At-a-Glance

End-To-End Cloud VoLTE Automation

- Validated architecture and solutions
- Virtualization and providing virtualization infrastructure (infrastructure as a service [IaaS])
- System orchestration
- End-to-end service orchestration
- End-to-end systems operation documentation
- Complete integrated service offering, and installation and operation
- Customization and professional services
- Capability for preinstallation and staging

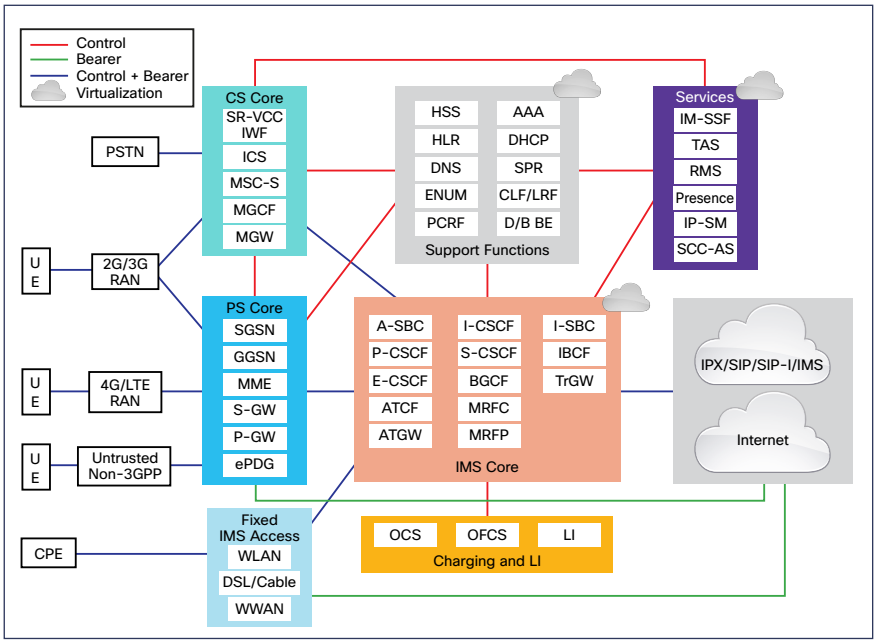
Cisco Telco Cloud for VoLTE

Why VoLTE?

According to the Global mobile Suppliers Association (GSA), by the close of 2014 there were 360 mobile operators that had commercially launched LTE networks and service in 124 countries. Of those mobile operators only 14 had a commercially launched voice over LTE (VoLTE) service. Voice continues to be the most popular mobile service, but LTE systems are all-IP and do not have any circuit-switched capabilities. This change implies a significant complexity and skilled staff "gap" for operators.

Most industry experts agree that the best way to deliver VoLTE is to use an IP Multimedia Subsystem (IMS). However, there lies a challenge to migrate 2G and 3G legacy voice to VoLTE with multivendor products. With voice and messaging revenues being depleted by over-the-top content (OTT) operators, VoLTE needs to roll out now.

Figure 1. VoLTE Functional Diagram for Cisco Telco Cloud



Cisco Telco Cloud for VoLTE is a unique automated architectural offering that combines the reliability, scalability, and availability of the cloud and the flexibility to expand on-demand multidimensional VoLTE services. It accelerates the adoption of IMS and fixed mobile convergence (FMC) and also the convergence of IP Voice, video, and data on a single mobile infrastructure.

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"The most important trend underway in the telecom voice market is VoLTE. It is stimulating significant spending both in the wireless infrastructure, but also in the wireline infrastructure."

Chris DePuy
Analyst at Dell'Oro Group

Mobile operators can gain momentum in migrations from legacy 2G and 3G circuit-switched voice to VoLTE, as well as reduce costs in system integration, validation, and deployment. Cisco Telco Cloud for VoLTE also decreases the time to deliver new subscriber services to beat the OTT mobile VoIP (mVoIP) operators.

Cisco Telco Cloud for VoLTE masks network complexity and shortage of a skilled staff by providing automation and orchestration through its elastic capabilities while complying with standards and regulatory requirements. It can be offered as a private or a hybrid cloud.

Cisco Services

Services from Cisco and our partners help you get the most value from your Cisco Telco Cloud solution. Quickly and cost-effectively.

We can help you solidify your vision. Create a strategy, roadmap, and scalable design with our VoLTE Assessment and Design Services. Our Deployment Service can help you to successfully integrate and migrate voice services smoothly. Simplify your voice architecture and operations with our Systems Integration, Optimization, Operational Support and Managed Services capabilities.

We deliver award-winning services with a history of market changing innovation, including software-enabled smart services built through more than 28 years of industry leadership. We're known for our globally recognized expertise in engineering Telco Cloud solutions and managing large system and network integration projects.

Next Steps

For additional information, visit http://www.cisco.com/go/mobile.

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