

SD-WAN over Satellite Access

POC 105

Description of PoC

Demonstrates delivery of MEF 70 SD-WAN as a single service over satellite and terrestrial Underlay Connectivity Services. LSO APIs are used for orchestration of the different components of the SD-WAN service via a central management platform which in turn receives commands via LSO Sonata APIs. The SD-WAN service is offered to the enterprise customer via a self-service BSS portal.

SIGNIFICANCE

This PoC demonstrates automated inter-domain SD-WAN instantiation at the service and orchestration layers. SD-WAN gateways will be instantiated on-demand at customer endpoints with service termination in a uCPE.

1

INSPIRATION

Current SD-WAN deployments vary in architecture and service outputs, creating isolated islands of stranded capabilities and increased operating costs, while limiting the service footprint. Interoperability between SD-WAN equipment vendors, underlay networks, telco, mobile and satellite operators would unlock the true potential and intent of SD-WAN as an overlay service, increase adoption, speed-up revenue realization and improve customer experience.

2

NEAR FUTURE

There is an increasing focus on Satellite as a platform for overlay services, including SD-WAN. Inoperability between terrestrial and satellite operators extends reach to support IoT and 5G.

3

WITHOUT THIS POC

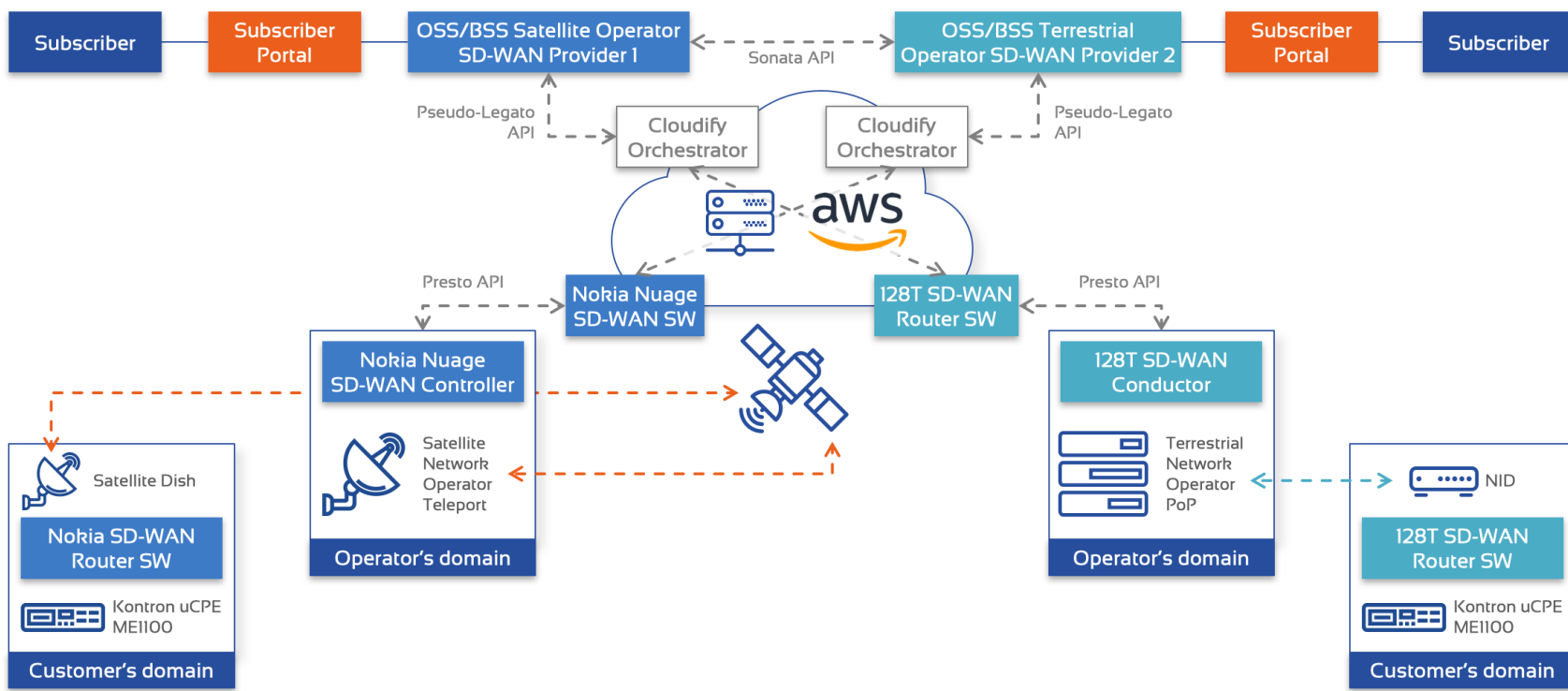
The extensive reach that interoperability between Satellite and Terrestrial networks provides SD-WAN overlay services may be overlooked and / or not understood.

5

ACTION NEEDED

Standardized service models for Satellite as an underlay layer, as well as interconnect and performance implementation agreements in addition to standards governing interoperability between SD-WAN vendors are required.

Participating organizations



MEF 3.0 Topic Areas

	Satellite Transport	MPLS Transport	IP	SD-WAN
LSO Legato				✓
LSO Sonata				✓
LSO Presto				✓
Segment Routing	✓	✓		

