

Europe Space Situational Awareness (SSA) Market Forecast to 2028 -Regional Analysis - by Offering (Software and Services), Object (Mission-Related Debris, Rocket Bodies, Fragmentation Debris, Functional Spacecraft, and Non-Functional Spacecraft), End User (Commercial and Government & Military), and Orbit Range (Deep Space and Near Earth)

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Abstracts

The Europe space situational awareness (SSA) market was valued at US\$ 379.50 million in 2022 and is expected to reach US\$ 507.46 million by 2028; it is estimated to register a CAGR of 5.0% from 2022 to 2028.

Rising Amount of Space Debris

A number of objects such as probes, satellites, crewed spacecraft, landers, and space station flight elements are launched into Earth's orbit and beyond for interplanetary exploration missions to gain further understanding of the cosmos. As per United Nations Office for Outer Space Affairs (UNOOSA), 2,163 objects were launched into space in 2022, while in 2021 and 2020, a total of 1,810 and 1,274 objects, respectively, were launched. The number of space rocket launches, primarily for deploying satellites in space, is also rising rapidly. In 2021, there were 136 successful rocket launches, whereas in 2022, the number rose to 180.

The rapid rise in space launches necessitates the adoption of space situational awareness (SSA) solutions and services. SSA can be termed as the tracking,

understanding and classification of space objects and their functional environment. SSA provides the decision-makers with Space Domain Awareness (SDA), which is the ability to understand current and predicted working environments, and thus is the key to all space safety and space traffic management (STM) activities. SSA tracks objects in space, identifies them, establishes their orbits, gathers intelligence on the environment they are operating in and predicts their future positions, as well as threats that might be arising to their operations. The data can indicate conjunctions between objects and warn space operators to enable collision avoidance maneuvers for potentially dangerous close approaches.

The SSA can also be utilized for anticipating debris creation from fragmentation events, meteor storms, or other natural events, and suggest a reaction to ensure unhindered operations. Thus, various government agencies and private space companies have increasingly adopted SSA. In April 2021, Lockheed Martin announced that German Space Agency at DLR (Deutsches Zentrum für Luft- und Raumfahrt/German Aerospace Center) adopted its iSpace command and control system for tasking German sensors to support monitoring of high-interest objects and space events. The German Space Agency at DLR is the national space agency of Germany and operates the German Space Situational Awareness Center (GSSAC) in cooperation with the German Air Force. Lockheed's iSpace system is capable of tracking multiple objects orbiting the Earth through analysis of data collected from a global network of commercial, scientific community, and government surveillance sensors. The system is reportedly capable of providing real-time awareness of incidents in space (e.g., collisions, maneuvers, breakups, launches), alerting operators of irregularities and suggesting recommended measures for any such incidents.

Satellites are essential in everyday life and support fields such as Earth observation, communications, and navigation. Additionally, developing and deploying a satellite is highly cost intensive, and any damage to the same can result in a total loss of investment. Thus, ensuring satellites' safety is critical to continuing technological innovation on Earth's surface. Thus, the rising number of satellites launches and other objects into space is fueling the growth of the Europe space situational awareness market.

Europe Space Situational Awareness (SSA) Market Overview

Furthermore, various European Space Agency provide SSA programs in the region. For example, European Space Astronomy Centre (ESAC) hosts the team for the European Space Situational Awareness (SSA) Preparatory Programme to provide accurate

information regarding the objects orbiting Earth, the space environment, and incoming threats from space. The SSA programme will help the government autonomously detect, predict, and assess the risk of remnant space objects, in-orbit explosions, collisions, disruption of missions, and satellite-based service capabilities, as well as the effects of space weather phenomena on space- and ground-based infrastructure. Thus, the growing demand for space situational awareness to protect European satellites from any kind of harm will further continue to fuel the growth of the space situational awareness (SSA) market during the forecast period.

Europe Space Situational Awareness (SSA) Market Revenue and Forecast to 2028 (US\$ Million)

Europe Space Situational Awareness (SSA) Market Segmentation

The Europe space situational awareness (SSA) market is segmented based on offering, object, end user, orbit range, and country. Based on offering, the Europe space situational awareness (SSA) market is bifurcated into software and services. The services segment held a larger market share in 2022.

Based on object, the Europe space situational awareness (SSA) market is segmented into mission-related debris, rocket bodies, fragmentation debris, functional spacecraft, and non-functional spacecraft. The fragmentation debris segment held the largest market share in 2022.

Based on source, the Europe space situational awareness (SSA) market is bifurcated into nuclear reactors and cyclotrons. The cyclotrons segment held a larger market share in 2022.

Based on end user, the Europe space situational awareness (SSA) market is bifurcated into commercial and government & military. The government & military segment held a larger market share in 2022.

Based on orbit range, the Europe space situational awareness (SSA) market is bifurcated into deep space and near earth. The near earth segment held a larger market share in 2022.

Based on country, the Europe space situational awareness (SSA) market is segmented into Germany, France, Italy, the UK, Russia, and the Rest of Europe. Russia dominated the Europe space situational awareness (SSA) market share in 2022.

Ansys Inc; GMV Innovating Solutions SL; L3Harris Technologies Inc.; Kratos Defense and Security Solutions Inc.; Lockheed Martin Corp; Parsons Corp; and Belcan LLC are the leading companies operating in the Europe space situational awareness (SSA) market.

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