

# VOWIFI

Leverage Wi-Fi for voice calling







## Operators' Challenges

- Cellular networks are rapidly becoming saturated.
- LTE will not solve in-building coverage problems.
- Subscribers prefer to use Skype when roaming abroad.
- Native Wi-Fi Calling will not work in SIM-less devices.



## Why is this important?

### For Mobile Operators

- Offload traffic from cellular network to Wi-Fi.
- Increase network coverage.
- Reduce cost in femtocells or repeaters.
- Increase customer satisfaction.
- Offer an alternative to Skype.

### For Subscribers

- No more network coverage problems.
- Calls and messages in multi-devices.
- Ability to call anyone and be reached anywhere with their own phone number.
- Keep a unique voice provider.







## Features



### Whitelist Wi-Fi Network

- User selects the trusted Wi-Fi networks to use the service.
- App registers automatically for VoIP-in and SMS-in when entering whitelisted Wi-Fi networks.



### VoIP out

- App initiated calls are routed to the CS Network.
- User continues to make calls from a phone without cellular network coverage.
- User can also make calls from the PC, Tablet and Web browser.



### VoIP in

- User receives calls inside the App when connected to Wi-Fi.
- Rings sequentially or in parallel on all user devices.



### SMS out

- Send text messages from a phone even without cellular network coverage, by using a Wi-Fi hotspot.
- Send text messages also from the PC, Tablet and Web browser.



### SMS in

- WCAS registers message copy in the SMSC.
- SMS is received in all registered user devices.
- Android App is able to intercept native SMS.



### Multi-device VoWiFi

- iPhone, Android, iPad, Android Tablet, Windows, Mac and all Web browsers.



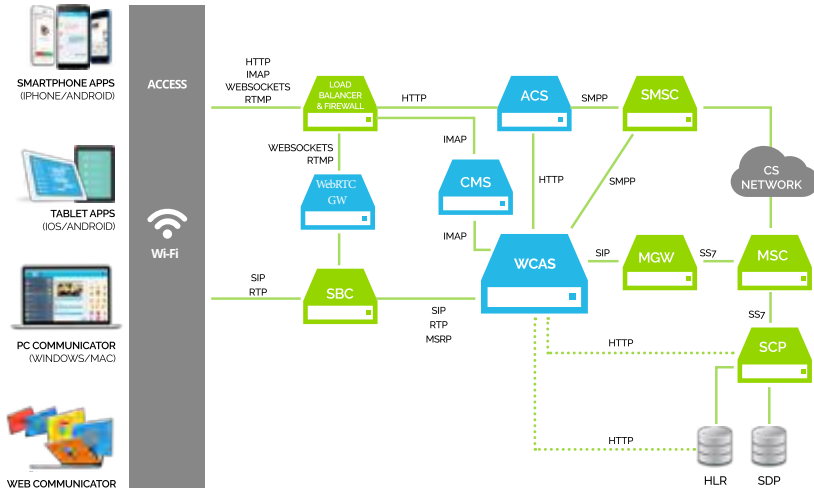
### Connection to ePDG

- IPSec tunnel between WIT Apps and the ePDG using EAP-TLS
- Use certificates to remove the dependency on SIM authentication, allowing SIM-less devices.

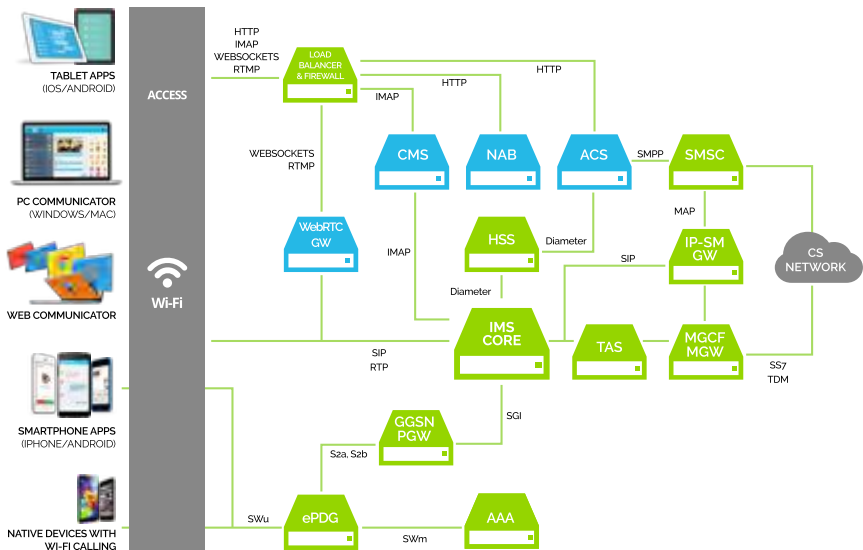


# Deployment Scenarios

## Pre-IMS Network



## IMS Network





## WIT VoWiFi vs Native Wi-Fi Calling

- Users are able to select the Wi-Fi networks.
- WIT solution works on multi-device, smartphones, tablets, PCs and web browsers.
- Lower investment with less impact on the core network.
- Possibility to have rich in-call services, like image, video and location share.



## Why should you launch VoWiFi?

- Avoid coverage problems and allow users to take advantage of good WiFi in office and at home.
- Enable "roam like home" at reasonable prices.
- Be innovative and allow communications from all user devices.



## Why WIT?

- Best-in-class User Experience.
- Track record on innovation.
- Re-use the same ePDG infrastructure as native Wi-Fi calling.
- 15 years of experience on IP communications.





For more information please visit: [vowifi.wit-software.com](http://vowifi.wit-software.com)

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