CASE STUDY

4G CONTINUITY

MSx Managed SD-WAN

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Being able to leverage both WAN connections in unison and improve circuit performance earned us a few choice words from our customer — "industry leader."

Jared Martin
Vice President
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The customer was happy with the cost and availability of 4G LTE continuity services. However, *MPLS Continuity with 4G* only supported the failover of MPLS data traffic. Voice services and Internet traffic were not supported. *Internet Continuity with 4G* provided failover of TPx voice services and Internet traffic, but it wasn't secure enough to support MPLS. In addition, the 4G interface on the MPLS router was not proactively monitored, nor was class of service — voice and Internet traffic compete for bandwidth on a "best effort" only basis. Managed SD-WAN with 4G continuity eliminates the shortcoming of both previous options. Now all core services — SmartVoice, UCx, DIA, MPLS — can fail over, since traffic is traversing the 4G LTE network in an encrypted tunnel terminating in the SD-WAN gateway on the TPx network.

PROFILE
- Nursing home corporation
- 35 locations

CHALLENGE
Continuity options with 4G only supported the failover of either MPLS data or voice/internet services, but not both
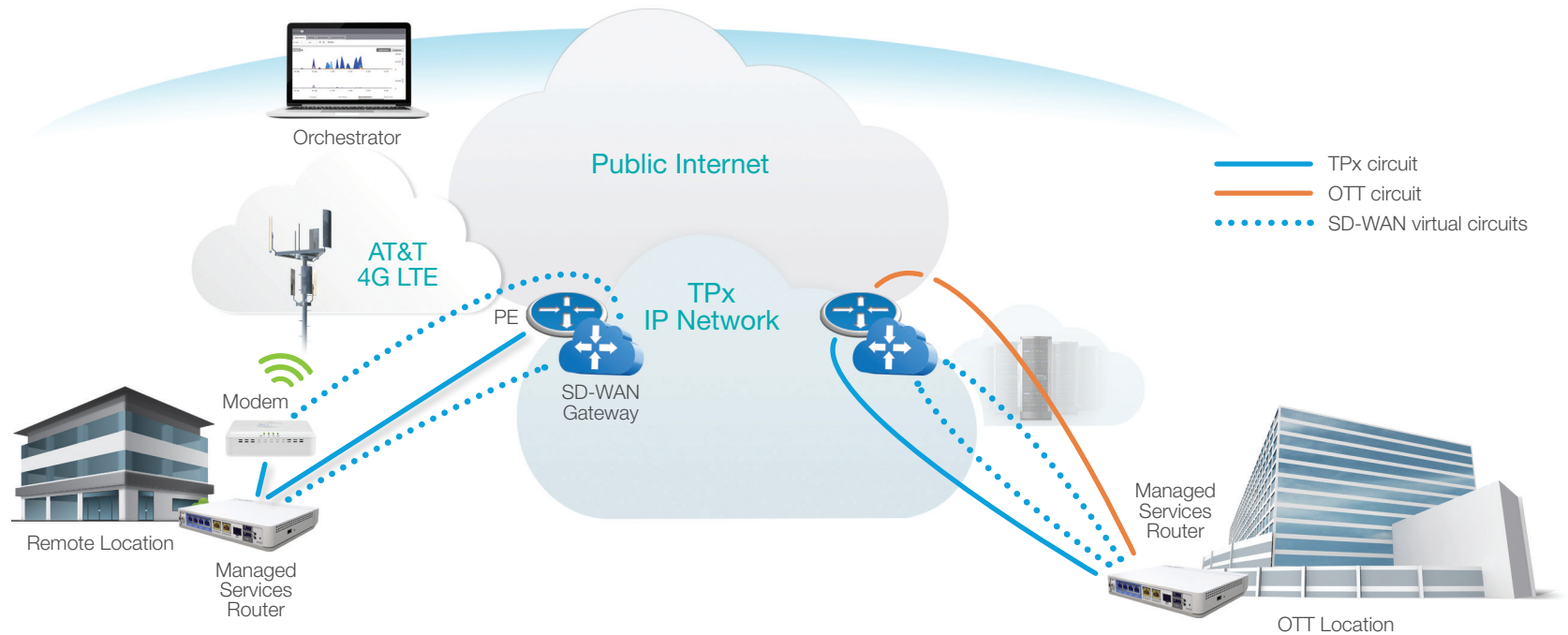
SOLUTION
Managed SD-WAN over 4G LTE using a Managed Services Router feeding a CradlePoint wireless modem

BENEFITS
- All core services including MPLS can fail over, since traffic is traversing the 4G LTE network in an encrypted tunnel
- There is no need to prioritize between MPLS and voice when choosing a business continuity solution

RESULTS
Both VPN and voice "hiccups" were virtually eliminated across all deployed locations

Diagram labels:
- Orchestrator
- Public Internet
- AT&T 4G LTE
- PE
- TPx IP Network
- Modem
- SD-WAN Gateway
- Remote Location
- Managed Services Router
- Managed Services Router
- OTT Location

Legend:
- TPx circuit
- OTT circuit
- SD-WAN virtual circuits

SD-WAN 4G/OTT

SD-WAN with 4G LTE leverages VeloCloud devices with a wireless modem beam an encrypted tunnel across the AT&T Wireless public network to an SD-WAN gateway sitting in the TPx network. The Managed Services Router uses dynamic policy-based routing and forward error correction to handle all communications traffic and optimize its delivery across the landline or 4G LTE pathway.

Where AT&T 4G LTE was not available, the customer utilized OTT circuits to achieve SD-WAN connectivity. The customer was able to achieve economical access to securely connect its widely-dispersed sites to the corporate VPN, without having to choose between MPLS data and voice/internet performance.

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