

Asia Pacific 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 Asia Pacific space situational awareness (SSA) market was valued at US\$ 245.56 million in 2022 and is expected to reach US\$ 378.91 million by 2028; it is estimated to register a CAGR of 7.5% from 2022 to 2028.

Elevated Demand of Satellite Constellation

As per the International Astronomical Union (IAU), a satellite constellation consists of a number of satellites that are similar in type, function, and design in complementary orbits for a shared purpose under shared control. Satellite constellations have applications such as navigation and geodesy, satellite telephony, and Earth observation. Companies are planning large-scale satellite constellations in LEO and mid-Earth orbits to provide Internet of Things (IoT) or satellite internet to connect machines and systems directly. As per IAU, a constellation with thousands of individual units at low altitudes can reduce signal latency while maintaining high levels of coverage, especially in remote areas without developed ground infrastructure. Currently, nearly 2,000 active satellites are orbiting the Earth and the number is expected to increase manifold, as there are several planned satellite constellation deployments in the coming

decades. In March 2023, OneWeb confirmed the successful deployment and contact of 40 satellites launched by a SpaceX vessel. The deployment led to a total count of 582 satellites in the company's constellation. The company anticipates being just one mission away from completing its Gen 1 constellation, after which it can activate its region broadband service. Elon Musk owned SpaceX has already built a network of more than 3,500 satellites for its Starlink constellation, and the number is expected to increase in the coming years. In March 2023, China Satellite Network Group Corp and the Chinese government announced their plans to launch their first satellite for China's first satellite constellation by September 2023. In November 2021, France successfully deployed three military signals intelligence satellites through an Arianespace Vega rocket as part of its Capacit? de Renseignement ?lectromagn?tique Spatiale (CERES) constellation. As interest progresses for satellite constellation, it will also create space congestion and a higher amount of space debris. Such trends are thus expected to promote the growth of the space situational awareness market in the future.

Asia Pacific Space Situational Awareness (SSA) Market Overview

The expanding space development initiatives in Asia Pacific are creating a profound shift in the understanding of the cosmos, boosting national security, and offering vital information, goods, and services that further support innovation. The growing space development activities by the collaborative efforts of different countries, such as China, India, Japan, and South Korea are catalyzing the demand for space situational awareness, which is subsequently propelling the market growth in the region. One of the world's largest space projects is run by China. It either conducts the most or the second most orbital launches each year.

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

Asia Pacific Space Situational Awareness (SSA) Market Segmentation

The Asia Pacific space situational awareness (SSA) market is segmented based on offering, object, end user, orbit range, and country. Based on offering, the Asia Pacific 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 Asia Pacific 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 Asia Pacific 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 Asia Pacific 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 Asia Pacific 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 Asia Pacific space situational awareness (SSA) market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific 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 Asia Pacific space situational awareness (SSA) market.

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