

Naval Communication Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (Command and Control, Intelligence Surveillance and Reconnaissance (ISR), Routine Operations and Others), By Platform (Ships, Submarines, Unmanned System), By System Technology (Naval Satcom System, Naval Radio Systems, Naval Security Systems and Communication Management Systems), By Region & Competition, 2019-2029F

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Abstracts

The Global Naval Communication Market size reached USD 5.01 billion in 2023 and is expected to grow with a CAGR of 6.46% in the forecast period. The global naval communication market is experiencing robust growth, driven by the increasing need for secure, reliable, and advanced communication systems within naval forces worldwide. Effective communication is critical for naval operations, encompassing everything from routine ship-to-ship interactions to complex command and control systems during critical missions. The advancements in digital communication technologies, such as satellite communication, high-frequency radios, and encrypted messaging systems, have significantly enhanced the operational capabilities of naval forces. These technologies ensure that naval units can maintain continuous, secure, and high-quality communication even in the most challenging maritime environments.

Technological innovation is at the heart of the naval communication market's expansion. The integration of modern communication systems with other naval technologies, such as radar, sonar, and navigation systems, has created a cohesive network that enhances

situational awareness and decision-making processes. The development of next-generation communication technologies, including software-defined radios and cognitive radio systems, offers flexibility and adaptability, enabling naval forces to manage communication channels more efficiently and respond swiftly to emerging threats. Additionally, the push towards network-centric warfare, where information superiority is a decisive factor, further underscores the importance of advanced naval communication systems.

Sustainability and resilience are also crucial aspects of the global naval communication market. Naval forces are increasingly focusing on systems that can withstand cyber threats and electronic warfare, ensuring the integrity and security of communication channels. The shift towards automated and unmanned naval platforms, such as drones and autonomous ships, necessitates the development of robust communication networks capable of supporting remote operations and real-time data exchange. Furthermore, the emphasis on reducing the environmental footprint of naval operations has led to innovations in energy-efficient communication technologies. Overall, the global naval communication market is poised for continued growth, driven by technological advancements, the evolving nature of naval warfare, and the enduring need for secure and efficient communication systems in maritime operations.

Key Market Drivers

Security Concerns

The increasing security threats in maritime domains, such as piracy, terrorism, and geopolitical tensions, drive the need for robust and secure naval communication systems. Ensuring secure communication is paramount for safeguarding naval vessels and their personnel.

Modernization Initiatives

Many naval forces worldwide are undertaking modernization efforts to upgrade their communication systems. This includes the integration of advanced technologies and the replacement of legacy systems to enhance operational capabilities.

Information Warfare

The rising prominence of information warfare has heightened the importance of secure and resilient communication networks. Naval forces must protect their data and communication channels from cyberattacks and electronic warfare, necessitating advanced communication solutions.

Maritime Surveillance

Effective naval communication is essential for maritime surveillance and reconnaissance. Naval vessels rely on communication systems to share real-time data on vessel movements, potential threats, and situational awareness.

Global Connectivity

Naval communication systems increasingly rely on satellite communication to ensure

global connectivity. This allows naval vessels to maintain communication even in remote or offshore regions, contributing to their operational flexibility.

Interoperability

Ensuring interoperability between different naval vessels and allied forces is a critical driver. Standardized communication protocols and systems facilitate cooperation during joint military exercises and coalition operations.

Naval Expansion

As some countries expand their naval capabilities, there is a growing demand for modern communication systems to equip new vessels. This trend is particularly evident in the Asia-Pacific region.

Technology Advancements

Ongoing advancements in communication technology, such as software-defined radios, improved encryption methods, and AI-driven solutions, are driving innovation in naval communication. These technologies enhance the efficiency and effectiveness of communication systems.

These drivers collectively contribute to the continuous evolution and growth of the Global Naval Communication Market, ensuring that naval forces have the communication capabilities necessary to address current and emerging challenges in maritime security and warfare.

Key Market Challenges

Cybersecurity Threats

One of the most pressing challenges is the constant threat of cyberattacks. Naval communication systems are vulnerable to hacking, data breaches, and malware, making cybersecurity a top priority to protect sensitive information and maintain operational security.

Spectrum Congestion

The maritime electromagnetic spectrum is becoming increasingly congested due to the proliferation of communication devices and technologies. This congestion can lead to interference and signal degradation, affecting the reliability of naval communication.

Environmental Factors

Harsh maritime environments, including saltwater corrosion, extreme temperatures, and rough seas, pose challenges to the durability and reliability of communication equipment. Maintaining communication systems in these conditions is costly and complex.

Compatibility Issues

Ensuring interoperability between different naval vessels and allied forces can be challenging due to varying communication protocols and standards. Achieving seamless communication during joint operations and coalition efforts requires extensive

coordination.

Budget Constraints

Many naval forces face budget constraints that limit their ability to invest in advanced communication systems. Balancing the need for modernization with budget limitations can be a significant challenge for naval authorities.

Technological Obsolescence

Rapid advancements in communication technology can lead to the obsolescence of existing systems. Keeping naval communication systems up to date and compatible with emerging technologies requires ongoing investments.

Regulatory Compliance

Compliance with international regulations, such as those related to frequency allocation and electromagnetic interference, is crucial. Naval communication systems must adhere to these regulations while maintaining operational effectiveness.

Human Resource Skills

Operating and maintaining sophisticated naval communication systems requires highly skilled personnel. Recruiting and retaining qualified individuals with the necessary technical expertise can be a challenge for naval forces.

Addressing these challenges requires continuous innovation, investment in research and development, and collaboration between governments, defense contractors, and technology providers. Overcoming these obstacles is essential to ensuring the effectiveness and security of naval communication systems in an increasingly complex and interconnected world.

Key Market Trends

Satellite Communication Dominance

Satellite communication systems are becoming the backbone of naval communication. They offer global coverage, high data rates, and secure connections, making them indispensable for naval vessels operating in remote or offshore areas.

Software-Defined Radios (SDRs)

SDRs are gaining prominence for their adaptability and versatility. They allow naval vessels to switch between different communication frequencies and standards, ensuring interoperability and flexibility in complex naval operations.

Cybersecurity Integration

With the increasing threat of cyberattacks, naval communication systems are integrating advanced cybersecurity measures. These include encryption, intrusion detection systems, and real-time monitoring to protect against data breaches and cyber threats.

Artificial Intelligence (AI)

AI is being applied to enhance naval communication systems. AI-driven solutions can automate routine tasks, improve decision-making, and assist in data analysis,

enabling faster and more efficient communication processes.

Interconnected Communication Ecosystems

Naval forces are moving toward interconnected communication ecosystems that enable seamless data sharing across multiple platforms. This facilitates better coordination, real-time intelligence sharing, and enhanced situational awareness.

Underwater Communication Advancements

Underwater communication technology is evolving to address the unique challenges of submarine operations. Innovations in sonar and acoustic communication systems are improving underwater data exchange and enhancing submarine safety.

Green Communication

Environmental concerns are driving the development of eco-friendly naval communication solutions. Efforts are underway to reduce the carbon footprint of communication equipment and minimize the impact on marine ecosystems.

Adaptive Antenna Technology

Adaptive antenna arrays are being deployed to improve communication in challenging maritime environments. These antennas can adapt to changing signal conditions, mitigating interference and ensuring reliable communication.

These trends collectively reflect the industry's commitment to addressing emerging challenges, improving operational efficiency, and enhancing the security of naval communication systems. The future of naval communication will continue to be shaped by rapid technological advancements and the evolving threat landscape in maritime domains.

Segmental Insights

Application Insights

The global naval communication market, segmented by application, encompasses various critical functions such as Command and Control, Intelligence, Surveillance, and Reconnaissance (ISR), Routine Operations, and other specialized activities. The segment Command and Control is the dominating segment in the market. In the Naval Communication Market, the Command and Control segment emerges as the dominant force, playing a pivotal role in modern naval operations worldwide. This segment encompasses sophisticated systems and technologies that facilitate seamless communication, coordination, and decision-making across naval fleets.

Command and Control systems integrate various elements such as sensors, radars, communication networks, and data processing capabilities. These systems enable naval commanders to gather real-time information, monitor the operational environment, and maintain situational awareness. They also facilitate efficient command chain management, ensuring timely and precise execution of orders and maneuvers. The dominance of the Command and Control segment is driven by its critical function in enhancing operational efficiency, mission effectiveness, and overall

naval capabilities. These systems are essential for orchestrating complex naval missions, including defense, surveillance, reconnaissance, and humanitarian operations. They also support interoperability among allied forces during joint military exercises and coalition operations. Moreover, advancements in technology, such as artificial intelligence (AI), machine learning, and secure communications protocols, continue to bolster the capabilities of Command and Control systems. As navies globally modernize their fleets and emphasize network-centric warfare strategies, investments in advanced Command and Control solutions are expected to grow, reinforcing the segment's dominant position in the Naval Communication Market.

Regional Insights

The global naval communication market, segmented by region, reflects diverse priorities and technological advancements tailored to meet the unique operational needs of naval forces across North America, Europe & CIS, Asia Pacific, South America, and the Middle East & Africa. North America is the dominating segment in the market, which includes major naval powers like the United States and Canada, the focus is on leveraging cutting-edge technologies to enhance command and control capabilities, intelligence gathering, and surveillance operations. The region's extensive investment in advanced satellite communication systems, secure data networks, and integrated command centers supports its leadership in naval communications technology. Emphasis is also placed on interoperability among allied forces to ensure seamless communication during joint operations and coalition missions.

Europe & CIS countries prioritize the development of robust naval communication networks to support their maritime defense strategies. The region's naval communication systems emphasize interoperability, resilience against cyber threats, and the integration of advanced ISR capabilities. European navies, supported by collaborative defense initiatives within the European Union and NATO, invest in modernizing communication infrastructures to enhance maritime domain awareness and operational effectiveness. CIS countries contribute to the market with efforts focused on enhancing communication reliability and security across vast maritime territories.

The Asia Pacific region, home to rapidly modernizing naval forces, is characterized by significant investments in naval communication systems to address regional security challenges and protect maritime interests. Countries like China, Japan, India, and Australia are investing in advanced satellite communication, underwater communication technologies, and network-centric warfare capabilities. The region's emphasis on enhancing command, control, and communication capabilities supports its strategic goal of maintaining maritime superiority and safeguarding critical sea lanes. Additionally, the region's diverse geographic and operational environments require adaptable and resilient communication systems capable of supporting both routine

operations and complex naval missions.

In South America, naval communication systems are pivotal for supporting maritime security operations, disaster response, and regional defense collaborations. The region focuses on deploying cost-effective communication solutions that improve coordination among naval forces and support regional stability. Investments in satellite communication, coastal surveillance networks, and maritime domain awareness systems strengthen the region's capabilities in monitoring and responding to maritime threats. South American navies prioritize interoperability and information sharing to enhance their maritime defense capabilities in diverse and challenging maritime environments.

The Middle East & Africa region, with its strategic maritime chokepoints and evolving security dynamics, invests in naval communication systems to enhance situational awareness, secure maritime borders, and protect critical infrastructure. The region's naval forces deploy communication technologies tailored for operations in harsh maritime environments, including desert surveillance, coastal defense, and anti-piracy efforts. Investments focus on integrating satellite communication, radar systems, and secure data links to support maritime operations and ensure continuous communication across vast maritime domains. In summary, the segmentation of the global naval communication market by region highlights diverse regional priorities, technological advancements, and strategic investments aimed at enhancing naval capabilities, securing maritime interests, and maintaining operational superiority in their respective maritime domains.

Key Market Players

Danelec Marine A/S

Furuno Electric Co. Ltd

General Dynamics Corporation

Northrop Grumman Corporation

Wartsila Corporation

RTX Corporation

Teledyne Technologies Incorporated

Safran SA

Honeywell International Inc.

Kongsberg Gruppen ASA

Report Scope:

In this report, the Global Naval Communication Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Naval Communication Market, By Application:

Command and Control

Intelligence Surveillance and Reconnaissance (ISR)

Routine Operations

Others

Naval Communication Market, By Platform:

Ships

Submarines

Unmanned System

Naval Communication Market, By System Technology:

Naval Satcom System

Naval Radio Systems

Naval Security Systems

Communication Management Systems

Naval Communication Market, By Region:

North America

United States

Canada

Mexico

Europe & CIS

Germany

Spain

France

Russia

Italy

United Kingdom

Belgium

Asia-Pacific

China

India

Japan

Indonesia

Thailand

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

Turkey

Iran

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Naval Communication Market.

Available Customizations:

Global Naval Communication 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. Market Overview
- 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. 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. Market Overview
- 3.2. Market Forecast
- 3.3. Key Regions
- 3.4. Key Segments

4. IMPACT OF COVID-19 ON GLOBAL NAVAL COMMUNICATION MARKET

5. GLOBAL NAVAL COMMUNICATION 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 (Command and Control, Intelligence Surveillance and Reconnaissance (ISR), Routine Operations and Others)
 - 5.2.2. By Platform Market Share Analysis (Ships, Submarines and Unmanned System)
 - 5.2.3. By System Technology Market Share Analysis (Naval Satcom System, Naval Radio Systems, Naval Security Systems and Communication Management Systems)

- 5.2.4. By Regional Market 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 Naval Communication Market Mapping & Opportunity Assessment
 - 5.3.1. By Application Market Mapping & Opportunity Assessment
 - 5.3.2. By Platform Market Mapping & Opportunity Assessment
 - 5.3.3. By System Technology Market Mapping & Opportunity Assessment
 - 5.3.4. By Regional Market Mapping & Opportunity Assessment

6. ASIA-PACIFIC NAVAL COMMUNICATION 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 Platform Market Share Analysis
 - 6.2.3. By System Technology 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 Naval Communication 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 Platform Market Share Analysis
 - 6.3.1.2.3. By System Technology Market Share Analysis

- 6.3.2. India Naval Communication 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 Platform Market Share Analysis
 - 6.3.2.2.3. By System Technology Market Share Analysis
- 6.3.3. Japan Naval Communication 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 Platform Market Share Analysis
 - 6.3.3.2.3. By System Technology Market Share Analysis
- 6.3.4. Indonesia Naval Communication 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 Platform Market Share Analysis
 - 6.3.4.2.3. By System Technology Market Share Analysis
- 6.3.5. Thailand Naval Communication 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 Platform Market Share Analysis
 - 6.3.5.2.3. By System Technology Market Share Analysis
- 6.3.6. South Korea Naval Communication 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 Platform Market Share Analysis
 - 6.3.6.2.3. By System Technology Market Share Analysis
- 6.3.7. Australia Naval Communication 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 Platform Market Share Analysis
- 6.3.7.2.3. By System Technology Market Share Analysis

7. EUROPE & CIS NAVAL COMMUNICATION 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 Platform Market Share Analysis

7.2.3. By System Technology 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 Naval Communication 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 Platform Market Share Analysis

7.3.1.2.3. By System Technology Market Share Analysis

7.3.2. Spain Naval Communication 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 Platform Market Share Analysis

7.3.2.2.3. By System Technology Market Share Analysis

7.3.3. France Naval Communication 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 Platform Market Share Analysis
 - 7.3.3.2.3. By System Technology Market Share Analysis
- 7.3.4. Russia Naval Communication 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 Platform Market Share Analysis
 - 7.3.4.2.3. By System Technology Market Share Analysis
- 7.3.5. Italy Naval Communication 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 Platform Market Share Analysis
 - 7.3.5.2.3. By System Technology Market Share Analysis
- 7.3.6. United Kingdom Naval Communication 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 Platform Market Share Analysis
 - 7.3.6.2.3. By System Technology Market Share Analysis
- 7.3.7. Belgium Naval Communication 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 Platform Market Share Analysis
 - 7.3.7.2.3. By System Technology Market Share Analysis

8. NORTH AMERICA NAVAL COMMUNICATION 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 Platform Market Share Analysis
- 8.2.3. By System Technology 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 Naval Communication 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 Platform Market Share Analysis
 - 8.3.1.2.3. By System Technology Market Share Analysis
 - 8.3.2. Mexico Naval Communication 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 Platform Market Share Analysis
 - 8.3.2.2.3. By System Technology Market Share Analysis
 - 8.3.3. Canada Naval Communication 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 Platform Market Share Analysis
 - 8.3.3.2.3. By System Technology Market Share Analysis

9. SOUTH AMERICA NAVAL COMMUNICATION 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 Platform Market Share Analysis
 - 9.2.3. By System Technology 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 Naval Communication 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 Platform Market Share Analysis
 - 9.3.1.2.3. By System Technology Market Share Analysis
 - 9.3.2. Colombia Naval Communication 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 Platform Market Share Analysis
 - 9.3.2.2.3. By System Technology Market Share Analysis
 - 9.3.3. Argentina Naval Communication 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 Platform Market Share Analysis
 - 9.3.3.2.3. By System Technology Market Share Analysis

10. MIDDLE EAST & AFRICA NAVAL COMMUNICATION 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 Platform Market Share Analysis
 - 10.2.3. By System Technology Market Share Analysis
 - 10.2.4. By Country Market Share Analysis
 - 10.2.4.1. Turkey Market Share Analysis
 - 10.2.4.2. Iran 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 Share Analysis
- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. Turkey Naval Communication 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 Platform Market Share Analysis
 - 10.3.1.2.3. By System Technology Market Share Analysis
 - 10.3.2. Iran Naval Communication 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 Platform Market Share Analysis
 - 10.3.2.2.3. By System Technology Market Share Analysis
 - 10.3.3. Saudi Arabia Naval Communication 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 Platform Market Share Analysis
 - 10.3.3.2.3. By System Technology Market Share Analysis
 - 10.3.4. UAE Naval Communication 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 Platform Market Share Analysis
 - 10.3.4.2.3. By System Technology 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. Danelec Marine A/S

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. Furuno Electric Co. Ltd

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. General Dynamics Corporation

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. Northrop Grumman Corporation

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. W?rtsil? Corporation

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. RTX Corporation
 - 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. Teledyne Technologies Incorporated
 - 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. Safran SA
 - 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. Honeywell International Inc.
 - 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. Kongsberg Gruppen ASA
 - 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 Application
 - 15.1.3. Target Platform

16. ABOUT US & DISCLAIMER

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