

ng-voice provides a great VoLTE-Solution for a major Mobile Network Operator in Europe



ng-voice is expanding its services and provides a state-of-art VoLTE solution to a European Mobile Network Operator. The solution will be launched to end users in 2016.

Aiming at keeping up with the fast-emerging know-how and committed to satisfy customers' needs, a large European mobile network operator and ng-voice, have initiated an exclusive cooperation. The flexible VoLTE solutions of ng-voice have been integrated into the services of the operator. Soon, the customers can enjoy rich communication services, while the network-performance is still outstanding. While

testing the integration, we watched live HD video streams while making HD voice calls with an extraordinary quality.

Integration of VoLTE solutions into the network is an important precondition for broad benefits, both for the operator and the customer. It provides an exciting customer experience by providing HD voice and video capabilities at the touch of your handset. With the help of **ng-voice's** solutions, it is possible to make the technologically advanced mobile broad-band network more efficient, while scalable at the same time.

"When we were planning to start testing VoLTE in our live network in 2015 to get ready for customer pilots, we did evaluate various options. The TelcoSuite from ng-voice was the chosen option from various aspects: Most importantly was the ability to change whatever is necessary on the network side easily and without tedious change procedures when integrating end devices. We were still in the process of evaluating devices, and for showing that VoLTE works, we needed a core that can cope with a given device state and adapt accordingly. We were also able to integrate the ng-voice solution with all our network elements, incl. the existing local IMS core subscriber database. This took less efforts than expected and everything worked as expected in the end. Last but not least, a supporting reason for ng-voice was that even in comparison to complete solutions from smaller vendors that offer closed source solutions, price wise it was by far the best value we could get - which got us not only the product itself, but also a lot of useful experiences and deep expertise from Carsten and the team."

Network Architect

A new experience

The VoLTE solution implemented for the operator is running in the "public cloud" and is fully-integrated into the existing mobile network infrastructure: feature settings such as call-forwarding are truly convergent on both the proprietary 2G/3G platform and the VoLTE platform by ng-voice. In order to achieve a truly seamless experience for the users,

the call-forwarding settings are adjusted to the current network conditions: while on an LTE-call, all calls from the existing 2G/3G network are forwarded to the VoLTE cloud, in order not to interrupt the LTE call.

The VoLTE solution is seamlessly integrated with the existing mobile network components. This allows the solution to provide a superior quality of service (QoS) on the mobile network as well as seamless

Operator profile

The operator, a former state-monopolist in Europe, is operating throughout Europe in various countries as well as on the American continent. As a technology leader, the operator possesses a unique experience in providing scalable innovations and ground-breaking solutions in all terms of communication.

The operator offers an extensive range of both data and voice solutions, which are provided over fixed and mobile networks.

Solution features

- A complete subscriber/feature set for supplementary services
- Feature Convergence between legacy 3G and VoLTE (supplementary service settings are identical at any time on 2G/3G and VoLTE)
- Standards-Compliant on several interfaces, which allows seamless integration of third-party components
- seamless integration with the existing Ericsson Infrastructure
- Completely running on the public cloud (Network Function Virtualization - NFV)

Subscriber Management. Once a customer is provisioned on the proprietary 2G/3G network, the VoLTE platform of ng-voice can be used instantly.

Unlike OTT applications such as Skype, Viber or WhatsApp, the usage is convenient for all parties. The user experience stays the same as on the proprietary 2G/3G network: plug in your SIM-card and start calling. The only noticeable difference to the user is that the phone stays on the LTE network instead of switching back 2G/3G for calling, allowing continuous use of high-speed data on the mobile. In addition, the user can enjoy impressive HD voice and video capabilities on the handset, without draining the battery like many other OTT applications.

For the operator, the benefits are even more visible: LTE, being a data-only network, is more efficient than traditional

2G/3G networks in terms of overall throughput. However, since LTE is data-only, VoLTE is the only way to integrate voice natively into the handset, i.e. without installing separate apps or switching to traditional 2G/3G networks. With more and more subscribers switching to LTE, the operator may even re-allocate existing spectrum towards LTE.

Unlike other players in the LTE arena, ng-voice's VoLTE solution can be run completely in the private or public cloud. Due to the nature of ng-voice's VoLTE solution, it can easily be scaled to meet different requirements at any time.



„Introduction of cost-effective turn-key solutions is crucial in order to maintain leading positions and satisfy user's thirst for rich communication services. Due to the constant growth in data-usage and demand, increasing network efficiency is inevitable. Voice-over-LTE is a major brick in the puzzle of building an efficient network. Working with this mobile operator was great experience. I did not expect such flexibility and agility from one of the Top10 mobile operators in the world. They really proved to me, that they are innovative and looking ahead. Thanks for a great opportunity!“

Carsten Bock, CEO ng-voice GmbH

A Short History of Collaboration

The collaboration between the operator and ng-voice was very time-efficient. The integration of the existing network components and mobile handsets took only a few months. The operator saw a presentation of ng-voice's CEO & Founder in London in April of 2015. Soon after, negotiations resulted in a practical cooperation and the project was initiated. At the end of June, the design of the overall platform was agreed and soon after, we started the implementation. Including heavy testing, the implementation and device integration was finished in November 2015.



At the forefront of innovation, both companies are eagerly working on developing an extensive portfolio of services for the end user. Such cooperation is a huge step towards creating a more effective, converged and scalable user experience.

Unique user-experience

The launch of innovative and high-quality services such as VoLTE, shows the high customer orientation of the mobile network provider. With its solution, ng-voice assists in establishing a rock-solid foundation for a massive rollout of rich communication services in the future.

At a time when innovation is booming on every corner, making the most of your smartphone is an important part for the customer experience. The introduction of a turn-key VoLTE solution marks the starting point of excellent communication services for every customer.



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