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Getting Cloud Native right — The path towards Resilient and sustainable 5G Core

5G India 2022

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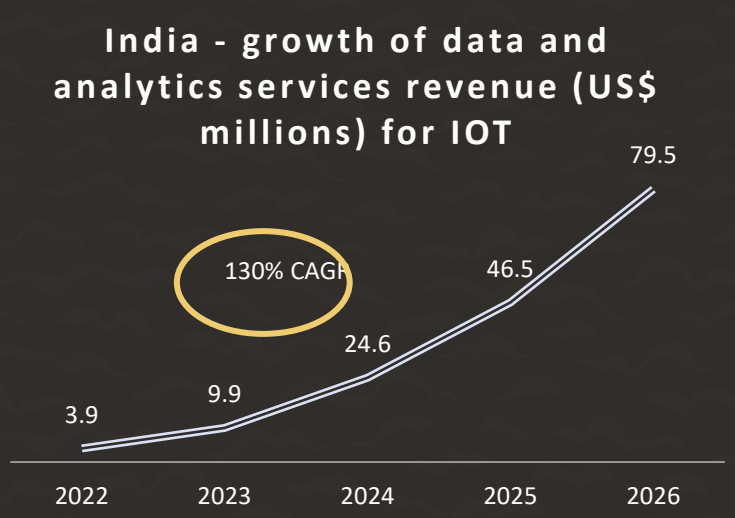
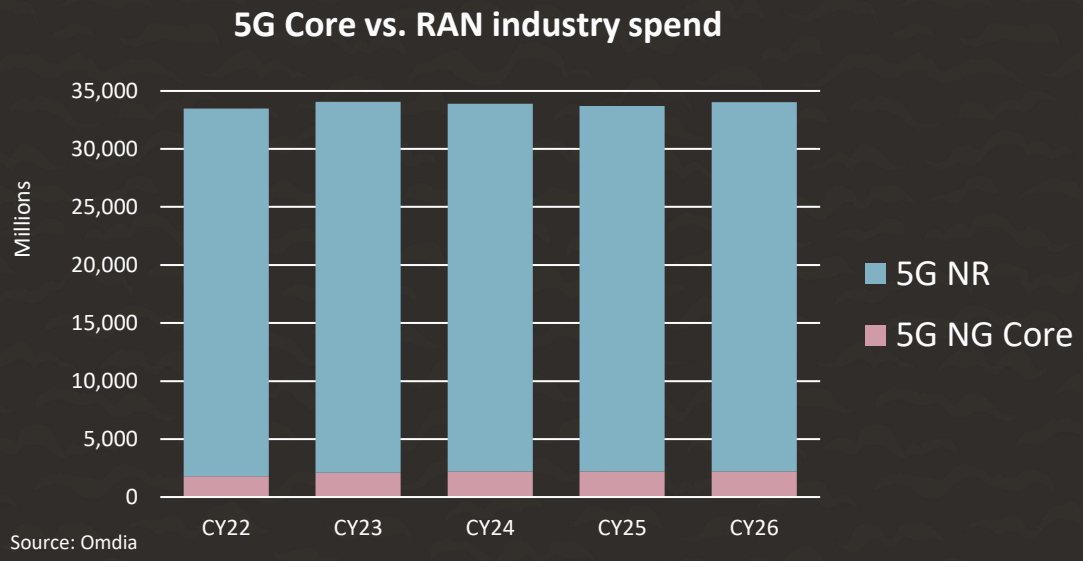
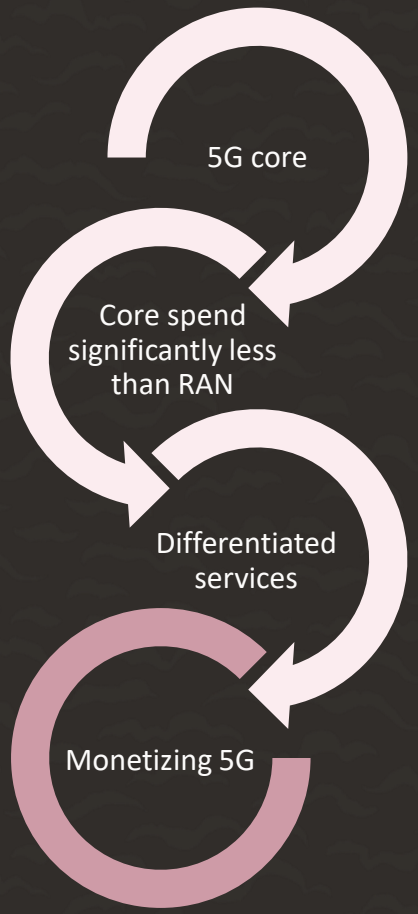
The 5G Cloud Native core is *the* starting point for realizing the benefit of 5G







What new 5G services will best drive revenue?

Will 5G grow revenue in enterprise and consumer?

How much revenue growth will see? when?

Is my network and organization ready?

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A robust core needs intuitive, extensible and flexible policy, reliable signaling & routing and automation& analytics at scale from day one

Manage multiple network generations under unified policy management

Launch services faster with a cloud native 5G core

Expert support for your implementation and systems integration

Programmable core for limitless opportunity with 5G core

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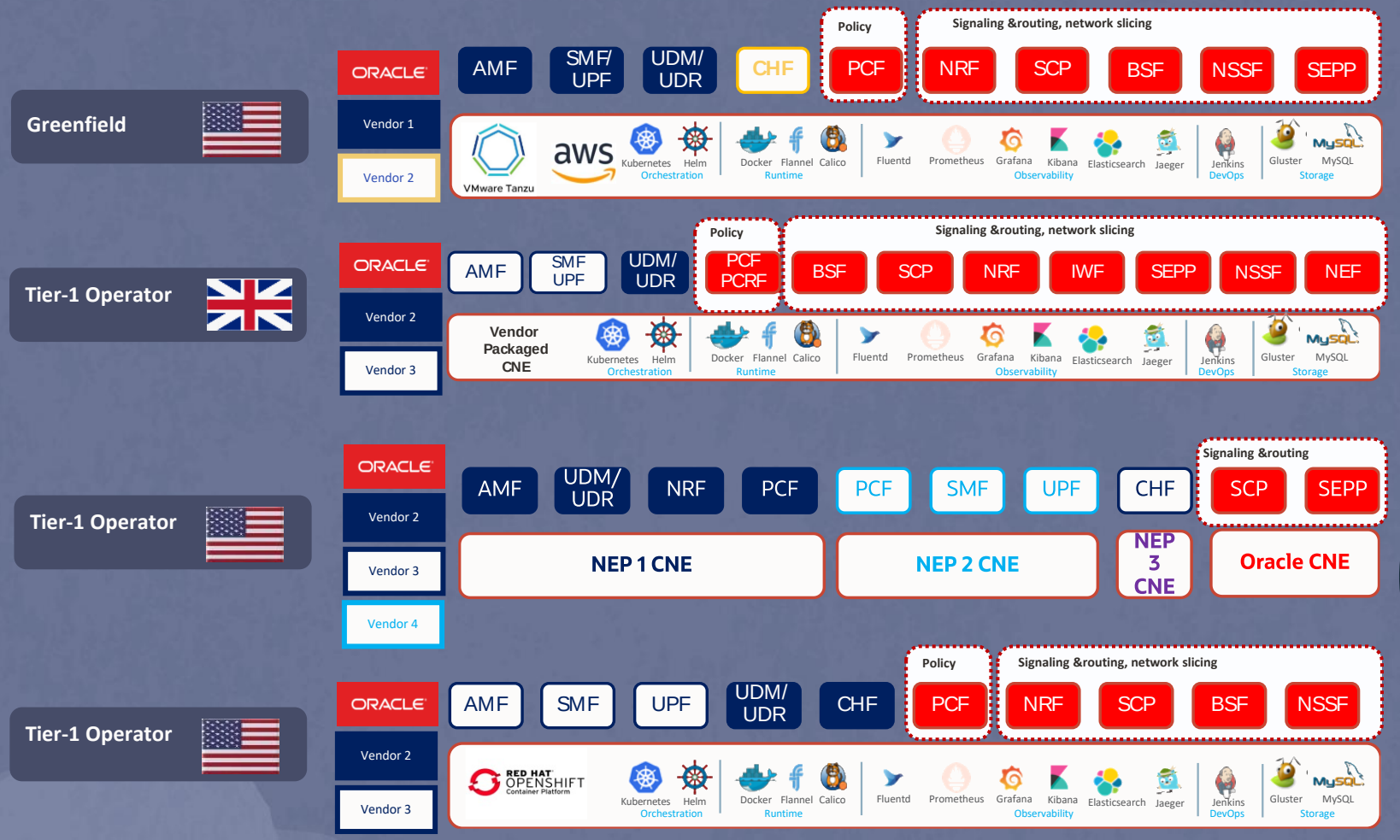
Leading operators are adopting a best of breed cloud native 5G strategy



Open-source foundation based enabling operation in any cloud

Interoperability across entire major vendor ecosystem

Focus on delivering best of breed market functionality

Extensive deployment experience and accumulation of best practice

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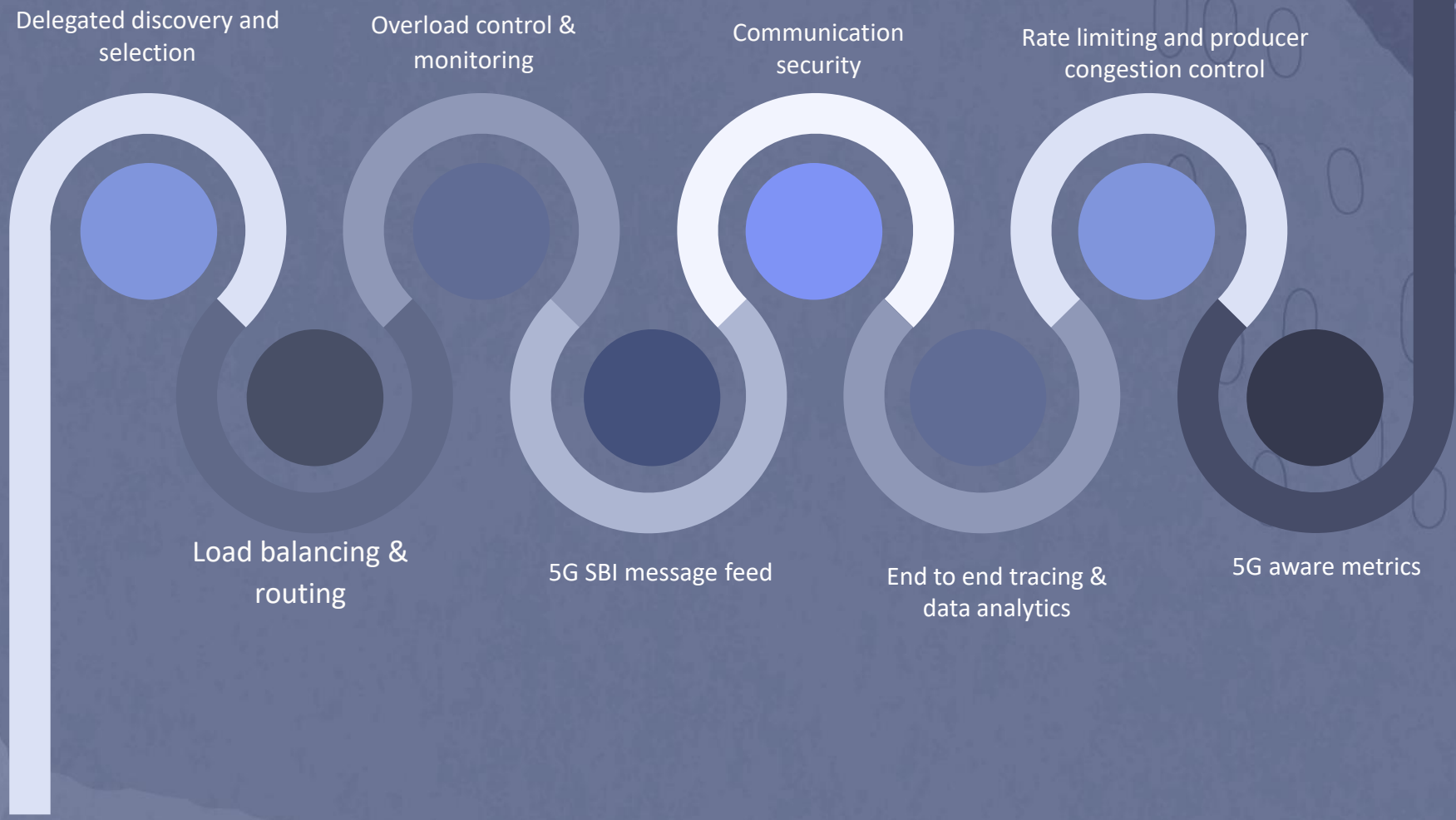
SCP is an important element of signalling & routing for a robust, reliable and secure 5G core deployment

Signalling is the brain of the network

A robust signalling framework



- **Eases the operation**
- **Enhances the resiliency of the network**
- **Provides observability into 5G core**

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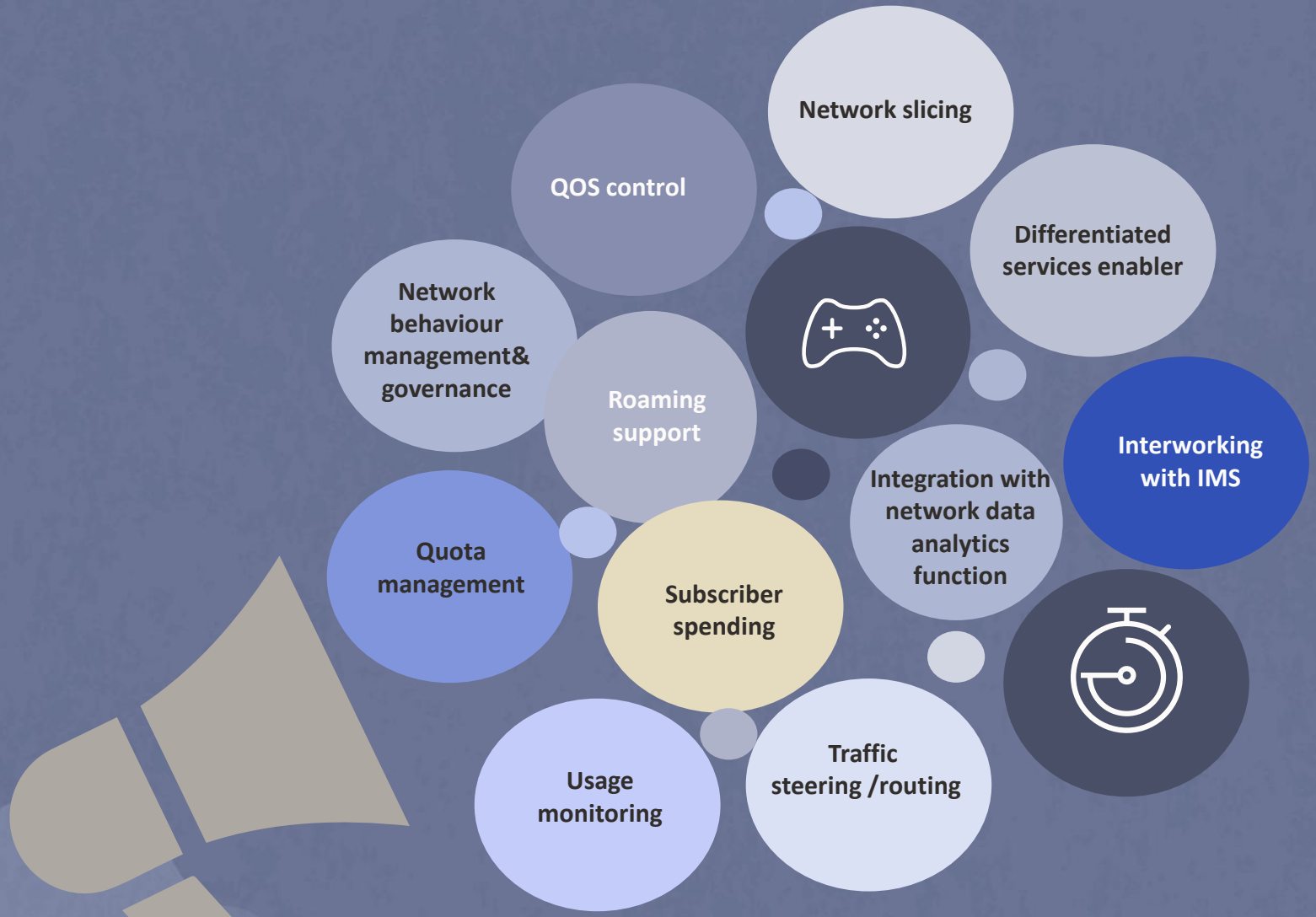
Policy management plays a critical role by providing transparency and control over the consumption of network resources during real-time service delivery



Data driven automation enabled

- Effortless policy design
- Robust policy
- Customized policy solutions
- Analytics driven
- Automation enabled

Unified policy

- 4G to 5G interworking
- Monetize , customized and differentiated services
- Quality of Service control
- Reduces complexity and maintenance

Cloud Native

- Built on CNCF principle
- Flexible deployment models
- Supports CI/CD
- 3GPP compliant
- Real time data analytics

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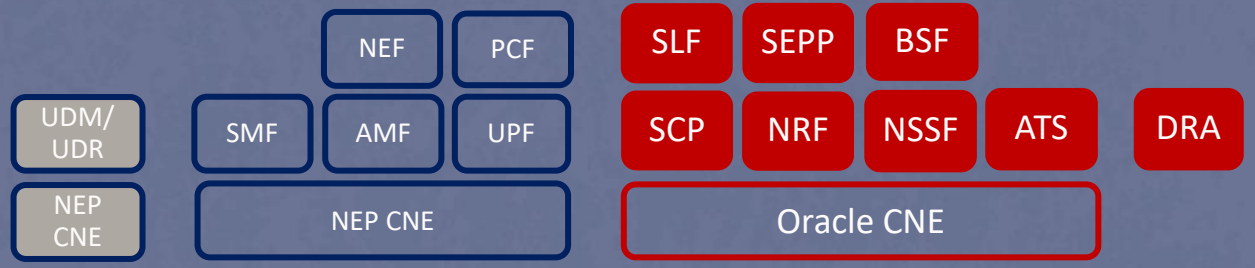
Why customers are selecting Oracle ?



5G Core Vendors

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- 5G SCP, NRF, NSSF, ATS, SEPP, BSF, SLF and DRA
- **Cloud native** architecture a key driver for automation.
- **Automated Test Suite**, as part of a CD/CT strategy, a major operator requirement
- Strong **telco heritage** - already known for our Core Routing capabilities (EAGLE and DSR). **Oracle recognized as very reliable and secure.**
- Several platforms: baremetal HP, Openstack + Contrail/Dell, Nokia IaaS/Airframe depending on affiliates.
- Different 5G packet core / policy providers, according to the affiliate (Nokia or Ericsson)
- Demonstrate technical maturity and leadership during several months of lab testing

Truly cloud native

Ground up, stateless, microservices, CNCF

Leading innovation

GA since Apr 19, 3GPP R16, Prod Grade, Features Rich

Deployment experience

verizon kt T··Mobile·

Field Deployments NOW!

Security

Oracle Highest Standards, GDPR compliance

Telco Heritage

GSMA 4G LTE UMTS

STP, MNP, DSR, PCRF

Deployment flexibility

Containers on BM or VM, private clouds

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The right implementation of tools and automation will help conquer complexity and scale 5G

5G requires a diverse ecosystem

Diverse bands of spectrum

Diverse RAN architecture

Diverse business models

Get cloud native right

- Architecture and data
- Tooling
- Skillset and culture

Rethink observability Automation and Analytics

Choose a partner that can help you deliver programmability into your core network

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