

# **Global Waterway Transportation Software and Services Market Size study & Forecast, by Solution (Warehousing, Vessel Tracking, Freight Security, Yard Management, Ship Broker, and Maritime Software) and by Service (Managed, Consulting, Simulation & Training) and Regional Forecasts 2025-2035**

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## **Abstracts**

The Global Waterway Transportation Software and Services Market is valued approximately at USD 0.08 billion in 2024 and is anticipated to grow with a CAGR of more than 9.40% over the forecast period 2025-2035. Waterway transportation software and services are specialized digital platforms and solutions that streamline maritime logistics, vessel operations, and port management. These tools enhance scheduling, improve cargo visibility, safeguard freight, and enable efficient resource planning for shipping operators, port authorities, and logistics providers. As global trade volumes expand and supply chains become increasingly complex, maritime stakeholders are under pressure to modernize operations. The surge in digital adoption across the shipping sector is being propelled by the need for cost efficiency, regulatory compliance, and real-time monitoring of fleets and cargo, making software-driven services indispensable in today's shipping ecosystem.

The demand for maritime digitization has been significantly accelerated by the rise in e-commerce trade and globalized supply chains, which rely heavily on timely and transparent shipping operations. Increasing concerns over cargo theft, delays, and rising fuel costs have pushed logistics providers to adopt freight security systems, predictive analytics, and vessel tracking technologies. According to UNCTAD, over 80% of world merchandise trade by volume is carried by sea, and the sector continues to act as the backbone of international commerce. As climate regulations tighten and

environmental concerns reshape maritime policies, software providers are innovating eco-efficient solutions that optimize routes, reduce emissions, and cut operational costs. While the industry still faces challenges such as high initial costs of digital adoption and resistance in traditional shipping hubs, the long-term trajectory signals a decisive move toward digital-first operations.

**The detailed segments and sub-segments included in the report are:**

**By Solution:**

Warehousing

Vessel Tracking

Freight Security

Yard Management

Ship Broker

Maritime Software

**By Service:**

Managed

Consulting

Simulation & Training

**By Region:**

North America

U.S.

Canada

## Europe

UK

Germany

France

Spain

Italy

ROE

## Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

## Latin America

Brazil

Mexico

## Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Among the solution segments, vessel tracking is expected to dominate the market, holding the largest share during the forecast period. The need for real-time fleet visibility, monitoring cargo movement, and ensuring compliance with international maritime regulations has positioned vessel tracking systems as the cornerstone of modern shipping operations. Ports and shipping companies are increasingly investing in these solutions to reduce downtime, improve route optimization, and strengthen customer satisfaction through enhanced transparency. Although warehousing and freight security solutions are also witnessing steady adoption, vessel tracking stands out as the most widely integrated solution across global shipping networks.

When viewed by service type, managed services are currently the largest revenue contributor in the waterway transportation software and services market. Managed services deliver end-to-end operational support, ensuring seamless system integration, continuous monitoring, and real-time troubleshooting for maritime stakeholders. Companies increasingly rely on managed services to reduce IT complexity, cut down operational overhead, and focus resources on core logistics and shipping functions. Consulting and simulation & training services, however, are emerging as the fastest-growing categories, driven by the pressing need to upskill the maritime workforce and prepare them for advanced, tech-driven shipping operations. Thus, managed services dominate in revenue, while consulting and training lead in growth momentum.

The key regions considered for the Global Waterway Transportation Software and Services Market study include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America dominated the market in 2025, benefiting from its advanced maritime infrastructure, strong emphasis on digital supply chain transformation, and the presence of leading shipping and logistics providers. Europe also maintains a robust position, driven by strict sustainability regulations and widespread adoption of maritime software across its ports and shipping lines. Asia

Pacific, however, is expected to be the fastest-growing region over the forecast period. Rapid trade expansion in China and India, increasing investment in smart ports, and large-scale shipping modernization initiatives are fueling exponential growth. Meanwhile, the Middle East and Africa are gradually adopting maritime digital platforms, primarily supported by infrastructure development in Gulf economies and growing demand for efficient cargo handling in African ports.

**Major market players included in this report are:**

SAP SE

Accenture Plc

Cognizant Technology Solutions Corporation

Descartes Systems Group Inc.

Kuehne + Nagel International AG

Manhattan Associates, Inc.

DNV AS

Veson Nautical, LLC

Bass Software Ltd.

MarineTraffic Ltd.

W?rtsil? Corporation

StormGeo (part of Alfa Laval)

Blue Yonder Group, Inc.

Transporeon Group Americas, Inc.

Infor, Inc.

## **Global Waterway Transportation Software and Services Market Report Scope:**

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

### **Key Takeaways:**

Market Estimates & Forecast for 10 years from 2025 to 2035.

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

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

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

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

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