



CASE STUDY

DISH & MAVENIR: THE WORLD'S FIRST CLOUD-NATIVE 5G SA NETWORK WITH OPEN VRAN ON A PUBLIC CLOUD

Mavenir played a key role with DISH in building the world's most advanced cloud-native 5G Open RAN network, as DISH continues to change the way the world communicates.

Several Mavenir products comprise the foundation for an innovative software-defined network that has the flexibility, intelligence and scalability to deliver applications that will redefine the wireless industry. With Open RAN, the DISH 5G network runs on fully-virtualized – and typically containerized – software, deployed via the cloud across its network platform.

**Optimized network
deployment and
management**

**Increased vendor choice,
innovation and agility**

Challenge

When DISH became the 4th major US wireless operator in 2020, their Project Genesis committed to build the world's first cloud-native 5G SA Open RAN network on a hybrid cloud. This required DISH to take an innovative approach that:

- > Reduces TCO
- > Optimizes the cost of deployment and management
- > Enhances security
- > Increases vendor diversity through a choice of best-of-breed vendors
- > Meets FCC license conditions





Solution

In 2022, DISH architected and launched the most advanced cloud-native 5G SA Open vRAN network leveraging several Mavenir products:

- > [Mavenir Open vRAN](#) supports all generations (2G, 3G, 4G, 5G) and is built from the ground up to be cloud-native, with fully containerized microservices allowing it to be deployed easily on any cloud – private, hybrid or public. The network leverages 5 FDD spectrum licenses with carrier aggregation and asymmetric bandwidth.
- > [Mavenir RCS Business Messaging Solution](#) including Rich Communication Services (RCS) and Messaging-as-a-Platform (MaaP) technologies. Its open platform provides developers with everything operators need to build and deploy advanced communication applications, offering new revenue opportunities for operators looking to offer new services to enterprise customers.

Results

In just 14 months, Dish met its first FCC-mandated June 2022 deadline to cover at least 20% of the US population with its 5G network.

- > Proves 5G SA Open vRAN can be deployed at scale
- > Delivers the first 5G SA network with VoNR
- > Uses a cloud-native approach for Telco to reduce CNF deployment time by 80% vs. traditional methods (from days to minutes)
- > Surpassed 5,000 sites deployed in 120 markets at >100 DU/CUs daily
- > Provides subscribers with the of three networks (Dish, AT&T and T-Mobile) for US coverage with roaming agreements

About Mavenir

Mavenir is building the future of networks and pioneering advanced technology, focusing on the vision of a single, software-based automated network that runs on any cloud. As the industry's only end-to-end, cloud-native network software provider, Mavenir is transforming the way the world connects, accelerating software network transformation for 250+ Communications Service Providers in over 120 countries, which serve more than 50% of the world's subscribers.

For more on Mavenir solutions please visit our website at www.mavenir.com