TIER 1 Mobile Carrier Selects Ribbon Communications’ VoLTE Transcoding

Enabling millions of successful voice connections everyday
Solution: Ribbon Media Resource Function Controller (MRFC) and Media Resource Function Processor (MRFP) Transcoding

Customer
One of the largest US nationwide Tier I mobile providers rolling out its VoLTE network, which requires a very cost effective transcoding solution with high-performance, scalability and geo-redundancy.

Challenge
With the continued evolution of wireless and fixed line networks, service providers are now challenged to manage the exchange of voice traffic across network borders controlled by a mix of IP and TDM technologies. To succeed in deploying new network solutions such as VoLTE, mobile carries must be able to support transcoding for a variety of legacy network interconnect points.

Solution
After an extensive evaluation process, this mobile carrier choose Ribbon’s MRFC/MRFP transcoding solution. This solution provides secure connectivity across multiple network islands, including legacy 3G and CDMA mobile networks and new VoLTE solutions.

Ribbon has a long successful relationship with this mobile carrier, including a strong technical understanding of their IMS core technology. The Ribbon Transcoding solution provided the special media handling features, efficiency and cost-effectiveness required by this mobile carrier to rollout its nationwide VoLTE offering.

Ribbon’s unique transcoding solution:
• Provides a distributed MRFC/MRFP architecture within the IMS specifications
• Simultaneously supports a comprehensive list of mobile and fixed codecs and framings with the ability to easily include a growing list of new codecs
• Provides low latency and jitter, as well as features such as per session VQE, conferencing and announcements
• Supports IPv6, RTCP-XR, RTCP bandwidth management along with geographical redundancy.

Result
Ribbon’s MRFC/MRFP Transcoding solution enabled the Tier 1 mobile carrier to:
• Rollout its next generation VoLTE network nationwide
• Provide seamless voice integration between VoLTE, 3G and CDMA networks
• Eliminate multiple stages of transcoding/internetworking
• Reduce operational costs.