

VOICE OVER LONG TERM EVOLUTION

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ABSTRACT

This topic suggest a brief introduction of VOLTE(voice over long term evolution), Accordingly the long term evolution was described by allowing large access rate and less concealment(latency), large efficiency utilizing of radio resource network Which defined less cost transmit bit and proper voice efficiency. All services and application are executed as packet switching domain and circuit switches services are neglected, the one voice substitution was generated by increasing of number of communication ISP (Internet services provider).

The solving of problem is IMS based in the conclusion and is defined by 3gpp, which is the best way to communicating with the end-users which provide of reliability, availability, when shifting from current switch circuit to IP (internet protocol) LTE services

The GSMA (Global System for Mobile Association) take over the one voice LTE in 2010, and it was supported as many organization, vendors, mobile service providers etc.

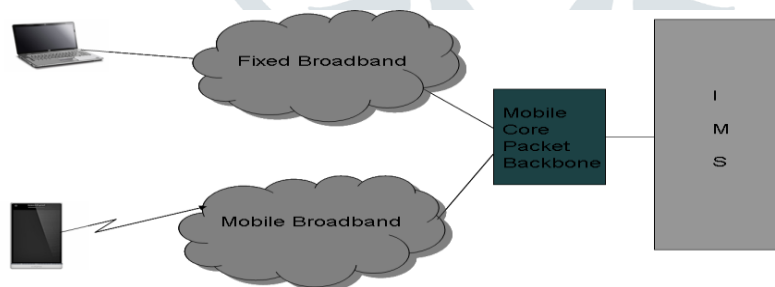
One voice is generally action performed to obtain a result by GSMA voice over VOLTE solution bases on high performance and acceptance by industry. The IP based services put a various restrictions on services. Quality, air interface by voice over LTE.

Keywords: IMS, VOLTE, 2G, 3G, 4G

INTRODUCTION

The LTE voice solution given the permission to the developed from switch circuit (CS) to MSS (Mobile Switch Solution) in Wideband Code Division Multiple Access (WCDMA) networks in the direction of IMS core network. CS service does not support LTE, As a result, packet switch service is delivered as a voice service by IMS (IP Multi Media Subsystem).

The voice call is grab by IMS through Wi-Fi and is known as VOLGA (Generic Access Network). When there is need to evolving to operators, then MSS is also indulged with voice over LTE

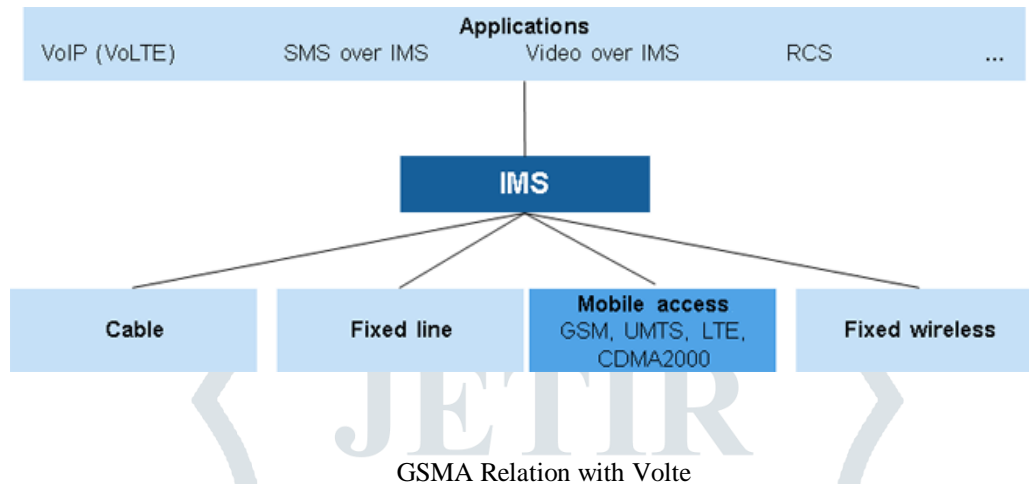


VOICE OVER LTE AND IP MULTIMEDIA SUBSYSTEM (IMS)

Mobile operator are surrounding networks since current 2g/3g switched circuit networks to VOLTE packet service network and they generally want to convert the voice over in LTE using IMS. IMS help the significant benefit for subscriber that network is enabled VOLTE services in premium High Definition voice, capabilities like Roaming and transcoding to run newly service revenues.

VOLTE AND IMS FEATURES AND BENEFITS

- It allows function like transcoding and normalization which is used for media controls and protocols to confine that network can deliver best HD call quality.
- It also enables the best use of high definition voice and EVS voice codec, merging deliver a good quality experience (QOE) for the users competing with over-The-Services (OTT).
- It protect the network transmission like peer to peer and user access with network topology, internet protocol security encryption (IPsec).



Our aim is to provide a consistency approach to reach service for LTE. There is some following based principle.

- Enable Interconnection and Roaming: without seam it might be fulfill in IP world. If all parties used to single normal implementation of every sharing network and devices.
- Promote Scale: It is for video calling, text messaging and any kind of work implementation, GSMA work throughout various community of 6 million+ interconnection growing devices and network.
- Reduce Complexity: It is reduce the complexity between consumers with best standard quality experience. Lacking of deployed between devices and networks deduct congestion from all over quality voice and end to end HD voice.
- Consistency: It allows more sufficient and efficient use of quality voice than traditional voice.

CONCLUSION

The LTE Technology in India played a major role in Telecom industries, providing the 4g networks in individual cities and village. The people from lower class is also utilize of full internet connectivity with good network speed through LTE and in standard quality HD voice (VOLTE). The infrastructure of 4g wireless connectivity almost drastically increase but somewhere the rural areas is not properly developed as the telecom industries reaches the network but the speed is somewhere is less.

Volte has emerged in India with providing full support of IMS (IP Multimedia Subsystem) and network like GSMA (Global System for Mobile Application) which manages the industrial programs to collaborate with members to achieve a scalable development and interoperability for new mobile technologies, whereas IMS provide voice call services through circuit switching network instead of packet switch network.