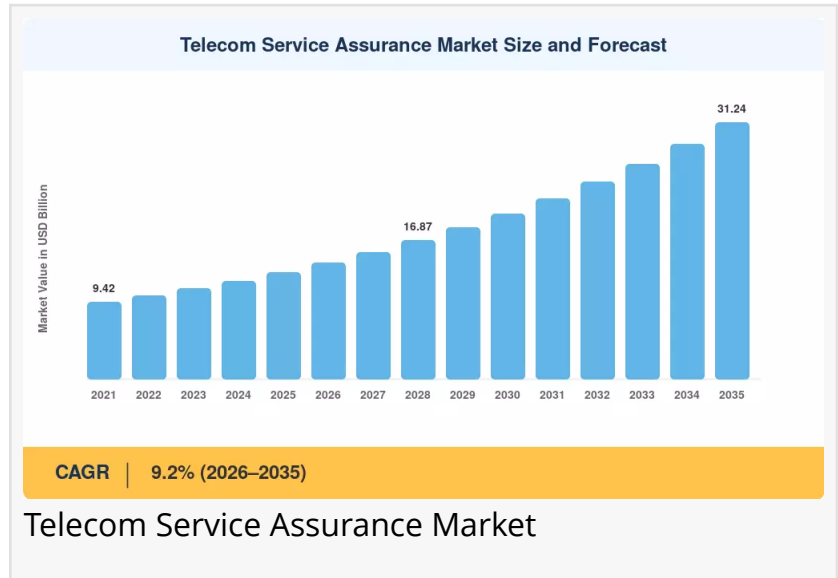


Telecom Service Assurance Market Forecasted to Surpass USD 31.24 Billion with 9.2% CAGR by 2035

Telecom Service Assurance Market is advancing as providers adopt automation, analytics, and AI to improve network performance and customer experience.

BERLIN, BERLIN, GERMANY, August 27, 2026 /EINPresswire.com/ -- Telecom service assurance platforms help operators monitor network performance, identify faults, protect service levels, and resolve customer-impacting problems. Their importance is increasing as standalone 5G, Open RAN, cloud-native cores, network slicing, and multi-vendor infrastructure create more complex operational environments.



The global [Telecom Service Assurance Market](#) reached USD 12.95 Billion in 2025 and is projected to grow from USD 14.15 Billion in 2026 to USD 31.24 Billion by 2035, registering a 9.2% CAGR during 2026–2035.

“

Telecom service assurance enables providers to monitor network performance, detect issues faster, and deliver reliable connectivity while improving customer satisfaction.”

Market Research Future

Standalone 5G deployments, AI-enabled fault correlation, and cloud-native OSS/BSS migration are central drivers.

Solutions accounted for 65.7% of revenue in 2025, compared with 34.3% for services. The market spans performance management, fault management, [network monitoring](#), service-level management, software platforms, integration services, and managed operations.

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Market Dynamics: Drivers, Restraints and Opportunities

Standalone 5G and Open RAN introduce distributed, containerized, and multi-domain architectures that legacy element-management systems cannot adequately monitor. Operators are adopting consolidated assurance stacks that combine telemetry, topology discovery, root-cause analysis, experience monitoring, and automated remediation.

AI and [machine learning](#) improve anomaly detection and correlate events across radio, transport, core, and cloud domains. Regulatory service-level requirements and customer expectations are also pushing operators to reduce outages, protect latency commitments, and manage network slices for enterprise applications.

Integration complexity, fragmented telemetry, legacy OSS dependencies, specialist skill shortages, and the cost of transforming established operational processes can restrain adoption. Operators must also prevent automation errors and maintain explainability when AI systems recommend or execute network changes.

Network-slicing assurance, managed services for emerging markets, experience-data monetization, energy-aware operations, and digital-twin capabilities create opportunities. Energy monitoring is increasingly relevant because network energy costs can represent 20–40% of operator operating expenditure.

Key Players and Competitive Insights

The top five vendors collectively hold an estimated 42–48% revenue share. Leading companies include Nokia, NetCracker Technology, Ericsson, Huawei Technologies, Amdocs, TEOCO Corporation, Comarch, and Infovista. Vendors compete on installed-base reach, AI operations, multi-domain correlation, 5G support, cloud deployment, and integration capabilities.

Regional Insights

North America benefits from standalone 5G investment, regulatory quality requirements, and early cloud-native network adoption.

Europe is supported by service-level compliance, Open RAN initiatives, and operator commitments to network automation and energy efficiency.

Asia-Pacific presents major opportunities as subscriber growth and large-scale 5G deployment increase network complexity across mature and emerging telecom markets.

Middle East & Africa is supported by national digital-infrastructure projects. Saudi Arabia, the UAE, South Africa, and Egypt are expanding assurance investment alongside 4G and 5G networks.

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Market Segmentations

By Service Type

- Performance Management
- Fault Management
- Network Monitoring
- Service Level Management

By Deployment Type

- On-Premises
- Cloud-Based
- Hybrid

By End User

- Telecom Operators
- Managed Service Providers
- Enterprise

By Component

- Software
- Services

By Region

- North America
- Europe
- Asia-Pacific
- South America
- Middle East & Africa

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Recent Developments

Nokia: Continues to position Nokia AVA and Network Operations Master for end-to-end 5G

assurance and AIOps analytics.

NetCracker Technology: Competes through converged revenue and service-assurance capabilities for large operators.

Ericsson: Integrates service assurance with its radio-access and core-network portfolio.

Amdocs: Uses AI-driven customer-experience analytics within its service-assurance offerings.

Frequently Asked Questions (FAQs)

Q1. What is the Telecom Service Assurance Market forecast?

The market is projected to grow from USD 14.15 Billion in 2026 to USD 31.24 Billion by 2035 at a 9.2% CAGR.

Q2. Which component leads?

Solutions accounted for 65.7% of market revenue in 2025.

Q3. What is driving growth?

Standalone 5G, Open RAN, AI-driven fault correlation, cloud-native networks, and service-level requirements are major drivers

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Q4. What opportunities are emerging?

Network-slicing assurance, managed services, experience analytics, energy monitoring, and digital twins provide opportunities.

Q5. How concentrated is the market?

The top five vendors hold an estimated 42–48% combined share.

Q6. Who are the leading companies?

Leading companies include Nokia, NetCracker Technology, Ericsson, Huawei Technologies, Amdocs, and TEOCO Corporation.

□□ Regional & Country-Level Reports by Market Research Future:

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