

# Virtualized Radio Access Network Market Size, Share & Trends Analysis Report By Component (Hardware, Software), By Deployment Type, By Network Type, By End Use, By Region, And Segment Forecasts, 2025 - 2033

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## Abstracts

### Virtualized Radio Access Network (vRAN) Market Summary

The global virtualized radio access network market size was estimated at USD 16.61 billion in 2024 and is projected to reach USD 79.71 billion by 2033, growing at a CAGR of 19.5% from 2025 to 2033. The virtualized radio access network (vRAN) market is being driven by the growing demand for flexible, scalable, and cost-efficient mobile network infrastructure.

Increased data traffic, the global rollout of 5G networks, and the need for network densification have led operators to adopt virtualized architectures. The global deployment of 5G networks has become a key driver for the growth of the vRAN market. Telecom providers are upgrading their current infrastructure to enable higher bandwidth and lower latency, which increases the adoption of vRAN due to its flexible and scalable deployment options. Network densification through small cells and distributed units is also more efficiently supported by vRAN, as it separates hardware from software and allows for centralized control. This trend is especially noticeable in urban areas, where high data usage and spectrum efficiency are critical.

Artificial Intelligence (AI) and Machine Learning (ML) are increasingly being integrated into vRAN systems to enable predictive analytics, real-time optimization, and automated fault detection. These technologies assist operators in managing growing data volumes, enhancing quality of service, and reducing human intervention in network operations. AI-

powered RAN Intelligent Controllers (RICs) are becoming key components of the vRAN ecosystem, allowing for smarter, self-optimizing networks. This trend is especially advantageous for telecom providers aiming to improve operational efficiency and minimize downtime in high-density traffic environments.

## Global Virtualized Radio Access Network Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global virtualized radio access network market report based on component, deployment type, network type, end use, and region.

### Component Outlook (Revenue, USD Million, 2021 - 2033)

Hardware

Software

Services

### Deployment Type Outlook (Revenue, USD Million, 2021 - 2033)

Public

Private

Hybrid

### Network Type Outlook (Revenue, USD Million, 2021 - 2033)

2G/3G

4G/LTE

5G

### End Use Outlook (Revenue, USD Million, 2021 - 2033)

Telecommunication Operators

Government & Defense

Commercial

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Asia Pacific

China

Japan

India

South Korea

Australia

Latin America

Brazil

Middle East and Africa (MEA)

KSA

UAE

South Africa

**This report can be delivered to the clients within 3 Business Days**

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