

Orchestrating Multi-Edge Cloud Services

Description of PoC

Demonstrates how CSPs can accelerate adoption of multi-edge cloud services through the orchestration of applications and connectivity on open edge compute platforms. Enterprise-oriented applications (e.g SD-WAN, IoT, 5G core) are purchased from a digital marketplace and automatically deployed across multiple cloud platforms (on-premise, network edge and public cloud). By orchestrating edge clouds with existing underlay and overlay network services, including Wi-Fi, RAN, SD-WAN and cloud exchange, the PoC seamlessly connects the on-premise environment to the centralized cloud.

POC 131

Participating organizations



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SIGNIFICANCE

The demand for edge cloud is increasing as enterprises continue to digitize and automate their businesses. However, as enterprises look to improve operational efficiency, their preference is to offload the responsibility for multi-vendor systems integration. This creates an opportunity for CSPs to offer on-demand, managed edge services and connectivity on open edge compute platforms that can be deployed in multiple locations.

1

INSPIRATION

To capture this new B2B opportunity, CSPs must integrate a diverse set of technologies across different domains into a single service. This includes such technologies as 5G, IoT, SD-WAN, SD-LAN/WiFi, underlay connectivity and security. It is the objective of NTT Communications and partners to prove the technical feasibility with a solution that automates E2E service provisioning and assurance across multi-edge clouds.

2

NEAR FUTURE

With a single service subscription and SLA, enterprises can purchase on-demand edge cloud services from a CSP marketplace, including high value MEC applications and all the required end-to-end connectivity, from a single pane of glass management. CSPs have expanded their value deeper into the enterprise market creating new monetization opportunities.

3

WITHOUT THIS POC

Managed edge cloud services will require significant effort and expertise by enterprises due to technology fragmentation, operational complexity, and vendor lock in that stalls innovation, resulting in the inability to meet the rapidly changing enterprise business needs.

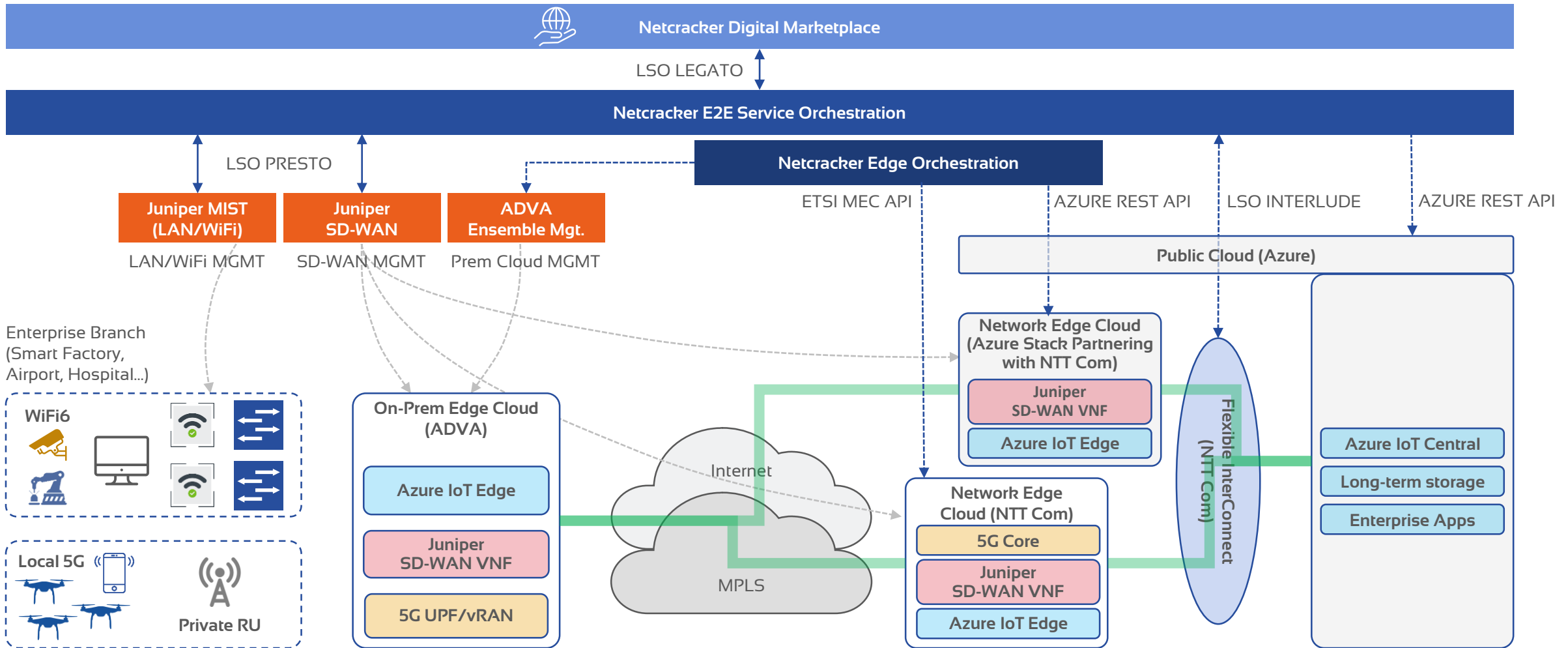
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ACTION NEEDED

Standardized LSO Interlude between cloud providers and CSP orchestration are required to simplify the integration. LSO Presto for SD-WAN and SD-WLAN domains also needs further improvement and adoption by vendors.

4

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MEF 3.0 Topic Areas

	Public / Edge / On-Prem Cloud	SD-WAN	Edge Orchestration Automation	Digital User Experience	Assurance Automation
Cloud Services MEF W68	✓		✓		
SD-WAN Attributes and Services MEF W70.1		✓	✓	✓	✓
SASE Services MEF W117	✓	✓	✓	✓	✓
LSO Legato			✓	✓	✓
LSO Interlude	✓		✓		✓
LSO Presto		✓	✓		✓

