



SOLUTION BRIEF

MAVENIR'S CBRS/ONGO SOLUTION

Mavenir's OnGo-certified CBRS offering is designed to fulfill communication needs and address business critical challenges by providing the essential 4 C's for a network: 3GPP quality **coverage** across enterprises; Increased **control** of the Network; lower **cost** of ownership by an end-to-end software-based network on COTS platform or public cloud; and finally, **compensation** by enabling monetization and revenue generation capabilities.

Mavenir's Cloud-native, End-to-end CBRS Network

5G Ready – Define Future Technology Evolution - Mavenir offers its full portfolio of 4G and 5G solutions for the Private Networks market to address the needs of Enterprises, Industries and Service Providers.

OnGo Alliance and Certification - Mavenir is a proud member of the OnGo Alliance, a group dedicated to the establishment, advocacy, and adoption of the 3.5 GHz band in the US. In addition, Mavenir's three CBRS radio units are OnGo Certified, meeting the high set of industry standards for interoperability and security.

Fully Automated Deployment and Management - Fully automated deployment and management provides single pane of glass view of all solution components, manage network resources, network topology, remote monitoring, service assurance and diagnostics.

Invest to Grow, Scale with Growth - End-to-end distributed cloud-based capabilities with fast on-boarding and reliability. Commercial model that allows investment to grow, beginning with an all-inclusive starter kit.

Mavenir as an Award-Winning Innovator - Mavenir's 5G-ready Open Virtualized RAN solution (Open vRAN) has won awards and recognition around the world.

One Stop Shop - Open Architecture based approach enabling bigger and broader ecosystems, including digital marketplace of device and application partner eco-system.

Accelerating Digital Transformation of Enterprise and Industry

The Mavenir CBRS/OnGo portfolio consists of certified CBRS Basestation Devices (CBSD) and associated cloud services that are necessary elements to operate private 4G and 5G networks. With Mavenir, deploying a CBRS/OnGo ready private network can be as simple as defining the coverage area, installing the access points, subscribing to needed cloud services and turning on the system.



Mavenir embraces disruptive, innovative technology architectures and business models that drive service agility, flexibility, and velocity. Mavenir’s end-to-end 4G/5G system and CBRS/OnGo ready solution, based on cloud-native and open architecture principles, is highly suited to address both mass scale private enterprise use cases as well as bespoke high-end use cases for advanced industries. In addition, Mavenir established a CBRS/OnGo lab for testing interoperability at its Richardson, Texas headquarters.

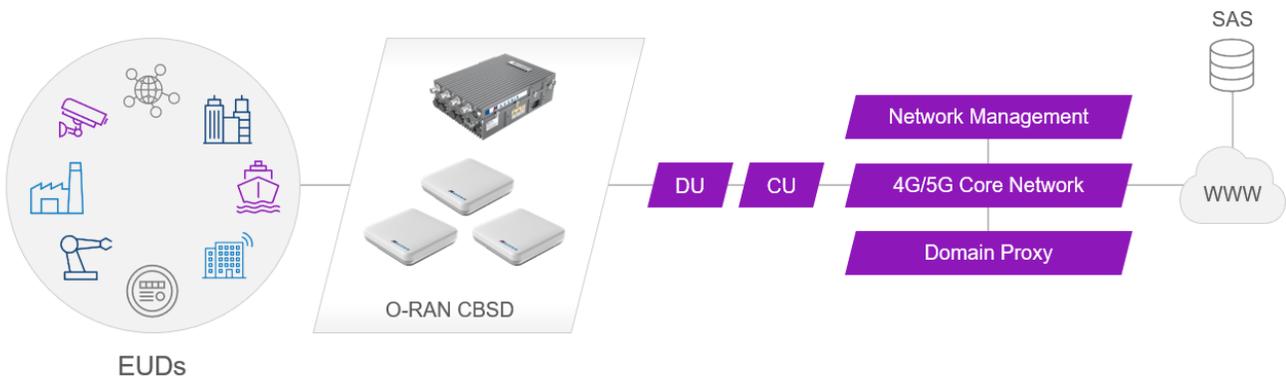


Figure 1: O-RAN CBRS Architecture

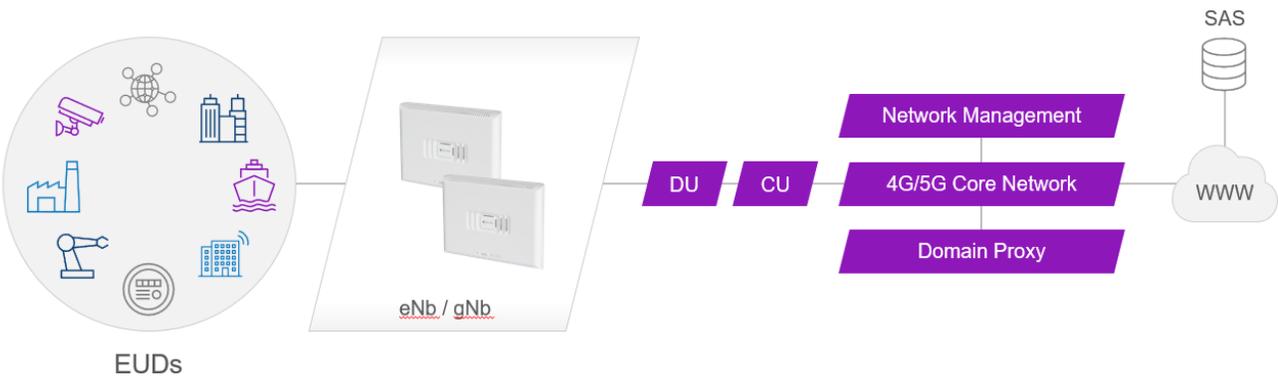


Figure 2: S-1-based CBRS Architecture



Mavenir's OnGo Certified CBRS Radio Units

CBRS Indoor Radio Unit N2RU

- > Supports CBRS B48, 4T4R MIMO
- > 150MHz Operation Bandwidth
- > 5/10/15/20 MHz Bandwidth
- > Flexible Band configuration Multi power, Carrier, and Band Radio
- > Indoor coverage up to 8000 sq feet
- > DAS/Small cell mode

CBRS Outdoor Radio Unit M2RU

- > Supports CBRS B48, 4T4R MIMO
- > 150 MHz Operation Bandwidth
- > 5/10/15/20 MHz Bandwidth
- > Supports CPRI/ORAN 7.2 eCPRI Interface
- > 5W Radio

CBRS Indoor S-1 Based Radio Unit E61

- > Supports CBRS B48, LTE 2x2 MIMO
- > 150 MHz Operation Bandwidth
- > 5/10/15/20 MHz Bandwidth
- > Indoor coverage up to 8000 sq feet
- > Direct S1 to MME or via Aggregated S1 via HeNB-GW

Cloud Powered Capabilities

The Mavenir CBRS Private Network allows users to access services in a cost-effective manner by using network elements comprising of: Mavenir Evolved Packet Core, O-RAN central units, and components of Mavenir Digital Enablement platform. The solution allows for centralized management of all private network components, including providing onboarding, charging/accounting, and other BSS capabilities.

This efficient and scalable solution is future-proof and upgradable to standalone 5GC. The components can be hosted on premise or in the cloud.

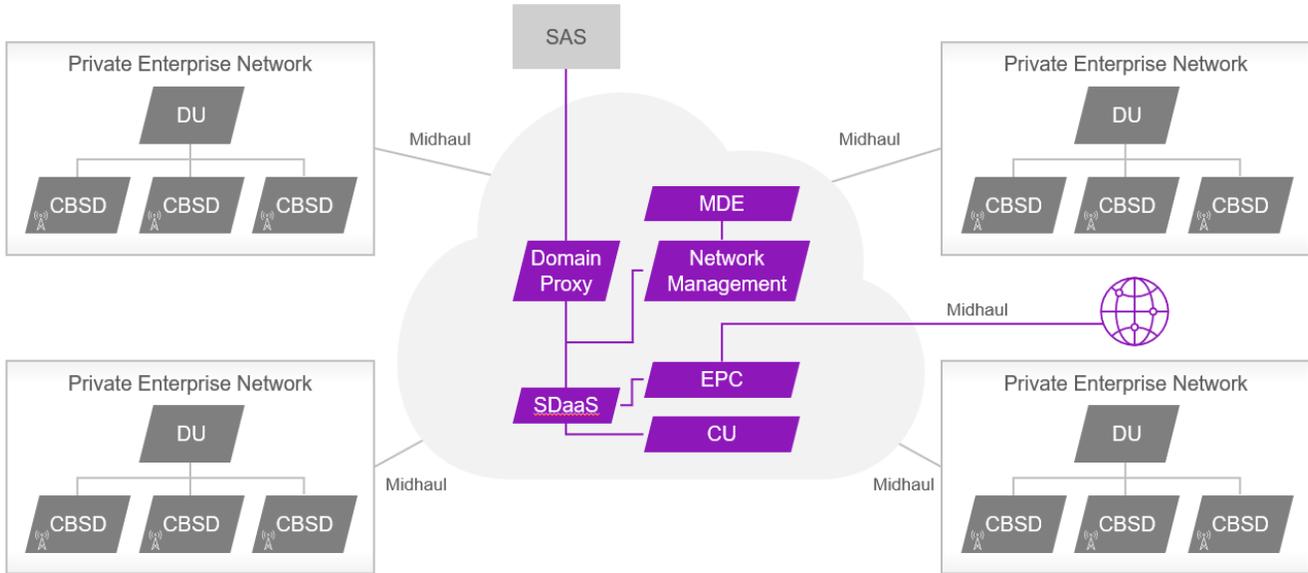


Figure 3: CBRS Network

Build Your Own Private Network



Define coverage area



Install access points



Subscribe to needed cloud services



Turn system on

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