

Unlocking the Full Potential of Open RAN

With RAN Intelligent Controller

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Vodafone and partners boost 5G capacity in the first multi-vendor RAN intelligent controller implementation

Vodafone UK Press Release

Jun 3, 2021

<https://www.vodafone.com/news/press-release/vodafone-and-partners-boost-5g-capacity>

Vodafone, [Cohere Technologies](#), [VMware](#), [Capgemini Engineering](#), [Intel](#) and [Telecom Infra Project](#) (TIP) have successfully demonstrated how a powerful new Open Radio Access Network (RAN) platform can further boost the capacity of 5G where multiple customers are using the same site. The successful trial is the latest step in building a cost-effective Open RAN ecosystem that will benefit Vodafone customers.

In a test laboratory, the companies increased the capacity of a 5G cell site by two-fold using a programmable, Artificial Intelligence (AI)-based RAN Intelligent Controller (RIC) supporting a mix of Open RAN components from multiple vendors. This collaboration represents a key milestone in demonstrating the potential of RIC sitting at the heart of an Open RAN installation.

Agenda

Understanding the RAN Intelligent Controller

Open RAN is much more than open fronthaul and virtual RAN

VMware RAN Intelligent Controller

The key for operators to modernize, optimize and customize their RANs

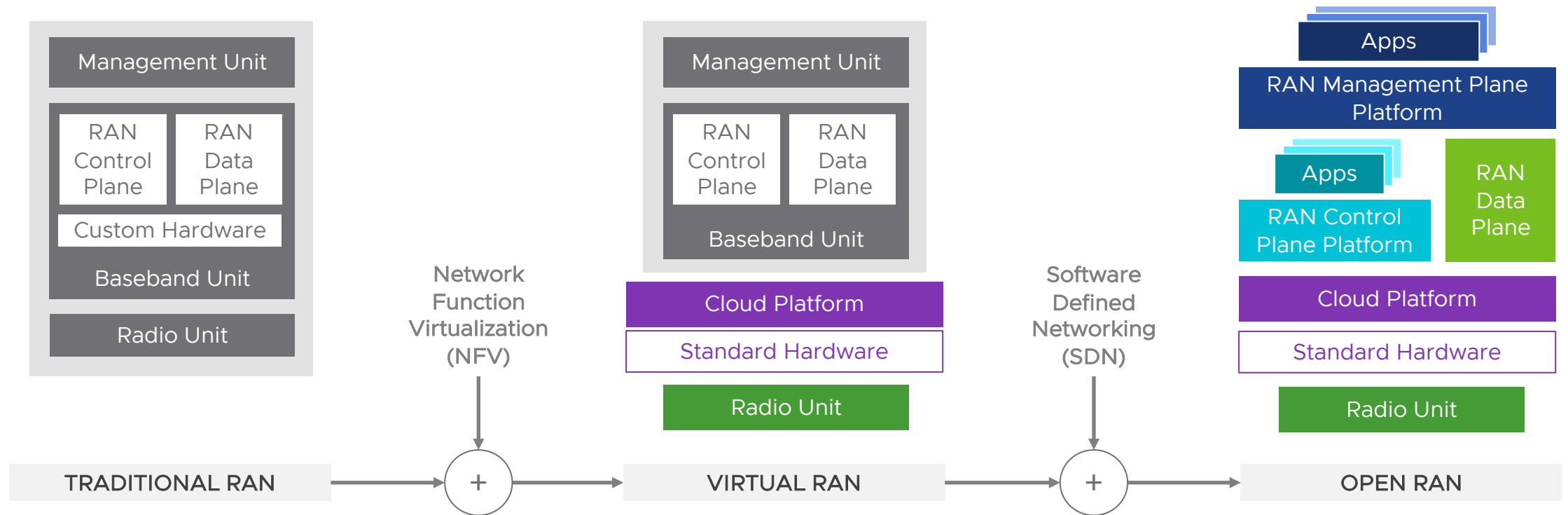
Vodafone UK Case Study

Understanding the RAN Intelligent Controller

Open RAN is much more than open fronthaul
and virtual RAN

The concept of open radio access networks (open RAN)

Open RAN = Virtual RAN + Software-Defined RAN



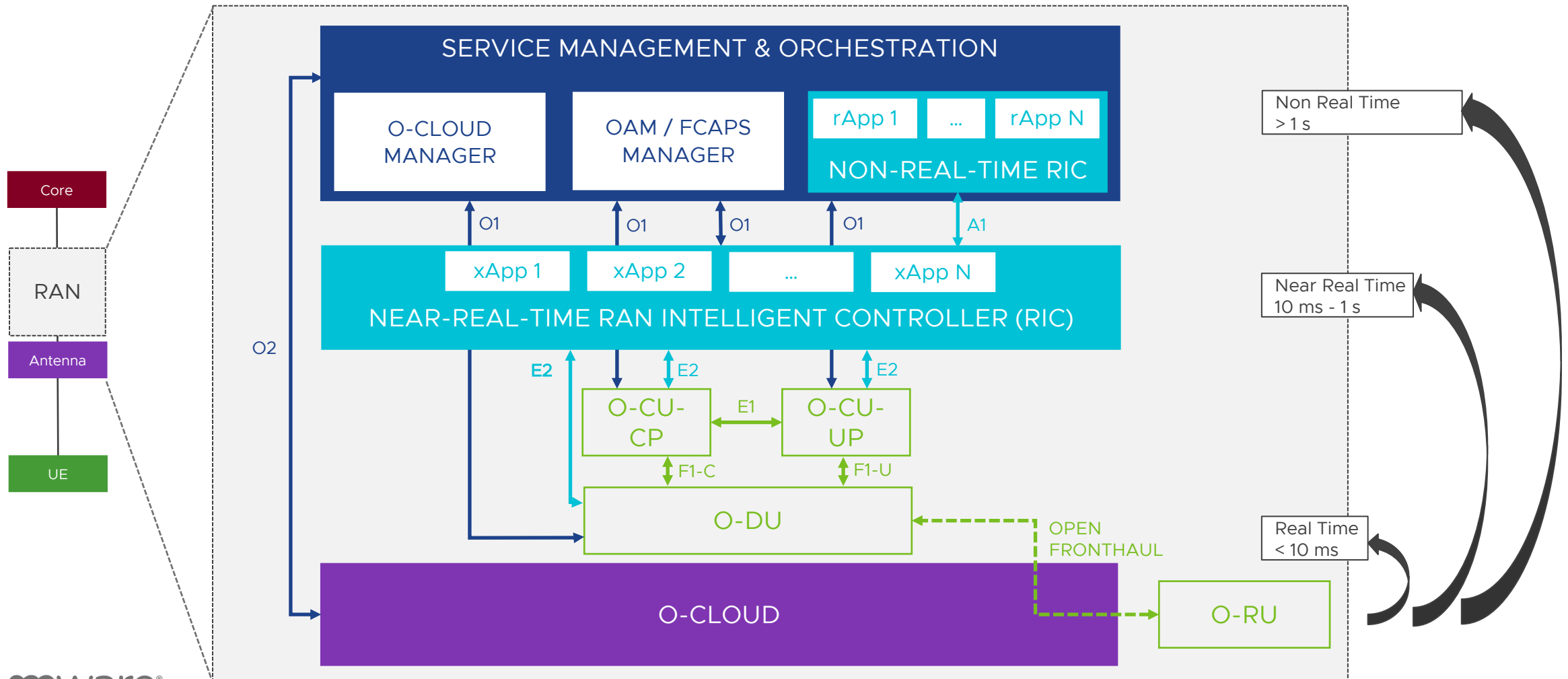
- Single vendor
- Vertically integrated
- Not programmable

- Few vendors
- Virtual & cloud native
- Not programmable

- Many vendors
- Virtual & cloud native
- Programmable

RAN Intelligent Controller (RIC) is key to success of open RAN

Enables operators to improve flexibility, customizability, agility & performance in RAN



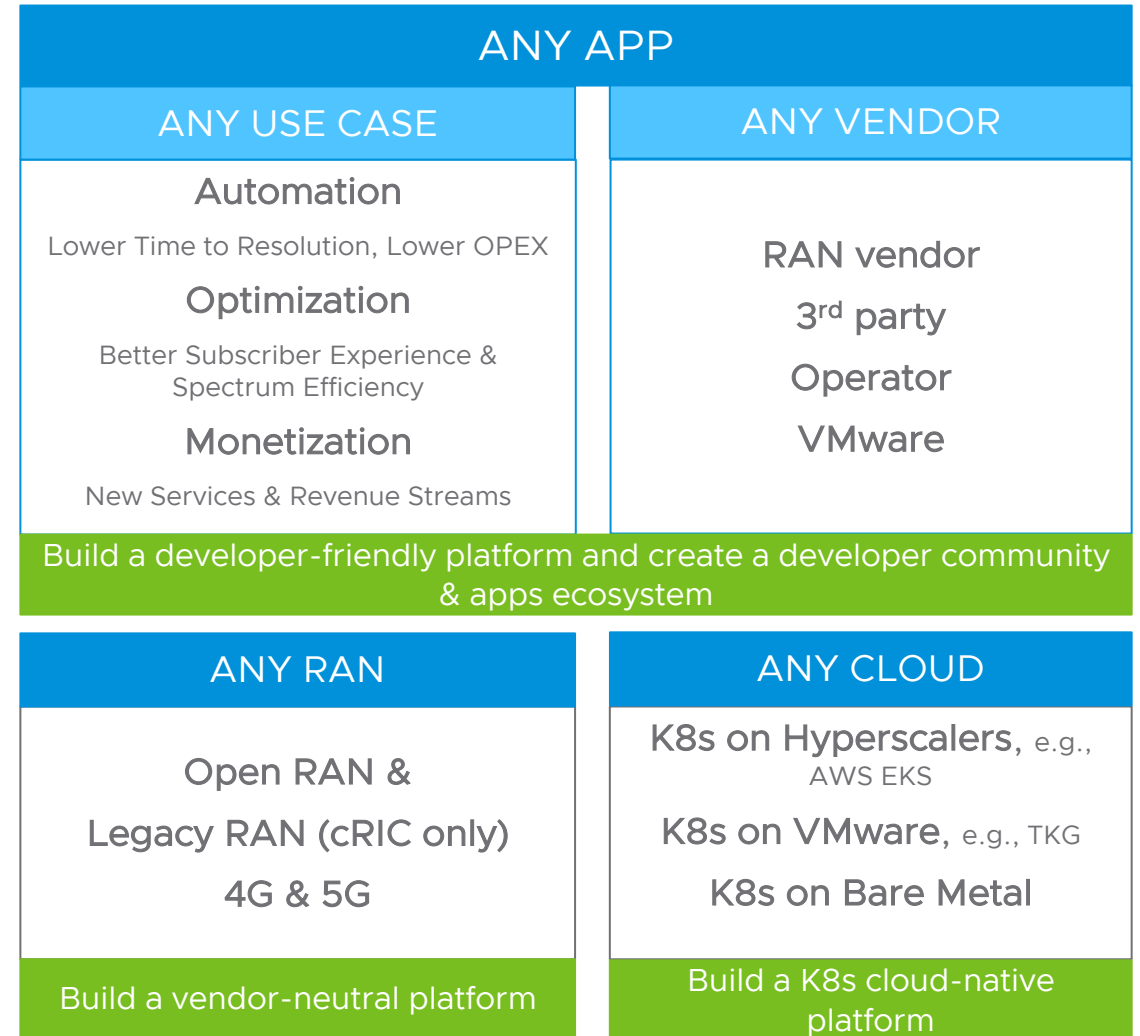
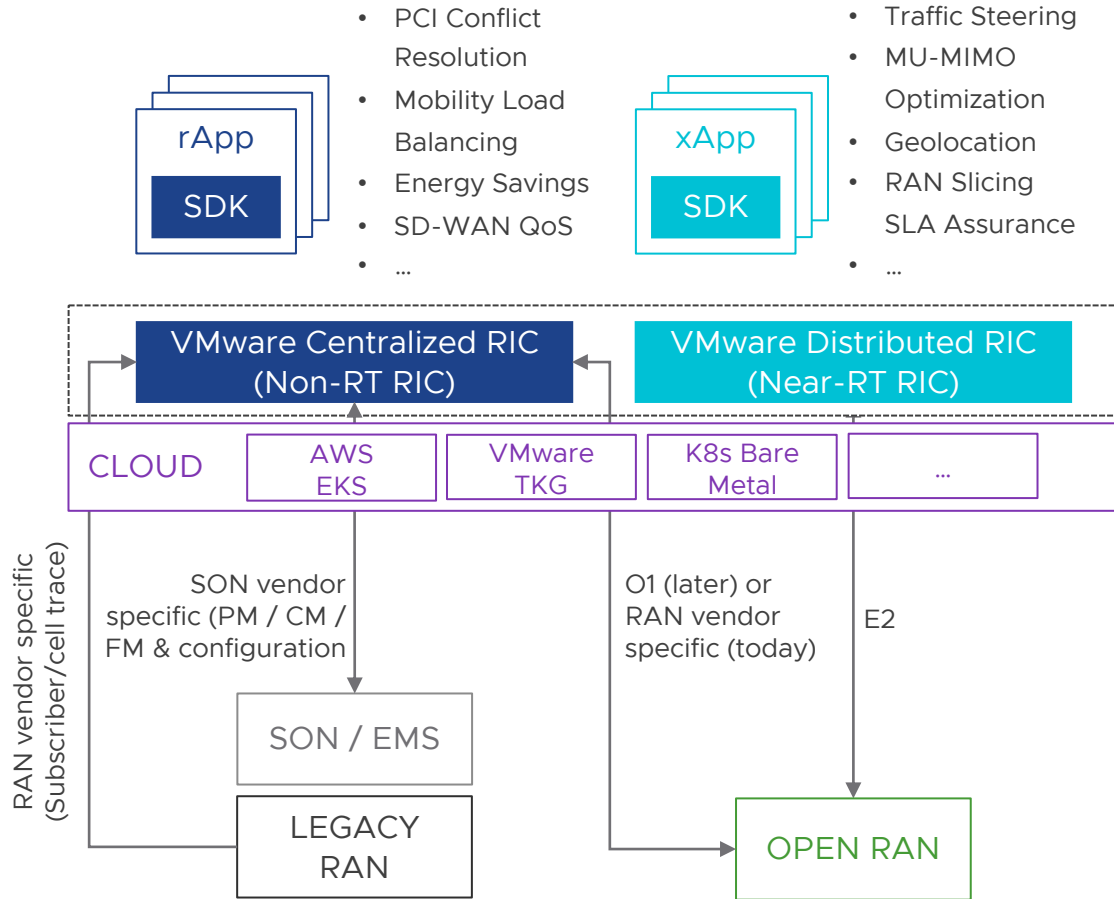
VMware RAN Intelligent Controller

The key to modernize, optimize and customize
RAN

Vodafone UK case study

VMware RIC: vision and strategy

Any App. Any RAN. Any Cloud.



Case study: 3rd-party MU-MIMO Optimization using VMware RIC

VMware RIC allowed Vodafone to insert Cohere's innovative MU-MIMO optimization solution, doubled cell capacity

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Vodafone PR:
<https://www.vodafone.com/news/press-release/vodafone-and-partners-boost-5g-capacity>

VMware Blog:
<https://blogs.vmware.com/telco/vodafone-ran-partnership/>

vmware VMware Telco Cloud Blog

Telco Cloud 5G and 6G RAN SASE and Edge Open Ecosystem

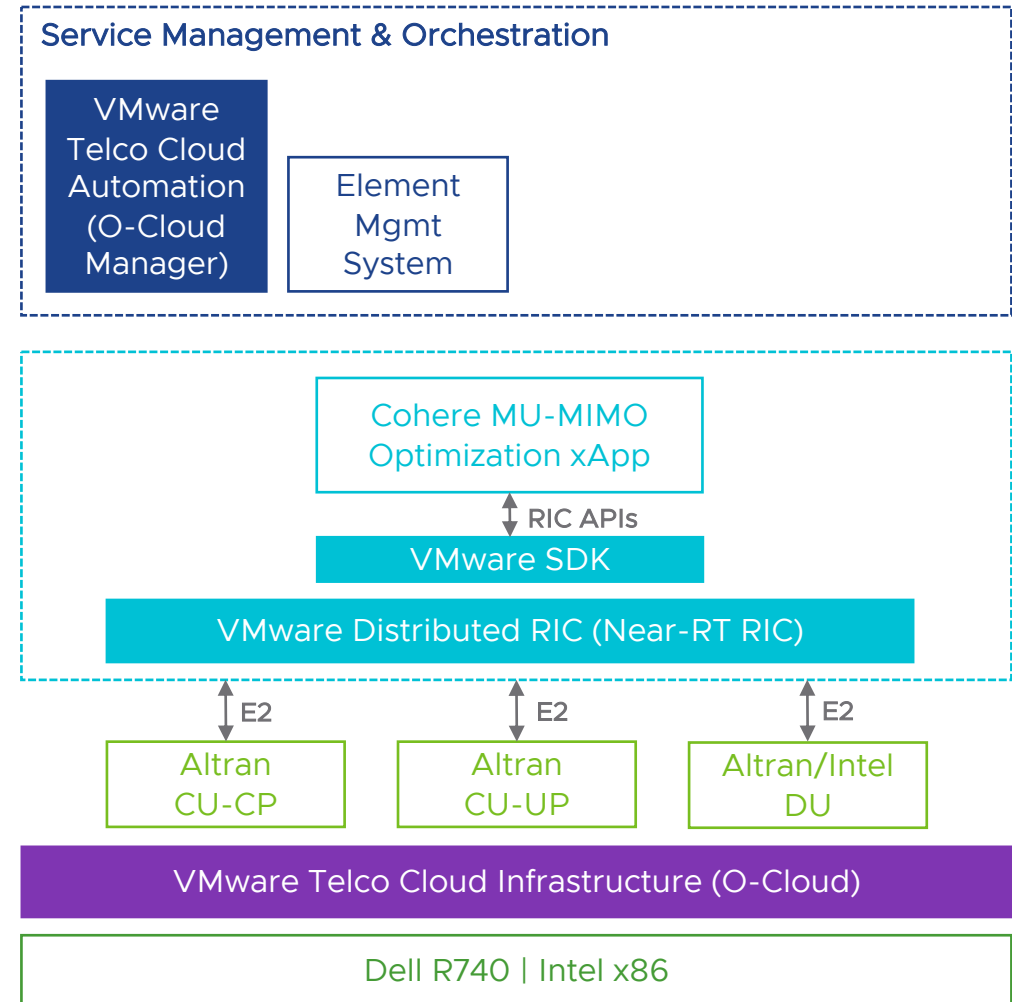
Vodafone Users Will Benefit Up to 5x Capacity

VMware and partners demonstrate how to accelerate RAN innovation.

>>> Read how in the new blog.

5G and 6G RAN Telco Cloud

With Vodafone and partners, VMware demonstrates how to accelerate innovation in the RAN





Thank You