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Global RAN Automation and RIC Market 2025 by Company, Regions, Type and Application, Forecast to 2031

https://marketpublishers.com/r/G446AA42F4E6EN.html
Date: January 2025
Pages: 113
Price: US$ 3,480.00 (Single User License)
ID: G446AA42F4E6EN

Abstracts

According to our (Global Info Research) latest study, the global RAN Automation and RIC market size was valued at US$ 866 million in 2024 and is forecast to a readjusted size of USD 15120 million by 2031 with a CAGR of 50.8% during review period.

RAN automation takes over the role of carrying out daily repetitive tasks and processes by using a machine-learning functionality that is focused on the radio network. A RAN Intelligent Controller is a software-defined component of the Open Radio Access Network (Open RAN) architecture that’s responsible for controlling and optimizing RAN functions. The RIC is a critical piece of the Open RAN disaggregation strategy, bringing multivendor interoperability, intelligence, agility, and programmability to radio access networks. The RIC enables the onboarding of third-party applications that automate and optimize RAN operations at scale. The RAN Automation and RIC product in the early stage (before 2020) of development is mainly a test version. Therefore, the test version of the product is also included in this report.

Global key players of RAN Automation and RIC include Nokia, Parallel Wireless, Ericsson, Juniper Networks, etc. Global top five manufacturers hold a share over 76%. In terms of product, not real time is the largest segment, with a share over 85%. And in terms of application, the largest application is indoor base station, with a share over 87%.

The driving factors of the RAN Automation (Radio Access Network Automation) and RIC (RAN Intelligent Controller) markets can be summarized as follows:

RAN Automation Market Drivers

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Increased Network Complexity and Operation and Maintenance Costs:

With the deployment of 5G and future 6G networks, the complexity of RAN networks has increased significantly, and operation and maintenance costs have also risen accordingly. RAN Automation can effectively reduce operation and maintenance costs and improve network operation efficiency through automation tools and technologies.

Demand for network performance optimization:

In order to ensure the stable operation and efficient performance of the network, RAN Automation can provide functions such as real-time monitoring, troubleshooting and automatic repair to meet the needs of network performance optimization.

Technological innovation and standardization promotion:

The continuous development and standardization process of automation technology have accelerated the popularization and application of RAN Automation.

RIC Market Drivers

Growing Network Management Demand:

With the continuous expansion and complexity of RAN networks, the demand for efficient and intelligent network management is increasing. RIC can achieve optimized scheduling and efficient management of network resources by providing cross-ecosystem collaboration and open interfaces.

Technological Convergence and Innovation:

The RIC market benefits from the convergence and innovation of technologies such as AI, big data, and cloud computing. These technologies provide RIC with more powerful data processing and analysis capabilities, enabling it to better adapt to complex and changing network environments.

Policy support and industrial development:

The attention and support of governments of various countries for 5G and future communication technologies have provided a good policy environment for the

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development of the RIC market. At the same time, with the rapid development of the global communications industry, as one of the key infrastructures, the market demand for RIC will continue to grow.

Market demand drive:

RIC can meet the needs of operators for efficient, flexible and intelligent network management, especially in responding to emergencies, ensuring network stability and improving user experience. Therefore, market demand is one of the important factors driving the development of the RIC market.

In summary, the driving factors of the RAN Automation and RIC markets mainly include the increase in network complexity and operation and maintenance costs, the demand for network performance optimization, the promotion of technological innovation and standardization, the growth of network management needs, technological integration and innovation, policy support and industrial development, and market demand drive. These factors have jointly promoted the rapid development of the RAN Automation and RIC markets and laid a solid foundation for their future development.

This report is a detailed and comprehensive analysis for global RAN Automation and RIC market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global RAN Automation and RIC market size and forecasts, in consumption value ($ Million), 2020-2031

Global RAN Automation and RIC market size and forecasts by region and country, in consumption value ($ Million), 2020-2031

Global RAN Automation and RIC market size and forecasts, by Type and by Application, in consumption value ($ Million), 2020-2031

Global RAN Automation and RIC market shares of main players, in revenue ($ Million),

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2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for RAN Automation and RIC

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global RAN Automation and RIC market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nokia, Parallel Wireless, Ericsson, Juniper Networks, Vmware, Mavenir, Altiostar, ASOCS, AirHop Communications, Atrinet, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

RAN Automation and RIC market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Not Real Time

Near Real Time

Market segment by Application

Indoor Base Station

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Outdoor Base Station

Market segment by players, this report covers

Nokia

Parallel Wireless

Ericsson

Juniper Networks

Vmware

Mavenir

Altiostar

ASOCS

AirHop Communications

Atrinet

STL

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

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Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe RAN Automation and RIC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of RAN Automation and RIC, with revenue, gross margin, and global market share of RAN Automation and RIC from 2020 to 2025.

Chapter 3, the RAN Automation and RIC competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025.and RAN Automation and RIC market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of RAN Automation and RIC.

Chapter 13, to describe RAN Automation and RIC research findings and conclusion.

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