

Global Very High Frequency Data Exchange System (VDES) Market Research Report 2026(Status and Outlook)

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Abstracts

The Very High Frequency Data Exchange System (VDES) is a third-generation maritime communications system approved by the World Radiocommunication Conference (WRC-15). Building on the legacy AIS, VDES adds ASM messaging and VDE data communication capabilities. This system not only enables short-range, two-way data exchange between ships and shores via VHF, but also enables long-range, two-way data exchange between ships and shores globally via a low-orbit satellite network. As the global ocean accelerates its digitalization and intelligentization, the Very High Frequency Data Exchange System (VDES), a third-generation maritime communications technology, is rapidly replacing the traditional AIS system and becoming the core infrastructure for building a new architecture for global maritime information connectivity. Building on the existing AIS functionality, VDES introduces ASM messages and VDE data channels. This not only enables near-shore ship-to-ship and ship-to-shore data connectivity, but also leverages low-orbit satellite networks to achieve global coverage in ocean-going scenarios. It offers significant advantages such as high reliability, low latency, and scalability. The VDES market is currently highly concentrated, with the top five companies accounting for over 80% of the market share. Chinese companies such as Aohai Technology and Chiwan Communication Satellite have also rapidly followed suit, achieving breakthroughs in ground-based system development and domestic substitution, respectively. The industry's rapid development is driven by both policy and demand. On the policy front, China's 14th Five-Year Plan has included VDES as a key area of smart transportation and intelligent shipping development, and the development of relevant standards and pilot programs continues to advance. On the demand side, with the advancement of the Belt and Road Initiative and the development of the marine economy, there is an urgent need to upgrade maritime communication systems, particularly in areas such as ocean shipping, offshore

oil and gas, and fisheries supervision. Notably, the VDES industry still faces challenges in technology, funding, standards, and international cooperation. Technical barriers are high, and the system involves multiple interdisciplinary areas such as communications, satellites, shipboard electronics, and network protocols. Furthermore, the uncertainty of the international trade environment poses certain risks to the overall development of the industry chain.

The global Very High Frequency Data Exchange System (VDES) market size was estimated at USD 95.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 18.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Very High Frequency Data Exchange System (VDES) market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Very High Frequency Data Exchange System (VDES) market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Very High Frequency Data Exchange System (VDES) market.

Global Very High Frequency Data Exchange System (VDES) Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-

user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Kongsberg
Saab
CML Microsystems
Aohai Technology
Chiwon Communications Satellite

Market Segmentation (by Type)

Ground Based VDES System
Space Based VDES System

Market Segmentation (by Application)

Government
Personal
Enterprise

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Very High Frequency Data Exchange System (VDES) Market
Overview of the regional outlook of the Very High Frequency Data Exchange System (VDES) Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Very High Frequency Data Exchange System (VDES) Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help

readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Very High Frequency Data Exchange System (VDES), their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region

as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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