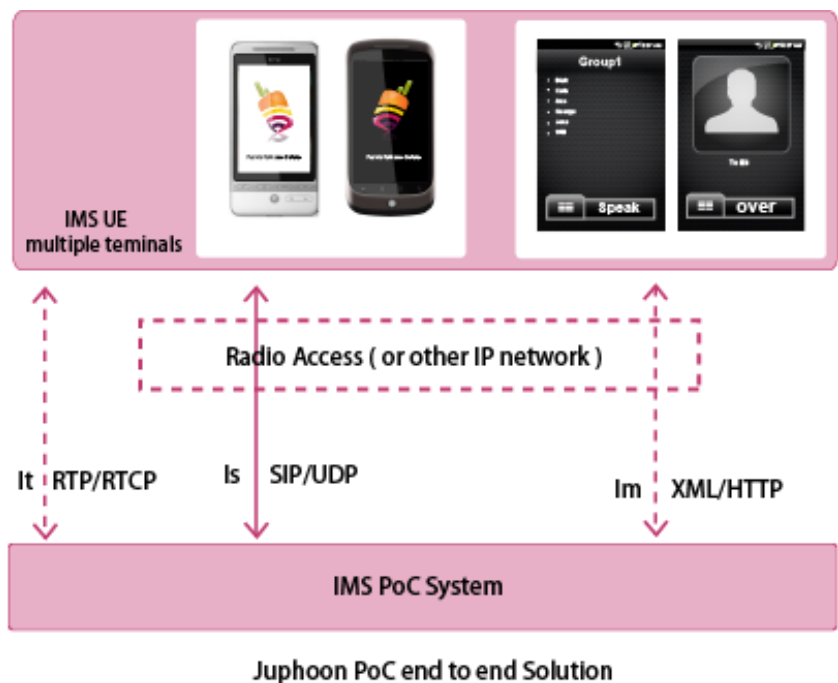


# Juphoon PoC Server Solution

**IPS** IMS PoC System is compliance with the OMA PoC, XDM, Presence regulate the use of an ordinary mobile phone application service PTT intercom system, the full name is the IP Multimedia Subsystem Push to Talk over Cellular System. PoC is a feature similar to walkie-talkie that is over a cellular phone network. It's different with the traditional walkie-talkie: 1) PoC is run on the cellular network; 2) PoC has no restricted of distance.

JPoC (Juphoon PoC) include the IMS UE and IMS AS (IPS) which comply with the OMA PoC Specification. The mainly protocols are:

- SIP protocol, for session control
- HTTP/XCAP protocol, for user resource management
- RTP/RTCP protocol, for media transfer and talk burst control



## Why you need PoC?

Although traditional phone call can meet common voice communication requirement, while in some scenarios, traditional call is still have problems, for instance, too complex to build a session, not easy to talk with a group. PoC comparing the phone call, it has the benefit as follows:

### 1. Buddy status presence

- Can watch buddy status (online, offline).
- Do not waste the time of call waiting if the buddy is offline.

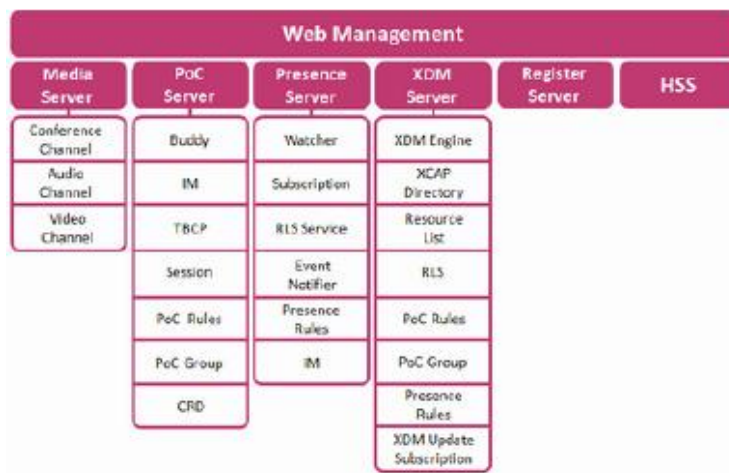
### 2. More fast chat

- Push to talk, do not need wait for connecting

### 3. Group chat

## IMS PoC System Modules

- PoC Server :** To provide PoC session control and management functions, Media flow control, negotiation and transfer functions, voice control function, the implementation of access control policy, providing PoC-related XML document management functions, providing billing information etc functions.
- Media Server :** Media handling mechanism available, including voice and video channels, Media Broadcast and Media storage and other value-added services
- Presence Server :** For receiving, storage and distribution of PoC Client for Presence Information
- XDM Server :** Used to manage contact lists, PoC session is black and white lists, PoC groups and authorization rules for XML documents
- Register Server :** For user registration and authentication, if it is an independent system mode, then only through the interaction with the HSS fast registration service. AS if, as access to IMS core network, Register Server that is, a proxy module, connected to the public authentication Server for user registration and authentication
- HSS :** Mainly to the Register Server, PoC Server, Presence Server provides user information management. If it is, as AS access to IMS core network, HSS that is, a proxy module, through the Diameter message to the public to interact with HSS Module



## High Performance Protocol Stack

The SIP/HTTP/XML/XCAP stacks are implemented by C language, with high performance algorithms, lead the message process speed be improved 3-9 times.

## Standard

Comply 3GPP , OMA , IETF related protocols.

## Capability Scale

Support from hundreds provision users to millions provision users.

## Running Environment

Support Windows Server / Linux / Unix

## System Management

Manage and monitor the system by web browser.