

Unmanned Traffic Management (UTM) Market Set to Surpass USD 2.94 Bn by 2030 & Increasing Demand for Drones Fuels Growth

Unmanned Traffic Management (UTM) Market is a growing market focused on managing drone traffic for safe and efficient operations.

AUSTIN, TEXAS, UNITED STATES,
January 31, 2024 /EINPresswire.com/ --
Unmanned Traffic Management (UTM)
Market Overview:

The [Unmanned Traffic Management \(UTM\) Market](#) is characterized by its

consolidated nature, where key players such as OneSky, Thales Group, Unifly NV, Frequentis, and Leonardo SPA dominate. Competition in the market drives a focus on advanced solutions, exemplified by Frequentis and Austro Control's collaboration, launching a drone management solution for safe integration into Austrian airspace. The digital traffic management system developed by Austro Control and Frequentis ensures safer, faster, and more efficient handling of flight clearances for Unmanned Aerial Vehicles (UAVs) starting from 2023.

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Unmanned Traffic Management (UTM) Market is poised to revolutionize airspace management by integrating drones into the existing airspace system.”

According to SNS Insider Research

The concept of Urban Air Mobility, involving the use of aerial vehicles for short-distance urban transportation, is gaining traction. As UAM projects and air taxi services become more prevalent, the need for robust UTM systems to manage low-altitude airspace and ensure safe operations increases.



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Market Sizing Paragraph:

According to the SNS Insider report, the Unmanned Traffic Management (UTM) Market, valued at USD 0.90 billion in 2022, is on a trajectory to reach USD 2.94 billion by 2030. This robust growth is underpinned by a surge in the demand for drones, technological advancements, and the need for efficient traffic management in the expanding airspace.

Major Key Players Included are:

- Intelligent Automation
- Leonardo SpA
- OneSky
- Terra Drone Corporation
- Unifly NV
- Airbus
- Altitude Angle
- Droniq GmbH
- PrecisionHawk Inc
- Thales Group, and other players.

Market Analysis

Anticipated to register a staggering CAGR of 15%, the Unmanned Traffic Management (UTM) Market finds itself buoyed by increased drone demand during the COVID-19 pandemic. The market's growth is further propelled by the development of Unmanned Traffic Management (UTM) systems, jointly initiated by NASA, the Federal Aviation Administration (FAA), and other agencies. These systems facilitate the safe integration of delivery drones and air taxis into future airspace. The rising demand for drone services and the integration of advanced technologies are key factors propelling the market's upward trajectory.

Segment Analysis

- The market is segmented into persistent UTM and non-persistent UTM. Persistent UTM, offering continuous monitoring and management of drone flights, is estimated to dominate due to its ability to provide a high level of safety and security.
- The capabilities encompassed within a persistent UTM system, including flight planning, communication, navigation, surveillance, and separation assurance, contribute to the continuous monitoring and control of drone flights, ensuring their safe and efficient operation

Market Segmentation & Sub-segmentation included are:

by Application

- Agriculture and Forestry
- Logistics and Transportation

- Surveillance and Monitoring

by End User

- Airports
- Emergency Service and Local Authorities
- Drone Operators or Pilots
- Recreational Users

by Component

- Hardware
- Software

by Type

- Persistent
- Non-Persistent

Growth Factors

- The burgeoning demand for drones across various sectors, including commercial, industrial, and recreational, is a primary growth factor for the UTM Market. Drones are being increasingly used for tasks such as surveillance, delivery, agriculture, and infrastructure inspection.
- Continuous advancements in drone technology, including improvements in communication systems, artificial intelligence, and sensor capabilities, enhance the overall efficiency and safety of unmanned aerial vehicles. These technological developments contribute to the growth of the UTM Market.
- The COVID-19 pandemic has accelerated the adoption of drone technology for various applications, such as contactless delivery and monitoring. Drones played a crucial role in maintaining supply chains and ensuring social distancing during the pandemic, leading to increased interest and investment in the UTM sector.

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Key Regional Development

North America claims the largest market share, maintaining its dominance during the forecast period. This growth is attributed to a large number of UAVs, significant investment in research and development, and the increasing use of drones for military applications. The United States, in particular, boasts over 873,000 registered unmanned aircraft systems as of 2021, demonstrating a substantial market presence. The procurement of drones for military purposes, such as the USD 1 million contract by the United States Border Patrol with Red Cat subsidiary Teal Drones in October 2022, further fuels the market's expansion.

Key Takeaways

- The UTM Market is witnessing a technological leap with advanced solutions ensuring safe drone integration.
- North America's robust drone ecosystem and military applications continue to drive UTM market dominance.
- Continuous monitoring offered by persistent UTM systems positions it as the leading segment, ensuring the safety and security of drone operations.

Recent Developments

In February 2022: OneSky partnered with Airservices Australia to develop a prototype Flight Information Management System (FIMS) for its UTM network.

In December 2021: DroneUp acquired AirMap Inc., enhancing its UTM service capabilities for efficient airspace management.

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