

# 5G Network And Service Assurance Market - Strategic Insights and Forecasts (2026-2031)

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## Abstracts

The global 5G network and service assurance market is forecast to grow at a CAGR of 6.8%, reaching USD 7.5 billion in 2031 from USD 5.4 billion in 2026.

The 5G network and service assurance market is strategically positioned at the core of next-generation digital infrastructure. As telecom operators expand 5G deployments, service assurance solutions play a critical role in maintaining network reliability, performance optimization, and customer experience management. Macro drivers include rapid data traffic growth, increasing adoption of cloud-based applications, and rising demand for ultra-low latency services across industrial and consumer use cases. Enterprises and governments are accelerating digital transformation programs, which increases pressure on network operators to deliver uninterrupted and high-quality connectivity. Service assurance platforms enable proactive monitoring and fault resolution, making them essential to large-scale 5G rollouts.

## Market Drivers

One of the primary drivers is the expansion of 5G infrastructure across urban and industrial regions. Network densification and virtualization increase operational complexity, which raises the need for automated monitoring and analytics solutions. Growing use of Internet of Things devices and connected systems creates higher traffic volumes and diverse service requirements. Telecom operators must ensure service continuity for applications such as smart manufacturing, autonomous mobility, and remote healthcare. Demand for real-time performance visibility and predictive maintenance further supports adoption. Increasing customer expectations for seamless connectivity also drive investments in assurance platforms. Regulatory requirements related to service quality and network resilience add another layer of demand. Cloud-

native network architectures and software-defined networking increase reliance on intelligent assurance tools for end-to-end visibility.

### Market Restraints

High implementation and integration costs remain a major challenge, especially for small and mid-sized operators. Legacy network systems are often difficult to integrate with modern assurance platforms, which increases deployment time and complexity. Shortage of skilled professionals in advanced analytics and network automation limits effective utilization of assurance solutions. Data security and privacy concerns create hesitation in adopting cloud-based monitoring tools. In developing regions, limited 5G coverage and slower infrastructure investments restrict short-term market growth. Uncertainty around return on investment for advanced assurance systems also constrains spending in cost-sensitive markets.

### Technology and Segment Insights

The market can be segmented by component, deployment model, end user, and application. Components include solutions and services such as network monitoring, fault management, and performance analytics. Deployment models cover on-premise and cloud-based platforms. End users include telecom service providers and large enterprises with private 5G networks. Application segments include network optimization, customer experience management, and service quality assurance. Technological advancements focus on artificial intelligence and machine learning to enable predictive analytics and automated fault detection. Real-time data processing and advanced visualization tools improve operational decision-making. Virtualized and cloud-native assurance platforms support scalability and faster deployment. Integration with orchestration and network management systems enhances end-to-end service visibility.

### Competitive and Strategic Outlook

The competitive landscape consists of established telecom software vendors and specialized network analytics providers. Companies emphasize innovation in automation and intelligence-driven assurance solutions. Strategic partnerships with telecom operators and cloud service providers strengthen market presence. Expansion into emerging markets with growing 5G investments remains a key growth strategy. Vendors focus on modular and scalable platforms to address varying operator requirements. Continuous upgrades and customization capabilities are important for

long-term customer retention. Competitive positioning depends on technological maturity, service reliability, and ability to support complex multi-vendor networks.

The 5G network and service assurance market is expected to grow steadily through 2031, supported by expanding 5G deployments and rising network complexity. While cost and integration challenges persist, advancements in analytics and automation will strengthen adoption. The market outlook remains positive as reliable network performance becomes a critical requirement for digital economies.

### Key Benefits of this Report

**Insightful Analysis:** Gain detailed market insights across regions, customer segments, policies, socio-economic factors, consumer preferences, and industry verticals.

**Competitive Landscape:** Understand strategic moves by key players to identify optimal market entry approaches.

**Market Drivers and Future Trends:** Assess major growth forces and emerging developments shaping the market.

**Actionable Recommendations:** Support strategic decisions to unlock new revenue streams.

**Caters to a Wide Audience:** Suitable for startups, research institutions, consultants, SMEs, and large enterprises.

### What Businesses Use Our Reports For

Industry and market insights, opportunity assessment, product demand forecasting, market entry strategy, geographical expansion, capital investment decisions, regulatory analysis, new product development, and competitive intelligence.

### Report Coverage

Historical data from 2021 to 2024, Base Year 2025, Forecast Years 2026-2031

Growth opportunities, challenges, supply chain outlook, regulatory framework,

and trend analysis

Competitive positioning, strategies, and market share evaluation

Revenue growth and forecast assessment across segments and regions

Company profiling including strategies, products, financials, and key developments

## Contents

### **1. EXECUTIVE SUMMARY**

### **2. MARKET SNAPSHOT**

- 2.1. Market Overview
- 2.2. Market Definition
- 2.3. Scope of the Study
- 2.4. Market Segmentation

### **3. BUSINESS LANDSCAPE**

- 3.1. Market Drivers
- 3.2. Market Restraints
- 3.3. Market Opportunities
- 3.4. Porter's Five Forces Analysis
- 3.5. Industry Value Chain Analysis
- 3.6. Policies and Regulations
- 3.7. Strategic Recommendations

### **4. 5G NETWORK AND SERVICE ASSURANCE MARKET BY SOLUTION**

- 4.1. Introduction
- 4.2. Fault Management
- 4.3. Performance Management
- 4.4. Configuration Management

### **5. 5G NETWORK AND SERVICE ASSURANCE MARKET BY ASSURANCE TYPE**

- 5.1. Introduction
- 5.2. Quality Assurance
- 5.3. Network Assurance
- 5.4. Security Assurance

### **6. 5G NETWORK AND SERVICE ASSURANCE MARKET BY ARCHITECTURE**

- 6.1. Introduction
- 6.2. Core

### 6.3. RAN

## **7. 5G NETWORK AND SERVICE ASSURANCE MARKET BY GEOGRAPHY**

### 7.1. Introduction

### 7.2. Americas

#### 7.2.1. USA

#### 7.2.2. Others

### 7.3. Europe, the Middle East, and Africa

#### 7.3.1. United Kingdom

#### 7.3.2. Germany

#### 7.3.3. Others

### 7.4. Asia Pacific

#### 7.4.1. China

#### 7.4.2. Japan

#### 7.4.3. South Korea

#### 7.4.4. Others

## **8. COMPETITIVE ENVIRONMENT AND ANALYSIS**

### 8.1. Major Players and Strategy Analysis

### 8.2. Market Share Analysis

### 8.3. Mergers, Acquisitions, Agreements, and Collaborations

### 8.4. Competitive Dashboard

## **9. COMPANY PROFILES**

### 9.1. EXFO Inc.

### 9.2. RADCOM Ltd.

### 9.3. Oracle Corporation

### 9.4. Nokia Corporation

### 9.5. VIAVI Solutions Inc.

### 9.6. Ericsson

### 9.7. Allot Ltd.

### 9.8. Spirent Communications PLC

### 9.9. Comarch S.A.

### 9.10. NETSCOUT Systems, Inc.

### 9.11. NEC Corporation

### 9.12. Huawei Technologies Co., Ltd.

9.13. ZTE Corporation

9.14. Broadcom Inc.

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