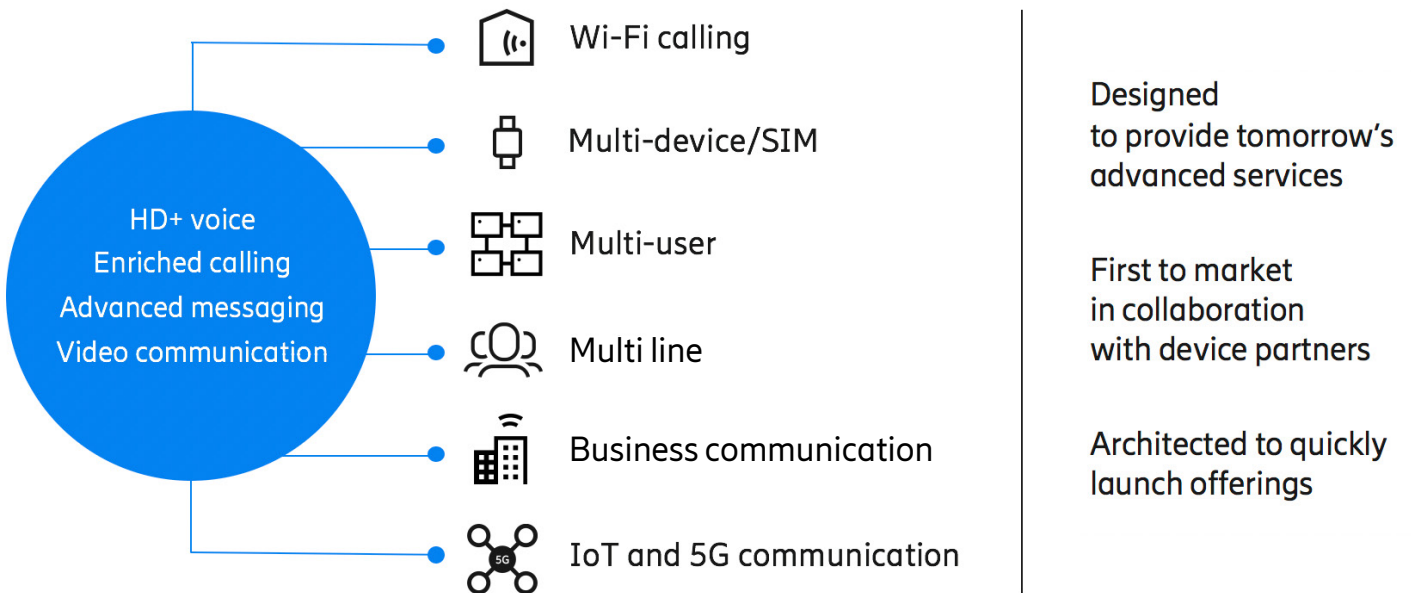# Innovative service offerings for consumers and enterprise users with Ericsson VoLTE

The Ericsson VoLTE solution is architected and designed to efficiently provide advanced end-user services. This description explains what kind of solutions are available for tomorrow's advanced consumer and enterprise communication services.

Essential VoLTE features to expand your service offerings

HD+ voice
Enriched calling
Advanced messaging
Video communication

Wi-Fi calling

Multi-device/SIM

Multi-user

Multi line

Business communication

IoT and 5G communication

Designed
to provide tomorrow's
advanced services

First to market
in collaboration
with device partners

Architected to quickly
launch offerings

Making it easy for service providers to innovate

Ericsson's VoLTE solutions are architected and designed to efficiently provide advanced services in today's market where subscriptions are no longer simply one user with one device and one phone number.

The IP multimedia subsystem (IMS) is implemented according to the intentions of 3GPP from scratch. Ericsson's VoLTE solution are "IMS native". That makes it much easier for service providers to be innovative.

Essential Ericsson VoLTE capabilities

Designed to provide tomorrow's advanced services – MTAS (Multi-media Telephony Application Server) is designed to efficiently manage emerging use cases such as multi-device, multi-line, and shared lines, as well as maximizing the benefits of cloud.

First to market in collaboration with device partners
– Standardized solutions and a technology partner working with all major device partners to bring standardized and scalable solutions to market.

Architected to quickly launch offerings – Easy scaling of new innovative features across other use cases.

Wi-Fi calling – Extended reach beyond cellular coverage, use when roaming and support for seamless handover to VoLTE.

Multi-device – Same number on multiple devices and transfer between devices.

Multi line – Multiple numbers on one device (e.g. private-, work-, temporary-, home- numbers).

Shared lines – Multiple users able to fully share a single number as a group (e.g. a family landline or a small business group).

Business communication – use existing network assets (VoLTE and eSIM) and build turnkey cloud communication services for business users with self-service and automation to drive revenues.

HD Voice+ – Higher voice and music within calls quality with increased network efficiency.

Enriched calling – Personalize your call and content sharing within calls.

Advanced messaging – Multiple groups chats with advanced sharing, and evolution to chat bots.

Video communication – Easy add-on of high quality conversational video calling.

Grow your business with VoLTE

Expand business

First to market with innovations through partnerships

Superior solution to expand your offerings

Simplify launching

Deliver new VoLTE services on your network in weeks

Maximize the potential of your cloud

Expand business

To create new businesses or expand your market in ways that are unique, service providers will need to be first to market with innovations enabled by partnerships supported by superior network solutions.

First to market with innovations through partnerships
Engaging the device industry in a successful way is crucial. Innovations can be brought to market through collaborations on a neutral basis (no IPR interests or portfolio governance). This happens through unique and proven partnerships with leading device-OEMs to co-develop and bring new services to market.

Ericsson has contributed network expertise and other expert knowledge to many successful market launches:

- Enabling voice calls for the latest cellular smartwatches

- VoLTE for Unified Communication where Ericsson was first to market with a scalable solution including integration with Cisco

- VoLTE over Cat-M1 with Qualcomm — the first example of a network partner to demonstrate this in a live customer network

Superior solution to expand your offerings
Ericsson Multimedia Telephony Application Server MTAS was designed from day one to elegantly serve VoLTE service to multiple devices, multiple identities on a single device, and multiple users sharing a line (family landline replacement, or small business). Other vendors' offerings have added SIP functionality to 3G communication core, which has created a limitation in these use cases, as well as presenting complicated solutions for these use cases, which do not scale across devices well.

Simplify launching

To simplify launching of new VoLTE services it is important to understand how a service can be launched and managed faster and easier.

Deliver new VoLTE services on your network in weeks
Ericsson Cloud VoLTE includes a verified blueprint solution design, preparation and planning guidelines, and a specialized deployment team to support activities either on-site, off-shore, or both. Ericsson Cloud VoLTE includes staging, deployment, acceptance test, and performance test capabilities to onboard and confirm performance on a service provider's specific cloud datacenter. If you don't have an existing datacenter then Ericsson Fast VoLTE Launch is the way forward. A industrialized solution targeting service providers of any size that is in the need of a rapid and cost-efficient launch of VoLTE for a small to medium number of subscribers, in addition to the existing mobile broadband service.

Maximize the potential of your cloud
The cloud based IMS delivers on agnostic, performance and automation. A unique attribute to this is a fully virtualized media plane which runs in any environment on standard x86 HW. Other vendors' offerings are requiring purpose-built hardware within the cloud to deliver on the performance requirements, which creates infrastructure and operational complexity limiting the value of the cloud investment.

*IP multimedia subsystem IMS

First to market with innovations through partnerships

Multi-SIM	Voice calls for cellular smartwatches >50 percent market share
Multi line	Native device solution in progress with key customer
Multi-device	Smart speakers supporting voice and messaging
Business communication	Cloud Communication Accelerator to quickly release compelling services to business users
IoT and 5G comm	Cat-M1 VoLTE with Qualcomm — First to market
IoT and 5G comm	Augmented reality — First to trial with video communication

End-to-end scalable solutions for service providers
Use cases such as multi-device/SIM, multi-line, shared lines and VoLTE for Unified Communication have specific requirements.

True end-to-end and scalable solutions are needed which are open and flexible, facilitating multi-vendor environments with identity and device management application architecture and service design to support complex identity and device handling.

**Growing VoLTE eco system
targeting high growth IoT and 5G markets**
There are more than 2500 VoLTE enabled device models*

Cellular smartwatches are one of the latest commercial devices to utilize VoLTE. As part of a multi-device scenario, fast growing devices such as smart speakers could also be IMS-enabled.

VoLTE support in Cat-M1-capable Internet of Things (IoT) chipsets, devices and network infrastructure is starting to be commercialized, and new use cases are being explored.
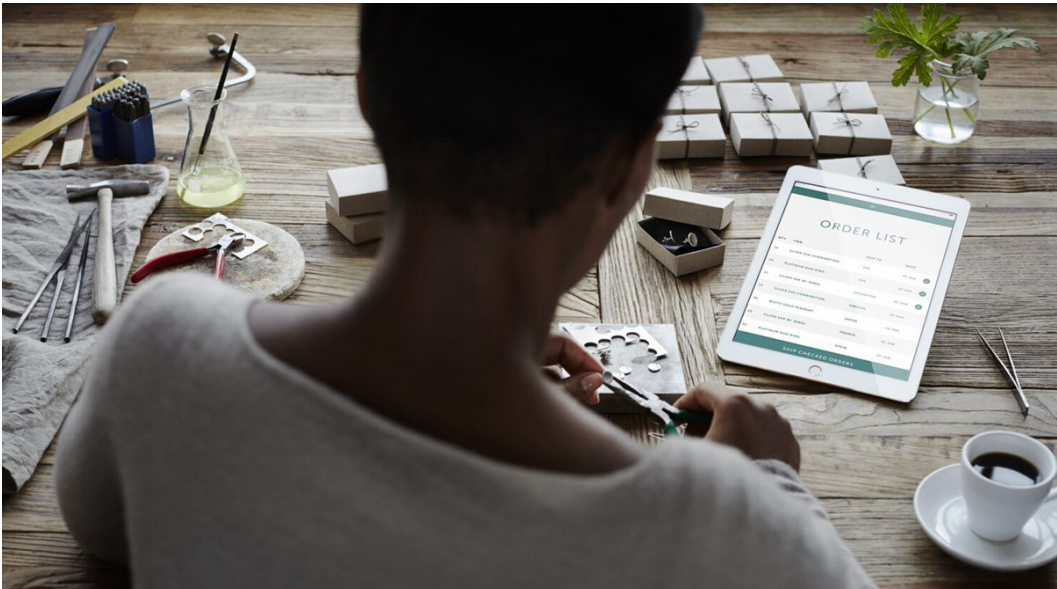
Many IoT use cases can benefit from incorporating basic voice calling functionality, for example, in assistance situations or to improve business performance.

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

Ericsson performs interoperability testing with leading device and chipset vendors, securing interoperability and fast TTM.

* GSA oct 2019

Grow revenues with targeted enterprise offerings

Ericsson Communication Accelerator

Ericsson can help you deliver advanced business communication services to any type of enterprise customer with its as-a-service offering called Ericsson Communication Accelerator (ECA) that allows for low upfront investments, faster time-to-market, fast development cycles for new service offerings, and in collaboration with global eco-system partners.

With Ericsson Communication Accelerator, you can:

- Quickly launch new services leveraging existing network assets
- Modernize or enhance legacy services with a cloud-based offering
- Enter new niches to find additional revenue sources with lower risks and investments

Some of the use-cases enabled by Ericsson Communication Accelerator are:

VoLTE Intelligent Routing

With Ericsson Communication Accelerator, you can extend VoLTE and native mobile dialing capability to your Unified Communication (UC) & UCaaS enterprise customers and offload the complexity of managing different partners.

Microbusiness Segment Communication

Currently 80% of Microbusinesses are on consumer plan. Using Microbusiness solution from Ericsson Communication Accelerator, you can provide extra features on top of consumer calling features and motivate them to move to business plans, leading to extra incremental revenue of 8-15 € per user/month.

Service Number

With Ericsson Communication Accelerator, you can enhance your legacy service number offerings with different enablement services such as call recording and fraud detection or offer ECA Service Number as a turnkey solution.

Voice for IoT

Voice for IoT service from Ericsson Communication Accelerator allows you to effectively manage voice calls (VoLTE or OTT) from IoT connected devices using intelligent rules based on destination number, time, event etc.

Contextual Communication Service

The Contextual Communication service from Ericsson Communication Accelerator allows easy integration of advanced communication and collaboration services into any website or application using flexible APIs and SDKs using well established technologies like HTML5 and WebRTC.

Ericsson Compact Core

Ericsson Compact Core is an industrialized solution that allows rapid and easy launch of mobile broadband, VoLTE and Wi-Fi calling for up to 300k subscribers. Ericsson Compact Core features a verified design of 19 VNFs for User Data Management, Packet Core and IMS plus a carrier-grade network design for local redundancy and two geo-redundant site.

SIP-Trunking

SIP-Trunking connects enterprises communication systems such as PBX's, Unified Communication and contact center solutions to the public telecoms network over an IP connection. Ericsson's SIP Trunking solution offers connection and control services, regulatory services as well as supplementary services and provides flexible interworking with IP-PBXs that support both dynamic and static mode.

VoLTE for Private Networks

With VoLTE for private networks, it is possible to have a dedicated VoLTE/Wi-Fi calling network for your business and mission critical needs, as a part of a pre-integrated and industrialized solution including RAN, Packet Core, OSS and push-to-talk.

Group-Radio Mission Critical Push-to-talk

An Ericsson Mission Critical Applications offering, enabling Land Mobile Radio (LMR) users a migration path to LTE, whilst retaining their existing operational capabilities for mission-critical group communication. Group-Radio MCPTT further enhances group communication by introducing real-time video communication, media sharing and other mission critical end-user applications.

How Ericsson can support you deploying VoLTE

People are changing the way they interact with technology as it becomes more intuitive. New services with voice communication are growing fast. Service providers can partner with Ericsson to simplify, expand, and scale their business, and address these new and fast-growing use cases for VoLTE based communication services.

Be first to market with innovations through partnerships

The Ericsson VoLTE offering enables evolved end-user communication using a multitude of innovations from eco-system partners on a great variety of devices, running over any access technology and dynamically using the mobile phone number identities that the user wants to be reachable on.

Maximize the cloud potential

The Ericsson VoLTE offering is cloud ready and 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.

Deploy VoLTE in weeks

VoLTE solutions can be deployed into a multi-vendor network in weeks through industrialized delivery and test capabilities.

Expand service provider offerings

Service providers can build on their Ericsson VoLTE network and expand with enterprise communication solutions, building on unified communication, WebRTC and Cat-M1 for IoT voice services, developed together with partners. Ericsson's VoLTE solutions support 5G voice and future innovative communication services for consumers and enterprise users

Explore more on VoLTE www.ericsson.com/VoLTE
Get in touch with Ericsson about VoLTE