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# 5G End-to-End Slicing

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**Developer Days** 

Network Services Orchestrator

NSO is a Brilliant Domain Controller and Multi Domain Orchestrator

Fredrik Jansson Principal Engineer June, 2020

## Key Takeaways

#### NSO as a Domain Controller

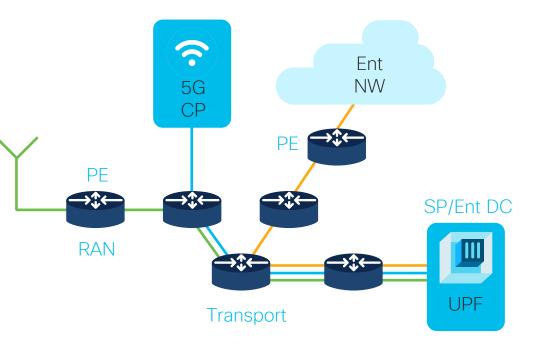
NSO as a Cross Domain Orchestrator

#### 5G end-to-end Slicing Overview



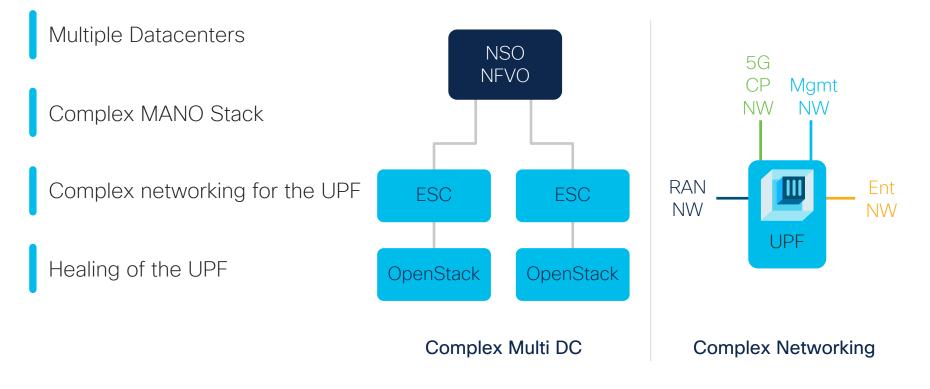
Multiple heterogenous domains

Dependencies between domain



#### SP/Enterprise DC Domain





#### Transport Domain

Large network

Multi Vendor

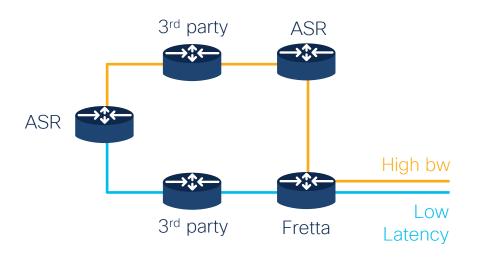
PEs with potentially complex configurations

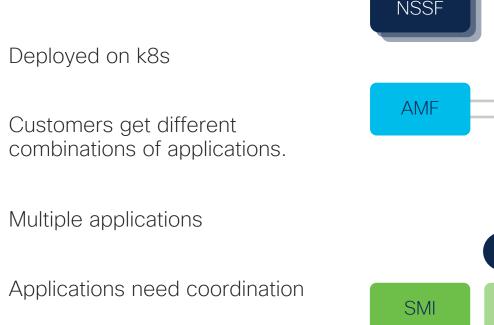
Different QoS Requirements

- Low Latency
- High bandwidth

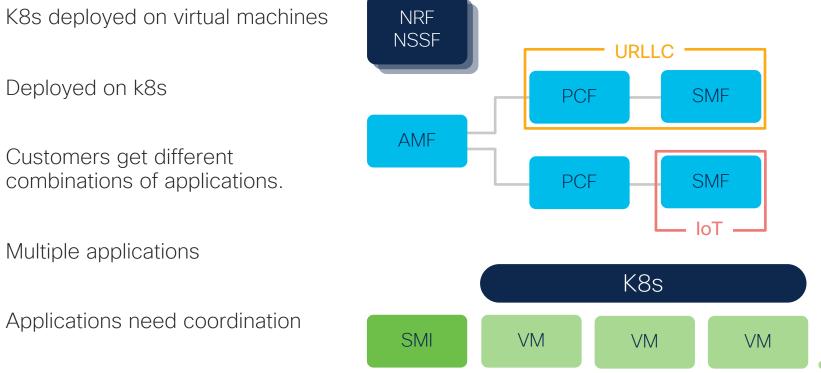
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### 5G Domain





Challenges? 
NSO is here
for you!

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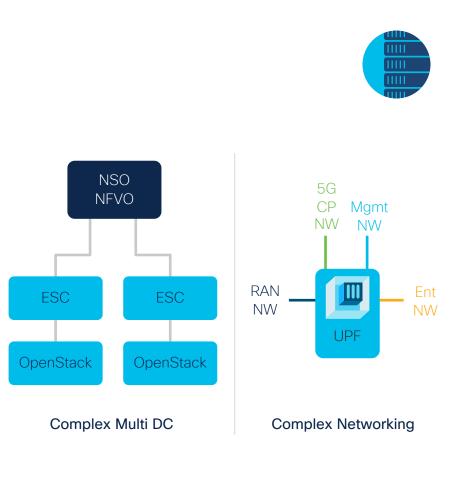
## Datacenter NSO

#### NFVO

 Hides a lot of complexity around the life cycle of any VNF

#### Domain Specific Service

Easy to consume from the XDO



# Transport NSO

#### NEDs

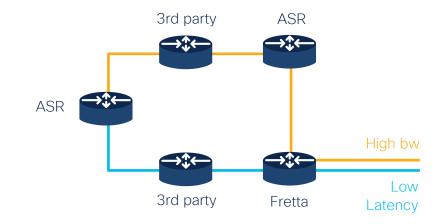
- Cisco
- Third Party

#### T-SDN CFP

• Built to scale

# Domain Specific ServiceEasy to consume from the XDO





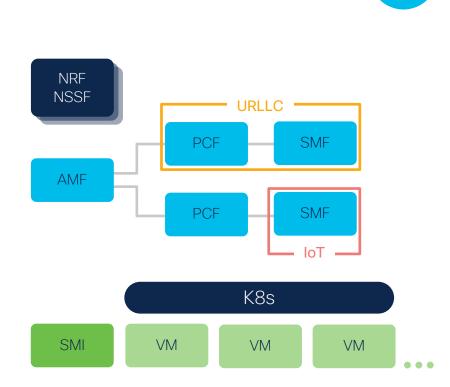
# 5G NSO

#### SMI

- Embedded ConfD
- 5G CP Applications
- NETCONF NED
- Notifications

#### Structured 5G Service

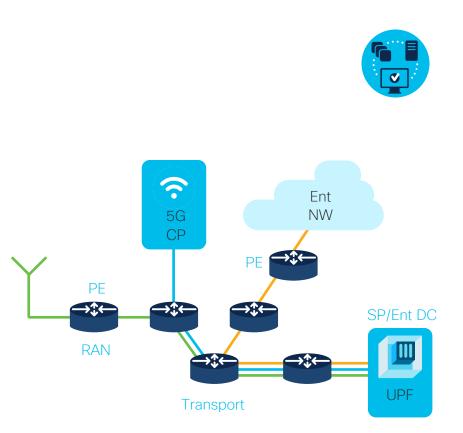
• Providing clear dependencies between the applications





Standard plan state changes

FastMAP across domains





# How does this apply to you?

# The key is to divide and conquer!

#### **Build Domain Controllers**

#### Connect using the Cross Domain Orchestrator

