

Top 5 **Test Challenges**

in an Open RAN environment

Explore insights on best practices for success





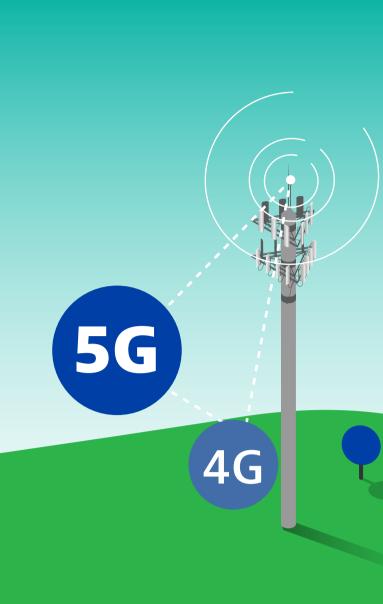
with scale and capacity

Ensure that your O-RAN Distributed Unit can

SOLUTION:

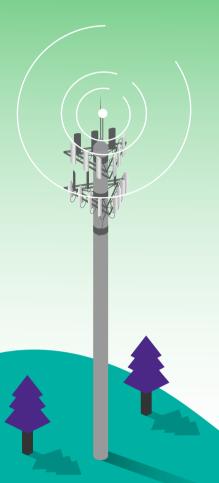
cope with high data rates and multiple 5G carriers. Choose a test partner that can emulate UEs

and O-RAN Radio Units at scale to truly test the capability of your O-RAN Distributed Unit.



radio access technologies

Ensure interoperability with legacy



for 4G users.

SOLUTION:

CHALLENGE 02

5G functionalities supported over RF can be accessed over O-RAN as it matures. This is important for network performance testing and interoperability with 4/4.5G. Choose test equipment where all

5G and O-RAN are expected to work with legacy technologies. Ensure there is no major impact on the Quality of Service (QoS)

mobility scenarios are supported over 5G is key as the deployment scenarios become more complex.

a multi-vendor scenario

CHALLENGE 03

SOLUTION:

From software release management to getting the network working, ensure that the system

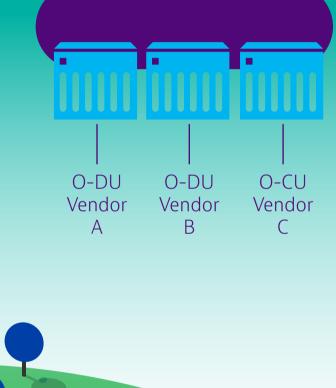
Guarantee performance in

Testing performance end-to-end is essential to ensure multi-vendor components are working

works end-to-end.

together effectively to achieve maximum network capability.

O-DU







SOLUTION: Create a stable and constant environment to give increased reliability and boost productivity by avoiding the constant changes to a real core network. You need a test portfolio that offers emulation of many components of the network including UE, RAN and Core, and wrap around of

major functions over multiple interfaces.

components that are not

readily available

SOLUTION: Availability and access to 5G features and capabilities may be limited and may not have

the sufficient coverage for a comprehensive test.

3GPP 5G features supported over RF for O-RAN.

You need seamless access to already leading

This means you can expect no performance compromises with feature combinations. For example, testing the latest high order

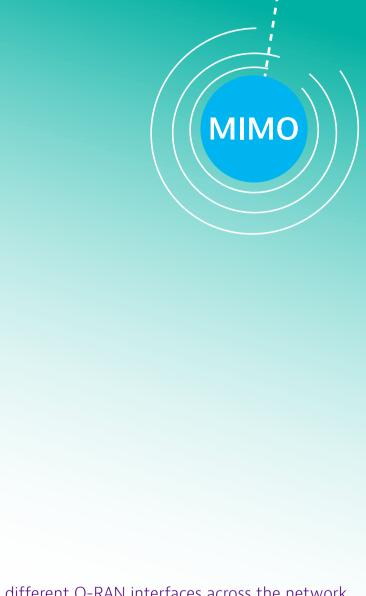
CHALLENGE 05

Limited 5G UE

feature capability

Carrier Aggregation and MIMO.

support as part of the VIAVI Lab to Field and RANtoCore solutions.



Carrier

Aggregation



VIAVI is a one stop shop, simplifying the complexity of testing different O-RAN interfaces across the network.

The VIAVI O-RAN Test Suite

You can rely on an unparalleled global support footprint, reduced complexity of integration and co-ordinated

With years of experience working alongside all major NEMs and small cell manufacturers. VIAVI has built a reputation as a trusted supplier of leading-edge cellular test equipment. Our flexible approach and ability to accommodate different customer requirements allows VIAVI to support various options and configurations that different operators require to deploy O-RAN solutions. VIAVI is part of the O-RAN Alliance and contributes to

the development of O-RAN Specifications.



Find out more about our VIAVI O-RAN Testing,

download our whitepaper: viavisolutions.com/o-ran

Command the 5G network.

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You can rely on VIAVI for tools and expertise to help you take command of 5G infrastructure build-out.

VIAVI (NASDAQ: VIAV) is a global provider of network test, monitoring and assurance solutions to