

O-RAN

INTELLIGENT OPEN VIRTUAL RAN



Deutsche Telekom and VMware are driving the ecosystem development of a cloud-based open and intelligent virtual RAN platform. The solution is jointly architected with Intel and is based on O-RAN standards. It aims to significantly improve open RAN infrastructure scalability and economics.

KEY FACTS:

- Traditional RAN becomes open RAN
- Open RAN solutions must allow scalable deployment in operator networks
- Cloud economics and agility come to LTE and 5G RAN
- Cloud-based systems increase spectral and operational efficiency in RAN
- A cloud-based platform accelerates the availability of scalable high-performance open RAN solutions
- A cloud-based virtual platform fosters an open RAN vendor ecosystem.



LIFE IS FOR SHARING.



Deutsche Telekom and VMware are collaborating on an open and intelligent virtual RAN (vRAN) platform that is based on O-RAN standards. This platform will bring agility to radio access networks (RANs) for both existing LTE and future 5G networks. VMware and Intel have architected the solution based on Intel's FlexRAN architecture. The platform is currently undergoing testing and validation at Deutsche Telekom's headquarters in Bonn, Germany.

The majority of network modernization efforts start with virtualization of the core network. But service providers are beginning to set their sights on realizing the benefits of end-to-end network transformation. They are working to virtualize all parts of their network – this includes the RAN. Moving to an open vRAN helps create a more innovative RAN environment. It introduces cloud economics in the RAN environment – an essential component for delivering apps and services over a 5G network.

The open RAN solution architecture leverages standards-based Intel processors and FlexRAN. FlexRAN is a vRAN software reference platform that runs vRAN workloads on VMware's telco cloud platform. VMware has optimized the cloud platform for real-time and low latency workloads. The solution will also feature a pre-standard, near real-time RAN Intelligent Controller (RIC) developed by VMware. The RIC will adapt O-RAN open interfaces with the required enhancements. This will enable real-time radio resource management capabilities to be delivered as applications on the platform.

CONTACT PERSON:

Gerard Lyne
E-mail: gerard.l.lyne@telekom.de
www.telekom.com

ADDRESS:

Deutsche Telekom AG
Friedrich-Ebert-Allee 140
53113 Bonn, Germany



LIFE IS FOR SHARING.