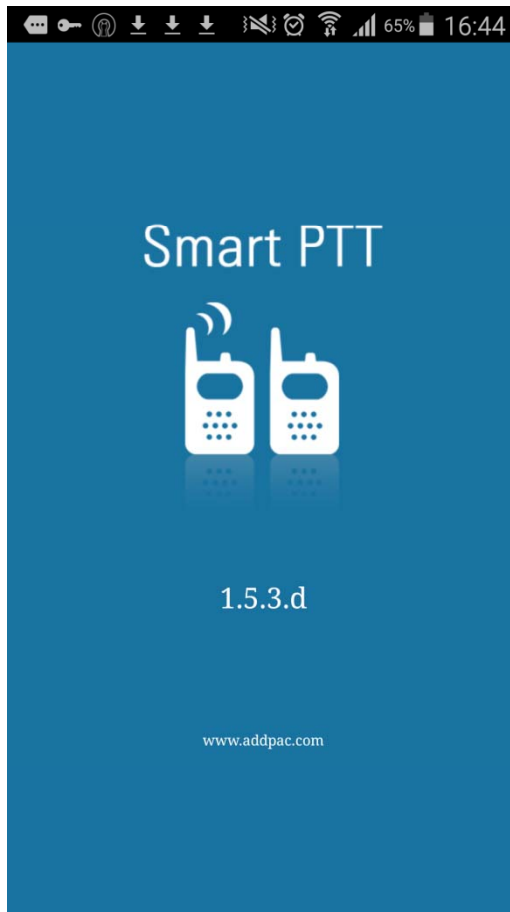


OpenVPN- per-app white/black list

- over 5.x

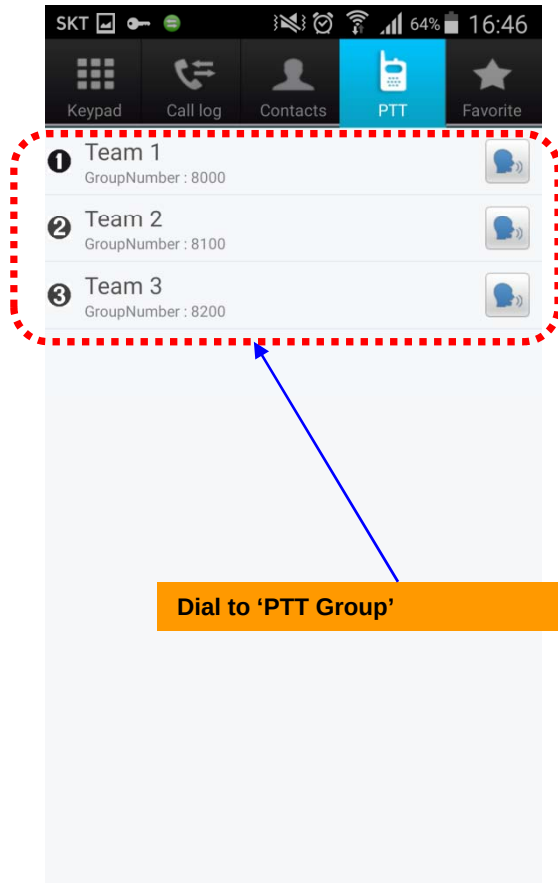


AddPac PTT App – Start / PBX Registered



Registered to 'IP-PBX'

PTT App – PTT Dial / Communication



Dial to 'PTT Group'



Olivia is talking



Thank you!

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