

Mavenir Partners with Radisys to Deploy Voice over LTE (VoLTE)

Case Study

radisys®



Industry/Market

LTE operators.

The Challenge

Operators must meet subscriber demands for broader coverage and increased capacity, while finding new ways to grow revenues beyond flat-rate LTE data plans.

The Business Environment

OTT and content providers have been the early beneficiaries of LTE's increased bandwidth and access speeds. Operators must find new ways to compete by offering their own revenue-generating services.

The Solution

Mavenir's mOne® Convergence Platform and Radisys' Media Resource Function enable operators to generate VoLTE service revenues. This IMS-based solution is deployed at mobile operator MetroPCS today, with VoLTE trials at other operators underway.

The Benefits

The solution enables operators to deliver revenue-generating services such as VoLTE and RCS. It can also be deployed in a virtualized cloud environment, providing increased scalability.

Customer Profile

Mavenir Systems is a leading provider of software-based communications solutions.



The mobile subscriber appetite for more and more data, particularly mobile video, seems to be insatiable. Combining this trend with the pervasiveness of smartphones and tablets has mobile operators rushing to roll-out their LTE networks to meet subscriber demand for more bandwidth and coverage. Already more than 300 mobile operators have committed to LTE network investments, and industry analyst firm Strategy Analytics predicts 1.6B LTE connections by 2017.

While the deployment of LTE networks around the world has created new opportunities for these operators, they must also ensure that they aren't relegated to the status of "pipe providers." To date, over-the-top (OTT) and content providers have been the early beneficiaries of LTE's increased bandwidth and access speeds. Hence, savvy operators that have rolled out LTE networks are now turning to VoLTE, Rich Communications Services (RCS) and other value-added services to win back revenue from OTT and content providers. Next-generation IP Multimedia Subsystem (IMS) architectures, with a Media Resource Function (MRF) processing real-time video media streams, are the underlying foundation supporting these services.



The integration of Mavenir's mOne® Convergence Platform with Radisys' MRF has provided the economic and functional differentiation for growing commercial success for our VoLTE and mobile service deployments, including the world's first VoLTE deployment at MetroPCS.

Ian Maclean Vice President Strategy and Marketing at Mavenir



Mavenir's mOne® Convergence Platform integrated with Radisys' MRF provides the service delivery platform for mobile operators to deliver compelling video and voice services, including VoLTE, that maximize revenue options for operators. The proven solution, already deployed at LTE mobile operator MetroPCS, is currently undergoing multiple trial VoLTE deployments in Europe and the U.S.

metroPCS.
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VoLTE Deployment**

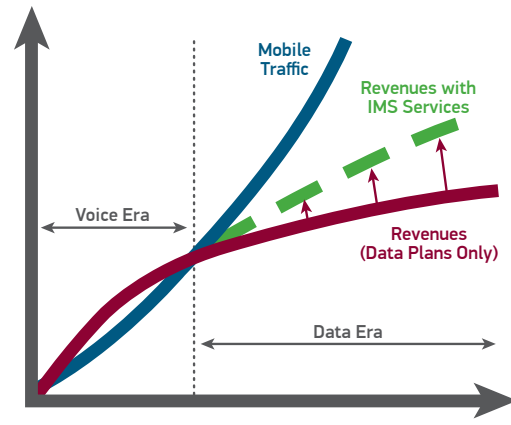
Powered by **Mavenir mOne** | Enabled by **Radisys MRF**

Improved Economics and Scalability

Providing mobile operators with improved economics, scalability and next-generation communications services, the deployment proven mOne Convergence Platform addresses subscribers' data usage. The platform offers voice, video, multimedia and social messaging, performing an integral role in subscriber growth and revenue generation for mobile operators. Its built-in network optimization and open network interfaces bring additional cost reduction to operators, along with flexibility for new business models.

The platform also offers mobile operators a time-to-market advantage as a single platform can support a wide variety of services including VoLTE and RCS. Radisys' Software MRF provides the simultaneous processing of thousands of audio and video packet streams required for these services. In addition, the Software MRF provides operators the necessary flexibility to support small trial deployments all the way up to thousands of endpoints on a single server.

The solution also supports compatibility with legacy networks. The Software MRF comes with built-in support for AMR-WB high definition audio codec specified for VoLTE devices, while supporting automatic transcoding with other audio codes that might be necessary when connecting a VoLTE call to a 3G or PSTN device.



Deploying VoLTE services drives revenue growth for operators. (Source: Heavy Reading)



Enabling operators to generate new revenue through VoLTE, video value-added services, conferencing and more is at the core of the investments we continue to make in our MRF product portfolio. Our growing commercial success with our partner Mavenir is testament that we've made the right investments.

Amit Agarwal Vice President and General Manager, Software and Solutions at Radisys



Virtualized Deployments

For additional scalability, Mavenir's mOne Convergence Platform and Radisys' Software Media Resource Function can be used in virtualized cloud deployments. Radisys Software MRF can be deployed to run as a virtualized application with other virtualized applications on the same server hardware in a cloud data center, providing scalability as operators grow their VoLTE subscriber base to accommodate increased market demand.

Radisys MRF Solutions for VoLTE, RCS, and Mobile Video

Radisys MRF products are involved in multiple VoLTE trial deployments around the globe. In addition to the Software MRF, Radisys' MRF product family includes the powerful MPX-12000 Broadband MRF, based on Radisys' T-Series ATCA platform, providing an easy upgrade path for Mavenir's customers.

The MPX-12000 is an advanced multimedia resource function (MRF) for LTE IMS, providing the scalable IP media processing required for Voice and Video over LTE (VoLTE), HD audio and video, and mobile VAS, combined with specialized media QoS processing services like Voice Quality Enhancement or IP-IP audio and video transcoding. It is the core revenue generation engine for LTE/IMS networks.

- Scalable IP Media Processing for VoLTE
- Enables HD audio, video streaming, mobile HD video conferencing and IP to IP transcoding
- Supports revenue generation from multimedia value-added services (VAS)
- Provides 3-10x capacity over existing technology
- Award-winning architecture and field proven



*Radisys MPX-12000 Broadband MRF
& Software MRF*

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