

Advanced Surface Movement Guidance and Control System Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (Surveillance, Planning & Routing, Monitoring & Alerting, Guidance), By Offering (Hardware, Software), By End Use (Commercial, Defense) , By Region, Competition, 2019-2029F

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Abstracts

Global Advanced Surface Movement Guidance and Control System Market was valued at USD 5.34 billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 6.18% through 2029. The Advanced Surface Movement Guidance and Control System (A-SMGCS) market is witnessing substantial growth driven by the increasing demand for efficient and safe airport operations worldwide. A-SMGCS is a sophisticated surveillance system that enhances situational awareness and control of surface movement at airports, including aircraft, vehicles, and personnel.

One of the primary factors propelling the A-SMGCS market is the growing air traffic congestion and the need to improve runway safety and capacity. With the continuous expansion of air travel, airports are experiencing higher volumes of aircraft movements, leading to congestion on runways, taxiways, and aprons. A-SMGCS provides real-time surveillance and guidance to air traffic controllers, enabling them to manage surface traffic efficiently and mitigate the risk of runway incursions and collisions.

Furthermore, regulatory mandates and safety standards set by aviation authorities are driving the adoption of A-SMGCS systems. Aviation regulatory bodies such as the International Civil Aviation Organization (ICAO) and the Federal Aviation Administration (FAA) emphasize the implementation of advanced technologies to enhance airport

safety and operational efficiency. A-SMGCS helps airports comply with these regulations by providing advanced surveillance, monitoring, and control capabilities.

The market is also influenced by technological advancements and innovations in A-SMGCS solutions. Manufacturers are developing advanced sensors, radar systems, and data processing algorithms to improve the accuracy and reliability of surface surveillance. Integration of A-SMGCS with other airport systems such as air traffic management (ATM) and airport collaborative decision-making (A-CDM) further enhances operational efficiency and coordination among stakeholders.

Moreover, the increasing focus on modernization and expansion of airport infrastructure in emerging economies is driving the demand for A-SMGCS solutions. Countries undergoing rapid urbanization and economic development are investing in the construction of new airports and the expansion of existing facilities to accommodate growing air travel demand. A-SMGCS systems play a crucial role in ensuring safe and efficient airport operations in these expanding aviation markets.

However, challenges such as high initial investment costs, interoperability issues, and cybersecurity concerns may hinder market growth to some extent. Addressing these challenges requires collaboration among stakeholders, including airport authorities, technology providers, and regulatory agencies, to develop standardized solutions and best practices for A-SMGCS implementation.

In conclusion, the A-SMGCS market is experiencing steady growth driven by the increasing demand for enhanced airport safety, efficiency, and capacity. Technological advancements, regulatory mandates, and infrastructure development initiatives are key factors driving market expansion, positioning A-SMGCS as a vital component of modern airport operations worldwide.

Market Drivers

Enhanced Safety and Efficiency Imperative

One of the primary drivers fueling the growth of the Global A-SMGCS market is the imperative for enhanced safety and efficiency in airport surface movement. As air traffic continues to surge globally, airports face the challenge of managing complex ground movements efficiently while ensuring the highest levels of safety. A-SMGCS addresses this imperative by providing real-time surveillance, monitoring, and control of aircraft and vehicles on the airport surface, mitigating the risk of collisions and enhancing

operational efficiency. By providing real-time situational awareness, A-SMGCS enables controllers to detect and prevent potential conflicts, reducing the risk of runway incursions and enhancing overall safety. A-SMGCS incorporates conflict detection and resolution capabilities, allowing controllers to identify potential conflicts between aircraft and vehicles on the ground. The system analyzes data from various sensors and surveillance sources to detect deviations from planned trajectories or unexpected movements. In the event of a potential conflict, A-SMGCS provides controllers with automated tools and alerts to facilitate timely decision-making and resolution, preventing accidents and improving the overall efficiency of surface operations. Efficient surface movements are essential for minimizing taxi times, reducing fuel consumption, and enhancing overall airport capacity. A-SMGCS optimizes surface movements by providing controllers with accurate and up-to-date information on the location and status of all aircraft and vehicles on the ground. This enables controllers to sequence and manage departures and arrivals more efficiently, reducing congestion and delays on the airport surface. The imperative for enhanced safety and efficiency is a foundational driver that underscores the adoption of A-SMGCS as a critical component of modern airport operations, contributing to the overall safety and effectiveness of surface movements.

Global Surge in Air Travel Demand

The global surge in air travel demand, driven by factors such as economic growth, increased affordability, and the interconnectedness of global markets, is a key driver influencing the adoption of A-SMGCS. As airports experience higher volumes of flights and passengers, the need for robust surface movement guidance and control systems becomes evident to ensure seamless and safe operations. The exponential increase in passenger traffic, especially in densely populated regions and emerging economies, is a driving force for the adoption of A-SMGCS. The system's ability to optimize surface movements and prevent delays contributes to a smoother passenger experience, aligning with the expectations of modern air travelers. The expansion of air travel is accompanied by the introduction of larger and more diverse aircraft fleets. A-SMGCS becomes indispensable in managing the diverse mix of aircraft sizes and types on the airport surface, ensuring that controllers can efficiently handle departures, arrivals, and taxiing operations for various aircraft categories. Airports serving as international hubs or key nodes in global air travel networks face unique challenges in managing the diverse range of flights connecting different regions. A-SMGCS facilitates the efficient coordination of international arrivals and departures, contributing to the global connectivity and interoperability of airports.

Integration of Advanced Technologies:

The integration of advanced technologies is a key driver shaping the Global A-SMGCS market, with continuous innovations enhancing the capabilities and functionalities of these systems. The integration of Global Navigation Satellite Systems, such as GPS and Galileo, enhances the accuracy and reliability of A-SMGCS surveillance. GNSS provides precise positioning information, enabling controllers to track the movements of aircraft and vehicles with high accuracy. This technology is particularly valuable in situations where traditional surveillance methods may face limitations. A-SMGCS relies on sophisticated data fusion and information processing algorithms to integrate data from multiple sources and provide a comprehensive and coherent picture of the airport surface. These algorithms analyze surveillance data, weather information, and other relevant data points to generate real-time situational awareness for controllers. The integration of data fusion enhances the system's ability to detect potential conflicts, optimize surface movements, and support decision-making. Collaborative Decision-Making is an emerging trend in A-SMGCS, fostering communication and coordination among various stakeholders, including airlines, airport operators, and air traffic control. Advanced technologies facilitate the exchange of data and information, enabling collaborative decision-making processes that enhance overall operational efficiency and optimize the use of airport resources.

Expansion of Airport Infrastructure

The expansion and modernization of airport infrastructure, driven by the increasing demand for air travel, serve as significant drivers for the adoption of A-SMGCS. As airports strive to accommodate growing passenger volumes and larger aircraft fleets, the need for efficient and safe surface movement guidance and control becomes paramount. A-SMGCS plays a crucial role in capacity enhancement by optimizing surface movements and reducing congestion on taxiways and runways. As airports expand their infrastructure to handle more flights and passengers, the implementation of A-SMGCS becomes essential to ensure that the increased traffic can be managed safely and efficiently. The construction of new runways, taxiways, and apron areas as part of airport expansion projects necessitates the deployment of A-SMGCS to maintain safe and orderly surface operations. A-SMGCS facilitates the integration of new infrastructure elements into existing operations, supporting controllers in managing the complexities associated with larger airport footprints. The expansion of airport infrastructure often involves the integration of A-SMGCS with other ground-based systems, such as airport surveillance radar, ground control systems, and air traffic management platforms. This integration ensures seamless coordination and

communication between different components of the airport's infrastructure, contributing to a holistic approach to surface movement guidance and control.

Key Market Challenges

Integration Complexity and Interoperability

A significant challenge in the global A-SMGCS market is the complexity of integrating A-SMGCS solutions with existing airport infrastructure and air traffic management systems. Airports often operate a mix of legacy and modern technologies, and ensuring seamless interoperability between A-SMGCS components, radar systems, air traffic control systems, and other airport management systems is a complex task. The challenge is further compounded by the need for standardized communication protocols to facilitate data exchange between diverse systems. Achieving integration without disrupting ongoing airport operations and ensuring that A-SMGCS can effectively interface with other surveillance and navigation technologies, demands meticulous planning, testing, and collaboration among technology providers, airports, and aviation authorities.

Costs and Budgetary Constraints:

The implementation of A-SMGCS involves significant costs related to technology acquisition, installation, training, and maintenance. Budgetary constraints often pose a challenge for airports, especially those in regions with limited financial resources. The upfront investment required for the deployment of A-SMGCS systems may be a barrier for some airports, particularly smaller or regional facilities. Balancing the need for advanced surface movement guidance and control capabilities with the financial realities of airports is a delicate challenge. This challenge calls for innovative funding models, public-private partnerships, and cost-effective solutions to make A-SMGCS more accessible to a broader range of airports worldwide.

Regulatory Compliance and Standardization

The aviation industry operates under strict regulatory frameworks, and compliance with international standards is paramount for ensuring safety and interoperability. The lack of standardized requirements for A-SMGCS implementation poses a challenge for both technology providers and airports. Harmonizing A-SMGCS standards globally is crucial to facilitate uniform adoption and operation across diverse airport environments. Additionally, regulatory bodies need to establish clear guidelines for A-SMGCS

deployment, defining the minimum requirements and performance standards. The challenge lies in achieving a balance between flexibility to accommodate variations in airport infrastructure and the establishment of standardized practices that promote consistency, safety, and interoperability across the global aviation network.

Human Factors and Training

The effective utilization of A-SMGCS technology relies on the competence and proficiency of the human operators involved. Training air traffic controllers, ground personnel, and other stakeholders to use A-SMGCS effectively is a critical challenge. Familiarizing operators with new technologies, procedures, and the interpretation of A-SMGCS data requires comprehensive training programs. Moreover, addressing human factors such as workload management, situational awareness, and communication protocols is essential for the successful implementation of A-SMGCS. Ensuring that operators can effectively use A-SMGCS information to make informed decisions and respond to dynamic situations on the ground poses an ongoing challenge that demands continuous training, assessment, and adaptation to evolving technologies.

Cybersecurity Risks and Resilience

As A-SMGCS becomes more interconnected and reliant on digital communication and information exchange, the vulnerability to cyber threats emerges as a critical challenge. Protecting A-SMGCS systems from potential cyber-attacks, data breaches, and unauthorized access is paramount for maintaining the integrity and reliability of ground surveillance and control. The challenge extends to developing robust cybersecurity measures that can adapt to evolving cyber threats and ensuring the resilience of A-SMGCS against potential disruptions. Collaborative efforts between technology providers, aviation authorities, and cybersecurity experts are essential to establish best practices, conduct regular security assessments, and address vulnerabilities in A-SMGCS systems to safeguard critical airport operations.

Key Market Trends

Implementation of Runway Incursion Warning Systems (RIWS)

The prevention of runway incursions is a paramount concern in airport safety, and the implementation of Runway Incursion Warning Systems (RIWS) is emerging as a prominent trend in the global A-SMGCS market. RIWS is designed to provide timely alerts to air traffic controllers and vehicle operators when there is a risk of an aircraft or

vehicle crossing a runway without proper clearance. This trend reflects the industry's commitment to mitigating the risks associated with runway incursions, which can have serious safety implications. The integration of advanced algorithms, real-time surveillance data, and predictive analytics contributes to the effectiveness of RIWS, ensuring proactive warnings and reducing the likelihood of runway incursions.

Automation and Artificial Intelligence (AI) Integration

The integration of automation and artificial intelligence (AI) technologies is a transformative trend in the global A-SMGCS market, aimed at optimizing ground operations and enhancing efficiency. Automation features, such as automated conflict detection and resolution, improve the responsiveness of A-SMGCS systems to dynamic situations on the airport surface. AI algorithms contribute to advanced decision-support capabilities, allowing A-SMGCS to analyze complex data sets, predict potential conflicts, and recommend optimal routing for aircraft and vehicles. The trend towards automation and AI integration aligns with the broader aviation industry's pursuit of NextGen technologies, which seek to leverage advanced automation to improve overall system performance and operational efficiency.

Expansion of A-SMGCS Beyond Surface Movement

A notable trend in the global A-SMGCS market is the expansion of its scope beyond traditional surface movement guidance. While A-SMGCS initially focused on managing the movement of aircraft and vehicles on taxiways and runways, there is a growing trend towards extending its capabilities to include other areas of the airport, such as apron management and gate operations. This trend reflects the industry's recognition of the interconnected nature of ground operations and the need for a holistic approach to managing airport surfaces. By integrating A-SMGCS with Advanced Gate Management Systems (A-GMS) and other apron management solutions, airports can achieve seamless coordination and optimization of all ground movements, contributing to improved efficiency and reduced congestion.

Collaboration and Standardization Initiatives

Collaboration and standardization initiatives are emerging as critical trends in the global A-SMGCS market, driven by the need for harmonized solutions that can be adopted universally. As A-SMGCS technology evolves, there is a growing recognition of the importance of establishing common standards, protocols, and interfaces to facilitate interoperability between systems from different vendors and ensure seamless

integration into the broader aviation ecosystem. Collaborative efforts involving aviation authorities, regulatory bodies, technology providers, and industry stakeholders aim to develop and promote standards for A-SMGCS implementation. Standardization initiatives contribute to a more consistent and interoperable global aviation infrastructure, fostering the widespread adoption of A-SMGCS and supporting the industry's overarching goals of enhancing safety and operational efficiency.

Segmental Insights

Application Analysis

The Global Advanced Surface Movement Guidance and Control System (A-SMGCS) market is experiencing a significant surge in demand due to the growing need for efficient and safe airport operations worldwide. A-SMGCS provides crucial support in managing surface movement at airports, enhancing safety, reducing congestion, and improving overall efficiency. This market analysis focuses on the application analysis of A-SMGCS, segmented into Surveillance, Planning Routing, Monitoring Alerting, and Guidance.

Surveillance constitutes a fundamental aspect of A-SMGCS, involving the continuous monitoring of aircraft, vehicles, and personnel movements on the airport surface. Advanced surveillance technologies, such as radar and multilateration systems, enable real-time tracking and identification of objects, enhancing situational awareness for controllers. This segment of the market is witnessing steady growth as airports prioritize investments in surveillance capabilities to mitigate the risk of runway incursions and improve overall safety.

Planning Routing applications in A-SMGCS involve the optimization of surface movement to minimize delays, enhance efficiency, and maximize capacity utilization. Advanced algorithms analyze data from surveillance sensors to generate optimized taxi routes and departure sequences, considering factors such as aircraft type, destination, and traffic volume. As airports strive to cope with increasing air traffic demand, the adoption of planning routing solutions is gaining traction to streamline operations and reduce congestion on taxiways and ramps.

Monitoring Alerting functionalities play a crucial role in A-SMGCS by providing controllers with real-time alerts and warnings regarding potential conflicts or safety hazards on the airport surface. Automated systems analyze surveillance data and detect deviations from predefined movement patterns, triggering alerts to controllers

and pilots to take corrective actions promptly. This segment of the market is witnessing rapid advancements in artificial intelligence and machine learning, enabling more accurate and proactive threat detection capabilities.

Guidance systems form the backbone of A-SMGCS, offering precise positioning and navigation assistance to pilots and vehicle operators during taxiing and maneuvering on the airport surface. Ground-based lighting, signage, and markings, augmented by electronic guidance displays and cockpit indicators, enable safe and efficient movement in all weather conditions and visibility levels. With the increasing emphasis on reducing runway incursions and improving operational efficiency, the demand for advanced guidance systems is expected to surge in the coming years.

Regional Insights

North America is a leading market for A-SMGCS systems, characterized by its large aviation infrastructure, high air traffic volumes, and stringent safety regulations. The region comprises major aviation hubs such as the United States and Canada, which continually invest in advanced technologies to enhance airport operations. Key players in the A-SMGCS market, including multinational corporations and domestic suppliers, cater to the diverse needs of airports across North America. The market is driven by factors such as the modernization of aging airport infrastructure, growing air travel demand, and the need to improve runway safety and capacity.

South America's A-SMGCS market is experiencing steady growth driven by increasing air traffic and infrastructure development initiatives across the region. Countries like Brazil, Argentina, and Chile are witnessing significant investments in airport expansion projects and modernization efforts, creating opportunities for A-SMGCS suppliers. Improving aviation safety standards and enhancing operational efficiency are key priorities for South American airports, spurring the adoption of advanced surface movement guidance and control systems. However, economic challenges and regulatory complexities in some South American countries may pose hurdles to market growth.

The Middle East Africa region represents a dynamic market for A-SMGCS solutions, fueled by rapid urbanization, economic growth, and expansion of the aviation sector. Major aviation hubs such as Dubai, Abu Dhabi, Doha, and Johannesburg are leading the adoption of advanced technologies to manage growing air traffic volumes efficiently. The region's strategic location as a global transit hub further drives investments in airport infrastructure and air traffic management systems. A-SMGCS providers in the

Middle East Africa cater to diverse requirements, including those related to airport expansion, airspace management, and safety enhancement.

Asia Pacific is a burgeoning market for A-SMGCS systems, propelled by the region's robust economic growth, burgeoning air travel demand, and increasing investments in airport infrastructure. Countries like China, India, Japan, and Australia are witnessing significant developments in aviation infrastructure, leading to a surge in demand for advanced surface movement guidance and control solutions. Rapid urbanization and expansion of low-cost carriers further contribute to the growth of the A-SMGCS market in Asia Pacific. Moreover, initiatives to enhance aviation safety and mitigate runway incursions drive the adoption of A-SMGCS technologies across the region.

Europe CIS represent a mature market for A-SMGCS systems, characterized by established aviation infrastructure, stringent safety regulations, and technological innovation. European countries, along with Russia and other CIS nations, prioritize the modernization of airport facilities and air traffic management systems to accommodate increasing air traffic volumes and improve operational efficiency. The region boasts a strong presence of A-SMGCS manufacturers, research institutions, and regulatory bodies, fostering innovation and collaboration in the development of advanced surface movement guidance and control solutions.

Key Market Players

ADB SAFEGATE

ALTYS Technologies SAS

Atg airports Ltd.

Frequentis AG

Honeywell International Inc.

Indra Sistemas SA

Leonardo Spa

Saab AB

Terma Group

Thales Group

Report Scope:

In this report, the Global Advanced Surface Movement Guidance And Control System Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Advanced Surface Movement Guidance And Control System Market, By Application:

- oSurveillance

- oPlanning Routing

- oMonitoring Alerting

- oGuidance

Advanced Surface Movement Guidance And Control System Market, By Offering:

- oHardware

- oSoftware

Advanced Surface Movement Guidance And Control System Market, By End-Use:

- oCommercial

- oDefense

Advanced Surface Movement Guidance And Control System Market, By Region:

- oAsia-Pacific

 - China

 - India

Japan

Indonesia

Thailand

South Korea

Australia

oEurope CIS

Germany

Spain

France

Russia

Italy

United Kingdom

Belgium

oNorth America

United States

Canada

Mexico

oSouth America

Brazil

Argentina

Colombia

oMiddle East Africa

South Africa

Turkey

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Advanced Surface Movement Guidance And Control System Market.

Available Customizations:

Global Advanced Surface Movement Guidance And Control System 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.INTRODUCTION

- 1.1.
- 1.2.Key Highlights of the Report
- 1.3.Market Coverage
- 1.4.Market Segments Covered
- 1.5.Research Tenure Considered

2.RESEARCH METHODOLOGY

- 2.1.Methodology Landscape
- 2.2.Objective of the Study
- 2.3.Baseline Methodology
- 2.4.Formulation of the Scope
- 2.5.Assumptions and Limitations
- 2.6.Sources of Research
- 2.7.Approach for the Market Study
- 2.8.Methodology Followed for Calculation of Market Size Market Shares
- 2.9.Forecasting Methodology

3.EXECUTIVE SUMMARY

- 3.1.
- 3.2.Market Forecast
- 3.3.Key Regions
- 3.4.Key Segments

4.IMPACT OF COVID-19 ON GLOBAL ADVANCED SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM MARKET

5.GLOBAL ADVANCED SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM MARKET OUTLOOK

- 5.1.Market Size Forecast
 - 5.1.1.By Value
- 5.2.Market Share Forecast
 - 5.2.1.By Application Market Share Analysis (Surveillance, Planning Routing,

Monitoring Alerting, Guidance)

5.2.2.By Offering Market Share Analysis (Hardware, Software)

5.2.3.By End-Use Market Share Analysis (Commercial, Defense)

5.2.4.By RegionalMarket Share Analysis

5.2.4.1.Asia-Pacific Market Share Analysis

5.2.4.2.Europe CIS Market Share Analysis

5.2.4.3.North America Market Share Analysis

5.2.4.4.South America Market Share Analysis

5.2.4.5.Middle East Africa Market Share Analysis

5.2.5.By Company Market Share Analysis (Top 5 Companies, Others - By Value, 2023)

5.3.Global Advanced Surface Movement Guidance and Control System MarketMapping Opportunity Assessment

5.3.1.By Application Market Mapping Opportunity Assessment

5.3.2.By Offering Market Mapping Opportunity Assessment

5.3.3.By End-Use Market Mapping Opportunity Assessment

5.3.4.By Regional Market Mapping Opportunity Assessment

6.ASIA-PACIFIC ADVANCED SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM MARKET OUTLOOK

6.1.Market Size Forecast

6.1.1.By Value

6.2.Market Share Forecast

6.2.1.By Application Market Share Analysis

6.2.2.By Offering Market Share Analysis

6.2.3.By End-Use Market Share Analysis

6.2.4.By Country Market Share Analysis

6.2.4.1.China Market Share Analysis

6.2.4.2.India Market Share Analysis

6.2.4.3.Japan Market Share Analysis

6.2.4.4.Indonesia Market Share Analysis

6.2.4.5.Thailand Market Share Analysis

6.2.4.6.South Korea Market Share Analysis

6.2.4.7.Australia Market Share Analysis

6.2.4.8.Rest of Asia-Pacific Market Share Analysis

6.3.Asia-Pacific: Country Analysis

6.3.1.China Advanced Surface Movement Guidance And Control System 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 Application Market Share Analysis

6.3.1.2.2. By Offering Market Share Analysis

6.3.1.2.3. By End-Use Market Share Analysis

6.3.2. India Advanced Surface Movement Guidance And Control System 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 Application Market Share Analysis

6.3.2.2.2. By Offering Market Share Analysis

6.3.2.2.3. By End-Use Market Share Analysis

6.3.3. Japan Advanced Surface Movement Guidance And Control System 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 Application Market Share Analysis

6.3.3.2.2. By Offering Market Share Analysis

6.3.3.2.3. By End-Use Market Share Analysis

6.3.4. Indonesia Advanced Surface Movement Guidance And Control System Market Outlook

6.3.4.1. Market Size Forecast

6.3.4.1.1. By Value

6.3.4.2. Market Share Forecast

6.3.4.2.1. By Application Market Share Analysis

6.3.4.2.2. By Offering Market Share Analysis

6.3.4.2.3. By End-Use Market Share Analysis

6.3.5. Thailand Advanced Surface Movement Guidance and Control System Market Outlook

6.3.5.1. Market Size Forecast

6.3.5.1.1. By Value

6.3.5.2. Market Share Forecast

6.3.5.2.1. By Application Market Share Analysis

6.3.5.2.2. By Offering Market Share Analysis

6.3.5.2.3. By End-Use Market Share Analysis

6.3.6. South Korea Advanced Surface Movement Guidance and Control System Market

Outlook

6.3.6.1. Market Size Forecast

6.3.6.1.1. By Value

6.3.6.2. Market Share Forecast

6.3.6.2.1. By Application Market Share Analysis

6.3.6.2.2. By Offering Market Share Analysis

6.3.6.2.3. By End-Use Market Share Analysis

6.3.7. Australia Advanced Surface Movement Guidance and Control System Market

Outlook

6.3.7.1. Market Size Forecast

6.3.7.1.1. By Value

6.3.7.2. Market Share Forecast

6.3.7.2.1. By Application Market Share Analysis

6.3.7.2.2. By Offering Market Share Analysis

6.3.7.2.3. By End-Use Market Share Analysis

7. EUROPE CIS ADVANCED SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM MARKET OUTLOOK

7.1. Market Size Forecast

7.1.1. By Value

7.2. Market Share Forecast

7.2.1. By Application Market Share Analysis

7.2.2. By Offering Market Share Analysis

7.2.3. By End-Use Market Share Analysis

7.2.4. By Country Market Share Analysis

7.2.4.1. Germany Market Share Analysis

7.2.4.2. Spain Market Share Analysis

7.2.4.3. France Market Share Analysis

7.2.4.4. Russia Market Share Analysis

7.2.4.5. Italy Market Share Analysis

7.2.4.6. United Kingdom Market Share Analysis

7.2.4.7. Belgium Market Share Analysis

7.2.4.8. Rest of Europe CIS Market Share Analysis

7.3. Europe CIS: Country Analysis

7.3.1. Germany Advanced Surface Movement Guidance and Control System 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 Application Market Share Analysis

7.3.1.2.2.By Offering Market Share Analysis

7.3.1.2.3.By End-Use Market Share Analysis

7.3.2.Spain Advanced Surface Movement Guidance and Control System 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 Application Market Share Analysis

7.3.2.2.2.By Offering Market Share Analysis

7.3.2.2.3.By End-Use Market Share Analysis

7.3.3.France Advanced Surface Movement Guidance and Control System 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 Application Market Share Analysis

7.3.3.2.2.By Offering Market Share Analysis

7.3.3.2.3.By End-Use Market Share Analysis

7.3.4.Russia Advanced Surface Movement Guidance and Control System 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 Application Market Share Analysis

7.3.4.2.2.By Offering Market Share Analysis

7.3.4.2.3.By End-Use Market Share Analysis

7.3.5.Italy Advanced Surface Movement Guidance and Control System 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 Application Market Share Analysis

7.3.5.2.2.By Offering Market Share Analysis

7.3.5.2.3.By End-Use Market Share Analysis

7.3.6.United Kingdom Advanced Surface Movement Guidance and Control System Market Outlook

7.3.6.1.Market Size Forecast

7.3.6.1.1.By Value

7.3.6.2. Market Share Forecast

7.3.6.2.1. By Application Market Share Analysis

7.3.6.2.2. By Offering Market Share Analysis

7.3.6.2.3. By End-Use Market Share Analysis

7.3.7. Belgium Advanced Surface Movement Guidance and Control System Market Outlook

7.3.7.1. Market Size Forecast

7.3.7.1.1. By Value

7.3.7.2. Market Share Forecast

7.3.7.2.1. By Application Market Share Analysis

7.3.7.2.2. By Offering Market Share Analysis

7.3.7.2.3. By End-Use Market Share Analysis

8. NORTH AMERICA ADVANCED SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM MARKET OUTLOOK

8.1. Market Size Forecast

8.1.1. By Value

8.2. Market Share Forecast

8.2.1. By Application Market Share Analysis

8.2.2. By Offering Market Share Analysis

8.2.3. By End-Use Market Share Analysis

8.2.4. By Country Market Share Analysis

8.2.4.1. United States Market Share Analysis

8.2.4.2. Mexico Market Share Analysis

8.2.4.3. Canada Market Share Analysis

8.3. North America: Country Analysis

8.3.1. United States Advanced Surface Movement Guidance and Control System 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 Application Market Share Analysis

8.3.1.2.2. By Offering Market Share Analysis

8.3.1.2.3. By End-Use Market Share Analysis

8.3.2. Mexico Advanced Surface Movement Guidance and Control System 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 Application Market Share Analysis

8.3.2.2.2. By Offering Market Share Analysis

8.3.2.2.3. By End-Use Market Share Analysis

8.3.3. Canada Advanced Surface Movement Guidance and Control System 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 Application Market Share Analysis

8.3.3.2.2. By Offering Market Share Analysis

8.3.3.2.3. By End-Use Market Share Analysis

9. SOUTH AMERICA ADVANCED SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM MARKET OUTLOOK

9.1. Market Size Forecast

9.1.1. By Value

9.2. Market Share Forecast

9.2.1. By Application Market Share Analysis

9.2.2. By Offering Market Share Analysis

9.2.3. By End-Use Market Share Analysis

9.2.4. By Country Market Share Analysis

9.2.4.1. Brazil Market Share Analysis

9.2.4.2. Argentina Market Share Analysis

9.2.4.3. Colombia Market Share Analysis

9.2.4.4. Rest of South America Market Share Analysis

9.3. South America: Country Analysis

9.3.1. Brazil Advanced Surface Movement Guidance and Control System 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 Application Market Share Analysis

9.3.1.2.2. By Offering Market Share Analysis

9.3.1.2.3. By End-Use Market Share Analysis

9.3.2. Colombia Advanced Surface Movement Guidance and Control System 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 Application Market Share Analysis
 - 9.3.2.2.2.By Offering Market Share Analysis
 - 9.3.2.2.3.By End-Use Market Share Analysis
- 9.3.3.Argentina Advanced Surface Movement Guidance and Control System 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 Application Market Share Analysis
 - 9.3.3.2.2.By Offering Market Share Analysis
 - 9.3.3.2.3.By End-Use Market Share Analysis

10.MIDDLE EAST AFRICA ADVANCED SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM MARKET OUTLOOK

- 10.1.Market Size Forecast
 - 10.1.1.By Value
- 10.2.Market Share Forecast
 - 10.2.1.By Application Market Share Analysis
 - 10.2.2.By Offering Market Share Analysis
 - 10.2.3.By End-Use Market Share Analysis
 - 10.2.4.By Country Market Share Analysis
 - 10.2.4.1.South Africa Market Share Analysis
 - 10.2.4.2.Turkey Market Share Analysis
 - 10.2.4.3.Saudi Arabia Market Share Analysis
 - 10.2.4.4.UAE Market Share Analysis
 - 10.2.4.5.Rest of Middle East Africa Market ShareAnalysis
- 10.3.Middle East Africa: Country Analysis
 - 10.3.1.South Africa Advanced Surface Movement Guidance and Control System 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 Application Market Share Analysis
 - 10.3.1.2.2.By Offering Market Share Analysis
 - 10.3.1.2.3.By End-Use Market Share Analysis
 - 10.3.2.Turkey Advanced Surface Movement Guidance and Control System 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 Application Market Share Analysis

10.3.2.2.2. By Offering Market Share Analysis

10.3.2.2.3. By End-Use Market Share Analysis

10.3.3. Saudi Arabia Advanced Surface Movement Guidance and Control System

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 Application Market Share Analysis

10.3.3.2.2. By Offering Market Share Analysis

10.3.3.2.3. By End-Use Market Share Analysis

10.3.4. UAE Advanced Surface Movement Guidance and Control System Market

Outlook

10.3.4.1. Market Size Forecast

10.3.4.1.1. By Value

10.3.4.2. Market Share Forecast

10.3.4.2.1. By Application Market Share Analysis

10.3.4.2.2. By Offering Market Share Analysis

10.3.4.2.3. By End-Use Market Share Analysis

11. SWOT ANALYSIS

11.1. Strength

11.2. Weakness

11.3. Opportunities

11.4. Threats

12. MARKET DYNAMICS

12.1. Market Drivers

12.2. Market Challenges

13. MARKET TRENDS AND DEVELOPMENTS

14. COMPETITIVE LANDSCAPE

14.1. Company Profiles (Up to 10 Major Companies)

14.1.1. Adb Safegate

14.1.1.1. Company Details

14.1.1.2. Key Product Offered

14.1.1.3. Financials (As Per Availability)

14.1.1.4. Recent Developments

14.1.1.5. Key Management Personnel

14.1.2. ALTYS Technologies SAS

14.1.2.1. Company Details

14.1.2.2. Key Product Offered

14.1.2.3. Financials (As Per Availability)

14.1.2.4. Recent Developments

14.1.2.5. Key Management Personnel

14.1.3. Atg airports Ltd.

14.1.3.1. Company Details

14.1.3.2. Key Product Offered

14.1.3.3. Financials (As Per Availability)

14.1.3.4. Recent Developments

14.1.3.5. Key Management Personnel

14.1.4. Frequentis AG

14.1.4.1. Company Details

14.1.4.2. Key Product Offered

14.1.4.3. Financials (As Per Availability)

14.1.4.4. Recent Developments

14.1.4.5. Key Management Personnel

14.1.5. Honeywell International Inc.

14.1.5.1. Company Details

14.1.5.2. Key Product Offered

14.1.5.3. Financials (As Per Availability)

14.1.5.4. Recent Developments

14.1.5.5. Key Management Personnel

14.1.6. Indra Sistemas SA

14.1.6.1. Company Details

14.1.6.2. Key Product Offered

14.1.6.3. Financials (As Per Availability)

14.1.6.4. Recent Developments

14.1.6.5. Key Management Personnel

14.1.7. Leonardo Spa

- 14.1.7.1.Company Details
- 14.1.7.2.Key Product Offered
- 14.1.7.3.Financials (As Per Availability)
- 14.1.7.4.Recent Developments
- 14.1.7.5.Key Management Personnel
- 14.1.8.Terma Group.
 - 14.1.8.1.Company Details
 - 14.1.8.2.Key Product Offered
 - 14.1.8.3.Financials (As Per Availability)
 - 14.1.8.4.Recent Developments
 - 14.1.8.5.Key Management Personnel
- 14.1.9.SAAB AB
 - 14.1.9.1.Company Details
 - 14.1.9.2.Key Product Offered
 - 14.1.9.3.Financials (As Per Availability)
 - 14.1.9.4.Recent Developments
 - 14.1.9.5.Key Management Personnel
- 14.1.10.Thales Group
 - 14.1.10.1.Company Details
 - 14.1.10.2.Key Product Offered
 - 14.1.10.3.Financials (As Per Availability)
 - 14.1.10.4.Recent Developments
 - 14.1.10.5.Key Management Personnel

15.STRATEGIC RECOMMENDATIONS

- 15.1.Key Focus Areas
 - 15.1.1.Target Regions
 - 15.1.2.Target Offering
 - 15.1.3.Target Application

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