

Global 5G RAN Professional Services Market Size study, by Service Type (Consulting Services, Planning & Design Services), by Deployment Mode (On-premises, Cloud), by End Use, and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/GA45C9BCE7E1EN.html>

Date: May 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: GA45C9BCE7E1EN

Abstracts

Global 5G RAN Professional Services Market is valued approximately at USD 4.99 billion in 2023 and is anticipated to grow with a vigorous CAGR of more than 17.00% over the forecast period 2024-2032. As telecom operators globally accelerate the deployment of 5G infrastructure, the demand for professional services tailored to support Radio Access Network (RAN) development has surged dramatically. These services encompass end-to-end consulting, network planning, architectural design, and system integration, all of which are mission-critical for ensuring seamless 5G rollout. As 5G networks promise ultra-low latency, enhanced bandwidth, and massive connectivity, the complexity of deployment has also amplified, prompting service providers to invest in expert-led solutions that ensure regulatory compliance, reduce time-to-market, and deliver robust network performance. This is driving an industry-wide shift toward RAN-centric service models that align with evolving standards and the dynamic spectrum ecosystem.

A key catalyst for market growth lies in the surging need for agile and scalable network infrastructure to support a wide array of applications including autonomous mobility, smart manufacturing, real-time remote healthcare, and immersive media. With traditional network architectures unable to meet these growing requirements, operators are turning to next-generation RAN solutions backed by strategic service offerings. Consulting services, in particular, are witnessing elevated traction as telcos face challenges related to spectrum harmonization, cost optimization, and infrastructure interoperability. Moreover, the proliferation of Open RAN (O-RAN) architecture has

opened new avenues for vendors and integrators to offer value-added design and planning services that enable disaggregated network functions, fostering competitive diversity and vendor-neutral networks.

The migration toward cloud-native network deployments further amplifies the significance of 5G RAN professional services. Cloud deployment models are gaining preference due to their flexibility, lower capital expenditure, and rapid scalability. These models are enabling telecom operators and private network deployers to virtualize RAN components, accelerating time-to-deployment and service innovation. Simultaneously, enterprises from various verticals—such as manufacturing, automotive, logistics, and utilities—are increasingly seeking customized 5G RAN solutions, thereby widening the addressable market for professional service providers. The shift toward network slicing, software-defined infrastructure, and AI-driven automation is pushing the boundaries of conventional service models, creating demand for highly specialized design and consulting services.

Market leaders are capitalizing on these opportunities by forming strategic alliances, investing in R&D for O-RAN and vRAN compatibility, and expanding their service portfolios to offer full lifecycle management—from concept to rollout. Additionally, the entrance of system integrators and cloud hyperscalers into the 5G ecosystem is reshaping competition and fostering innovation. These collaborations are also streamlining service delivery and enabling turnkey solutions for telcos and enterprises alike. The industry is also seeing increased focus on sustainability and energy efficiency in 5G RAN deployment, encouraging service providers to incorporate green network planning and energy optimization strategies into their offerings.

Regionally, North America dominates the 5G RAN professional services market, attributed to early 5G adoption, robust telecom infrastructure, and strong investments by leading operators and tech firms. The region is home to major vendors and integrators who are driving innovation in Open RAN and cloud-native RAN deployments. Europe follows closely, with countries like Germany, the UK, and France accelerating their 5G deployments through public-private partnerships and regulatory incentives. Meanwhile, Asia Pacific is poised to exhibit the fastest growth, propelled by high data consumption, rapid urbanization, and aggressive 5G rollouts in countries like China, India, Japan, and South Korea. These dynamics underscore a globally synchronized race toward 5G realization, placing professional services at the core of this transformation.

Major market player included in this report are:

Nokia Corporation

Huawei Technologies Co., Ltd.

Telefonaktiebolaget LM Ericsson

Samsung Electronics Co., Ltd.

NEC Corporation

ZTE Corporation

Mavenir Systems, Inc.

Fujitsu Limited

Tech Mahindra Limited

Infosys Limited

Accenture plc

Capgemini SE

IBM Corporation

HCL Technologies Limited

Cisco Systems, Inc.

The detailed segments and sub-segment of the market are explained below:

By Service Type

Consulting Services

Planning & Design Services

By Deployment Mode

On-premises

Cloud

By End Use

Telecom Operators

Enterprises

Government & Public Sector

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Companies Mentioned

Nokia Corporation

Huawei Technologies Co., Ltd.

Telefonaktiebolaget LM Ericsson

Samsung Electronics Co., Ltd.

NEC Corporation

ZTE Corporation

Mavenir Systems, Inc.

Fujitsu Limited

Tech Mahindra Limited

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