

# Global Air Traffic Control (ATC) Market Expands with Rising Air Travel and Advanced Technologies

*The Air Traffic Control (ATC) market is witnessing dynamic growth fueled by technological advancements and increasing air travel demand*

VANCOUVER, BC, CANADA, March 26, 2025 /EINPresswire.com/ -- An Emergen Research report of 250 pages features 194 tables, 189 charts, and graphics. Our new study is ideal for anyone who wants to learn about the global [Air Traffic Control \(ATC\) market](#) commercially and deeply, as well as to analyze the market segments in depth.

With the help of our recent study, you can analyze the entire regional and global market for Air Traffic Control. To increase market share, you must obtain financial analysis of the entire market and its segments. Our research suggests there are significant opportunities in this rapidly expanding market for energy storage technology. Look at how you might take advantage of these revenue-generating opportunities. Additionally, the research will help you develop growth strategies, strengthen competitor analysis, and improve business productivity by enabling you to make better strategic decisions.

The air traffic control (ATC) market is expected to grow from an estimated USD 9.5 billion in 2024 to USD 20.3 billion in 2033, at a CAGR of 8.80%. The global Air Traffic Control (ATC) market is experiencing rapid growth, driven by the increasing demand for air travel and the integration of advanced technologies. According to the International Air Transport Association (IATA), global air passenger traffic surged by 25% in 2023 compared to the previous year, emphasizing the need for modern ATC systems. The adoption of Artificial Intelligence (AI) and automation is transforming the sector, enhancing operational efficiency and improving safety. In June 2024, EUROCONTROL introduced an AI-based ATC system designed to optimize air traffic management in high-density airspaces.

The industry is also seeing advancements in communication and navigation systems, such as the



widespread implementation of satellite-based Automatic Dependent Surveillance-Broadcast (ADS-B). This innovation allows real-time tracking of aircraft, significantly improving airspace management. Additionally, remote towers are gaining traction, with airports in Sweden and the UK adopting them to streamline operations. However, despite these advancements, challenges such as high implementation costs and cybersecurity risks remain key concerns. Governments and industry stakeholders are actively collaborating to address these issues and ensure sustainable market growth.

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### Key Highlights

With our new report, you are less likely to fall behind in knowledge or miss out on opportunities. See how our work could benefit your research, analyses, and decisions. Emergen Research study is for everybody needing commercial analyses for the Air Traffic Control Market, 2022 to 2030, market-leading companies. You will find data, trends and predictions.

Major Players/Manufacturers profiled in the report are:

Thales Group

Raytheon Technologies Corporation

Honeywell International Inc.

Indra Sistemas S.A.

Harris Corporation

Lockheed Martin Corporation

Leonardo S.p.A

Frequentis AG

Searidge Technologies

Saab AB

Rising Air Travel Spurs ATC Investments

The surge in global air traffic is driving significant investments in ATC infrastructure. According to

Airports Council International (ACI), aircraft movements worldwide exceeded 93 million in 2023, marking a 19% increase from the previous year. This rapid expansion highlights the need for efficient navigation, communication, and surveillance systems to maintain safety and efficiency in air travel.

Recognizing this need, the Federal Aviation Administration (FAA) committed \$500 million in February 2024 to upgrade ATC infrastructure under the NextGen program. Similarly, Asia-Pacific is witnessing substantial investments, with the Asia Pacific Air Navigation Service Providers (APANSP) reporting a 27% rise in ATC funding in 2023. Enhanced air traffic management systems powered by machine learning and predictive analytics are being deployed to keep pace with growing demand.

Advancements in automation and digitalization are further revolutionizing the industry. Key players are integrating AI and Internet of Things (IoT) solutions into ATC systems to improve situational awareness and streamline operations. In March 2024, NAV CANADA launched an AI-driven ATC system to optimize traffic flow in high-density airspaces. Additionally, the transition to space-based ADS-B technology is enabling real-time tracking of aircraft, particularly in oceanic and remote regions. Governments worldwide are promoting collaborative decision-making (CDM) frameworks to enhance coordination between airlines, airports, and ATC authorities, minimizing delays and improving efficiency.

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## Cybersecurity Challenges Threaten ATC Systems

As ATC systems become increasingly digital, cybersecurity risks are emerging as a major challenge. A 2023 report by the European Union Aviation Safety Agency (EASA) indicated a 32% increase in cyberattacks targeting aviation infrastructure compared to the previous year. In December 2023, a major airport in the U.S. experienced flight disruptions due to a ransomware attack, underlining the urgent need for stronger cybersecurity measures.

The widespread adoption of IoT-enabled devices and cloud-based solutions has heightened security vulnerabilities. Industry stakeholders are addressing these threats through collaborations aimed at enhancing cybersecurity resilience. For instance, in 2024, the FAA partnered with leading technology firms to develop advanced encryption protocols and secure ATC networks.

A report from the International Civil Aviation Organization (ICAO) found that over 40% of aviation stakeholders consider cyber threats a significant operational risk. Key concerns include data integrity, unauthorized access, and disruptions to communication networks. In response, governments are implementing stricter regulations, with the European Union requiring compliance with its updated Aviation Cybersecurity Strategy by 2024. Emerging solutions, such

as AI-driven threat detection and blockchain for secure data exchange, are being explored to safeguard ATC operations from potential cyberattacks.

## Market Trends: ATC Towers Lead While TRACON Grows Fastest

Among ATC infrastructure segments, Air Traffic Control Towers (ATCT) held the largest market share in 2024 due to their critical role in managing high-traffic airports. According to IATA, over 70% of global air traffic depends on ATCTs for coordination, making them indispensable for efficient airport operations. The expansion of airport facilities, particularly in emerging economies, is driving demand for modern ATCTs. In November 2023, Beijing Daxing International Airport inaugurated a state-of-the-art ATCT, increasing its operational capacity by 30% and demonstrating the growing focus on advanced air traffic management.

While ATCTs dominate the market, Terminal Radar Approach Control (TRACON) is the fastest-growing segment. TRACON facilities manage terminal and en-route air traffic, ensuring smoother flight operations and reduced delays. As global air travel demand surges, airports are prioritizing the deployment of sophisticated TRACON systems, integrating advanced radar technology and automation to enhance efficiency. This trend is particularly evident in North America and Europe, where regional aviation expansion is accelerating investments in airspace management solutions.

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Global Air Traffic Control Market Report - Segmental Analysis:

By Airspace and by Region Forecast to 2033

ATCC

TRACON

Air Traffic Control Tower (ATCT)

Remote Towe

By Application and by Region Forecast to 2033

Communication

Navigation

Surveillance

Automation

By Offering and by Region Forecast to 2033

Hardware

Software

Services

By Sector and by Region Forecast to 2033

Commercial

Military

By Investment Type and by Region Forecast to 2033

Greenfield

Brownfield

By Airport Size and by Region Forecast to 2033

Large

Medium

Small

Key Geographies Profiled in the Report:

North America(the U.S., Mexico, and Canada)

Asia Pacific(China, Japan, India, and Rest of Asia Pacific)

Europe(the U.K., France, Germany, and Rest of Europe)

Latin America(Brazil and Rest of Latin America)

Middle East & Africa(GCC Countries and Rest of Middle East & Africa)

Key Benefits For Stakeholders:

The report provides an extensive analysis of the current and future trends in the global minimally invasive surgical systems market to elucidate the imminent investment pockets.

A detailed analysis of the factors that drive and restrict the growth of the minimally invasive surgical systems market is provided.

Extensive analysis of key segments demonstrates the types of energy devices, access equipment, and visualization & documentation systems used in minimally invasive surgeries.

A comprehensive analysis of the geographical landscape provides detailed information about various regions across North America, Europe, Asia Pacific, Latin America, and Middle East & Africa.

The report offers a competitive landscape of the minimally invasive surgical systems market to assist players to gain insights into the competition scenario. Key companies operating in the market are profiled to provide valuable insights.

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