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North America Active Network Management Market Forecast to 2031 - Regional Analysis - by Component (Software and Services), Industry (Energy and Utilities, Transportation, Oil and Gas, Manufacturing, and Others), Application (Grid Asset Management, Real-Time Monitoring, and Automation), and Organization Size (Small and Medium Enterprises and Large Enterprises)

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Abstracts

The North America active network management market was valued at US$ 506.64 million in 2023 and is expected to reach US$ 1,714.89 million by 2031; it is estimated to register at a CAGR of 16.5% from 2023 to 2031.

Integration of AI-driven Optimization Fuels North America Active Network Management Market

The integration of AI-driven optimization promises enhanced efficiency, performance, and responsiveness in network operations, leading to more intelligent and sustainable networks. AI network monitoring offers several benefits, including predictive analysis to automatically identify and remediate network issues, chatbot alerts, digital experience monitoring, and traffic engineering. By leveraging AI, network operators can optimize data routing, reduce congestion and latency, dynamically allocate resources based on demand, and detect potential cyber threats. These capabilities contribute to improved network performance, reliability, and security.

In April 2024, Databricks, a leading Data and AI company, unveiled the Data

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Intelligence Platform for Energy. This cutting-edge platform brings the transformative capabilities of AI to the energy sector, empowering enterprises to leverage the wealth of energy data available and develop innovative AI applications while safeguarding their data privacy and confidential intellectual property. With Databricks' Data Intelligence Platform for Energy, energy leaders can gain a comprehensive, real-time view of their operations, enabling them to proactively address maintenance requirements, minimize unplanned downtime, make accurate energy generation forecasts, and make informed decisions toward achieving a more efficient and sustainable future. As AI tools continue to advance, there is potential for further innovation and optimization in network operation.

North America Active Network Management Market Overview

The North America active network management market is experiencing significant growth owing to the surge in demand for smart city projects across the globe. As urbanization accelerates, governments and organizations are increasingly investing in smart city initiatives to enhance sustainability, efficiency, and quality of life. Active network management plays a crucial role in ensuring the smooth operation of these complex energy networks, making it a vital component of the smart city infrastructure. Smart cities leverage advanced technologies to optimize urban services, including transportation, energy, waste management, and public safety. These projects require a robust and interconnected network infrastructure to enable seamless communication between devices, systems, and stakeholders. Active network management systems excel in managing the intricate web of sensors, meters, grids, and other smart city components, ensuring efficient energy distribution, grid stability, and reliable service delivery.

The North America North America active network management market is segmented into the US, Canada, and Mexico. Governments across North America are also launching smart grid initiatives. For example, the US Department of Energy (DOE) has issued a Request for Information (RFI) for the Grid Resilience and Innovation Partnership Program, which aims to enhance the resilience and reliability of America's electric grid. This program includes a grant of US$ 3 billion for the smart grid. Active network management plays a crucial role in smart grids by enabling real-time management of power generation and consumption. Thus, strategic initiatives by the government and constant investments in smart grids are the key factors expected to drive the growth of the North America active network management market.
North America Active Network Management Market Revenue and Forecast to 2031 (US$ Million)

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North America Active Network Management Market Segmentation

The North America active network management market is segmented based on component, industry, application, organization size, and country.

Based on component, the North America active network management market is bifurcated into software and services. The software segment held a larger share in 2023.

In terms of industry, the North America active network management market is segmented into energy & utilities, transportation, oil & gas, manufacturing, and others. The energy & utilities segment held the largest share in 2023.

By application, the North America active network management market is segmented into grid asset management, real-time monitoring, and automation. The grid asset management segment held the largest share in 2023.

In terms of organization size, the North America active network management market is bifurcated into small & medium enterprises and large enterprises. The large enterprises segment held a larger share in 2023.

Based on country, the North America active network management market is categorized into the US, Canada, and Mexico. The US dominated the North America active network management market in 2023.

ABB Ltd, Cisco Systems Inc, International Business Machines Corp, Oracle Corp, Siemens AG, GE Grid Solutions, Camlin Group, and Smarter Grid Solutions are some of the leading companies operating in the North America active network management market.

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