



UAS Traffic Management System Market Research Is Expected to Increase Growth Steadily By 2031



Over the past decade, unmanned aerial vehicles (UAVs) have witnessed several significant developments such as considerable reductions in weight, size, and cost, enhancement battery life, and increase in the degree of autonomy in operations. These developments have led to their wider adoption for a diverse range of applications across commercial and non-commercial end users. Companies operating in the UAV industry are working toward the development of fully autonomous UAVs, which will eliminate the need for a ground-based controller in the future. This will enable UAVs to perform tasks without human interventions. Moreover, this will reduce the operating cost of UAVs and make them a highly cost-effective solution across a varied range of commercial applications.

Read Report Overview: [UAS Traffic Management \(UTM\) System Market](#)

Presently, the spectrum of UAV applications is increasing, especially for small UAVs, which are now being widely adopted across the hobbyist end user. The prime factor behind the rise in demand for UAVs for commercial and hobbyist applications is their low price, compact size,

and improved performance. UAVs have now become more convenient in their operation, and consequently, are widely preferred among different industry verticals.

Commercial UAVs have witnessed significant growth over the past few years, especially after exemptions from Federal Aviation Administration (FAA) regulations in the U.S. European countries are also lenient toward the rulemaking for commercial UAVs. These exemptions have supported the demand growth for commercial and consumer UAVs globally. The military UAV market dominates the overall UAV market in terms of revenue generation, owing to the high unit price, which ranges from nearly \$100 thousand to \$50 million. Military UAVs are an integral part of any country's defense system.

Initially, drones took flight for a short range of about 1 km distance from the controller, keeping the drone in the visual line of sight (VLOS) of the remote pilot. However, about over a decade, the need for operating drones beyond VLOS is proliferating due to the increasing demand for commercial applications, such as package delivery, critical infrastructure inspection (rail, oil and gas, windmill), and others. These applications require drones to operate in BVLOS operations. The following figure represents the operating range for drones in BVLOS and VLOS.

In 2021, approximately 6 million commercial drone units are expected to be sold. The market is expected to grow at a CAGR of 10.75% during the forecast period 2021-2031 to reach 16 million units by 2031. In addition, 500 eVTOLs are expected to be operated in 2025, and the number is expected to reach 12,200 units by 2031 at a CAGR of 70.31% during 2025-2031.

The UTM system is an upcoming phenomenon that is envisioned to skillfully manage drone traffic in the lower level of the airspace. The system is primarily being developed for small-sized drones (i.e., drones with weight up to 55lb) that will fly 400 ft. above the ground level. The UTM system is envisaged to have several subsystems that will work together to provide an end-to-end service. The UTM system will be connected to different data providers to accumulate real-time information on weather, airspace traffic, drone registration, and credentials of drone operators, among others.

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Competitive Landscape

The competitive landscape of the UAS traffic management system market includes different strategies undertaken by the key stakeholders to gain market presence. As the system is currently under development and testing phase, all stakeholder companies are working

together to assist government and regulatory authorities in drafting rules and regulations. Some of the strategies adopted by companies are new product launches and developments, partnerships, collaborations, and acquisitions. Some of the key players in the UTM ecosystem are:

- Unifly
- io
- Altitude Angel
- OneSky
- DeDrone
- DJI Innovation
- Kittyhawk
- Microdrones
- PrecisionHawk
- SenseFly
- vHive
- AirMap