

# **Automatic Identification System Market Report by Class (Class A, Class B, AIS Base Stations), Component (Transmitter, Receivers, Central Processing Unit, Display, and Others), Platform (Vessel-Based, Onshore-Based), Application (Fleet Management, Vessels Tracking, Maritime Security, and Others), and Region 2024-2032**

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## **Abstracts**

The global automatic identification system market size reached US\$ 287.6 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 433.8 Million by 2032, exhibiting a growth rate (CAGR) of 4.58% during 2024-2032. The regulatory requirements to enhance maritime safety and security imperatives, development of more sophisticated AIS solutions, expanding global trade activities necessitating efficient vessel management and traffic control, technological evolution, environmental considerations, and advancements in connectivity are some of the major factors propelling the market.

The automatic identification system (AIS) is a maritime tracking system that facilitates real-time communication and identification of vessels. Originally developed as a safety measure to prevent collisions and enhance navigation, AIS has evolved into a comprehensive tool for maritime domain awareness and management. It operates by transmitting and receiving information such as vessel identity, position, course, speed, and other relevant data via VHF radio frequencies. AIS provides valuable insights to maritime authorities, ship operators, and other stakeholders. By enabling the exchange of critical information between vessels and coastal stations, AIS enhances situational awareness, aids in collision avoidance, and contributes to effective traffic management in busy waterways. Additionally, AIS data can be used for various applications, including

search and rescue operations, environmental monitoring, and maritime security efforts.

The International Maritime Organization (IMO) mandates the use of AIS on vessels above a certain tonnage to enhance maritime safety and security. These regulations propel the adoption of AIS systems as ship operators strive to comply with international standards. Additionally, AIS significantly improves collision avoidance by providing real-time vessel data, enabling more effective navigation and maneuvering in congested waters. This safety-enhancing feature drives demand among ship operators seeking to minimize the risk of accidents. Other than this, the expansion of global trade activities necessitates efficient vessel management and traffic control. AIS systems assist in optimizing shipping routes and ensuring smooth operations, thereby catering to the needs of a thriving maritime trade landscape. Besides this, AIS contributes to maritime domain awareness and security by aiding in tracking vessel movements and identifying potentially suspicious activities. In an era of heightened security concerns, governments and maritime agencies are increasingly adopting AIS to bolster their surveillance capabilities. In line with this, ongoing technological advancements have led to the development of more sophisticated AIS solutions that offer improved data accuracy, range, and integration capabilities. These innovations attract both new entrants and existing players in the market. Furthermore, the availability of real-time AIS data empowers maritime authorities, port operators, and logistics companies to make informed decisions regarding vessel scheduling, resource allocation, and risk management.

#### Automatic Identification System Market Trends/Drivers: Mandatory Regulatory Requirements

The International Maritime Organization (IMO) plays a pivotal role in promoting maritime safety through its regulations, including the mandatory use of AIS on vessels of certain tonnages. This mandate stems from the recognition of AIS as a vital tool for preventing collisions and enhancing navigational awareness. Vessel operators are compelled to install and operate AIS systems to comply with international standards and ensure the safety of their ships, crew, and cargo. The enforcement of these regulations fosters a consistent global adoption of AIS technology, driving demand for AIS equipment and solutions.

#### Collision Avoidance and Navigation Enhancement

AIS significantly augments maritime safety by providing real-time information about

vessel positions, courses, and speeds. This data enables effective collision avoidance strategies, especially in congested or high-traffic areas. Vessel operators leverage AIS data to make informed decisions about course adjustments and maneuvering, thereby reducing the risk of accidents and enhancing overall navigation efficiency. As maritime trade continues to grow and shipping routes become increasingly crowded, the need for reliable collision avoidance mechanisms propels the demand for AIS systems that offer real-time situational awareness.

## Growing Maritime Trade

The expansion of global trade drives the demand for efficient and reliable vessel management solutions. AIS systems enable better traffic control and route optimization, ensuring timely and secure transportation of goods. In an interconnected world where maritime transport remains a backbone of international trade, the ability to monitor and manage vessels effectively becomes crucial. AIS data empowers ship operators to align their routes with prevailing trade patterns, respond to changes in demand, and minimize delays. As a result, the growth of maritime trade acts as a significant driver for the widespread adoption of AIS technology across various shipping segments.

## Automatic Identification System Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global automatic identification system market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on class, component, platform, and application.

## Breakup by Class:

Class A

Class B

AIS Base Stations

Class A dominates the market

The report has provided a detailed breakup and analysis of the market based on the class. This includes class A, class B, and AIS base solutions. According to the report, class A represented the largest segment.

Class A AIS devices offer a higher level of performance, accuracy, and reporting frequency compared to other classes. These devices are specifically designed for larger

vessels and those required to adhere to strict maritime regulations, making them essential for ensuring safety and compliance. Moreover, regulatory bodies such as the International Maritime Organization (IMO) mandate the use of Class A AIS on vessels exceeding a certain tonnage. This regulatory push encourages the widespread adoption of Class A devices among commercial ships, cargo vessels, and passenger liners. The emphasis on collision avoidance, navigation safety, and maritime domain awareness further drives the preference for Class A AIS devices. Their robust features, regulatory alignment, and vital role in maritime safety contribute to their dominance as the largest segment within the AIS market by class.

#### Breakup by Component:

Transmitter

Receivers

Central Processing Unit

Display

Others

Transmitter hold the largest share in the market

A detailed breakup and analysis of the market based on the component has also been provided in the report. This includes transmitter, receiver, central processing unit, display, and others. According to the report, transmitter accounted for the largest market share.

Transmitters are at the core of AIS systems, responsible for broadcasting real-time data such as vessel identity, position, course, and speed to nearby vessels and coastal stations. As AIS technology's primary function revolves around enhancing maritime safety and situational awareness, transmitters play a pivotal role in facilitating this exchange of crucial information. Additionally, regulatory bodies like the International Maritime Organization (IMO) mandate the installation of AIS transmitters on vessels above certain tonnages, underscoring their importance in maritime safety and compliance. The emphasis on collision avoidance, navigation efficiency, and maritime domain awareness further fuels the demand for reliable and high-performance transmitters. Given their indispensable role in ensuring vessel visibility and safety, transmitters naturally emerge as the largest segment in the AIS market breakdown by component.

#### Breakup by Platform:

## Vessel-Based Onshore Based

Vessel-based accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the platform. This includes vessel-based and onshore based. According to the report, vessel-based represented the largest segment.

Vessel-based AIS systems are directly integrated into individual ships, providing real-time data transmission, collision avoidance, and navigation enhancement. This integration allows vessels of varying sizes and types to actively participate in the AIS network, contributing to a comprehensive maritime domain awareness. Furthermore, vessel-based AIS aligns with international regulations such as those set by the International Maritime Organization (IMO), which mandate the use of AIS on ships above a certain tonnage. This regulatory impetus ensures a consistent adoption of vessel-based AIS technology among commercial ships, cargo vessels, fishing boats, and passenger liners, bolstering their dominant position in the market.

## Breakup by Application:

- Fleet Management
- Vessels Tracking
- Maritime Security
- Others

Vessels tracking holds the largest share in the market

A detailed breakup and analysis of the market based on the application has also been provided in the report. This includes fleet management, vessels tracking, maritime security, and others. According to the report, vessels tracking accounted for the largest market share.

The vessel tracking application allows maritime authorities, ship operators, and coastal stations to monitor the movements of vessels, ensuring safe navigation and preventing potential accidents in congested waters. Furthermore, vessel tracking aligns with regulatory mandates set by international bodies like the International Maritime Organization (IMO), which emphasize the adoption of AIS to enhance maritime domain

awareness. This regulatory encouragement, coupled with the increasing demand for efficient vessel management and comprehensive maritime security, positions vessel tracking as a pivotal application. As the maritime industry grows and navigational challenges persist, vessel tracking remains a crucial solution, cementing its status as the largest segment in the AIS market by application.

#### Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

North America exhibits a clear dominance in the market

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America



(Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market.

North America holds the distinction of being the largest market for Automatic Identification Systems (AIS) due to a combination of factors that contribute to its robust adoption and growth. The region's extensive maritime activities, including commercial shipping, fishing, and port operations, drive the demand for AIS systems to enhance safety and efficiency. The well-established maritime infrastructure and advanced technological capabilities in North America facilitate the integration of AIS technology into existing operations. Additionally, stringent regulations imposed by organizations like the United States Coast Guard (USCG) mandate the use of AIS to prevent collisions and ensure vessel tracking. The emphasis on maritime safety and security, coupled with a proactive approach to compliance, fuels the widespread adoption of AIS solutions. Furthermore, North America's expansive coastline and busy maritime trade routes make AIS an invaluable tool for managing vessel traffic and optimizing routes. These factors, along with the region's economic significance and commitment to maritime safety, contribute to North America's position as the largest market for AIS systems, highlighting its pivotal role in shaping the global AIS landscape.

#### Competitive Landscape:

Leading AIS manufacturers have invested in research and development to create cutting-edge AIS solutions with improved accuracy, range, and integration capabilities. These advancements enable better vessel tracking, collision avoidance, and data exchange. Additionally, key players have formed partnerships with maritime authorities, shipping companies, and technology providers to promote the widespread adoption of AIS technology. Collaborations facilitate the development of integrated solutions that cater to the diverse needs of the maritime industry. Other than this, market leaders actively engage with regulatory bodies such as the International Maritime Organization (IMO) to advocate for stricter AIS regulations and their effective implementation. These efforts ensure a consistent demand for AIS systems as vessels seek to meet compliance requirements. Besides this, key players invest in educational initiatives to raise awareness about the benefits of AIS and provide training to maritime professionals on its effective usage. This empowers users to fully leverage AIS technology for safety and operational efficiency. In line with this, recognizing the varied requirements of different vessel types, key players offer customizable AIS solutions that cater to specific operational needs. Scalable solutions accommodate vessels of all sizes, ensuring widespread adoption.

The market research report has provided a comprehensive analysis of the competitive

landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

CNS Systems AB  
ComNav Marine Ltd.  
Furuno Electric Co. Ltd.  
Garmin Ltd.  
Japan Radio Co. Ltd. (Nisshinbo Holdings Inc.)  
Kongsberg Gruppen ASA  
Orbcomm  
Raymarine Uk Limited (Teledyne FLIR LLC)  
Saab AB  
Spire Global Inc.  
W?rtsil? Oyj Abp.

#### Recent Developments:

Raymarine UK Limited has developed an Automatic Identification System (AIS) called AIS500 for marine use. The AIS500 is a Class B CS (Carrier Sense) AIS that allows for the wireless exchange of navigation status between vessels and shore-side traffic monitoring. It provides valuable information for vessel identification, collision avoidance, and safe navigation on the water.

In 2022, Saab AB received an order for the production of the Advanced Identification System Market. This indicates that Saab AB is actively involved in the development and manufacturing of AIS technology.

#### Key Questions Answered in This Report

1. What was the size of the global automatic identification system market in 2023?
2. What is the expected growth rate of the global automatic identification system market during 2024-2032?
3. What are the key factors driving the global automatic identification system market?
4. What has been the impact of COVID-19 on the global automatic identification system market?
5. What is the breakup of the global automatic identification system market based on the class?
6. What is the breakup of the global automatic identification system market based on the component?
7. What is the breakup of the global automatic identification system market based on platform?



8. What is the breakup of the global automatic identification system market based on the application?
9. What are the key regions in the global automatic identification system market?
10. Who are the key players/companies in the global automatic identification system market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL AUTOMATIC IDENTIFICATION SYSTEM MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY CLASS**

- 6.1 Class A
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Class B
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 AIS Base Stations

6.3.1 Market Trends

6.3.2 Market Forecast

## **7 MARKET BREAKUP BY COMPONENT**

7.1 Transmitter

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Receivers

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Central Processing Unit

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 Display

7.4.1 Market Trends

7.4.2 Market Forecast

7.5 Others

7.5.1 Market Trends

7.5.2 Market Forecast

## **8 MARKET BREAKUP BY PLATFORM**

8.1 Vessel-Based

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Onshore Based

8.2.1 Market Trends

8.2.2 Market Forecast

## **9 MARKET BREAKUP BY APPLICATION**

9.1 Fleet Management

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Vessels Tracking

9.2.1 Market Trends

9.2.2 Market Forecast

9.3 Maritime Security

- 9.3.1 Market Trends
- 9.3.2 Market Forecast
- 9.4 Others
  - 9.4.1 Market Trends
  - 9.4.2 Market Forecast

## **10 MARKET BREAKUP BY REGION**

- 10.1 North America
  - 10.1.1 United States
    - 10.1.1.1 Market Trends
    - 10.1.1.2 Market Forecast
  - 10.1.2 Canada
    - 10.1.2.1 Market Trends
    - 10.1.2.2 Market Forecast
- 10.2 Asia-Pacific
  - 10.2.1 China
    - 10.2.1.1 Market Trends
    - 10.2.1.2 Market Forecast
  - 10.2.2 Japan
    - 10.2.2.1 Market Trends
    - 10.2.2.2 Market Forecast
  - 10.2.3 India
    - 10.2.3.1 Market Trends
    - 10.2.3.2 Market Forecast
  - 10.2.4 South Korea
    - 10.2.4.1 Market Trends
    - 10.2.4.2 Market Forecast
  - 10.2.5 Australia
    - 10.2.5.1 Market Trends
    - 10.2.5.2 Market Forecast
  - 10.2.6 Indonesia
    - 10.2.6.1 Market Trends
    - 10.2.6.2 Market Forecast
  - 10.2.7 Others
    - 10.2.7.1 Market Trends
    - 10.2.7.2 Market Forecast
- 10.3 Europe
  - 10.3.1 Germany

- 10.3.1.1 Market Trends
- 10.3.1.2 Market Forecast
- 10.3.2 France
  - 10.3.2.1 Market Trends
  - 10.3.2.2 Market Forecast
- 10.3.3 United Kingdom
  - 10.3.3.1 Market Trends
  - 10.3.3.2 Market Forecast
- 10.3.4 Italy
  - 10.3.4.1 Market Trends
  - 10.3.4.2 Market Forecast
- 10.3.5 Spain
  - 10.3.5.1 Market Trends
  - 10.3.5.2 Market Forecast
- 10.3.6 Russia
  - 10.3.6.1 Market Trends
  - 10.3.6.2 Market Forecast
- 10.3.7 Others
  - 10.3.7.1 Market Trends
  - 10.3.7.2 Market Forecast
- 10.4 Latin America
  - 10.4.1 Brazil
    - 10.4.1.1 Market Trends
    - 10.4.1.2 Market Forecast
  - 10.4.2 Mexico
    - 10.4.2.1 Market Trends
    - 10.4.2.2 Market Forecast
  - 10.4.3 Others
    - 10.4.3.1 Market Trends
    - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
  - 10.5.1 Market Trends
  - 10.5.2 Market Breakup by Country
  - 10.5.3 Market Forecast

## **11 SWOT ANALYSIS**

- 11.1 Overview
- 11.2 Strengths

11.3 Weaknesses

11.4 Opportunities

11.5 Threats

## **12 VALUE CHAIN ANALYSIS**

## **13 PORTERS FIVE FORCES ANALYSIS**

13.1 Overview

13.2 Bargaining Power of Buyers

13.3 Bargaining Power of Suppliers

13.4 Degree of Competition

13.5 Threat of New Entrants

13.6 Threat of Substitutes

## **14 PRICE ANALYSIS**

## **15 COMPETITIVE LANDSCAPE**

15.1 Market Structure

15.2 Key Players

15.3 Profiles of Key Players

15.3.1 CNS Systems AB

15.3.1.1 Company Overview

15.3.1.2 Product Portfolio

15.3.2 ComNav Marine Ltd.

15.3.2.1 Company Overview

15.3.2.2 Product Portfolio

15.3.3 Furuno Electric Co. Ltd.

15.3.3.1 Company Overview

15.3.3.2 Product Portfolio

15.3.3.3 Financials

15.3.4 Garmin Ltd.

15.3.4.1 Company Overview

15.3.4.2 Product Portfolio

15.3.4.3 Financials

15.3.4.4 SWOT Analysis

15.3.5 Japan Radio Co. Ltd. (Nisshinbo Holdings Inc.)

15.3.5.1 Company Overview

- 15.3.5.2 Product Portfolio
- 15.3.6 Kongsberg Gruppen ASA
  - 15.3.6.1 Company Overview
  - 15.3.6.2 Product Portfolio
  - 15.3.6.3 Financials
- 15.3.7 Orbcomm
  - 15.3.7.1 Company Overview
  - 15.3.7.2 Product Portfolio
  - 15.3.7.3 SWOT Analysis
- 15.3.8 Raymarine Uk Limited (Teledyne FLIR LLC)
  - 15.3.8.1 Company Overview
  - 15.3.8.2 Product Portfolio
- 15.3.9 Saab AB
  - 15.3.9.1 Company Overview
  - 15.3.9.2 Product Portfolio
  - 15.3.9.3 Financials
  - 15.3.9.4 SWOT Analysis
- 15.3.10 Spire Global Inc.
  - 15.3.10.1 Company Overview
  - 15.3.10.2 Product Portfolio
  - 15.3.10.3 Financials
- 15.3.11 W?rtsil? Oyj Abp
  - 15.3.11.1 Company Overview
  - 15.3.11.2 Product Portfolio
  - 15.3.11.3 Financials
  - 15.3.11.4 SWOT Analysis



## List Of Tables

### LIST OF TABLES

Table 1: Global: Automatic Identification System Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Automatic Identification System Market Forecast: Breakup by Class (in Million US\$), 2024-2032

Table 3: Global: Automatic Identification System Market Forecast: Breakup by Component (in Million US\$), 2024-2032

Table 4: Global: Automatic Identification System Market Forecast: Breakup by Platform (in Million US\$), 2024-2032

Table 5: Global: Automatic Identification System Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 6: Global: Automatic Identification System Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 7: Global: Automatic Identification System Market: Competitive Structure

Table 8: Global: Automatic Identification System Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Automatic Identification System Market: Major Drivers and Challenges

Figure 2: Global: Automatic Identification System Market: Sales Value (in Million US\$), 2018-2023

Figure 3: Global: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 4: Global: Automatic Identification System Market: Breakup by Class (in %), 2023

Figure 5: Global: Automatic Identification System Market: Breakup by Component (in %), 2023

Figure 6: Global: Automatic Identification System Market: Breakup by Platform (in %), 2023

Figure 7: Global: Automatic Identification System Market: Breakup by Application (in %), 2023

Figure 8: Global: Automatic Identification System Market: Breakup by Region (in %), 2023

Figure 9: Global: Automatic Identification System (Class A) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Automatic Identification System (Class A) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Automatic Identification System (Class B) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Automatic Identification System (Class B) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Automatic Identification System (AIS Base Stations) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Automatic Identification System (AIS Base Stations) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: Automatic Identification System (Transmitter) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: Automatic Identification System (Transmitter) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: Automatic Identification System (Receivers) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: Global: Automatic Identification System (Receivers) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: Global: Automatic Identification System (Central Processing Unit) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: Global: Automatic Identification System (Central Processing Unit) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: Automatic Identification System (Display) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: Automatic Identification System (Display) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Global: Automatic Identification System (Other Components) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: Global: Automatic Identification System (Other Components) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Global: Automatic Identification System (Vessel-Based) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: Automatic Identification System (Vessel-Based) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Global: Automatic Identification System (Onshore Based) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Global: Automatic Identification System (Onshore Based) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: Global: Automatic Identification System (Fleet Management) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: Global: Automatic Identification System (Fleet Management) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Global: Automatic Identification System (Vessels Tracking) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Global: Automatic Identification System (Vessels Tracking) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Global: Automatic Identification System (Maritime Security) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Global: Automatic Identification System (Maritime Security) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: Global: Automatic Identification System (Other Applications) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: Global: Automatic Identification System (Other Applications) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: North America: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: North America: Automatic Identification System Market Forecast: Sales

Value (in Million US\$), 2024-2032

Figure 39: United States: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: United States: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: Canada: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: Canada: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: Asia-Pacific: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: Asia-Pacific: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: China: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: China: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Japan: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Japan: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: India: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: India: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: South Korea: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: South Korea: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Australia: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Australia: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Indonesia: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Indonesia: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Others: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Others: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Europe: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Europe: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Germany: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Germany: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: France: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: France: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: United Kingdom: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: United Kingdom: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Italy: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Italy: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 69: Spain: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: Spain: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 71: Russia: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 72: Russia: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 73: Others: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 74: Others: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 75: Latin America: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 76: Latin America: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 77: Brazil: Automatic Identification System Market: Sales Value (in Million US\$),

2018 & 2023

Figure 78: Brazil: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 79: Mexico: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 80: Mexico: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 81: Others: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 82: Others: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 83: Middle East and Africa: Automatic Identification System Market: Sales Value (in Million US\$), 2018 & 2023

Figure 84: Middle East and Africa: Automatic Identification System Market: Breakup by Country (in %), 2023

Figure 85: Middle East and Africa: Automatic Identification System Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 86: Global: Automatic Identification System Industry: SWOT Analysis

Figure 87: Global: Automatic Identification System Industry: Value Chain Analysis

Figure 88: Global: Automatic Identification System Industry: Porter's Five Forces Analysis

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