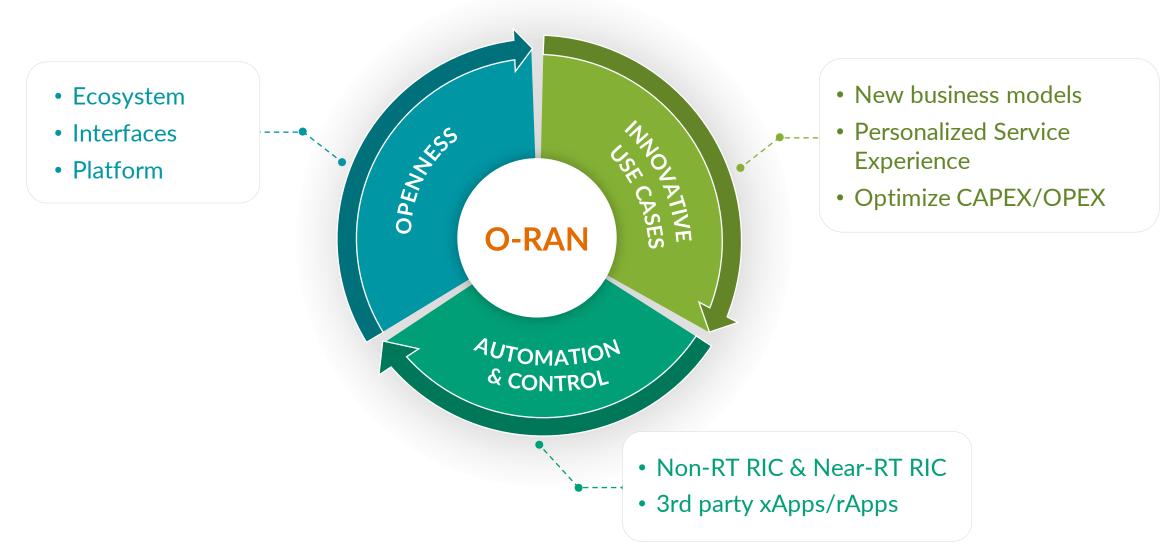


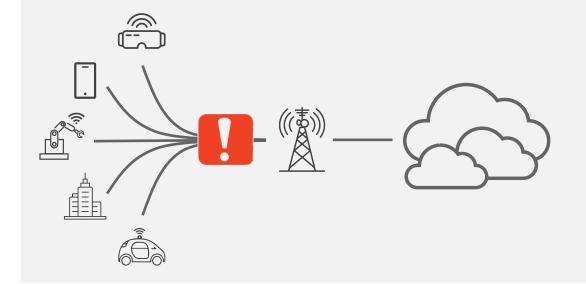
Juniper's Approach to Unlock True Potential of O-RAN



The Need for Network Slicing: A Foundational 5G Objective

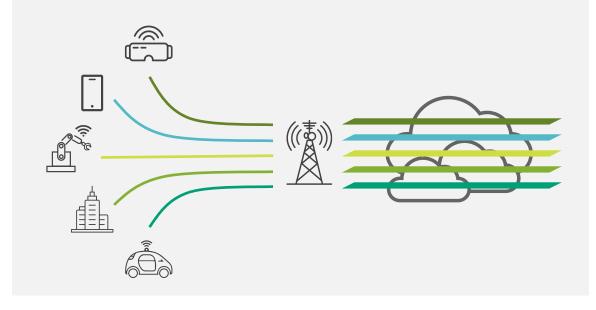
4G and other monolithic networks

One-size-fits-all networks are not agile enough to support the variety of 5G services



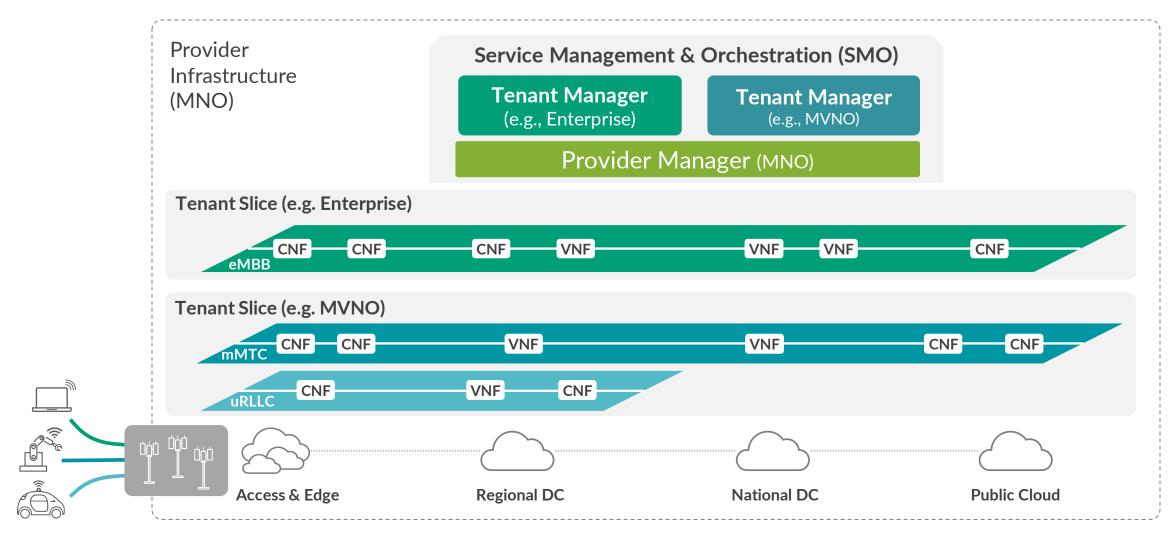
5G Network Slicing

Orchestration and management of dedicated end-to-end virtual networks with prescribed QoS SLA

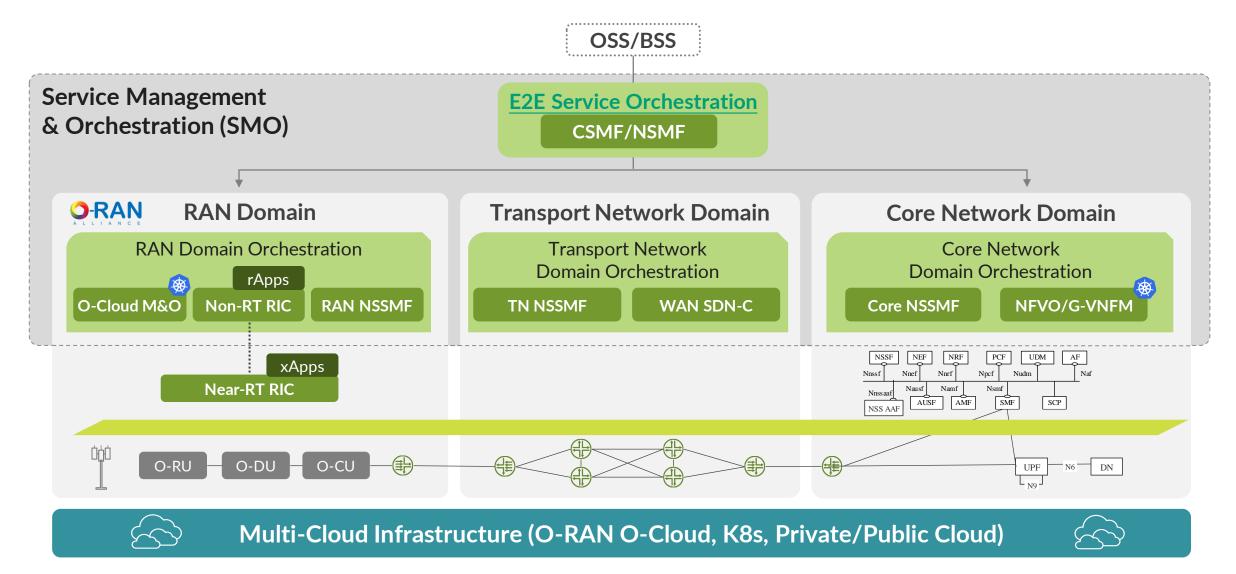


Our E2E NS Orchestration Built Around The O-RAN vision

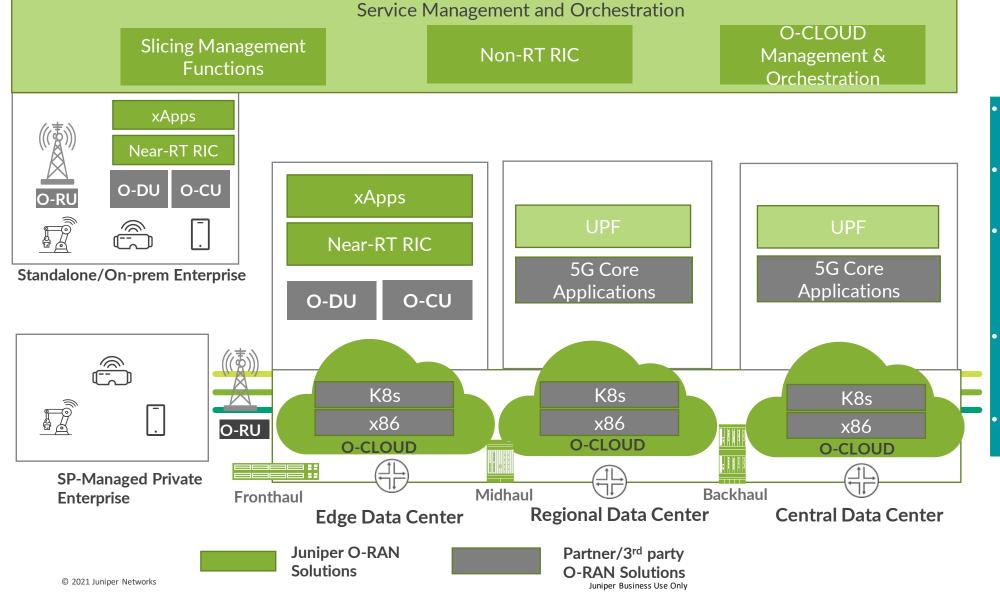
Multi-Cloud, Multi-Domain and Multi-Tenant



Juniper Network Slicing and Orchestration Architecture



What is Juniper's play in O-RAN?



- Leadership/Contributions to 6
 WGs in O-RAN Alliance
- O-RAN compliant fronthaul transport
- O-Cloud platform CN2
 Container Network Interface,
 Data center underlay, intent-based networking
- Open RIC Platform with Juniper and 3rd party xApps/rApps
- O-RAN Service Management and Orchestration

Driving the O-RAN Narrative In The Industry

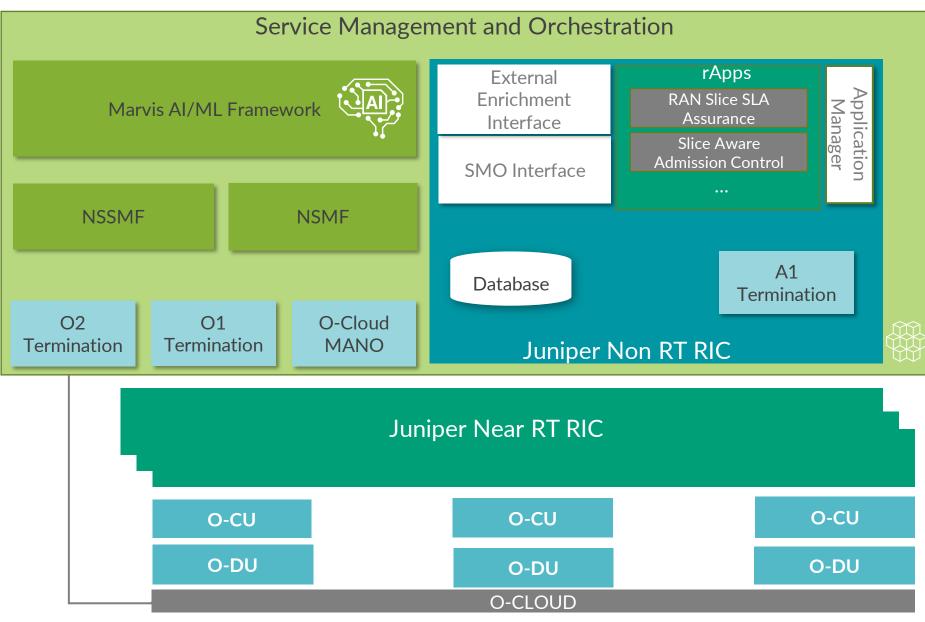
POLICY COALITION

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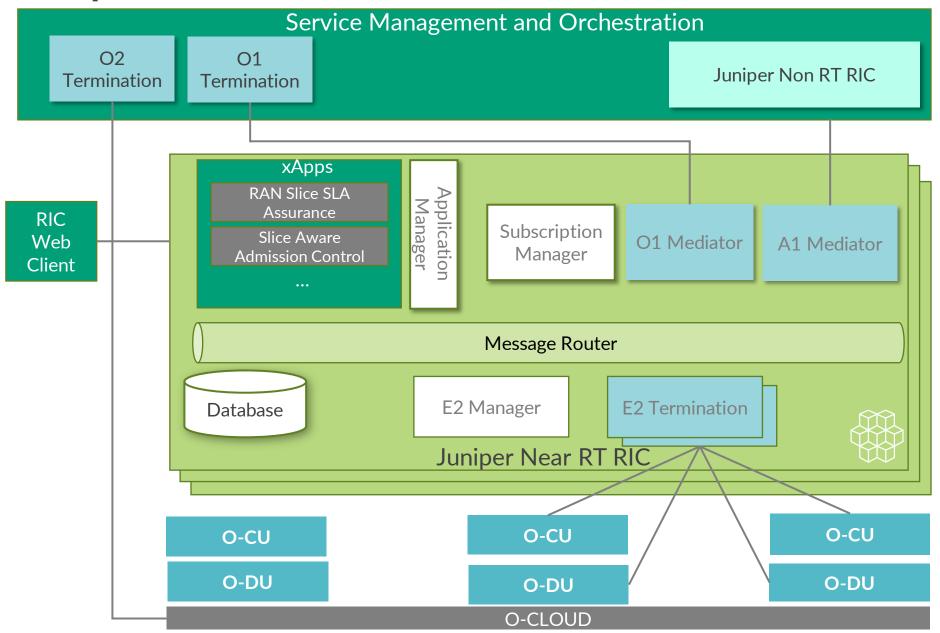
Juniper Non-RT RIC Architecture



Juniper Non RT RIC

- Juniper Marvis AI/ML Engine
- Containerized Microservices based framework
- SaaS or On-premises. Supporting Public, Private or Hybrid Environments
- Interoperability with Juniper and 3rd party SMO
- Onboard 3rd party rApps.

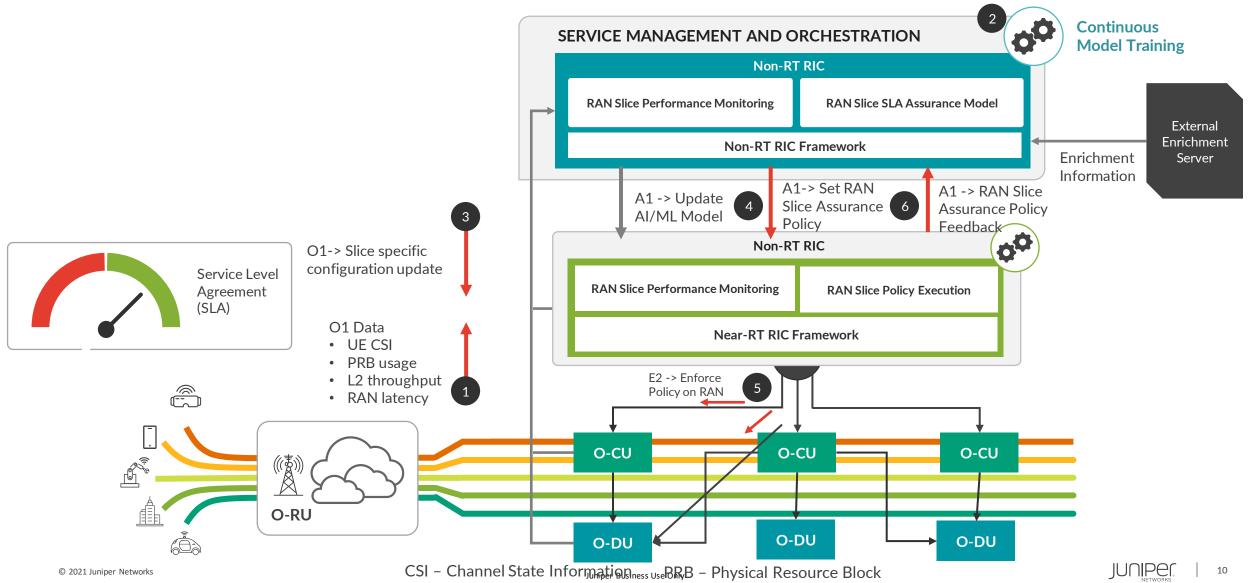
Juniper Near-RT RIC Architecture



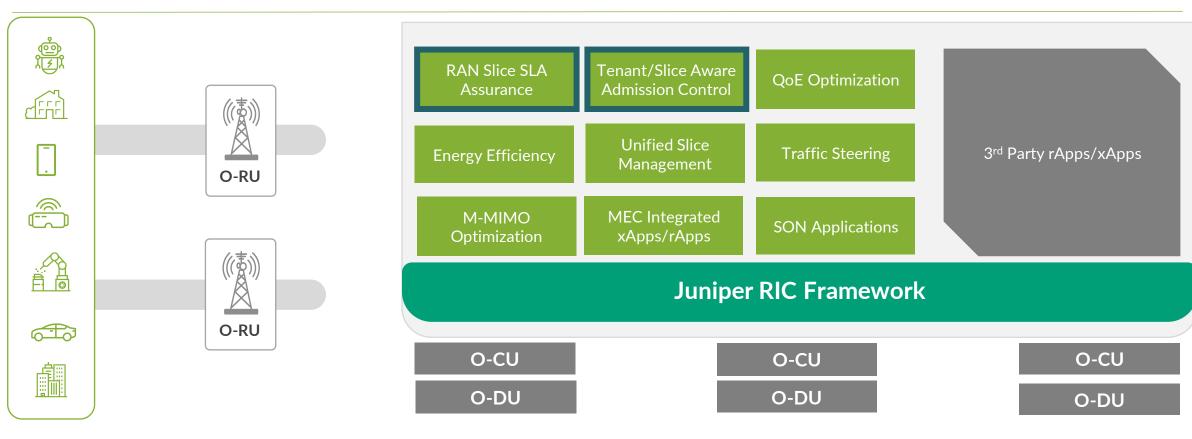
Juniper Near RT RIC

- Containerized Microservices-based framework
- SaaS or On-premises. Supporting Public, Private or Hybrid Environments
- Interoperability with Juniper and 3rd party SMO
- Onboard 3rd party xApps.

Network Slicing (RAN Slice SLA Assurance) Use Case



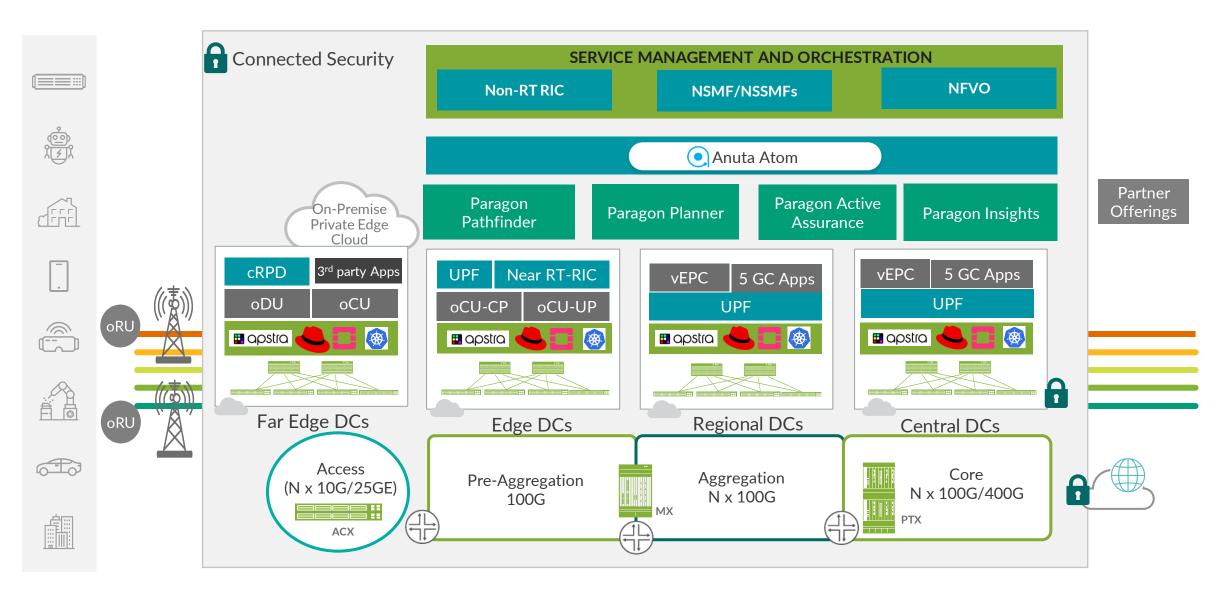
Juniper xApps/rApps - Key Use Cases and Progress



Integration with major DU/CU vendors

RIC trial with Tier-1 European Service Provider Key IPR related to RIC, xApps/rApps, and slicing

Juniper E2E O-RAN Architecture



Juniper Business Use Only

