

Fixed Satellite Services (FSS) Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Service Type (Wholesale Services, Broadband and Enterprise Network, TV Channel Broadcast, Video Contribution and Distribution, Trunking and Backhaul, Managed Services, Others), By Organization Size (Small office Home office (SOHO), Small and Medium Businesses (SMBS), Large Enterprises), By Vertical (Government, Education, Media and Entertainment, Oil and Gas, Retail, Telecom and IT, Others), By Region & Competition, 2020-2030F

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Abstracts

Market Overview

Global Fixed Satellite Services (FSS) Market was valued at USD 19.81 Billion in 2024 and is expected to reach USD 26.60 Billion by 2030 with a CAGR of 5.03% through 2030. The Fixed Satellite Services (FSS) Market refers to the segment of the satellite industry that provides communication services through geostationary satellites using fixed ground stations.

These services are primarily used for television broadcasting, broadband data services, corporate network connectivity, and military communications. FSS operates through dedicated frequency bands such as C-band, Ku-band, and Ka-band, ensuring reliable and continuous communication. Unlike mobile satellite services, FSS systems maintain fixed positions, making them ideal for consistent, high-capacity communication links in

areas lacking terrestrial infrastructure.

The Fixed Satellite Services (FSS) Market is experiencing strong growth driven by several key factors. One major driver is the rising global demand for broadband internet, particularly in remote and rural regions where traditional fiber-optic infrastructure is impractical. Additionally, the expansion of digital TV and HD broadcasting has sustained high demand for satellite transponder capacity. Governments and defense organizations are also increasing their reliance on satellite services for secure, uninterrupted communication, surveillance, and disaster management, further fueling the market.

Technological advancements are accelerating the growth of the Fixed Satellite Services (FSS) Market. The development of high-throughput satellites (HTS) has significantly improved bandwidth capacity and reduced costs, making FSS more attractive to commercial and governmental users. Emerging markets in Asia-Pacific, Africa, and Latin America are increasingly investing in satellite infrastructure to bridge the digital divide and support economic development. Moreover, partnerships between satellite operators and telecom companies are enhancing service delivery and expanding user access. With the continuous increase in global data traffic, growing demand for uninterrupted connectivity, and technological innovations, the Fixed Satellite Services (FSS) Market is expected to witness sustained and robust growth in the coming years.

Key Market Drivers

Expanding Demand for High-Speed Internet in Remote and Underserved Regions

One of the most compelling drivers of the Fixed Satellite Services (FSS) Market is the surging global demand for high-speed internet, particularly in areas where terrestrial infrastructure remains limited or non-existent. Rural and remote communities across developing and even developed nations are often disconnected from fiber-optic networks due to geographic and economic constraints. FSS bridges this gap by offering satellite-based broadband, allowing governments and private enterprises to deliver reliable internet connectivity. This is especially relevant in countries with vast land areas and sparsely populated regions, such as Canada, India, Brazil, and several parts of Sub-Saharan Africa.

Governments and NGOs are increasingly investing in satellite internet as part of national digital inclusion strategies. Satellite broadband is proving critical for connecting rural schools, hospitals, and community centers, helping to ensure equitable access to

online services such as education, e-governance, and telemedicine. Additionally, emerging economies are tapping into FSS infrastructure to support economic empowerment and innovation in remote regions. As more nations aim to close the digital divide, the role of the Fixed Satellite Services (FSS) Market as a primary enabler of remote connectivity will continue to strengthen. As of 2024, over 2.7 billion people globally lack internet access, primarily in rural and hard-to-reach areas. This immense connectivity gap represents a significant opportunity for FSS providers to deploy satellite-based broadband solutions. Satellite technology can bypass traditional infrastructure challenges, bringing digital inclusion to underserved populations across continents like Africa, Asia, and Latin America.

Key Market Challenges

Intensifying Competition from Terrestrial and Low Earth Orbit (LEO) Alternatives

The Fixed Satellite Services (FSS) Market is increasingly facing competitive pressure from ground-based telecommunications networks and emerging Low Earth Orbit (LEO) satellite constellations. Fiber-optic networks and 5G infrastructure continue to expand aggressively in both developed and developing countries, offering high-speed, low-latency connectivity at competitive prices. These terrestrial solutions are particularly attractive for urban and semi-urban markets, where the cost of laying fiber has become more economically viable due to high population density and favorable return on investment. As telecom companies ramp up last-mile connectivity and governments invest in rural 5G rollouts, FSS operators find it increasingly difficult to justify premium pricing or position their services in areas where terrestrial alternatives are reaching.

Simultaneously, the rise of LEO satellite constellations — such as Starlink (SpaceX), OneWeb, and Amazon's Project Kuiper — is significantly altering the competitive landscape for FSS providers. These new networks offer lower latency and faster data rates due to their proximity to Earth, challenging the traditional advantages held by geostationary satellites. Unlike FSS, which requires large ground antennas and stationary infrastructure, LEO systems often provide user-friendly, portable terminals that appeal to both consumers and enterprises. This technical advantage, coupled with aggressive pricing strategies and vertically integrated models, is forcing FSS operators to re-evaluate their value proposition. As customer expectations shift toward instant connectivity and scalable bandwidth, the legacy model of fixed satellite communication appears increasingly rigid. Without meaningful innovation or pricing adjustments, the FSS sector risks losing significant market share to more agile competitors.

Key Market Trends

Integration of Cloud and Virtualized Satellite Ground Infrastructure

The integration of cloud computing and virtualization into satellite ground infrastructure is transforming the operational model of the Fixed Satellite Services (FSS) Market. Traditionally, FSS relied heavily on static, hardware-based ground systems with rigid signal processing and data routing frameworks. Today, operators are transitioning toward software-defined ground stations that leverage cloud-based platforms like Amazon Web Services (AWS) Ground Station or Microsoft Azure Orbital. These solutions provide scalable, on-demand access to satellite telemetry, tracking, and command functions, reducing latency, enhancing system agility, and lowering operational costs. By decoupling hardware from software, satellite operators can manage and reconfigure satellite payloads in real-time based on user demand and network traffic conditions.

This cloud-driven transformation aligns with the broader digitization of enterprise and government communication networks. Organizations are increasingly demanding satellite services that integrate seamlessly with cloud-native applications, data centers, and hybrid IT environments. As a result, FSS providers are reengineering their service models to deliver connectivity as a service (CaaS) or bandwidth-on-demand—mirroring the consumption patterns of modern cloud services. This trend is unlocking new use cases across sectors like disaster recovery, remote business operations, and borderless IoT applications. As the cloud ecosystem matures and satellite-ground virtualization becomes more widespread, FSS operators that can integrate digital flexibility into their offerings will be well-positioned to lead the market transformation.

Key Market Players

SES S.A.

Intelsat S.A.

Eutelsat Communications S.A.

Telesat Canada

Thaicom Public Company Limited

Arab Satellite Communications Organization (Arabsat)

Hispasat S.A.

China Satellite Communications Co., Ltd.

Report Scope:

In this report, the Global Fixed Satellite Services (FSS) Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Fixed Satellite Services (FSS) Market, By Service Type:

Wholesale Services

Broadband and Enterprise Network

TV Channel Broadcast

Video Contribution and Distribution

Trunking and Backhaul

Managed Services

Others

Fixed Satellite Services (FSS) Market, By Organization Size:

Small office Home office (SOHO)

Small and Medium Businesses (SMBS)

Large Enterprises

Fixed Satellite Services (FSS) Market, By Vertical:

Government

Education

Media and Entertainment

Oil and Gas

Retail

Telecom and IT

Others

Fixed Satellite Services (FSS) Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

South America

Brazil

Colombia

Argentina

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Fixed Satellite Services (FSS) Market.

Available Customizations:

Global Fixed Satellite Services (FSS) Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. VOICE OF CUSTOMER

5. GLOBAL FIXED SATELLITE SERVICES (FSS) MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Service Type (Wholesale Services, Broadband and Enterprise Network, TV Channel Broadcast, Video Contribution and Distribution, Trunking and Backhaul, Managed Services, Others)
 - 5.2.2. By Organization Size (Small office Home office (SOHO), Small and Medium

Businesses (SMBS), Large Enterprises)

5.2.3. By Vertical (Government, Education, Media and Entertainment, Oil and Gas, Retail, Telecom and IT, Others)

5.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

5.3. By Company (2024)

5.4. Market Map

6. NORTH AMERICA FIXED SATELLITE SERVICES (FSS) MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Service Type

6.2.2. By Organization Size

6.2.3. By Vertical

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Fixed Satellite Services (FSS) Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Service Type

6.3.1.2.2. By Organization Size

6.3.1.2.3. By Vertical

6.3.2. Canada Fixed Satellite Services (FSS) Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Service Type

6.3.2.2.2. By Organization Size

6.3.2.2.3. By Vertical

6.3.3. Mexico Fixed Satellite Services (FSS) Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Service Type

6.3.3.2.2. By Organization Size

6.3.3.2.3. By Vertical

7. EUROPE FIXED SATELLITE SERVICES (FSS) MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Service Type

7.2.2. By Organization Size

7.2.3. By Vertical

7.2.4. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Fixed Satellite Services (FSS) Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Service Type

7.3.1.2.2. By Organization Size

7.3.1.2.3. By Vertical

7.3.2. France Fixed Satellite Services (FSS) Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Service Type

7.3.2.2.2. By Organization Size

7.3.2.2.3. By Vertical

7.3.3. United Kingdom Fixed Satellite Services (FSS) Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Service Type

7.3.3.2.2. By Organization Size

7.3.3.2.3. By Vertical

7.3.4. Italy Fixed Satellite Services (FSS) Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Service Type

7.3.4.2.2. By Organization Size

7.3.4.2.3. By Vertical

7.3.5. Spain Fixed Satellite Services (FSS) Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Service Type

7.3.5.2.2. By Organization Size

7.3.5.2.3. By Vertical

8. ASIA PACIFIC FIXED SATELLITE SERVICES (FSS) MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Service Type

8.2.2. By Organization Size

8.2.3. By Vertical

8.2.4. By Country

8.3. Asia Pacific: Country Analysis

8.3.1. China Fixed Satellite Services (FSS) Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Service Type

8.3.1.2.2. By Organization Size

8.3.1.2.3. By Vertical

8.3.2. India Fixed Satellite Services (FSS) Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Service Type

8.3.2.2.2. By Organization Size

8.3.2.2.3. By Vertical

8.3.3. Japan Fixed Satellite Services (FSS) Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Service Type

8.3.3.2.2. By Organization Size

8.3.3.2.3. By Vertical

8.3.4. South Korea Fixed Satellite Services (FSS) Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Service Type

8.3.4.2.2. By Organization Size

8.3.4.2.3. By Vertical

8.3.5. Australia Fixed Satellite Services (FSS) Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Service Type

8.3.5.2.2. By Organization Size

8.3.5.2.3. By Vertical

9. MIDDLE EAST & AFRICA FIXED SATELLITE SERVICES (FSS) MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Service Type

9.2.2. By Organization Size

9.2.3. By Vertical

9.2.4. By Country

9.3. Middle East & Africa: Country Analysis

9.3.1. Saudi Arabia Fixed Satellite Services (FSS) Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Service Type

9.3.1.2.2. By Organization Size

9.3.1.2.3. By Vertical

9.3.2. UAE Fixed Satellite Services (FSS) Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Service Type

9.3.2.2.2. By Organization Size

- 9.3.2.2.3. By Vertical
- 9.3.3. South Africa Fixed Satellite Services (FSS) Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Service Type
 - 9.3.3.2.2. By Organization Size
 - 9.3.3.2.3. By Vertical

10. SOUTH AMERICA FIXED SATELLITE SERVICES (FSS) MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Service Type
 - 10.2.2. By Organization Size
 - 10.2.3. By Vertical
 - 10.2.4. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Fixed Satellite Services (FSS) Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Service Type
 - 10.3.1.2.2. By Organization Size
 - 10.3.1.2.3. By Vertical
 - 10.3.2. Colombia Fixed Satellite Services (FSS) Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Service Type
 - 10.3.2.2.2. By Organization Size
 - 10.3.2.2.3. By Vertical
 - 10.3.3. Argentina Fixed Satellite Services (FSS) Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Service Type
 - 10.3.3.2.2. By Organization Size

10.3.3.2.3. By Vertical

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS AND DEVELOPMENTS

12.1. Merger & Acquisition (If Any)

12.2. Product Launches (If Any)

12.3. Recent Developments

13. COMPANY PROFILES

13.1. SES S.A.

13.1.1. Business Overview

13.1.2. Key Revenue and Financials

13.1.3. Recent Developments

13.1.4. Key Personnel

13.1.5. Key Product/Services Offered

13.2. Intelsat S.A.

13.3. Eutelsat Communications S.A.

13.4. Telesat Canada

13.5. Thaicom Public Company Limited

13.6. Arab Satellite Communications Organization (Arabsat)

13.7. Hispasat S.A.

13.8. China Satellite Communications Co., Ltd.

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

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