

## **Europe VHF Data Exchange System (VDES) Market - Industry Trends and Forecast to 2030**

Market Report | 2022-11-01 | 177 pages | Data Bridge Market Research

### **AVAILABLE LICENSES:**

- Single User License \$3500.00
- Corporate Users License \$4200.00

### **Report description:**

Europe VHF Data exchange system (VDES) market is projected to register a CAGR of 17.5% in the forecast period of 2023 to 2030. The new market report contains data for the historic year 2021, the base year of calculation is 2022, and the forecast period is 2023 to 2030.

### Market Segmentation

Europe VHF Data Exchange System (VDES) Market, By Component (Antenna, Transceiver, ECDIS, and Others), Communication System (Shore-To-Ship, Ship-To-Shore, Satellite-To-Ship, Ship-To-Satellite, Ship-To-Ship), Usage Type, (Vessel Traffic Service (VTS) Communication, Search & Rescue (SAR) Communication, Maritime Safety Information (MSI), Ship Reporting, Route Exchange, Charts & Publications, Logistics, and Others), End User, (Shore, Ships, and Satellites), Country (Germany, France, U.K., Italy, Spain, Russia, Turkey, Belgium, Netherlands, Switzerland, and Rest of Europe) Industry Trends and Forecast to 2030

Some of the major factors contributing to the growth of the Europe VHF Data Exchange System (VDES) market are:

- Active government participation in building the VDES is driving market growth
- The evolution of marine transport is supplementing the market growth

### Market Players

Some of the major players operating in the Europe VHF Data exchange system (VDES) are:

- KONSBERG
- Saab

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- AAC clyde space
- CML Microcircuits (A subsidiary of CML Microsystem Plc)
- Alen Space
- ORBCOMM
- Rapid Mobile (Pty) Ltd.
- Sternula
- Egatel S.L.
- Gradiant
- Spire Global
- The European Space Agency

## **Table of Contents:**

TABLE OF CONTENTS	
1 INTRODUCTION	27
1.1 OBJECTIVES OF THE STUDY	27
1.2 MARKET DEFINITION	27
1.3 OVERVIEW OF THE EUROPE VHF DATA EXCHANGE SYSTEM (VDES) MARKET	27
1.4 CURRENCY AND PRICING	29
1.5 LIMITATIONS	29
1.6 MARKET COVERED	30
2 MARKET SEGMENTATION	32
2.1 MARKETS COVERED	32
2.2 YEARS CONSIDERED FOR THE STUDY	33
2.3 GEOGRAPHIC SCOPE	34
2.4 DBMR TRIPOD DATA VALIDATION MODEL	35
2.5 PRIMARY INTERVIEWS WITH KEY OPINION LEADERS	38
2.6 DBMR MARKET POSITION GRID	39
2.7 VENDOR SHARE ANALYSIS	41
2.8 MULTIVARIATE MODELLING	42
2.9 PRODUCT TYPE CURVE	42
2.10 SECONDARY SOURCES	43
2.11 ASSUMPTIONS	43
3 EXECUTIVE SUMMARY	44
4 PREMIUM INSIGHTS	47
4.1 CASE STUDIES	48
4.1.1 THE VHF DATA EXCHANGE SYSTEM	48
4.1.2 TECHNICAL STUDIES ON THE SATELLITE COMPONENT OF THE VHF DATA EXCHANGE SYSTEM	49
4.1.3 AN ADVANCED NETWORKING PROTOCOL FOR VHF DATA EXCHANGE SYSTEM	50
4.2 REGULATORY STANDARDS	51
4.3 TECHNOLOGICAL TRENDS	54
4.3.1 SATELLITE HYBRID INFORMATION PROTOCOL FOR MARITIME TELECOMMUNICATIONS	54
4.3.2 VDES SATELLITE SERVICE (VDE-SAT)	54
4.4 VALUE CHAIN ANALYSIS	55
4.5 PRICING ANALYSIS	57
5 MARKET OVERVIEW	59
5.1 DRIVERS	61

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

5.1.1	GROWING GOVERNMENT FUNDING FOR VDES	61
5.1.2	TECHNOLOGICAL ADVANCEMENT IN SATELLITE TECHNOLOGY	62
5.1.3	INCREASING IOT TECHNOLOGY IN MARITIME COMMUNICATIONS	63
5.1.4	GROWING WORLD TRADE AND RISE IN MARINE TRAFFIC	64
5.1.5	DEVELOPMENT IN MARINE SECURITY	65
5.2	RESTRAINTS	66
5.2.1	HIGH INITIAL COST ASSOCIATED WITH VDES	66
5.2.2	ABSENCE OF PROPER CELL PLANNING IN VDES	66
5.3	OPPORTUNITIES	67
5.3.1	GROWING PREFERENCE FOR VDES BY BUSINESSES	67
5.3.2	INCREASING INVESTMENT IN R&D	68
5.3.3	GROWING PARTNERSHIP, ACQUISITION, AND COLLABORATION AMONG MARKET PLAYERS	68
5.3.4	RIISING USE OF VDES IN MARINE INDUSTRIES	69
5.4	CHALLENGES	70
5.4.1	ABSENCE OF REGULATION AND AUTHENTICATION MECHANISM	70
5.4.2	LACK OF SKILLED PERSONNEL	71
6	EUROPE VHF DATA EXCHANGE SYSTEM (VDES) MARKET, BY COMPONENTS	72
6.1	OVERVIEW	73
6.2	TRANSCEIVER	74
6.3	ANTENNA	75
6.4	ECDIS	76
6.5	OTHERS	77
7	EUROPE VHF DATA EXCHANGE SYSTEM (VDES) MARKET, BY COMMUNICATION SYSTEM	78
7.1	OVERVIEW	79
7.2	SHIP TO SHORE	80
7.3	SHORE TO SHIP	81
7.4	SATELLITE TO SHIP	82
7.5	SHIP TO SATELLITE	82
7.6	SHIP TO SHIP	83
8	EUROPE VHF DATA EXCHANGE SYSTEM (VDES) MARKET, BY USAGE TYPE	84
8.1	OVERVIEW	85
8.2	MARITIME SAFETY INFORMATION (MSI)	87
8.3	VESSEL TRAFFIC SERVICE (VTS) COMMUNICATION	88
8.4	SEARCH AND RESCUE (SAR) COMMUNICATION	89
8.5	ROUTE EXCHANGE	90
8.6	SHIP REPORTING	91
8.7	CHARTS & PUBLICATIONS	92
8.8	LOGISTICS	93
9	EUROPE VHF DATA EXCHANGE SYSTEM (VDES) MARKET, BY END-USER	94
9.1	OVERVIEW	95
9.2	SHIPS	96
9.2.1	TRANSCEIVER	97
9.2.2	ANTENNA	97
9.2.3	ECDIS	97
9.2.4	OTHERS	97
9.3	SHORE	97
9.3.1	TRANSCEIVER	98

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

9.3.2	ANTENNA	98
9.3.3	ECDIS	98
9.3.4	OTHERS	99
9.4	SATELLITE	99
9.4.1	BY COMPONENTS	99
9.4.1.1	TRANSCEIVER	100
9.4.1.2	ANTENNA	100
9.4.1.3	ECDIS	100
9.4.1.4	OTHERS	100
9.4.2	BY USAGE TYPE	100
9.4.2.1	MARITIME SAFETY INFORMATION (MSI)	101
9.4.2.2	VESSEL TRAFFIC SERVICE (VTS) COMMUNICATION	101
9.4.2.3	SEARCH AND RESCUE (SAR) COMMUNICATION	101
9.4.2.4	ROUTE EXCHANGE	101
9.4.2.5	SHIP REPORTING	101
9.4.2.6	CHARTS & PUBLICATIONS	101
9.4.2.7	LOGISTICS	101
10	EUROPE VHF DATA EXCHANGE SYSTEM (VDES) MARKET, BY REGION	102
10.1	EUROPE	103
10.1.1	GERMANY	109
10.1.2	U.K.	112
10.1.3	FRANCE	115
10.1.4	RUSSIA	118
10.1.5	ITALY	121
10.1.6	SPAIN	124
10.1.7	NETHERLANDS	127
10.1.8	BELGIUM	130
10.1.9	SWITZERLAND	133
10.1.10	TURKEY	136
10.1.11	REST OF EUROPE	139
11	EUROPE VHF DATA EXCHANGE SYSTEM (VDES) MARKET: COMPANY LANDSCAPE	140
11.1	COMPANY SHARE ANALYSIS: EUROPE	140
12	SWOT ANALYSIS	141
13	COMPANY PROFILE	142
13.1	KONGSBERG	142
13.1.1	COMPANY SNAPSHOT	142
13.1.2	REVENUE ANALYSIS	143
13.1.3	COMPANY SHARE ANALYSIS	143
13.1.4	PRODUCT PORTFOLIO	144
13.1.5	RECENT DEVELOPMENTS	144
13.2	SAAB	146
13.2.1	COMPANY SNAPSHOT	146
13.2.2	REVENUE ANALYSIS	146
13.2.3	COMPANY SHARE ANALYSIS	147
13.2.4	PRODUCT PORTFOLIO	147
13.2.5	RECENT DEVELOPMENTS	147
13.3	CML MICROCIRCUITS (A SUBSIDIARY OF CML MICROSYSTEM PLC)	149

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

13.3.1	COMPANY SNAPSHOT	149
13.3.2	COMPANY SHARE ANALYSIS	149
13.3.3	PRODUCT PORTFOLIO	150
13.3.4	RECENT DEVELOPMENT	150
13.4	ORBCOMM	152
13.4.1	COMPANY SNAPSHOT	152
13.4.2	COMPANY SHARE ANALYSIS	152
13.4.3	PRODUCT PORTFOLIO	153
13.4.4	RECENT DEVELOPMENTS	153
13.5	AAC CLYDE SPACE	155
13.5.1	COMPANY SNAPSHOT	155
13.5.2	REVENUE ANALYSIS	155
13.5.3	PRODUCT PORTFOLIO	156
13.5.4	RECENT DEVELOPMENTS	156
13.6	ALEN SPACE	158
13.6.1	COMPANY SNAPSHOT	158
13.6.2	PRODUCT PORTFOLIO	158
13.6.3	RECENT DEVELOPMENTS	158
13.7	EGATEL S.L.	160
13.7.1	COMPANY SNAPSHOT	160
13.7.2	SOLUTION PORTFOLIO	160
13.7.3	RECENT DEVELOPMENTS	161
13.8	GRADIANT	162
13.8.1	COMPANY SNAPSHOT	162
13.8.2	SOLUTION PORTFOLIO	162
13.8.3	RECENT DEVELOPMENTS	162
13.9	RAPID MOBILE (PTY) LTD	164
13.9.1	COMPANY SNAPSHOT	164
13.9.2	PRODUCT PORTFOLIO	164
13.9.3	RECENT DEVELOPMENTS	165
13.10	SPIRE EUROPE	167
13.10.1	COMPANY SNAPSHOT	167
13.10.2	REVENUE ANALYSIS	167
13.10.3	PRODUCT PORTFOLIO	168
13.10.4	RECENT DEVELOPMENTS	168
13.11	STERNULA	169
13.11.1	COMPANY SNAPSHOT	169
13.11.2	SOLUTIONS PORTFOLIO	169
13.11.3	RECENT DEVELOPMENTS	169
13.12	STONE THREE	171
13.12.1	COMPANY SNAPSHOT	171
13.12.2	PRODUCT PORTFOLIO	171
13.12.3	RECENT DEVELOPMENTS	171
13.13	THE EUROPEAN SPACE AGENCY	172
13.13.1	COMPANY SNAPSHOT	172
13.13.2	PRODUCT PORTFOLIO	172
13.13.3	RECENT DEVELOPMENTS	172

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

14 QUESTIONNAIRE 174  
15 RELATED REPORTS 177

**Europe VHF Data Exchange System (VDES) Market - Industry Trends and Forecast to 2030**

Market Report | 2022-11-01 | 177 pages | Data Bridge Market Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scott's-international.com

**ORDER FORM:**

Select license	License	Price
	Single User License	\$3500.00
	Corporate Users License	\$4200.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scott's-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-10"/>
		Signature	<input type="text"/>

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scott's-international.com

www.scott's-international.com