VoLTE Systems
SD-VOICE Virtualized Appliance

The disruptive virtualized voice solution for enterprise networks

SD-VOICE the perfect complement to your SD-WAN appliance

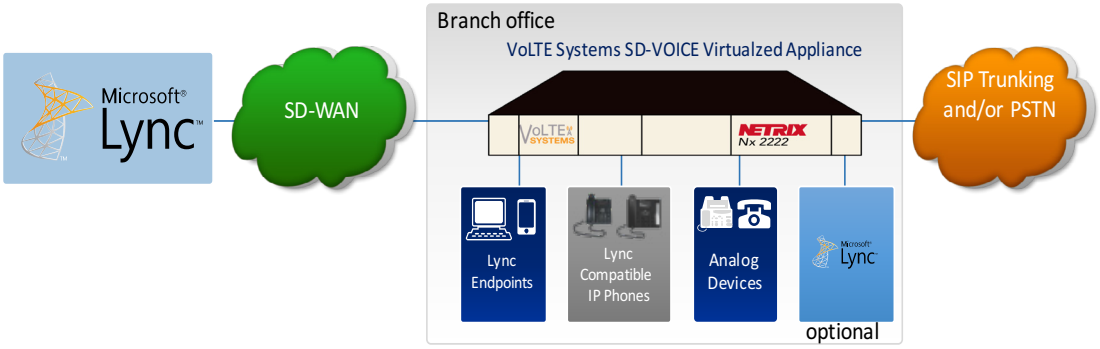
Key Benefits

- Truly disruptive platform when coupled with SD-WAN aimed at displacing incumbent router vendors
- White labeled virtulaized appliance designed to be integrated within existing SD-WAN appliances
- Optimize the use of Voice through patented technology
- Can be configured to work with SD-WAN to utilize the lowest cost route whilst preserving voice quality
- Accelerating the time to market to support hybrid voice on your SD-WAN appliance

Despite the buzz of activity, we remain in the early days of what some are describing as a "Software Definable Network (SDN) Revolution". While most enterprises are still getting up to speed on definitions, benefits and the implementation challenges and perhaps contrary to popular belief, we find many of the modern concepts associated with SDN are not new. What is new, however is the excitement generated over the past couple of years around the enhanced End User Experience (EUE) that results from open standards-based platforms, extensive programmability, network virtualization and network-based application awareness.

VoLTE Systems, whose heritage is firmly in IP voice telephony, has brought to market a new virtualized OEM Solution built on its Session Border Controller (SBC) technology. This SBC solution brings over a decade of hybrid voice experience to the new market of Software Definable WAN (SD-WAN) and provides a fully featured software subsystem that can be embedded within a vendors SD-WAN architecture. This hybrid solution provides a truly differentiated system aimed at providing a disruptive platform to dislodge incumbent hardware vendors. This new subsystem is targeted at the datacenter, cloud computing, branch networks, content provider, and media applications.

VoLTE Systems OEM SBC Voice solution is available as a complete white label voice switching system for OEM applications. The voice subsystems can be fully integrated into partner SD-WAN router appliances.



Vitualizing with VoLTE SD-VOICE

The continued rapid growth of voice in the enterprise fused with Unified Communications and video media are placing new demands on networks. The associated dynamic of rapidly changing traffic patterns leads to situations where overloading and latency occur sporadically with subsequent, immediate inpairments to voice quality. This has required enterprises to spend scarce budget on over-designing their networks for worst case scenarios in order to ensure that the required bandwidth is available to maintain voice service quality. This leads to poor utilization of network resources with a certain amount of stranded capacity that yields no direct revenue benefit.

Traditional solutions fall short when it comes to the dynamic performance awareness of voice, voice quality mitigation and the ability to be readily and simply reconfigured on an immediate call by call basis. SD-WAN whilst suitable for application data or pure IP voice communication in a broadband or MPLS environment are generally not designed to handle the switching of hybrid voice in an economic manner nor are they designed to deliver the jitter free performance required for consistent high quality voice telephony.

Enterprises require a more efficient approach to get the most out of their network, which is where SD-WAN can help; BUT SD-WAN by itself does not ensure the Quality of Experience necessary for dependable high quality voice communications.

Most Enterprise customers have combined IP, Digital and Analog voice solutions alongside their data environment which is currently supported by their current hardware router platform. This means that this incumbent device can be difficult to replace by SD-WAN alone.

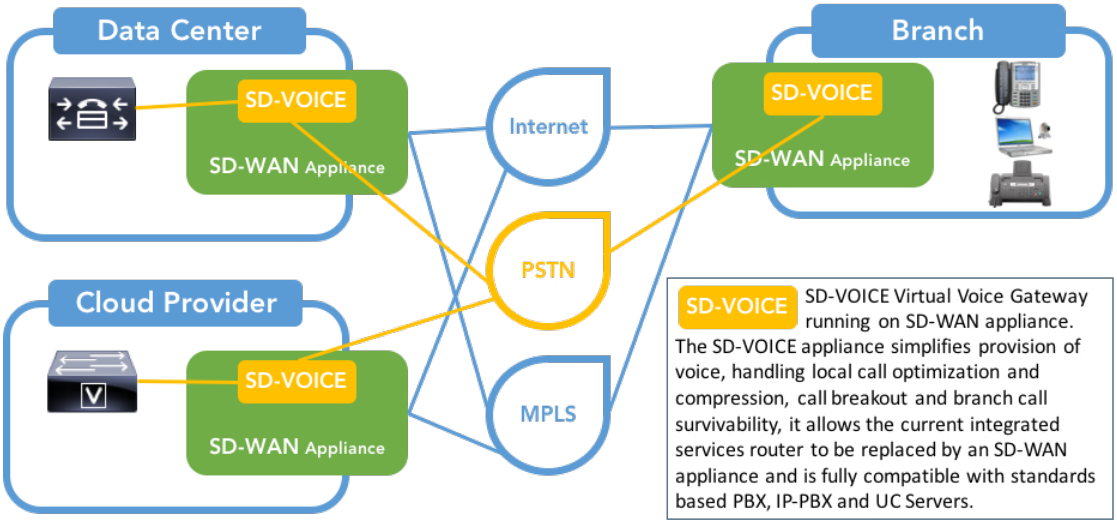
SD-WAN efficiently replaces the data routing component but ignores local voice integration assuming that all voice is supported by broadband IP. The **VoLTE Systems SD-VOICE** platform integrates a completely virtualized voice exchange that allows for all network connection types, including those with constrained bandwidth, significant latency, jitter and/or packet loss. The **VoLTE Systems** solutions also provide support for local analog and digital devices or lines breakout, further enhancing Branch voice survivability, while ensuring true performance-on-demand on a call by call basis.

The **VoLTE SD-VOICE** system is a truly enhancing deployment which overlays the SD-WAN appliance and provides a voice-aware extension to a SD-WAN solution focusing on the compression, prioritization and optimal routing of voice calls. While immediate call by call voice performance measurement and routing quality assessment is an integrated function of the **VoLTE Systems** solution, performance measurement, trending and capacity planning can be integrated with the SD-WAN management systems for seamless commissioning and control.

BEST VOICE ROUTE SELECTED BY MEASURING TRUE QUALITY OF EACH PATH

SD-VOICE INTEGRATES ANALOG, DIGITAL AND IP VOICE, ROUTING IP OVER SD-WAN

FULL BRANCH VOICE SURVIVABILITY ALLOWS ISR ROUTER TO BE REPLACED



SD-VOICE SD-VOICE Virtual Voice Gateway running on SD-WAN appliance. The SD-VOICE appliance simplifies provision of voice, handling local call optimization and compression, call breakout and branch call survivability, it allows the current integrated services router to be replaced by an SD-WAN appliance and is fully compatible with standards based PBX, IP-PBX and UC Servers.

- VoLTE Systems SD-VOICE is a highly structured and extensively developed SOA architecture
- Displacement of existing hardware vendors' integrated service routers and voice gateways
- In-Built Advanced Branch Voice Survivability which can be integrated with UC platforms such as Microsoft Skype for Business
- Consistent High Quality Voice Communications
- Voice bandwidth optimization and packet shaping
- Single management console if SD-VOICE management is integrated into an exiting SD-WAN management portal
- High ROI through reduced network complexity, efficient use of existing SD-WAN appliance and the elimination of customer analog PSTN line costs

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