

Terminal Automation Market by Offering (Hardware (SCADA, PLC, Security System, Field Devices, Tank Loading Area), Software & Services), Project Type (Brownfield, and Greenfield), Vertical and Geography - Global Forecast to 2022

<https://marketpublishers.com/r/TAB85A2109BEN.html>

Date: April 2017

Pages: 166

Price: US\$ 5,650.00 (Single User License)

ID: TAB85A2109BEN

Abstracts

“The terminal automation market is projected to grow at a CAGR of 5.15% between 2017 and 2022”

The terminal automation market was valued at USD 3.82 billion in 2016 and is expected to reach USD 5.21 billion by 2022, at a CAGR of 5.15% between 2017 and 2022. Some of the major driving factors for the growth of the market are the adherence to environmental and safety regulations and the increasing investment for upgrading brownfield terminal infrastructure in North America. However, the drop in crude oil prices acts as a major restraint for the market.

“The market for software & services is expected to grow at a higher rate during the forecast period”

The market for software & services is expected to grow at a higher rate during the forecast period due to the increasing demand for automating solutions to improve the operational efficiency of terminals and make them more efficient.

“Brownfield terminal projects would hold a major share of the terminal automation market in the coming years”

Brownfield terminal projects are expected to hold a major share of the terminal automation market in the coming years as traditional terminal infrastructures—such as

pipeline connections, tanker berths, high-tech LNG storage tanks, roads, and other components—already exist. Therefore, the automation of such existing terminals would help to increase the number of brownfield projects and also increase overall productivity by executing operations methodically, thus conserving both time and energy.

“The terminal automation market in APAC is expected to grow at the highest rate during the forecast period”

The terminal automation market in APAC region is expected to grow at the highest CAGR during the forecast period. The key reason contributing to the growth of APAC in the terminal automation market is the increase in the number of terminal automation projects in countries such as India, Malaysia, and the Philippines. For instance, Honeywell International Inc. (U.S.) received a contract from Vietnam Oil and Gas Group (Vietnam) to provide professional consulting services and advice to the company and its subsidiaries for future investment projects.

Given below is the breakdown of primary participants' profiles by different parameters:

By Company Type: Tier 1 - 17%, Tier 2 - 33%, and Tier 3 - 50%

By Designation: C-Level - 33%, Directors - 17%, and Others - 50%

By Region: America - 50%, Europe - 17%, APAC - 33%

The key players operating in the market include ABB Ltd. (Switzerland), Honeywell International Inc. (US), Siemens AG (Germany), Yokogawa Electric Corporation (Japan), and Schneider Electric (France).

Research Coverage:

In this report, various segments such as offering, project type, vertical, and geography have been covered. The report gives a detailed view of the market across four main regions: America, Europe, APAC, and RoW (comprising the Middle East and Africa). The value chain analysis has been included in the report, along with the regulatory standards.

Reasons to Buy the Report:

Terminal Automation Market by Offering (Hardware (SCADA, PLC, Security System, Field Devices, Tank Loading Are...

This report includes the statistics pertaining to the terminal automation market in terms of offering, project type, vertical, and geography.

The value chain analysis and regulatory standards adopted by the market players have been provided for the terminal automation market.

The major drivers, restraints, challenges, and opportunities for the terminal automation market have been provided in detail in this report.

The report includes illustrative segmentation, analysis, and forecast for the terminal automation market based on its segments and subsegments.

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
 - 1.3.1 MARKETS COVERED
 - 1.3.2 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Primary interviews with experts
 - 2.1.2.2 Breakdown of primaries
 - 2.1.2.3 Key data from primary sources
 - 2.1.3 SECONDARY AND PRIMARY RESEARCH
 - 2.1.3.1 Key industry insights
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - 2.2.1.1 Approach for capturing the market share by bottom-up analysis (demand side)
 - 2.2.2 TOP-DOWN APPROACH
 - 2.2.2.1 Approach for capturing the market share by top-down analysis (supply side)
- 2.3 MARKET BREAKDOWN & DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHT

- 4.1 ATTRACTIVE OPPORTUNITIES IN THE TERMINAL AUTOMATION MARKET
- 4.2 TERMINAL AUTOMATION MARKET: BY TANK LOADING AREA

4.3 AMERICAS TO HOLD THE LARGEST SHARE OF THE TERMINAL AUTOMATION MARKET IN 2017

4.4 CHINA ESTIMATED TO DOMINATE THE TERMINAL AUTOMATION MARKET IN APAC IN 2017

4.5 TERMINAL AUTOMATION MARKET, BY PROJECT TYPE

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 TERMINAL AUTOMATION ARCHITECTURE

5.2.1 FIELD LAYER

5.2.2 CONTROL AND AUTOMATION

5.2.3 BUSINESS LAYER

5.3 MARKET DYNAMICS

5.3.1 DRIVERS

5.3.1.1 Increasing investment for upgrading brownfield terminal infrastructure in North America

5.3.1.2 Adherence to environmental and safety regulations

5.3.1.3 Growing demand for environmentally cleaner fuel results in the increased adoption of natural gas

5.3.2 RESTRAINTS

5.3.2.1 Reduction in crude oil prices impacts the upstream oil and gas terminal automation market

5.3.2.2 Low capital expenditure for terminal automation projects

5.3.2.3 Dependence on the regulatory authority for approval results in project delays

5.3.3 OPPORTUNITIES

5.3.3.1 Upcoming terminal automation projects in Africa and Asia Pacific

5.3.3.2 Integration of cloud technologies across all verticals

5.3.4 CHALLENGES

5.3.4.1 Controlling cyber security threats

6 INDUSTRY TRENDS

6.1 VALUE CHAIN ANALYSIS

6.2 REGULATORY STANDARDS

7 TERMINAL AUTOMATION MARKET, BY OFFERINGS

7.1 INTRODUCTION

Terminal Automation Market by Offering (Hardware (SCADA, PLC, Security System, Field Devices, Tank Loading Are...

7.2 HARDWARE

7.2.1 SYSTEMS

7.2.1.1 Control Systems

7.2.1.1.1 SCADA System

7.2.1.1.2 PLC

7.2.1.1.3 DCS

7.2.1.2 Security Systems

7.2.1.2.1 Emergency Shutdown System

7.2.1.2.2 Gas Monitoring System

7.2.1.2.3 Fire Protection System

7.2.1.2.4 Valve Control System

7.2.1.2.5 Leak Detection System

7.2.1.2.6 Access Control System

7.2.2 FIELD DEVICES

7.2.2.1 Tank gauging system

7.2.2.1.1 Transmitters

7.2.2.1.1.1 Pressure

7.2.2.1.1.2 Flow

7.2.2.1.1.3 Level

7.2.2.1.1.4 Temperature

7.2.2.2 CCTV

7.2.2.3 Others

7.2.3 TANK LOADING AREA

7.2.3.1 Trucks

7.2.3.2 Pipelines

7.2.3.3 Others

7.3 SOFTWARE & SERVICES

8 TERMINAL AUTOMATION MARKET, BY PROJECT TYPE

8.1 INTRODUCTION

8.2 BROWNFIELD PROJECTS

8.3 GREENFIELD PROJECTS

9 TERMINAL AUTOMATION MARKET, BY VERTICAL

9.1 INTRODUCTION

9.2 OIL & GAS

9.2.1 UPSTREAM

- 9.2.2 MIDSTREAM
- 9.2.3 DOWNSTREAM
- 9.3 CHEMICAL
 - 9.3.1 PETROCHEMICAL
 - 9.3.2 OTHERS
- 9.4 OTHERS

10 GEOGRAPHIC ANALYSIS

- 10.1 INTRODUCTION
- 10.2 AMERICAS
 - 10.2.1 INCREASING INVESTMENTS FOR UPGRADING BROWNFIELD TERMINAL INFRASTRUCTURE
 - 10.2.2 NORTH AMERICA
 - 10.2.2.1 Increase in capital expenditure to fund shale gas
 - 10.2.2.2 U.S.
 - 10.2.2.2.1 More dependence on liquefaction of liquefied gas projects
 - 10.2.2.3 Canada
 - 10.2.2.3.1 Major exporter of crude oil in North America
 - 10.2.2.4 Rest of North America
 - 10.2.3 LATIN AMERICA
 - 10.2.3.1 Privatization leads to major investment in the petroleum sector
 - 10.2.3.2 Mexico
 - 10.2.3.2.1 Reforms in the energy sector have attracted foreign direct investment in this country
 - 10.2.3.3 Argentina
 - 10.2.3.3.1 Dependence on federal funds for the development of the hydrocarbons industry
 - 10.2.3.4 Brazil
 - 10.2.3.4.1 Investments by the chemical companies initiate the business in the chemical sector
 - 10.2.3.5 Rest of Latin America
- 10.3 EUROPE
 - 10.3.1 DECLINE IN THE DOWNSTREAM SECTOR REDUCES THE REFINING CAPACITY IN THE COUNTRY
 - 10.3.2 RUSSIA
 - 10.3.2.1 Increasing investments by the companies in the petrochemical industry
 - 10.3.3 GERMANY
 - 10.3.3.1 Highly structured chemical industry contributes to the innovative strength

10.3.4 ITALY

10.3.4.1 Less spending by public and private companies in oil & gas exploration activities

10.3.5 FRANCE

10.3.5.1 Rapid growth in the chemical industry creates more job opportunities

10.3.6 SPAIN

10.3.6.1 Growing water shortages create demand for water desalination projects

10.3.7 REST OF EUROPE

10.4 APAC

10.4.1 INCREASE IN DEMAND FOR LIQUEFIED NATURAL GAS PROJECTS

10.4.2 CHINA

10.4.2.1 Green development projects in the oil & gas industry

10.4.3 INDIA

10.4.3.1 Increase in government funds for technology upgradation to boost growth in the chemical industry

10.4.4 JAPAN

10.4.4.1 Growth in petrochemical industry contributes to the increase in gross domestic product in the country

10.4.5 AUSTRALIA

10.4.5.1 Rapid industrialization drives growth in the oil & gas industry

10.4.6 MALAYSIA

10.4.6.1 Use of technology facilitates the delivery of hydrocarbon resources

10.4.7 INDONESIA

10.4.7.1 Development of petrochemical industry accelerates the economic growth

10.4.8 REST OF APAC

10.5 ROW

10.5.1 INVESTMENT IN DIGITAL TECHNOLOGIES INCREASES THE OPERATIONAL EFFICIENCIES IN THE OIL & GAS INDUSTRY

10.5.2 MIDDLE EAST

10.5.2.1 Decline in the global oil prices impacts the upstream sector

10.5.2.2 Iran

10.5.2.2.1 Rapid development in the petrochemical industry

10.5.2.3 Saudi Arabia

10.5.2.3.1 Plans to invest in new projects and simultaneously upgrade the existing facilities

10.5.2.4 UAE

10.5.2.4.1 Strong dependence on hydrocarbons demands the participation of private sectors

10.5.2.5 Rest of Middle East

10.5.3 AFRICA

10.5.3.1 Government initiatives to make better use of energy resources

10.5.3.2 South Africa

10.5.3.2.1 Upstream sector largely dominated by the South African government

10.5.3.3 Rest of South Africa

11 COMPETITIVE LANDSCAPE

11.1 INTRODUCTION

11.2 MARKET RANKING ANALYSIS: TERMINAL AUTOMATION MARKET

11.3 VENDOR DIVE OVERVIEW

11.3.1 VANGUARD (LEADERS)

11.3.2 DYNAMIC

11.3.3 INNOVATOR

11.3.4 EMERGING

11.4 COMPETITIVE BENCHMARKING TERMINAL AUTOMATION MARKET: PRODUCT PORTFOLIO ANALYSIS (25 COMPANIES)

11.5 BUSINESS STRATEGY TERMINAL AUTOMATION MARKET: BUSINESS STRATEGY ANALYSIS (25 COMPANIES)

Top 25 companies analysed for this study are- ABB Ltd.; Siemens AG; Schneider Electric; Honeywell International Inc. ; Rockwell Automation, Inc. ; Yokogawa Electric Corp. ; Emerson Electric Co. ; Endress+Hauser AG; TechnipFMC plc; Implico, Chemtrols Industries Pvt. Ltd. ; Petronas Carigali Sdn Bhd; Saudi Arabian Oil Co. ; Koninklijke Vopak NV; Larsen and Toubro; Toptech Systems; Cimation; Varec, Inc. ; Mofatt & Nichol; Zebra Technologies Corporation; Fabtech Projects & Engineers Ltd. ; Total Meter Services, Inc ; Inter Terminals Ltd. ; Intech Process Automation Inc; and Synergy Systems & Solutions

12 COMPANY PROFILES

(Business Overview, Products offered & Services strategies, Key Insights, Recent Developments, MnM View)*

12.1 ABB LTD.

12.2 HONEYWELL INTERNATIONAL INC.

12.3 SIEMENS AG

12.4 YOKOGAWA ELECTRIC CORPORATION

12.5 ROCKWELL AUTOMATION, INC.

- 12.6 SCHNEIDER ELECTRIC
- 12.7 EMERSON ELECTRIC CO.
- 12.8 ENDRESS+HAUSER MANAGEMENT AG
- 12.9 TECHNIPFMC PLC
- 12.10 IMPLICO GROUP
- 12.11 KEY INNOVATORS & STARTUPS
 - 12.11.1 INTER TERMINALS LTD.
 - 12.11.2 LARSEN & TOUBRO LIMITED
 - 12.11.3 VAREC, INC.
 - 12.11.4 INTECH PROCESS AUTOMATION INC.

*Details on Business Overview, Products offered & Services strategies, Key Insights, Recent Developments, MnM View might not be captured in case of unlisted companies.

13 APPENDIX

- 13.1 INSIGHTS OF INDUSTRY EXPERTS
- 13.2 DISCUSSION GUIDE
- 13.3 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL
- 13.4 INTRODUCING RT: REAL-TIME MARKET INTELLIGENCE
- 13.5 AVAILABLE CUSTOMIZATIONS
- 13.6 RELATED REPORTS
- 13.7 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

Table 1 LIST OF MAJOR SECONDARY SOURCES

Table 2 BROWNFIELD TERMINAL AUTOMATION PROJECTS IN NORTH AMERICA

Table 3 GLOBAL TERMINAL AUTOMATION PROJECTS, 2016–2017

Table 4 TERMINAL AUTOMATION MARKET: REGULATORY STANDARDS

Table 5 TERMINAL AUTOMATION MARKET, BY OFFERINGS, 2014–2022 (USD MILLION)

Table 6 TERMINAL AUTOMATION MARKET FOR HARDWARE, BY PROJECT TYPE, 2014–2022 (USD MILLION)

Table 7 TERMINAL AUTOMATION MARKET, BY HARDWARE, 2014–2022 (USD MILLION)

Table 8 TERMINAL AUTOMATION MARKET FOR SYSTEMS, BY PROJECT TYPE, 2014–2022 (USD MILLION)

Table 9 TERMINAL AUTOMATION MARKET, BY SYSTEMS, 2014–2022 (USD MILLION)

Table 10 TERMINAL AUTOMATION MARKET FOR CONTROL SYSTEMS, BY PROJECT TYPE, 2014–2022 (USD MILLION)

Table 11 TERMINAL AUTOMATION MARKET, BY CONTROL SYSTEMS, 2014–2022 (USD MILLION)

Table 12 TERMINAL AUTOMATION MARKET FOR SECURITY SYSTEMS, BY PROJECT TYPE, 2014–2022 (USD MILLION)

Table 13 TERMINAL AUTOMATION MARKET FOR FIELD DEVICES, BY PROJECT TYPE, 2014–2022 (USD MILLION)

Table 14 TERMINAL AUTOMATION MARKET, BY TRANSMITTER, 2014–2022 (USD MILLION)

Table 15 TERMINAL AUTOMATION MARKET FOR TANK LOADING AREA, BY PROJECT TYPE, 2014–2022 (USD MILLION)

Table 16 TERMINAL AUTOMATION MARKET, BY TANK LOADING AREA, 2014–2022 (USD MILLION)

Table 17 MARKET FOR TANK LOADING AREA FOR TRUCK, BY PROJECT TYPE, 2014–2022 (USD MILLION)

Table 18 MARKET FOR TANK LOADING AREA FOR PIPELINE, BY PROJECT TYPE, 2014–2022 (USD MILLION)

Table 19 MARKET FOR TANK LOADING AREA FOR OTHERS, BY PROJECT TYPE, 2014–2022 (USD MILLION)

Table 20 TERMINAL AUTOMATION MARKET FOR SOFTWARE & SERVICES, BY

Terminal Automation Market by Offering (Hardware (SCADA, PLC, Security System, Field Devices, Tank Loading Are...

PROJECT TYPE, 2014–2022 (USD MILLION)

Table 21 TERMINAL AUTOMATION MARKET, BY PROJECT TYPE, 2014–2022 (USD MILLION)

Table 22 BROWNFIELD TERMINAL AUTOMATION MARKET, BY OFFERINGS, 2014–2022 (USD MILLION)

Table 23 BROWNFIELD TERMINAL AUTOMATION MARKET, BY HARDWARE, 2014–2022 (USD BILLION)

Table 24 BROWNFIELD TERMINAL AUTOMATION MARKET, BY SYSTEMS, 2014–2022 (USD MILLION)

Table 25 BROWNFIELD TERMINAL AUTOMATION MARKET, BY TANK LOADING AREA, 2014–2022 (USD MILLION)

Table 26 BROWNFIELD TERMINAL AUTOMATION MARKET, BY VERTICAL, 2014–2022 (USD MILLION)

Table 27 GREENFIELD TERMINAL AUTOMATION MARKET, BY OFFERINGS, 2014–2022 (USD MILLION)

Table 28 GREENFIELD TERMINAL AUTOMATION MARKET, BY HARDWARE, 2014–2022 (USD MILLION)

Table 29 GREENFIELD TERMINAL AUTOMATION MARKET, BY SYSTEMS, 2014–2022 (USD MILLION)

Table 30 GREENFIELD TERMINAL AUTOMATION MARKET, BY TANK LOADING AREA, 2014–2022 (USD MILLION)

Table 31 GREENFIELD TERMINAL AUTOMATION MARKET, BY VERTICAL, 2014–2022 (USD MILLION)

Table 32 TERMINAL AUTOMATION MARKET, BY VERTICAL, 2014–2022 (USD MILLION)

Table 33 TERMINAL AUTOMATION MARKET FOR OIL & GAS, BY PROJECT TYPE, 2014–2022 (USD MILLION)

Table 34 TERMINAL AUTOMATION MARKET FOR OIL & GAS, BY REGION, 2014–2022 (USD MILLION)

Table 35 TERMINAL AUTOMATION MARKET FOR OIL & GAS, BY TYPE, 2014–2022 (USD MILLION)

Table 36 TERMINAL AUTOMATION MARKET FOR UPSTREAM OIL & GAS, BY REGION, 2014–2022 (USD MILLION)

Table 37 TERMINAL AUTOMATION MARKET FOR MIDSTREAM OIL & GAS, BY REGION, 2014–2022 (USD MILLION)

Table 38 TERMINAL AUTOMATION MARKET FOR DOWNSTREAM OIL & GAS, BY REGION, 2014–2022 (USD MILLION)

Table 39 TERMINAL AUTOMATION MARKET FOR CHEMICAL, BY PROJECT TYPE, 2014–2022 (USD MILLION)

Table 40 TERMINAL AUTOMATION MARKET FOR CHEMICAL, BY REGION, 2014–2022 (USD MILLION)

Table 41 TERMINAL AUTOMATION MARKET FOR CHEMICAL VERTICAL, 2014–2022 (USD MILLION)

Table 42 TERMINAL AUTOMATION MARKET FOR PETROCHEMICAL, BY REGION, 2014–2022 (USD MILLION)

Table 43 TERMINAL AUTOMATION MARKET FOR OTHER CHEMICAL VERTICAL, BY REGION, 2014–2022 (USD MILLION)

Table 44 TERMINAL AUTOMATION MARKET FOR OTHER VERTICALS, BY PROJECT TYPE, 2014–2022 (USD MILLION)

Table 45 TERMINAL AUTOMATION MARKET FOR OTHER VERTICALS, BY REGION, 2014–2022 (USD MILLION)

Table 46 TERMINAL AUTOMATION MARKET, BY REGION, 2014–2022 (USD MILLION)

Table 47 TERMINAL AUTOMATION MARKET IN AMERICAS, BY REGION, 2014–2022 (USD MILLION)

Table 48 TERMINAL AUTOMATION MARKET IN AMERICAS, BY VERTICAL, 2014–2022 (USD MILLION)

Table 49 TERMINAL AUTOMATION MARKET IN AMERICAS, BY OTHERS VERTICAL, 2014–2022 (USD MILLION)

Table 50 TERMINAL AUTOMATION MARKET IN AMERICAS FOR OIL & GAS VERTICAL, BY TYPE, 2014–2022 (USD MILLION)

Table 51 TERMINAL AUTOMATION MARKET IN AMERICAS FOR CHEMICAL VERTICAL, BY TYPE, 2014–2022 (USD MILLION)

Table 52 TERMINAL AUTOMATION MARKET IN NORTH AMERICA, BY COUNTRY, 2014–2022 (USD MILLION)

Table 53 TERMINAL AUTOMATION MARKET IN LATIN AMERICA, BY COUNTRY, 2014–2022 (USD MILLION)

Table 54 TERMINAL AUTOMATION MARKET IN EUROPE, BY COUNTRY, 2014–2022 (USD MILLION)

Table 55 TERMINAL AUTOMATION MARKET IN EUROPE, BY VERTICAL, 2014–2022 (USD MILLION)

Table 56 TERMINAL AUTOMATION MARKET IN EUROPE FOR OIL & GAS VERTICAL, BY TYPE, 2014–2022 (USD MILLION)

Table 57 TERMINAL AUTOMATION MARKET IN EUROPE FOR CHEMICAL VERTICAL, BY TYPE, 2014–2022 (USD MILLION)

Table 58 TERMINAL AUTOMATION MARKET IN APAC, BY COUNTRY, 2014–2022 (USD MILLION)

Table 59 TERMINAL AUTOMATION MARKET IN APAC, BY VERTICAL, 2014–2022

(USD MILLION)

Table 60 TERMINAL AUTOMATION MARKET IN APAC FOR OIL & GAS VERTICAL,
BY TYPE, 2014–2022 (USD MILLION)

Table 61 TERMINAL AUTOMATION MARKET IN APAC FOR CHEMICAL VERTICAL,
BY TYPE, 2014–2022 (USD MILLION)

Table 62 TERMINAL AUTOMATION MARKET IN ROW, BY REGION, 2014–2022 (USD
MILLION)

Table 63 TERMINAL AUTOMATION MARKET IN ROW, BY VERTICAL, 2014–2022
(USD MILLION)

Table 64 TERMINAL AUTOMATION MARKET IN ROW FOR OIL & GAS VERTICAL,
BY TYPE, 2014–2022 (USD MILLION)

Table 65 TERMINAL AUTOMATION MARKET IN ROW FOR CHEMICAL VERTICAL,
BY TYPE, 2014–2022 (USD MILLION)

Table 66 TERMINAL AUTOMATION MARKET IN MIDDLE EAST, BY COUNTRY,
2014–2022 (USD MILLION)

Table 67 TERMINAL AUTOMATION MARKET IN AFRICA, BY COUNTRY, 2014–2022
(USD MILLION)

Table 68 MARKET RANKING OF THE TOP 5 PLAYERS IN THE TERMINAL
AUTOMATION MARKET, 2016

List Of Figures

LIST OF FIGURES

Figure 1 TERMINAL AUTOMATION MARKET: RESEARCH DESIGN

Figure 2 BOTTOM-UP APPROACH TO ARRIVE AT THE MARKET SIZE

Figure 3 TOP-DOWN APPROACH TO ARRIVE AT THE MARKET SIZE

Figure 4 DATA TRIANGULATION

Figure 5 ASSUMPTIONS OF THE RESEARCH STUDY

Figure 6 TERMINAL AUTOMATION MARKET FOR SOFTWARE & SERVICES
EXPECTED TO GROW AT A HIGHER RATE BETWEEN 2017 AND 2022

Figure 7 TERMINAL AUTOMATION MARKET FOR TANK LOADING AREA
EXPECTED TO GROW AT THE HIGHEST RATE DURING THE FORECAST PERIOD

Figure 8 TERMINAL AUTOMATION MARKET FOR CHEMICAL VERTICAL TO GROW
AT THE HIGHEST RATE DURING THE FORECAST PERIOD

Figure 9 TERMINAL AUTOMATION MARKET FOR MIDSTREAM IN OIL & GAS
VERTICAL TO GROW AT THE HIGHEST RATE DURING THE FORECAST PERIOD

Figure 10 TERMINAL AUTOMATION MARKET IN APAC EXPECTED TO GROW AT
THE HIGHEST RATE BETWEEN 2017 AND 2022

Figure 11 SIGNIFICANT INCREASE IN THE NUMBER OF BROWNFIELD PROJECTS
EXPECTED TO DRIVE THE MARKET DURING THE FORECAST PERIOD

Figure 12 AUTOMATION OF TRUCKS TO GROW AT THE HIGHEST RATE IN THE
TERMINAL AUTOMATION MARKET DURING THE FORECAST PERIOD

Figure 13 INDIA EXPECTED TO WITNESS THE HIGHEST GROWTH RATE DURING
THE FORECAST PERIOD

Figure 14 CHEMICAL VERTICAL ESTIMATED TO HOLD THE LARGEST MARKET
SHARE IN APAC IN 2017

Figure 15 BROWNFIELD PROJECTS ESTIMATED TO GROW AT A HIGHER CAGR
BETWEEN 2017 AND 2022

Figure 16 TERMINAL AUTOMATION ARCHITECTURE

Figure 17 UPCOMING TERMINAL AUTOMATION PROJECTS IN AFRICA AND ASIA
PACIFIC EXPECTED TO DRIVE OPPORTUNITIES IN THE TERMINAL AUTOMATION
MARKET

Figure 18 COMPARATIVE ANALYSIS OF CRUDE OIL PRICES

Figure 19 MAJOR VALUE IS ADDED DURING THE HARDWARE COMPONENTS,
SOFTWARE SOLUTIONS, & SYSTEM INTEGRATORS PHASE

Figure 20 TERMINAL AUTOMATION MARKET: BY OFFERINGS

Figure 21 TERMINAL AUTOMATION MARKET: BY HARDWARE

Figure 22 TERMINAL AUTOMATION MARKET: BY SYSTEMS

Figure 23 TERMINAL AUTOMATION MARKET: BY FIELD DEVICE

Figure 24 BROWNFIELD PROJECT TYPE FOR TERMINAL AUTOMATION MARKET IN PIPELINE TANK LOADING AREA EXPECTED TO GROW AT A HIGHER RATE DURING THE FORECAST PERIOD

Figure 25 TERMINAL AUTOMATION MARKET: BY PROJECT TYPE

Figure 26 MARKET FOR SECURITY SYSTEMS TO GROW AT A HIGHER RATE DURING THE FORECAST PERIOD

Figure 27 MARKET FOR TANK LOADING AREA TO GROW AT THE HIGHEST RATE DURING THE FORECAST PERIOD

Figure 28 TERMINAL AUTOMATION MARKET: BY VERTICAL

Figure 29 TERMINAL AUTOMATION MARKET: BY OIL AND GAS VERTICAL

Figure 30 APAC EXPECTED TO WITNESS THE HIGHEST GROWTH IN THE TERMINAL AUTOMATION MARKET FOR MIDSTREAM OIL & GAS VERTICAL

Figure 31 PETROCHEMICALS EXPECTED TO WITNESS HIGHER GROWTH RATE IN THE TERMINAL AUTOMATION FOR CHEMICAL VERTICAL

Figure 32 TERMINAL AUTOMATION MARKET SEGMENTATION: BY GEOGRAPHY

Figure 33 GEOGRAPHIC SNAPSHOT: TERMINAL AUTOMATION MARKET IN APAC EXPECTED TO GROW AT THE HIGHEST RATE DURING THE FORECAST PERIOD

Figure 34 TERMINAL AUTOMATION MARKET IN INDIA IS ESTIMATED TO GROW AT THE HIGHEST RATE BETWEEN 2016 AND 2022

Figure 35 SEGMENTATION: THE AMERICAS

Figure 36 AMERICAS: TERMINAL AUTOMATION MARKET SNAPSHOT

Figure 37 SEGMENTATION: NORTH AMERICA

Figure 38 SEGMENTATION: LATIN AMERICA

Figure 39 SEGMENTATION: EUROPE

Figure 40 SEGMENTATION: APAC

Figure 41 APAC: TERMINAL AUTOMATION MARKET SNAPSHOT

Figure 42 SEGMENTATION: ROW

Figure 43 SEGMENTATION: MIDDLE EAST

Figure 44 SEGMENTATION: AFRICA

Figure 45 KEY GROWTH STRATEGIES ADOPTED BY TOP COMPANIES, 2013–2017

Figure 46 DIVE CHART

Figure 47 ABB LTD.: COMPANY SNAPSHOT (2015)

Figure 48 HONEYWELL INTERNATIONAL INC.: COMPANY SNAPSHOT (2015)

Figure 49 SIEMENS AG: COMPANY SNAPSHOT (2016)

Figure 50 YOKOGAWA ELECTRIC CORP.: COMPANY SNAPSHOT (2016)

Figure 51 ROCKWELL AUTOMATION, INC.: COMPANY SNAPSHOT (2016)

Figure 52 SCHNEIDER ELECTRIC: COMPANY SNAPSHOT (2015)

Figure 53 EMERSON ELECTRIC CO.: COMPANY SNAPSHOT (2016)

Figure 54 ENDRESS+ HAUSER MANAGEMENT AG: COMPANY SNAPSHOT (2015)

I would like to order

Product name: Terminal Automation Market by Offering (Hardware (SCADA, PLC, Security System, Field Devices, Tank Loading Area), Software & Services), Project Type (Brownfield, and Greenfield), Vertical and Geography - Global Forecast to 2022

Product link: <https://marketpublishers.com/r/TAB85A2109BEN.html>

Price: US\$ 5,650.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/TAB85A2109BEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970