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Drone Traffic Management Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type, (Persistence, Non-Persistence), By Component (Hardware, Software, Service), By Solution (Communication Infrastructure, Surveillance Infrastructure, Navigation Infrastructure, Others), By End User (Transportation & Logistics, Surveillance & Monitoring, Agriculture & Forestry, Defense & Space, Others) By Region and Competition

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Abstracts

Global drone traffic management market is predicted to proliferate substantially during the forecast period, thanks to the rapid growth in digitalization and increasing adoption of advanced technologies by enterprises to meet the need for growing business along with the increase in adoption of drones in commercial & government applications. As traffic congestion has become a major problem nowadays. The increasing traffic jams have severely impacted the lives of citizens globally. Traffic management allows businesses to improve air quality by reducing air pollution generated by slow-moving traffic, helps in maintaining traffic speed control, and reduces delays to public transport.

Additionally, the rise in demand for real-time traffic information to drivers and passengers is increasing the demand for traffic management globally. To maintain traffic flow and safety management, businesses are increasingly utilizing smart traffic management solutions to control traffic and monitor performance to reduce infrastructure damage. Numerous innovations carried out in cloud computing, and 5G infrastructure technologies are expected to enhance the features of drone traffic management. This, in turn, is expected to drive the market growth during the forecast

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period.

A drone or unmanned traffic management system (UTM) is referred to as the traffic operating system of an unmanned ariel vehicle (UAV), which is required to integrate communication effectively & efficiently and control multiple UAS fleets into existing airspace. UTM can provide a more digital, interoperable, and scalable approach to drone tracking and real-time transmission of videos, images, and sensor data. A drone or unmanned traffic management system (UTM) is a key enabler for the future of unmanned aircraft system (UAS)/remotely piloted aircraft system (RPAS), autonomous passenger drones, and verticals take-off and landing (VTOL) air systems. Though the market is growing fast, new applications continue to grow value for customers.

As drones have proven to be an important tool, new unmanned aircraft systems (UAS) are being demonstrated across the world daily with enhanced technical capabilities to push the boundaries of the unmanned aviation industry. These technological advancements have enabled UAS to conduct various complex operations, including but not limited to surveillance, surveying, spraying, mapping, inspections, and deliveries, especially in low-level airspaces. Such use cases have empowered stakeholders and businesses across different industries, such as agriculture, construction, disaster management, energy, GIS, healthcare, insurance, security, mining, oil and gas, and telecom, to improve their efficiency and deliver enhanced services. It is natural that progressively the density of UA in the airspace is going to increase the range of potential airborne drones.

Increase in Uptake of Drones in Commercial & Government Applications

The major factor driving the drone traffic management market is the increase of UAVs and drones in commercial appliances primarily logistics & transportation, greater demand for drone surveillance in military and armed forces, and drone monitoring in agriculture and forestry. Companies find ever more innovative ways to gather information and improve logistics. With this growth comes a tremendous responsibility to put a globally harmonized traffic management system in place. Despite all these potential benefits and as skies become the next frontier, there will be a need for more advanced and successful UTM systems to facilitate growth in the elevated mobility market, streamline operations and ensure public safety and security. For instance: The European Aviation Safety Agency (EASA) is working on finalizing the first EU rules for all types of unmanned aircraft vehicles. At present, EASA only has regulations for unmanned aircraft above 150 kilograms.

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Additionally, in Australia, the Civil Aviation Safety Authority (CASA) has allowed the employment of drones, and operators do not need any permit for VLOS operations if a drone weighs less than 2 kilograms or 4.41 lb. and flies within 400 feet above the ground over unpopulated areas. Moreover, businesses across all verticals have started realizing the upsides of the including drones into their operations, which are cost efficiency, time-saving, and technological advancements that drones can weave into a business. This has led to a significant increase in usage, experiments, and trials of UAVs by the government and enterprises across sectors. Therefore, the increase in the uptake of drones in commercial and government applications is expected to fuel the demand for drone traffic management solutions during the forecast period.

Increasing Focus on Existing Traffic Upgradation

The current surge in traffic, thanks to the high uptake of vehicles, has increased the demand for effective traffic management with security and safety, which has caused businesses to reevaluate their traffic control systems. An effective traffic management system is becoming increasingly popular among countries that are eager to embrace congestion-free traffic. Enterprises are enabling smart traffic management systems to centralize the control function to moderate traffic conditions by analyzing real-time traffic situations, improvising traditional ticketing with an automated E-bill payment system and congestion-free traffic, and helping in eradicating pollution. This has provided an edge to several applications' performance and offered a high-quality user experience, contributing to the growth in business productivity, agility, and control of the infrastructure costs.

Moreover, the integration of intelligence to monitor and manage traffic, are intelligent insights and solutions for current problems through a few modifications and technology integrations providing an overall level of traffic management and greenhouse gas (GHG) emissions. For instance, Pittsburgh installed the Surtrac technology from Rapid Flow Technology at 50 crossings around the city. The decentralized system detects vehicle traffic using a combination of video detection and radar, adjusting signals in real time with software powered by artificial intelligence. The uptake has had significant results, including a 26% reduction in travel times, a 41% decrease in junction wait times, and a 21% reduction in car emissions. Therefore, increasing focus on existing traffic upgradation is expected to fuel the adoption of drone traffic management in the global market over the next few years.

Digitalization and Increasing Adoption of Advanced Technologies Driving Market

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The rising uptake of advanced technologies and growing digitalization are propelling the growth of the traffic management market globally. The involvement of enterprises in adopting artificial intelligence (AI), machine learning (ML), and virtual reality (VR) applications during the IT process requires enhanced network capacity. In many companies, improving the efficiency of platforms and apps used by businesses for marketing, social media, and e-commerce initiatives is one of the main goals of digital transformation.

Moreover, drone traffic management is helping enterprises save money and enabling a more flexible real-time approach by increasingly digitizing the need for various network processes as the need for connectivity is growing. By replacing expensive MPLS lines with internet connections, enterprises can reduce costs by up to 80%. Furthermore, users can connect from everywhere to predict the traffic due to an effective traffic management system, allowing customers to stay connected when traveling for work from another location. Thus, growing digitalization and the increasing uptake of advanced technologies are likely to drive the global drone traffic management market during the forecast period.

Increase Number of Cloud-based Solutions to Propel Market

With the growing benefits of integrating cloud services, enterprises are rapidly adopting cloud-based solutions into their infrastructure. This technology is helping in delivering an effective cloud connection to the network. Traffic Management simplifies secure site-to-cloud connections helping to meet the bandwidth demand. Branch networking requirements are changing with the widespread adoption of cloud services that are connected over the Internet. As cloud services connected through the internet become more and more popular, the need for effective branch networking is evolving. In practice, companies are compelled to rely more heavily on the Internet to support their cloud-based applications. The number of individuals utilizing the internet has increased, as a result, the demand for cloud-based services is also rising.

The traffic management sector has greater options due to the usage of cloud-based services, which also leads to easier network management, high application performance, increase bandwidth and network availability, and reduce overhead costs. Therefore, the increasing number of cloud-based solutions is projected to propel the global drone traffic management market during the forecast period.

Market Segmentation

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Based on type, the market is segmented into persistence and non-persistence. Based on component, the market is segmented into hardware, software, and services. Based on the solution, the market is segmented into communication infrastructure, surveillance Infrastructure, navigation Infrastructure, and others. Based on end user, the market is bifurcated into transportation & logistics, surveillance & monitoring, agriculture & forestry, defense & space, and others. The market analysis also studies the regional segmentation to devise regional market segmentation, divided among North America, Europe, Asia-Pacific, South America, and the Middle East & Africa.

Company Profiles

Airmap Inc., Delair-Tech, Altitude Angel Limited, Analytical Graphics Inc, SZ DJI Technology Co. Ltd, Frequentis AG, Harris Corporation, Lockheed Martin Corporation, Leonardo S.P.A, Nova Systems, Thales Group, Nokia Corporation, PrecisionHawk Inc, Sensefly Innovations Private Limited, and AiRXOS are major players that are driving the global drone traffic management market.

Report Scope:

In this report, the global drone traffic management market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

Global Drone Traffic Management Market, By Type:

Persistence

Non-Persistence

Global Drone Traffic Management Market, By Component:

Hardware

Software

Service

Global Drone Traffic Management Market, By Solution:

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Communication Infrastructure

Surveillance Infrastructure

Navigation Infrastructure

Others

Global Drone Traffic Management Market, By End-User:

Transportation & Logistics

Surveillance & Monitoring

Agriculture & Forestry

Defense & Space

Others

Global Drone Traffic Management Market, By Region:

Asia-Pacific

- China
- Japan
- India
- Australia
- South Korea
- Singapore

North America

- United States

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- Canada
- Mexico

Europe

- United Kingdom
- Germany
- France
- Spain
- Italy
- Austria
- Norway

Middle East & Africa

- Israel
- Qatar
- Saudi Arabia
- UAE

South America

- Brazil
- Argentina
- Colombia

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Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global drone traffic management market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

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

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