

North America 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 North America space situational awareness (SSA) market was valued at US\$ 816.80 million in 2022 and is expected to reach US\$ 1,176.38 million by 2028; it is estimated to register a CAGR of 6.3% from 2022 to 2028.

Rising Amount of Space Debris

All non-functional artificial materials orbiting the Earth at different altitudes can be termed space debris. Their size can range from less than a centimeter to a two-story building. It can include rocket body parts, fragmentation debris, refuse created during crewed missions, exhaust products from rockets, and defunct satellites. A majority of such debris orbit the Earth at an average speed of above 26,000 km per hour in Low Earth Orbits (LEO) and thus pose a severe threat of collision for functional space assets. Such threats increase with each rocket launch for LEO and deep space. Growing collision threats of space objects is a persistent problem for safe and sustainable use of outer space. These threats restrict unhindered access to space and prompt relevant parties to take necessary steps to mitigate risk. In 2021, ISRO carried out 19 CAMs, compared to 12 and 8 CAMs in 2020 and 2019, respectively.

Many state-of-the-art defense technologies such as guided missiles, drones, intelligence data collections, encrypted communications, and navigation would be limited or can become inoperable with defunct satellite systems. It is thus crucial to analyze the comparative approach of all space objects to detect collision threats well in advance. SSA deals with the thorough knowledge of the space environment, assessment of any threats to space activities, and implementing necessary mitigation measures to safeguard the functional space assets. It consequently plays a crucial role in ensuring safe and sustainable space activities complying with domestic and international guidelines, standards, and other norms. Owing to the critical functionality of SSA and the rising importance of satellites, the space situational awareness market is positively impacted by the increasing amount of space debris.

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North America Space Situational Awareness (SSA) Market Overview

Increasing collision threats of orbital debris with the operational space assets have become a perennial problem for the sustainable and safe use of outer space. These threats restrict unhindered access to the space and also compel space authorities to take appropriate measures to mitigate them. The development of Space Situational Awareness (SSA) programs in the US help monitor various threats from human-made objects, which include other satellites, space vessels, antisatellite weapons, and space debris. SSA also helps serve military objectives, which include preparing for defensive and offensive operations, in the US.

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

North America Space Situational Awareness (SSA) Market Segmentation

The North America space situational awareness (SSA) market is segmented based on offering, object, end user, orbit range, and country. Based on offering, the North America 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 North America 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 North America 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 North America 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 North America 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 North America space situational awareness (SSA) market is segmented into the US, Canada, and Mexico. The US dominated the North America space situational awareness (SSA) market share in 2022.

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

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