

## Middle East and Africa Operational Technology Market - Industry Trends and Forecast to 2029

Market Report | 2022-11-01 | 181 pages | Data Bridge Market Research

#### **AVAILABLE LICENSES:**

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

#### Report description:

Middle East and Africa operational technology market is projected to register a CAGR of 6.2% in the forecast period of 2021 to 2028. The new market report contains data for historic year 2019, the base year of calculation is 2020, and the forecast period is 2021 to 2028.

#### Market Segmentation:

Middle East and Africa Operational Technology Market, By Component (Hardware, Software/Platform, and Services), Deployment (On-Premise, Hybrid, and Cloud), Organization Size (Small & Medium Business and Large Enterprises), Connectivity (Wired and Wireless), Technology (Supervisory Control and Data Acquisition (SCADA), Distributed Control Systems (DCS), Process Control Domains (PCD), Programmable Logic Controllers (PLC), Safety Instrumented Systems (SIS), and Building Management / Automation Systems (BAS)), End-User (Automotive and Transportation, Building and Infrastructure, Energy and Utilities, Food and Beverage, Life Sciences, Marine and Ports, Metals and Mining, Oil & Gas, Chemicals, Pulp and Paper, and Others), Country (South Africa, Saudi Arabia, U.A.E., Egypt, Israel, and Rest of Middle East and Africa), Industry Trends and Forecast to 2028

Some of the major factors contributing to the growth of the Middle East and Africa operational technology market are:

- Technological advancements in hardware and software
- Growing industry 4.0 and automation in process safety

Market Players

The key market players for the Middle East and Africa operational technology market are listed below:

- Fortinet, Inc.
- IBM
- ABB

Scotts International, EU Vat number: PL 6772247784

- GENERAL ELECTRIC
- Schneider Electric
- Rockwell Automation, Inc.
- Emerson Electric Co.
- Advantech Co., Ltd.
- Honeywell International Inc.
- Huawei Technologies Co., Ltd.
- Oracle Corporation
- Wipro Limited
- SCADAfence
- SAP SE
- Cisco Systems, Inc.
- Accenture
- Yokogawa Electric Corporation

#### **Table of Contents:**

TABLE OF CONTENTS

- 1 INTRODUCTION 20
- 1.1 OBJECTIVES OF THE STUDY 20
- 1.2 MARKET DEFINITION 20
- 1.3 OVERVIEW OF MIDDLE EAST AND AFRICA OPERATIONAL TECHNOLOGY MARKET 20
- 1.4 CURRENCY AND PRICING 22
- 1.5 LIMITATIONS 22
- 1.6 MARKETS COVERED 22
- 2 MARKET SEGMENTATION 27
- 2.1 MARKETS COVERED 27
- 2.2 GEOGRAPHICAL SCOPE 28
- 2.3 YEARS CONSIDERED FOR THE STUDY 28
- 2.4 DBMR TRIPOD DATA VALIDATION MODEL 29
- 2.5 PRIMARY INTERVIEWS WITH KEY OPINION LEADERS 32
- 2.6 DBMR MARKET POSITION GRID 33
- 2.7 VENDOR SHARE ANALYSIS 35
- 2.8 MULTIVARIATE MODELING 36
- 2.9 HARDWARE TIMELINE CURVE 36
- 2.10 MARKET END-USER COVERAGE GRID 37
- 2.11 SECONDARY SOURCES 38
- 2.12 ASSUMPTIONS 38
- 3 EXECUTIVE SUMMARY 39
- 4 PREMIUM INSIGHTS 41
- **5 MARKET OVERVIEW 42**
- **5.1 DRIVERS 44**
- 5.1.1 RISE IN THE DEMAND FOR MERGING OPERATIONAL TECHNOLOGY (OT) & INFORMATION TECHNOLOGY (IT) 44
- 5.1.2 GROWTH IN THE DEMAND FOR SMART AUTOMATED SOLUTIONS 44
- 5.1.3 RAPID INDUSTRIALIZATION IN EMERGING ECONOMIES 45
- 5.1.4 INCREASE IN THE POPULARITY OF CONTROLLING AND MONITORING EQUIPMENT 45

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

- 5.1.5 QUICK RESOLUTION TIME AND COST-EFFECTIVENESS OF OPERATIONAL TECHNOLOGY 46
- 5.2 RESTRAINTS 47
- 5.2.1 SECURITY RISK IN OT OVER DATA PLATFORM 47
- 5.2.2 MULTI-LEVEL DEPENDENCY INVOLVED IN OPERATIONAL TECHNOLOGY (OT) 47
- 5.2.3 ISSUES RELATED TO INTEROPERABILITY WHILE CONNECTING NEW SYSTEMS WITH EARLIER INSTALLED SYSTEMS 48
- 5.3 OPPORTUNITIES 49
- 5.3.1 GROWTH IN THE DEMAND IN FOOD, PULP & PAPER INDUSTRIES FOR OPERATIONAL TECHNOLOGY 49
- 5.3.2 INCREASE IN OPERATIONAL TECHNOLOGY DEPLOYMENTS IN BUILDINGS AND INFRASTRUCTURE INDUSTRIES 49
- 5.3.3 OPERATIONAL TECHNOLOGY AS A SERVICE FOR THE RAPIDLY GROWING LIFE SCIENCES INDUSTRY 50
- 5.3.4 GROWING DEMAND IN THE OIL & GAS INDUSTRY FOR OPERATIONAL TECHNOLOGY 50
- 5.4 CHALLENGES 51
- 5.4.1 UPGRADATION OF OT SYSTEMS WITH ZERO PRODUCTION LOSS 51
- 5.4.2 FAILURES IN THE CRITICAL FUNCTIONING OF OT SYSTEMS 52
- 5.4.3 LACK OF SKILLED WORKFORCE FOR OPERATIONAL TECHNOLOGY SYSTEMS 52
- 6 MIDDLE EAST AND AFRICA OPERATIONAL TECHNOLOGY MARKET, BY COMPONENT 53
- 6.1 OVERVIEW 54
- 6.2 HARDWARE 55
- 6.3 SOFTWARE/PLATFORM 55
- 6.3.1 INCIDENT RESPONSE 55
- 6.3.2 ANOMALY DETECTION 55
- 6.3.3 OT ENDPOINT SECURITY 56
- 6.3.4 OT NETWORK SEGMENTATION 56
- 6.3.5 OTHERS 56
- 6.4 SERVICES 56
- 6.4.1 PROFESSIONAL SERVICES 56
- 6.4.2 MANAGED SERVICES 56
- 7 MIDDLE EAST AND AFRICA OPERATIONAL TECHNOLOGY MARKET, BY DEPLOYMENT 57
- 7.1 OVERVIEW 58
- 7.2 CLOUD 59
- 7.3 HYBRID 59
- 7.4 ON-PREMISE 59
- 8 MIDDLE EAST AND AFRICA OPERATIONAL TECHNOLOGY MARKET, BY ORGANIZATION SIZE 60
- 8.1 OVERVIEW 61
- 8.2 LARGE ENTERPRISE 62
- 8.3 SMALL & MEDIUM SIZE BUSINESS 62
- 9 MIDDLE EAST AND AFRICA OPERATIONAL TECHNOLOGY MARKET, BY CONNECTIVITY 63
- 9.1 OVERVIEW 64
- 9.2 WIRELESS 65
- 9.2.1 WHART 65
- 9.2.2 ISA 100 65
- 9.2.3 WIFI 65
- 9.2.4 BLUETOOTH 66
- 9.2.5 ZIGBEE 66
- 9.2.6 SATELLITE TECHNOLOGIES 66
- 9.2.7 CELLULAR TECHNOLOGIES 66
- 9.3 WIRED 66
- 9.3.1 ETHERNET 66

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

www.scotts-international.com

- **9.3.2 PROFINET 66**
- 9.3.3 MODBUS 67
- 9.3.4 FOUNDATION FIELDBUS 67
- 9.3.5 OTHERS 67
- 10 MIDDLE EAST AND AFRICA OPERATIONAL TECHNOLOGY MARKET, BY TECHNOLOGY 68
- 10.1 OVERVIEW 69
- 10.2 SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) 70
- 10.3 PROGRAMMABLE LOGIC CONTROLLERS (PLC) 70
- 10.4 SAFETY INSTRUMENTED SYSTEMS (SIS) 70
- 10.5 DISTRIBUTED CONTROL SYSTEMS (DCS) 70
- 10.6 BUILDING MANAGEMENT / AUTOMATION SYSTEMS (BAS) 71
- 10.7 PROCESS CONTROL DOMAINS (PCD) 71
- 11 MIDDLE EAST AND AFRICA OPERATIONAL TECHNOLOGY MARKET, BY END-USER 72
- 11.1 OVERVIEW 73
- 11.2 OIL & GAS 74
- 11.2.1 HARDWARE 74
- 11.2.2 SOFTWARE/PLATFORM 74
- 11.2.3 SERVICES 75
- 11.3 CHEMICALS 75
- 11.3.1 HARDWARE 75
- 11.3.2 SOFTWARE/PLATFORM 75
- 11.3.3 SERVICES 75
- 11.4 MARINE & PORTS 76
- 11.4.1 HARDWARE 76
- 11.4.2 SOFTWARE/PLATFORM 76
- 11.4.3 SERVICES 76
- 11.5 ENERGY & UTILITIES 77
- 11.5.1 HARDWARE 77
- 11.5.2 SOFTWARE/PLATFORM 77
- 11.5.3 SERVICES 77
- 11.6 METALS AND MINING 78
- 11.6.1 HARDWARE 78
- 11.6.2 SOFTWARE/PLATFORM 78
- 11.6.3 SERVICES 78
- 11.7 AUTOMOTIVE AND TRANSPORTATION 79
- 11.7.1 HARDWARE 79
- 11.7.2 SOFTWARE/PLATFORM 79
- 11.7.3 SERVICES 79
- 11.8 PULP AND PAPER 80
- 11.8.1 HARDWARE 80
- 11.8.2 SOFTWARE/PLATFORM 80
- 11.8.3 SERVICES 80
- 11.9 FOOD & BEVERAGE 80
- 11.9.1 HARDWARE 81
- 11.9.2 SOFTWARE/PLATFORM 81
- 11.9.3 SERVICES 81
- 11.10 LIFE SCIENCES 81

- 11.10.1 HARDWARE 81
- 11.10.2 SOFTWARE/PLATFORM 81
- 11.10.3 SERVICES 81
- 11.11 BUILDINGS AND INFRASTRUCTURE 82
- 11.11.1 HARDWARE 82
- 11.11.2 SOFTWARE/PLATFORM 82
- 11.11.3 SERVICES 82
- 11.12 OTHERS 83
- 11.12.1 HARDWARE 83
- 11.12.2 SOFTWARE/PLATFORM 83
- 11.12.3 SERVICES 83
- 12 MIDDLE EAST AND AFRICA OPERATIONAL TECHNOLOGY MARKET 84
- 12.1 SAUDI ARABIA 94
- 12.2 U.A.E. 101
- 12.3 ISRAEL 108
- 12.4 SOUTH AFRICA 115
- 12.5 EGYPT 122
- 12.6 REST OF MIDDLE EAST AND AFRICA 129
- 13 MIDDLE EAST AND AFRICA OPERATIONAL TECHNOLOGY MARKET: COMPANY LANDSCAPE 130
- 13.1 COMPANY SHARE ANALYSIS: MIDDLE EAST AND AFRICA 130
- 14 SWOT ANALYSIS 131
- 15 COMPANY PROFILE 132
- 15.1 HONEYWELL INTERNATIONAL INC. 132
- 15.1.1 COMPANY SNAPSHOT 132
- 15.1.2 REVENUE ANALYSIS 132
- 15.1.3 PRODUCT & SERVICE PORTFOLIO 133
- 15.1.4 RECENT DEVELOPMENTS 133
- 15.2 ABB 135
- 15.2.1 COMPANY SNAPSHOT 135
- 15.2.2 REVENUE ANALYSIS 135
- 15.2.3 PRODUCT PORTFOLIO 136
- 15.2.4 RECENT DEVELOPMENT 136
- 15.3 EMERSON ELECTRIC CO. 137
- 15.3.1 COMPANY SNAPSHOT 137
- 15.3.2 REVENUE ANALYSIS 137
- 15.3.3 PRODUCT PORTFOLIO 138
- 15.3.4 RECENT DEVELOPMENTS 140
- 15.4 ROCKWELL AUTOMATION, INC. 141
- 15.4.1 COMPANY SNAPSHOT 141
- 15.4.2 REVENUE ANALYSIS 142
- 15.4.3 PRODUCT PORTFOLIO 142
- 15.4.4 RECENT DEVELOPMENTS 146
- 15.5 GENERAL ELECTRIC 148
- 15.5.1 COMPANY SNAPSHOT 148
- 15.5.2 REVENUE ANALYSIS 148
- 15.5.3 SOLUTION & SERVICE PORTFOLIO 149
- 15.5.4 RECENT DEVELOPMENT 149

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

- 15.6 ADVANTECH CO., LTD. 151
- 15.6.1 COMPANY SNAPSHOT 151
- 15.6.2 REVENUE ANALYSIS 151
- 15.6.3 PRODUCT PORTFOLIO 152
- 15.6.4 RECENT DEVELOPMENT 152
- **15.7 ACCENTURE 153**
- 15.7.1 COMPANY SNAPSHOT 153
- 15.7.2 REVENUE ANALYSIS 153
- 15.7.3 SOLUTION/ SERVICE PORTFOLIO 154
- 15.7.4 RECENT DEVELOPMENTS 154
- 15.8 CISCO SYSTEMS, INC. 156
- 15.8.1 COMPANY SNAPSHOT 156
- 15.8.2 REVENUE ANALYSIS 156
- 15.8.3 PRODUCT PORTFOLIO 157
- 15.8.4 RECENT DEVELOPMENTS 158
- 15.9 FORTINET, INC. 159
- 15.9.1 COMPANY SNAPSHOT 159
- 15.9.2 REVENUE ANALYSIS 159
- 15.9.3 SOLUTION PORTFOLIO 160
- 15.9.4 RECENT DEVELOPMENTS 160
- 15.10 HUAWEI TECHNOLOGIES CO., LTD. 162
- 15.10.1 COMPANY SNAPSHOT 162
- 15.10.2 PRODUCT PORTFOLIO 162
- 15.10.3 RECENT DEVELOPMENTS 163
- 15.11 IBM CORPORATION 165
- 15.11.1 COMPANY SNAPSHOT 165
- 15.11.2 REVENUE ANALYSIS 165
- 15.11.3 SOLUTION PORTFOLIO 166
- 15.11.4 RECENT DEVELOPMENTS 166
- 15.12 ORACLE 167
- 15.12.1 COMPANY SNAPSHOT 167
- 15.12.2 REVENUE ANALYSIS 167
- 15.12.3 SOLUTION PORTFOLIO 168
- 15.12.4 RECENT DEVELOPMENT 168
- 15.13 SAP SE 169
- 15.13.1 COMPANY SNAPSHOT 169
- 15.13.2 REVENUE ANALYSIS 169
- 15.13.3 PRODUCT PORTFOLIO 170
- 15.13.4 RECENT DEVELOPMENTS 170
- 15.14 SCADAFENCE 171
- 15.14.1 COMPANY SNAPSHOT 171
- 15.14.2 PRODUCT & SOLUTION PORTFOLIO 171
- 15.14.3 RECENT DEVELOPMENT 171
- 15.15 WIPRO LIMITED 172
- 15.15.1 COMPANY SNAPSHOT 172
- 15.15.2 REVENUE ANALYSIS 172
- 15.15.3 PRODUCT PORTFOLIO 173

15.15.4 RECENT DEVELOPMENTS 173

15.16 YOKOGAWA ELECTRIC CORPORATION 174

15.16.1 COMPANY SNAPSHOT 174

15.16.2 REVENUE ANALYSIS 174

15.16.3 PRODUCT/ SOLUTION PORTFOLIO 174

15.16.4 RECENT DEVELOPMENT 176

16 QUESTIONNAIRE 177

17 RELATED REPORTS 181

Scotts International. EU Vat number: PL 6772247784



To place an Order with Scotts International:

☐ - Print this form

# Middle East and Africa Operational Technology Market - Industry Trends and Forecast to 2029

Market Report | 2022-11-01 | 181 pages | Data Bridge Market Research

<ul> <li>Complete the relevant blank fields and sign</li> </ul>			
<ul> <li>Send as a scanned email to support@scotts-international.com</li> </ul>			
ORDER FORM:			
Select license	License		Price
	Single User License		\$3500.00
	Corporate Users License		\$4200.00
VAT			
Total			
Email*  First Name*  Job title*	23% for Polish based companies, individuals and EU based companies.  Phone*  Last Name*	mes with are unable to provide a v	and Lo val Number
Company Name*	EU Vat / Tax ID / NIP n	number*	
Address*	City*		
Zip Code*	Country*		
	Date 2	2025-05-13	
	Signature		

Scotts International. EU Vat number: PL 6772247784