

Global On-Orbit Satellite Servicing Market Size study, by Service (Active Debris Removal (ADR) and Orbit Adjustment, Robotic Servicing, Refuelling, Assembly), by Orbit Type (GEO (Geostationary Orbit), LEO (Low Earth Orbit), MEO (Medium Earth Orbit)), by End-User (Commercial, Military and Government), and Regional Forecasts 2022-2032

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Abstracts

Global On-Orbit Satellite Servicing Market is valued at approximately USD 3.76 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 10.63% over the forecast period 2024-2032. On-Orbit Satellite Servicing (OOSS) refers to a set of technologies and practices aimed at extending the operational life and enhancing the capabilities of satellites while they are in space. This includes activities such as satellite repair, refueling, upgrading, and even assembling or modifying satellites in orbit. OOSS can involve docking spacecraft that perform maintenance tasks, deploying robotic systems to conduct repairs, or using specialized vehicles to deliver new equipment and fuel to existing satellites. The goal of OOSS is to reduce costs associated with launching new satellites, improve the longevity and functionality of space assets, and enable more flexible and responsive space missions.

The Global On-Orbit Satellite Servicing Market is driven by increasing aging satellite population is a major driving force behind the on-orbit satellite servicing market. As satellites age, their performance declines, necessitating servicing to maintain their operational capabilities. Furthermore, technological advancements in robotics and automation have made on-orbit servicing more feasible and cost-effective. Moreover, launching new satellites underscore the value of servicing existing ones, thereby propelling the market growth. However, the market faces significant challenges due to the complex and costly nature of the technology required for on-orbit servicing. The

development and deployment of servicing satellites and robotic arms necessitate substantial investment, posing a barrier to market entry for new players. Moreover, stringent regulatory frameworks and the need for international cooperation further complicate market dynamics.

The key regions considered for the Global On-Orbit Satellite Servicing Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, North America is the largest regional market for on-orbit satellite servicing, driven by the presence of major space agencies and private companies investing in satellite technologies. The region's advanced space infrastructure and supportive governmental policies foster market growth. Furthermore, Asia-Pacific are experiencing significant market expansion, supported by increasing governmental and commercial investments in space capabilities.

Major market players included in this report are:

AstroScales Holdings Inc.

Momentum Space

Orbit Fab, Inc.

Maxar Technologies

Thales Alenia Space SAS

Tethers Unlimited

Airbus SE

Nanoracks (Voyager Space)

Altius Space Machines

Aerospace Corporation

The detailed segments and sub-segment of the market are explained below:

By Service:

- Active Debris Removal (ADR) and Orbit Adjustment
- Robotic Servicing
- Refuelling
- Assembly

By Orbit Type:

- GEO (Geostationary Orbit)
- LEO (Low Earth Orbit)
- MEO (Medium Earth Orbit)

By End-User:

- Commercial
- Military and Government

By Region:

North America

- U.S.

- Canada

Europe

- UK

- Germany

- France

- Spain

- Italy

- ROE

Asia Pacific

- China

- India

- Japan

- Australia

- South Korea

- RoAPAC

Latin America

- Brazil

- Mexico

- RoLA

Middle East & Africa

- Saudi Arabia

- South Africa

- RoMEA

Years considered for the study are as follows:

- Historical year – 2022

- Base year – 2023

- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.

- Annualized revenues and regional level analysis for each market segment.

- Detailed analysis of geographical landscape with Country level analysis of major regions.

- Competitive landscape with information on major players in the market.

- Analysis of key business strategies and recommendations on future market approach.

- Analysis of competitive structure of the market.

- Demand side and supply side analysis of the market

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