Get people talking.
On pretty much anything.

VoLTE is the foundation of communication evolution

Voice-over-LTE (VoLTE) is becoming the mainstream technology for IP-based communication services. With the advent of LTE, operators are introducing a broadband only technology, enabling a high-definition voice and video communication experience across a multitude of endpoints and devices.

The essential question for operators is how to take advantage of the mobile broadband opportunities enabled by LTE, while maintaining and growing their current communication revenues with more attractive communication packages demanded by the end users. New LTE devices supporting VoLTE capabilities are launched globally and users expect more advanced high-quality services to stay with their operator. VoLTE is a starting point for the evolution of communication services.

End-user propositions are gradually developing into complete service bundles, where operators group devices, data plans, communication services, etc. together. Simultaneous high-speed data services and high quality communication services, including HD voice, HD+ voice (EVS), IP-based messaging, IP video communication and content sharing during calls, will be required to grow ARPU and prevent churn. The ability to serve consumer and enterprise users, independent of access network (LTE, Wi-Fi, 2G/3G, and 5G) and which of their multiple devices they are using, will drive the need to seamlessly provide a consistent service over a range of emerging use cases.

To satisfy the scale and service agility required to address growing consumer and enterprise market opportunities, it is paramount that a VoLTE solution is designed and optimized for automated cloud deployment and maintenance.

VoLTE will also support voice for IoT using Cat-M1. Now and throughout the introduction of 5G, telephony services will be addressed by IMS-based VoLTE services.

Ericsson is your partner

The Ericsson VoLTE solution is a complete offering to efficiently serve the market demands of today, as well as set the foundation for the communication services of tomorrow.

Key challenges

- Evolving communication services
  Grow ARPU and prevent churn through providing evolved services.

- Managing user identity across devices seamlessly
  The market demands complex use cases spanning multiple devices, multiple identities, and multiple users.

- Agile and efficient network
  VoLTE networks must be optimized to take advantage of cloud design principles to enable fast service launch and efficient management.

- Address IoT and 5G
  Along with current market use cases, VoLTE is the foundation for IoT voice services over Cat-M1 as well as 5G.

Voice evolution and drivers for transformation

- Desktop phone
- Mobile phone
- Smartphone
- Multi-device
- Multi-persona
- Group number
- eSIM
- Bots
- Voice control
- Wholesale
- Industry use cases
- Cat-M1
- Augmented reality
- Virtual reality

Source: Capgemini: Tangled Web of IT Applications Stunts Digital Transformation
Solution overview

The Ericsson VoLTE offering enables evolved user communication using a multitude of device types with diverse form factors, running over any access technology and dynamically utilizing the identities that the user wants to be reachable on.

Solution features

The Ericsson VoLTE solution encompasses all of the communication core network components and professional services necessary to provide VoLTE communication services such as HD Voice, HD+ Voice, IP Messaging, and IP Video Communication.

It is also fully optimized for cloud deployment, agnostic to the underlying infrastructure for both media and control plane, and includes critical automation to simplify creation and maintenance of end user services.

Using feedback from device partners, the Ericsson VoLTE solution is architected and designed to serve today’s market where subscriptions are no longer simply one user with one device and one phone number. They can fall into any or all of the below use cases:

Multi-device: Users no longer own just one device; whether it is another smartphone, a tablet, a PC or a wearable, they expect to be able to handle their communication effortlessly across their devices.

Multi-identity: Users should not have to carry multiple devices to handle multiple phone numbers. Whether it is a business line, a temporary line, or merging personal lines, the Ericsson VoLTE solution is able to handle association and dynamic management of multiple phone numbers on a single device.

Multi-user: For mobile families and small businesses there is the need for multiple people to be able to be reached at and call out of a single phone number. The Ericsson VoLTE solution is able to handle all of these use cases for both consumer and enterprise users. It is designed to serve as the foundation for enterprise communication offerings.

The Ericsson VoLTE solution is cloud native to ensure it is compatible across industry NFVi, performs consistently and efficiently on standard x86 hardware, and supports automation use cases to minimize the infrastructure, time, and resource cost to launch and maintain new services.

Ericsson has developed industrialized pre-packaged VoLTE solutions to ensure fast and easy launch. Ericsson has created automation tools for deployment, testing and acceptance to ensure our customers are able to meet the demands of the new market reality.

Along with addressing today’s needs, the Ericsson VoLTE solution is designed and jointly tested with chipset industry leaders to support Cat-M1 IoT services. The Ericsson VoLTE solution will support 5G communication services as they are fully defined.

Key benefits

- First to market with innovations through partnerships
- Unique solution to expand service provider offerings
- Deploy VoLTE in weeks
- Maximize cloud potential
- Extend into IoT and 5G
Use cases

The Ericsson VoLTE solution encompasses all of the communication core network components and professional services necessary to provide VoLTE communication services such as HD Voice, HD+ Voice, IP Messaging, and IP Video Communication.

Evolved communication services
HD Voice and HD+ Voice (LTE/WiFi), IP Messaging, IP Video Communication.

Multi-device /-identity /-user capabilities
Beyond evolved communication services, the Ericsson VoLTE solution is architected to efficiently support and manage complex use cases.

Enterprise communication
Grow sales into the enterprise domain with offerings such as VoLTE for Unified Communication and Contextual Communication combining VoLTE with web capabilities for the best user experience.

IoT and 5G
VoLTE support has been added to the LTE IoT standard, Cat-M1, as a key differentiator for carriers. Ericsson is leading the RAN development in this space and driving partnership and end-to-end testing in the IoT OEM space. Additionally, VoLTE will be the communication platform for 5G. Ericsson's RAN leadership in this space, end-to-end testing, and partner ecosystem commitment will ensure market leadership for our customers.

Ericsson enables communications service providers to capture the full value of connectivity. The company's portfolio spans Networks, Digital Services, Managed Services, and Emerging Business and is designed to help our customers go digital, increase efficiency and find new revenue streams. Ericsson's investments in innovation have delivered the benefits of telephony and mobile broadband to billions of people around the world. The Ericsson stock is listed on Nasdaq Stockholm and on Nasdaq New York. www.ericsson.com