

# **Telecom Service Assurance Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Deployment (On-premise, Hosted), By Operator Type (Mobile Operator, Fixed Operator), By Organization Size (SMEs, Large Enterprises), By Service (Professional Service, Managed Service), By System (Probe System, Workforce Management, Fault Management, Quality/Performance Monitoring, Network Management), By Region & Competition, 2019-2029F**

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## **Abstracts**

The Global Telecom Service Assurance Market was valued at USD 8.31 Billion in 2023 and is predicted to experience robust growth in the forecast period with a CAGR of 10.92% through 2029. The Global Telecom Service Assurance Market is a dynamic and essential sector within the telecommunications industry, marked by the continuous evolution of technologies and the growing demand for seamless connectivity. Key drivers shaping this market include the surge in network complexity, driven by technologies such as 5G and IoT, emphasizing the need for advanced service assurance solutions. The accelerated adoption of next-gen technologies further propels the demand, with a focus on cloud-native solutions, automation, and artificial intelligence to optimize network performance. Enhancing customer experience remains a primary goal, leading to the deployment of service assurance tools that ensure quality of service and reliability.

Security concerns, compliance standards, and the necessity for robust privacy

measures contribute to the increasing integration of cybersecurity assurance within the Telecom Service Assurance landscape. Regionally, North America takes a prominent role in market dominance, fueled by technological innovation, a competitive telecom landscape, and stringent regulatory environments. The deployment model trend leans towards hosted solutions, leveraging cloud-based architectures for flexibility and cost-effectiveness. Furthermore, Mobile Operators dominate the market, reflecting the pervasive influence of mobile technologies in modern communication ecosystems. Large enterprises drive the adoption of comprehensive service assurance solutions, given the complexity and scale of their telecommunications operations. The Global Telecom Service Assurance Market, therefore, continues to evolve in response to industry trends, technological advancements, and the imperative to meet the ever-growing connectivity needs of users globally.

## Key Market Drivers

### Surge in Network Complexity and Traffic Volumes:

The escalating complexity of modern telecommunication networks, driven by the advent of technologies like 5G, Internet of Things (IoT), and virtualization, is a primary driver propelling the Telecom Service Assurance market. The deployment of advanced network architectures results in intricate ecosystems that require sophisticated assurance solutions. The surge in data traffic volumes, coupled with the diversity of connected devices, demands robust service assurance to ensure optimal network performance. Providers seek advanced solutions that can navigate the complexities of these evolving networks, driving the demand for innovative Telecom Service Assurance technologies.

### Growing Demand for Enhanced Customer Experience:

The paramount importance of delivering an enhanced customer experience acts as a significant driver for the Telecom Service Assurance market. With the rise in consumer expectations for seamless connectivity, low latency, and high-quality services, telecom operators prioritize service assurance solutions that enable proactive monitoring, rapid issue resolution, and continuous optimization. The ability to assure superior service quality directly impacts customer satisfaction and retention, making customer experience enhancement a driving force in the adoption of advanced Telecom Service Assurance technologies.

### Accelerated Adoption of Next-Generation Technologies:

The rapid adoption of next-generation technologies, including 5G, edge computing, and network virtualization, fuels the demand for advanced Telecom Service Assurance solutions. These technologies introduce new challenges in terms of network architecture, performance monitoring, and resource optimization. Telecom operators seek assurance platforms that can effectively manage the complexities introduced by these innovations, ensuring the seamless integration of next-gen technologies into existing infrastructures. The pace of technological evolution acts as a driver, compelling service assurance providers to develop solutions that align with the requirements of cutting-edge telecom networks.

#### Increasing Focus on Network Security and Reliability:

The heightened emphasis on network security and reliability is a driving force in the Telecom Service Assurance market. As telecommunication networks become essential infrastructure supporting critical services and applications, ensuring the security and reliability of these networks is paramount. Service assurance solutions play a crucial role in identifying and mitigating potential security threats, ensuring data integrity, and maintaining continuous network availability. The increasing frequency and sophistication of cyber threats underscore the importance of advanced service assurance technologies in safeguarding telecom infrastructure.

#### Regulatory Compliance and Quality of Service (QoS) Standards:

Stringent regulatory requirements and the need to adhere to established Quality of Service (QoS) standards act as drivers influencing the Telecom Service Assurance market. Regulatory bodies worldwide set standards for service quality, data protection, and privacy within the telecommunications sector. Telecom operators are compelled to invest in service assurance solutions that not only ensure compliance with regulatory frameworks but also exceed QoS standards to deliver a superior user experience. This driver emphasizes the importance of advanced monitoring, analytics, and assurance capabilities to meet and exceed regulatory expectations.

#### Key Market Challenges

##### Complex Network Environments and Technology Evolution:

The Telecom Service Assurance market faces a formidable challenge due to the inherent complexity of modern network environments. Telecommunication networks are

continually evolving with the deployment of new technologies such as 5G, Internet of Things (IoT), and virtualization. The coexistence of legacy and next-gen technologies creates a heterogeneous landscape, challenging service assurance solutions to adapt and effectively manage diverse network elements. Ensuring seamless integration and compatibility across a variety of technologies while keeping pace with rapid advancements poses a substantial challenge for telecom operators and service assurance providers.

#### Volume and Variety of Data:

The sheer volume and variety of data generated by telecom networks present a significant challenge for service assurance. With the proliferation of connected devices, the surge in data traffic, and the complexity of modern network architectures, managing and analyzing massive datasets becomes a formidable task. Service assurance solutions need to process real-time data streams, diverse data formats, and large datasets to derive actionable insights. This challenge requires advanced analytics capabilities and efficient data management strategies to ensure that service providers can effectively monitor and optimize network performance.

#### Ensuring Quality of Service (QoS) in Dynamic Environments:

Maintaining consistent Quality of Service (QoS) is a perpetual challenge in the Telecom Service Assurance market, especially in dynamic network environments. Factors such as fluctuating user demand, network congestion, and the introduction of new services can impact QoS. Ensuring a high level of service quality requires real-time monitoring, proactive issue resolution, and the ability to adapt to changing network conditions swiftly. Meeting user expectations for low latency, high bandwidth, and reliability becomes more challenging as networks evolve and diversify, making QoS assurance a top priority and challenge for service providers.

#### Security and Privacy Concerns:

Telecom Service Assurance faces a growing challenge related to security and privacy concerns. As telecom networks become more interconnected and handle vast amounts of sensitive user data, the risk of cyber threats and privacy breaches escalates. Ensuring the security of network infrastructure, protecting against cyberattacks, and adhering to stringent privacy regulations become critical aspects of service assurance. Providers must implement robust security measures, conduct regular audits, and stay ahead of evolving cybersecurity threats to safeguard both network integrity and user

privacy.

#### Integration with Legacy Systems and Vendor Interoperability:

Legacy systems remain prevalent in many telecom networks, posing a challenge for seamless integration with modern Telecom Service Assurance solutions. The coexistence of legacy infrastructure alongside newer technologies requires service assurance providers to offer solutions that can effectively integrate with diverse systems. Additionally, ensuring interoperability between solutions from different vendors adds complexity. Standardizing interfaces and protocols becomes crucial to enabling smooth communication between different elements within the network, overcoming the challenge of legacy integration, and fostering a cohesive service assurance ecosystem.

#### Key Market Trends

##### Network Automation and AI-driven Assurance:

The Telecom Service Assurance market is witnessing a transformative trend with the integration of network automation and artificial intelligence (AI). Automation streamlines network management processes, enabling proactive issue resolution and optimization. AI-driven assurance leverages machine learning algorithms to analyze vast amounts of data, predicting potential network disruptions and optimizing performance. This trend enhances operational efficiency, reduces downtime, and improves overall network reliability, allowing telecom operators to deliver seamless and high-quality services to their customers.

##### Shift to Cloud-Native Service Assurance Solutions:

A notable trend in the Telecom Service Assurance market is the increasing adoption of cloud-native solutions. Telecom operators are transitioning from traditional, on-premises assurance systems to cloud-native architectures. Cloud-based solutions offer scalability, flexibility, and cost-efficiency, allowing operators to adapt to dynamic network requirements. This trend aligns with the broader industry shift toward cloud-native technologies, enabling telecom providers to deploy, manage, and upgrade service assurance functionalities more efficiently.

##### Focus on Customer Experience Assurance:

With the rising importance of customer satisfaction, the Telecom Service Assurance

market is witnessing a trend towards heightened emphasis on customer experience assurance. Service providers are leveraging advanced analytics and real-time monitoring to gain insights into customer behavior and preferences. This trend allows operators to proactively address issues, optimize service quality, and personalize offerings based on customer needs. By prioritizing customer experience assurance, telecom providers aim to differentiate themselves in a competitive market and retain customer loyalty.

#### Integration of 5G Service Assurance:

As the global rollout of 5G networks accelerates, the Telecom Service Assurance market is experiencing a trend toward the integration of 5G service assurance solutions. The complexity of 5G networks, with features like network slicing and ultra-low latency, necessitates advanced assurance mechanisms. Service providers are investing in solutions that can effectively monitor, manage, and assure the performance of 5G networks. This trend is crucial for ensuring the successful deployment and operation of 5G services, meeting the evolving demands of high-speed connectivity and supporting a diverse range of applications.

#### Cybersecurity Assurance for Telecom Networks:

With the increasing frequency and sophistication of cyber threats, a growing trend in the Telecom Service Assurance market is the integration of cybersecurity assurance measures. Service providers are incorporating advanced security mechanisms to safeguard telecom networks from cyberattacks. This includes real-time threat detection, vulnerability assessments, and proactive security measures to ensure the integrity and confidentiality of data transmitted over telecom networks. As cybersecurity concerns escalate, this trend becomes imperative for maintaining the trust of both individual and enterprise users relying on telecom services.

#### Segmental Insights

#### Deployment Insights

Hosted segment dominated in the global telecom service assurance market in 2023. The dominance of the Hosted deployment model in the Telecom Service Assurance market is driven by several key factors that align with the evolving needs of telecom operators and service providers. Hosted deployment, also commonly referred to as Cloud-based or Software as a Service (SaaS), has gained prominence due to its ability



to address critical challenges faced by the telecommunications industry.

One of the primary advantages contributing to the dominance of Hosted deployment is the flexibility it offers. Cloud-based service assurance solutions enable telecom operators to leverage a scalable and dynamic infrastructure, allowing for efficient resource allocation and quick adaptation to changing network demands. This agility is particularly crucial in an industry characterized by rapid technological advancements, diverse network architectures, and fluctuating data traffic volumes.

Cost-effectiveness is another key driver favoring Hosted deployment dominance. With Hosted models, telecom operators can benefit from a pay-as-you-go or subscription-based pricing structure, reducing the upfront capital expenditures associated with traditional On-premise solutions. This cost flexibility allows operators to allocate resources strategically, invest in innovation, and respond more efficiently to market dynamics without being encumbered by significant upfront costs.

Hosted deployment model aligns well with the industry's transition towards virtualization and network function virtualization (NFV). As telecom networks evolve towards virtualized architectures, Cloud-based service assurance solutions seamlessly integrate with these environments, providing a foundation for orchestrating and optimizing virtualized network functions. This alignment supports the industry's move towards more agile, software-defined, and virtualized network infrastructures.

Hosted deployment model enhances accessibility and collaboration. With service assurance functionalities hosted in the cloud, geographically dispersed teams can access real-time data and analytics, fostering collaboration and information sharing across the organization. This accessibility is vital for telecom operators managing extensive networks, facilitating proactive issue resolution, and ensuring continuous service quality.

## Regional Insights

North America dominated the global telecom service assurance market in 2023. North America, particularly the United States, has been at the forefront of technological innovation and early adoption of advanced telecommunications solutions. The region is a hub for cutting-edge technology companies and telecom operators that drive the development and deployment of innovative service assurance solutions. The proactive approach to embracing new technologies, including 5G, IoT, and cloud services, positions North America as a leader in the evolution of telecom networks, driving the

demand for sophisticated service assurance solutions.

The United States and Canada boast a robust and extensive telecommunications infrastructure, featuring high-speed broadband networks and widespread connectivity. This infrastructure serves as a fertile ground for the deployment of Telecom Service Assurance solutions, as operators seek to optimize and ensure the performance of their networks. The prevalence of advanced network architectures and the continuous expansion of high-capacity data networks contribute to the demand for comprehensive service assurance platforms.

North America is home to a highly competitive telecommunications landscape, with multiple service providers vying for market share. The competitive nature of the industry encourages telecom operators to invest in state-of-the-art service assurance solutions to differentiate themselves and offer superior services. The need for efficient network management, real-time monitoring, and customer experience enhancement has led to a substantial uptake of advanced Telecom Service Assurance technologies in the region.

The regulatory environment in North America places a strong emphasis on quality of service, data protection, and privacy standards within the telecommunications sector. Telecom operators operating in North America must comply with stringent regulatory requirements, necessitating the implementation of robust service assurance measures. The commitment to regulatory compliance has further fueled the adoption of advanced service assurance solutions to meet and exceed the established standards.

The thriving business ecosystem in North America, characterized by numerous enterprises across various industries, drives the demand for reliable and high-performance telecommunications services. To meet the connectivity needs of businesses, telecom operators prioritize the deployment of cutting-edge service assurance solutions that ensure seamless operations, optimal network performance, and superior reliability.

### Key Market Players

Telefonaktiebolaget LM Ericsson

Nokia Corporation

Broadcom Inc.



Huawei Technologies Co., Ltd.

Amdocs Limited

NETSCOUT Systems, Inc.

Spirent Communications plc

TEOCO

Comarch S.A.

Open Text Corporation

#### Report Scope:

In this report, the Global Telecom Service Assurance Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Telecom Service Assurance Market, By Deployment:

On-premise

Hosted

#### Telecom Service Assurance Market, By Operator Type:

Mobile Operator

Fixed Operator

#### Telecom Service Assurance Market, By Organization Size:

SMEs

Large Enterprises

Telecom Service Assurance Market, By Service:

Professional Service

Managed Service

Telecom Service Assurance Market, By System:

Probe System

Workforce Management

Fault Management

Quality/Performance Monitoring

Network Management

Telecom Service Assurance Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Telecom Service Assurance Market.

## Available Customizations:

Global Telecom Service Assurance Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following

*Telecom Service Assurance Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented B...*

customization options are available for the report:

### Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### **1. SERVICE OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Baseline Methodology
- 2.2. Key Industry Partners
- 2.3. Major Association and Secondary Sources
- 2.4. Forecasting Methodology
- 2.5. Data Triangulation & Validation
- 2.6. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

### **4. VOICE OF CUSTOMER**

### **5. GLOBAL TELECOM SERVICE ASSURANCE MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Deployment (On-premise, Hosted)
  - 5.2.2. By Operator Type (Mobile Operator, Fixed Operator)
  - 5.2.3. By Organization Size (SMEs, Large Enterprises)
  - 5.2.4. By Service (Professional Service, Managed Service)
  - 5.2.5. By System (Probe System, Workforce Management, Fault Management, Quality/Performance Monitoring, Network Management)
  - 5.2.6. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
- 5.3. By Company (2023)
- 5.4. Market Map

## 6. NORTH AMERICA TELECOM SERVICE ASSURANCE MARKET OUTLOOK

### 6.1. Market Size & Forecast

#### 6.1.1. By Value

### 6.2. Market Share & Forecast

#### 6.2.1. By Deployment

#### 6.2.2. By Operator Type

#### 6.2.3. By Organization Size

#### 6.2.4. By Service

#### 6.2.5. By System

#### 6.2.6. By Country

### 6.3. North America: Country Analysis

#### 6.3.1. United States Telecom Service Assurance Market Outlook

##### 6.3.1.1. Market Size & Forecast

###### 6.3.1.1.1. By Value

##### 6.3.1.2. Market Share & Forecast

###### 6.3.1.2.1. By Deployment

###### 6.3.1.2.2. By Operator Type

###### 6.3.1.2.3. By Organization Size

###### 6.3.1.2.4. By Service

###### 6.3.1.2.5. By System

#### 6.3.2. Canada Telecom Service Assurance Market Outlook

##### 6.3.2.1. Market Size & Forecast

###### 6.3.2.1.1. By Value

##### 6.3.2.2. Market Share & Forecast

###### 6.3.2.2.1. By Deployment

###### 6.3.2.2.2. By Operator Type

###### 6.3.2.2.3. By Organization Size

###### 6.3.2.2.4. By Service

###### 6.3.2.2.5. By System

#### 6.3.3. Mexico Telecom Service Assurance Market Outlook

##### 6.3.3.1. Market Size & Forecast

###### 6.3.3.1.1. By Value

##### 6.3.3.2. Market Share & Forecast

###### 6.3.3.2.1. By Deployment

###### 6.3.3.2.2. By Operator Type

###### 6.3.3.2.3. By Organization Size

###### 6.3.3.2.4. By Service

###### 6.3.3.2.5. By System



## **7. EUROPE TELECOM SERVICE ASSURANCE MARKET OUTLOOK**

### 7.1. Market Size & Forecast

#### 7.1.1. By Value

### 7.2. Market Share & Forecast

#### 7.2.1. By Deployment

#### 7.2.2. By Operator Type

#### 7.2.3. By Organization Size

#### 7.2.4. By Service

#### 7.2.5. By System

#### 7.2.6. By Country

### 7.3. Europe: Country Analysis

#### 7.3.1. Germany Telecom Service Assurance Market Outlook

##### 7.3.1.1. Market Size & Forecast

###### 7.3.1.1.1. By Value

##### 7.3.1.2. Market Share & Forecast

###### 7.3.1.2.1. By Deployment

###### 7.3.1.2.2. By Operator Type

###### 7.3.1.2.3. By Organization Size

###### 7.3.1.2.4. By Service

###### 7.3.1.2.5. By System

#### 7.3.2. France Telecom Service Assurance Market Outlook

##### 7.3.2.1. Market Size & Forecast

###### 7.3.2.1.1. By Value

##### 7.3.2.2. Market Share & Forecast

###### 7.3.2.2.1. By Deployment

###### 7.3.2.2.2. By Operator Type

###### 7.3.2.2.3. By Organization Size

###### 7.3.2.2.4. By Service

###### 7.3.2.2.5. By System

#### 7.3.3. United Kingdom Telecom Service Assurance Market Outlook

##### 7.3.3.1. Market Size & Forecast

###### 7.3.3.1.1. By Value

##### 7.3.3.2. Market Share & Forecast

###### 7.3.3.2.1. By Deployment

###### 7.3.3.2.2. By Operator Type

###### 7.3.3.2.3. By Organization Size

###### 7.3.3.2.4. By Service

- 7.3.3.2.5. By System
- 7.3.4. Italy Telecom Service Assurance Market Outlook
  - 7.3.4.1. Market Size & Forecast
    - 7.3.4.1.1. By Value
  - 7.3.4.2. Market Share & Forecast
    - 7.3.4.2.1. By Deployment
    - 7.3.4.2.2. By Operator Type
    - 7.3.4.2.3. By Organization Size
    - 7.3.4.2.4. By Service
    - 7.3.4.2.5. By System
- 7.3.5. Spain Telecom Service Assurance Market Outlook
  - 7.3.5.1. Market Size & Forecast
    - 7.3.5.1.1. By Value
  - 7.3.5.2. Market Share & Forecast
    - 7.3.5.2.1. By Deployment
    - 7.3.5.2.2. By Operator Type
    - 7.3.5.2.3. By Organization Size
    - 7.3.5.2.4. By Service
    - 7.3.5.2.5. By System

## **8. SOUTH AMERICA TELECOM SERVICE ASSURANCE MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Deployment
  - 8.2.2. By Operator Type
  - 8.2.3. By Organization Size
  - 8.2.4. By Service
  - 8.2.5. By System
  - 8.2.6. By Country
- 8.3. South America: Country Analysis
  - 8.3.1. Brazil Telecom Service Assurance Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Deployment
      - 8.3.1.2.2. By Operator Type
      - 8.3.1.2.3. By Organization Size

- 8.3.1.2.4. By Service
- 8.3.1.2.5. By System
- 8.3.2. Colombia Telecom Service Assurance Market Outlook
  - 8.3.2.1. Market Size & Forecast
    - 8.3.2.1.1. By Value
  - 8.3.2.2. Market Share & Forecast
    - 8.3.2.2.1. By Deployment
    - 8.3.2.2.2. By Operator Type
    - 8.3.2.2.3. By Organization Size
    - 8.3.2.2.4. By Service
    - 8.3.2.2.5. By System
- 8.3.3. Argentina Telecom Service Assurance Market Outlook
  - 8.3.3.1. Market Size & Forecast
    - 8.3.3.1.1. By Value
  - 8.3.3.2. Market Share & Forecast
    - 8.3.3.2.1. By Deployment
    - 8.3.3.2.2. By Operator Type
    - 8.3.3.2.3. By Organization Size
    - 8.3.3.2.4. By Service
    - 8.3.3.2.5. By System

## **9. MIDDLE EAST & AFRICA TELECOM SERVICE ASSURANCE MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Deployment
  - 9.2.2. By Operator Type
  - 9.2.3. By Organization Size
  - 9.2.4. By Service
  - 9.2.5. By System
  - 9.2.6. By Country
- 9.3. Middle East & Africa: Country Analysis
  - 9.3.1. Saudi Arabia Telecom Service Assurance Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Deployment

- 9.3.1.2.2. By Operator Type
- 9.3.1.2.3. By Organization Size
- 9.3.1.2.4. By Service
- 9.3.1.2.5. By System
- 9.3.2. UAE Telecom Service Assurance Market Outlook
  - 9.3.2.1. Market Size & Forecast
    - 9.3.2.1.1. By Value
  - 9.3.2.2. Market Share & Forecast
    - 9.3.2.2.1. By Deployment
    - 9.3.2.2.2. By Operator Type
    - 9.3.2.2.3. By Organization Size
    - 9.3.2.2.4. By Service
    - 9.3.2.2.5. By System
- 9.3.3. South Africa Telecom Service Assurance Market Outlook
  - 9.3.3.1. Market Size & Forecast
    - 9.3.3.1.1. By Value
  - 9.3.3.2. Market Share & Forecast
    - 9.3.3.2.1. By Deployment
    - 9.3.3.2.2. By Operator Type
    - 9.3.3.2.3. By Organization Size
    - 9.3.3.2.4. By Service
    - 9.3.3.2.5. By System

## **10. ASIA PACIFIC TELECOM SERVICE ASSURANCE MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Deployment
  - 10.2.2. By Operator Type
  - 10.2.3. By Organization Size
  - 10.2.4. By Service
  - 10.2.5. By System
  - 10.2.6. By Country
- 10.3. Asia Pacific: Country Analysis
  - 10.3.1. China Telecom Service Assurance Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast

- 10.3.1.2.1. By Deployment
- 10.3.1.2.2. By Operator Type
- 10.3.1.2.3. By Organization Size
- 10.3.1.2.4. By Service
- 10.3.1.2.5. By System
- 10.3.2. India Telecom Service Assurance Market Outlook
  - 10.3.2.1. Market Size & Forecast
    - 10.3.2.1.1. By Value
  - 10.3.2.2. Market Share & Forecast
    - 10.3.2.2.1. By Deployment
    - 10.3.2.2.2. By Operator Type
    - 10.3.2.2.3. By Organization Size
    - 10.3.2.2.4. By Service
    - 10.3.2.2.5. By System
- 10.3.3. Japan Telecom Service Assurance Market Outlook
  - 10.3.3.1. Market Size & Forecast
    - 10.3.3.1.1. By Value
  - 10.3.3.2. Market Share & Forecast
    - 10.3.3.2.1. By Deployment
    - 10.3.3.2.2. By Operator Type
    - 10.3.3.2.3. By Organization Size
    - 10.3.3.2.4. By Service
    - 10.3.3.2.5. By System
- 10.3.4. South Korea Telecom Service Assurance Market Outlook
  - 10.3.4.1. Market Size & Forecast
    - 10.3.4.1.1. By Value
  - 10.3.4.2. Market Share & Forecast
    - 10.3.4.2.1. By Deployment
    - 10.3.4.2.2. By Operator Type
    - 10.3.4.2.3. By Organization Size
    - 10.3.4.2.4. By Service
    - 10.3.4.2.5. By System
- 10.3.5. Australia Telecom Service Assurance Market Outlook
  - 10.3.5.1. Market Size & Forecast
    - 10.3.5.1.1. By Value
  - 10.3.5.2. Market Share & Forecast
    - 10.3.5.2.1. By Deployment
    - 10.3.5.2.2. By Operator Type
    - 10.3.5.2.3. By Organization Size

10.3.5.2.4. By Service

10.3.5.2.5. By System

## **11. MARKET DYNAMICS**

11.1. Drivers

11.2. Challenges

## **12. MARKET TRENDS AND DEVELOPMENTS**

## **13. COMPANY PROFILES**

13.1. Telefonaktiebolaget LM Ericsson

13.1.1. Business Overview

13.1.2. Key Revenue and Financials

13.1.3. Recent Developments

13.1.4. Key Personnel

13.1.5. Key Product/Services Offered

13.2. Nokia Corporation

13.2.1. Business Overview

13.2.2. Key Revenue and Financials

13.2.3. Recent Developments

13.2.4. Key Personnel

13.2.5. Key Product/Services Offered

13.3. Broadcom Inc.

13.3.1. Business Overview

13.3.2. Key Revenue and Financials

13.3.3. Recent Developments

13.3.4. Key Personnel

13.3.5. Key Product/Services Offered

13.4. Huawei Technologies Co., Ltd.

13.4.1. Business Overview

13.4.2. Key Revenue and Financials

13.4.3. Recent Developments

13.4.4. Key Personnel

13.4.5. Key Product/Services Offered

13.5. Amdocs Limited

13.5.1. Business Overview

13.5.2. Key Revenue and Financials



- 13.5.3. Recent Developments
- 13.5.4. Key Personnel
- 13.5.5. Key Product/Services Offered
- 13.6. NETSCOUT Systems, Inc.
  - 13.6.1. Business Overview
  - 13.6.2. Key Revenue and Financials
  - 13.6.3. Recent Developments
  - 13.6.4. Key Personnel
  - 13.6.5. Key Product/Services Offered
- 13.7. Spirent Communications plc
  - 13.7.1. Business Overview
  - 13.7.2. Key Revenue and Financials
  - 13.7.3. Recent Developments
  - 13.7.4. Key Personnel
  - 13.7.5. Key Product/Services Offered
- 13.8. TEOCO
  - 13.8.1. Business Overview
  - 13.8.2. Key Revenue and Financials
  - 13.8.3. Recent Developments
  - 13.8.4. Key Personnel
  - 13.8.5. Key Product/Services Offered
- 13.9. Comarch S.A.
  - 13.9.1. Business Overview
  - 13.9.2. Key Revenue and Financials
  - 13.9.3. Recent Developments
  - 13.9.4. Key Personnel
  - 13.9.5. Key Product/Services Offered
- 13.10. Open Text Corporation
  - 13.10.1. Business Overview
  - 13.10.2. Key Revenue and Financials
  - 13.10.3. Recent Developments
  - 13.10.4. Key Personnel
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