Enabling Voice-over-LTE (VoLTE) alongside next-generation data services is crucial to helping operators drive network efficiencies, reduce costs and create new revenue streams while improving their overall subscriber and roamer experiences.

The flexible TNS VoLTE Roaming solution supports a variety of inbound and outbound 4G voice roaming models that ensure a consistent and seamless user experience while roaming. It also helps grow ARPU and prevent the churn of high-value subscribers by expanding HD voice services beyond an operator’s own borders. TNS VoLTE Roaming and its supporting IMS core elements play a critical role in the evolution of voice from circuit switched to IP-based cellular networks in 4G and beyond.

Flexible platform, powerful benefits

By leveraging the existing LTE Data Services Hub, operators can quickly deploy Voice-over-LTE roaming capabilities regardless of their own IMS core capabilities in their home networks.

The TNS stair-step approach to VoLTE allows operators to defer large up-front IMS investments by using an incremental investment and financing strategy.

The TNS Data Services Hub, including LTE Data/Voice Roaming, Clearing & Settlement, and Diameter signaling over TNS’ worldwide IPX network, provides a technical and business framework for simplifying VoLTE interconnect and roaming needs among participating operators. Supporting the S8 Home Routed (S8HR) architecture, as well as Local Break Out (LBO) for various use cases including emergency calling (E911), the TNS Data Services Hub is fully capable of accelerating any mobile network operator’s evolution to next generation voice roaming services.

S8HR is a technology based on an existing LTE data roaming platform that allows for rapid deployment of VoLTE roaming for those operators who have already launched LTE data roaming. In addition, the TNS Emergency Break Out (EBO) solution will allow pre-IMS operators to implement inbound VoLTE roaming using Local or Hub Break Out for E911 capabilities in their visited network while leveraging VoLTE interconnection through the TNS Data Services Hub and its hosted IMS elements.
The most trusted partner for VoLTE Roaming

The VoLTE-enabled TNS Data Services Hub is an advanced 4G roaming ecosystem that supports scale and provides multi-lateral interoperability across multiple network variants, services and protocols, while enabling optimized voice traffic and connectivity in a foreign roaming network.

TNS is a proven leader in providing reliable and resilient network and payment gateway services. Businesses large and small trust TNS to keep transaction networks of all sizes running smoothly and to deliver their transactions to their destination. The TNS network transports over a billion payments, telecommunications and financial transactions a day over our secure network that is monitored around the clock, 24x7x365 days a year.

To find out more about how TNS can help you with a wide range of telecom solutions: