+44 20 8123 2220
info@marketpublishers.com

IoT Platforms, Data Management, and Analytics 2016 - 2021

https://marketpublishers.com/r/IDE1915C8B4EN.html
Date: January 2017
Pages: 392
Price: US$ 1,995.00 (Single User License)
ID: IDE1915C8B4EN

Abstracts

Internet of Things (IoT) Platforms represents those systems (software, hardware, and middleware) that enable IoT network, device, application, and service management. This includes connectivity, device administration, identity management, permissions control, data management, APIs, SDKs, and more. IoT Platforms are enabling the next evolution of data analytics in which enterprise will realize significant tangible and intangible benefits from IoT data. The ability to sort data in a raw format, store it in different structural formats, and subsequently release it for further analytics, will be of paramount importance for all industry verticals.

This research evaluates the IoT Platform marketplace including companies, solutions, market outlook, and specific opportunities where there are unmet market needs. The research assesses the technologies supporting IoT Platforms as well as required future functionality to facilitate market growth and sustainability. It includes forecasts for IoT Platform revenue and deployments globally and regionally for the 2016 to 2021 period. Forecasts also include a breakdown by Segment, Solution, Investment/Funding, Value Chain, and Connectivity.

This research also provides comprehensive analysis of the IoT Data Management and Analytics marketplace. It evaluates leading players and their solutions, assesses anticipated market needs, and evolving technologies. It also includes comprehensive forecasts for the period 2016 – 2021 including IoT Data as a Service Revenue by Industry Vertical. All purchases of Mind Commerce reports includes time with an expert analyst who will help you link key findings in the report to the business issues you're addressing. This needs to be used within three months of purchasing the report.

Target Audience:

+44 20 8123 2220
info@marketpublishers.com

IoT platform providers

Network service providers

Systems integration companies

IoT and wireless device manufacturers

Network and device security companies

Data management and analytics companies

Enterprise IT and OT units in all industry verticals

+44 20 8123 2220
info@marketpublishers.com

Contents

INTERNET OF THINGS (IOT) PLATFORMS: MARKET OUTLOOK AND FORECASTS 2016 – 2021

1. EXECUTIVE SUMMARY

2. INTRODUCTION TO IOT PLATFORMS

2.1 IOT PLATFORMS AND DATA MANAGEMENT
2.2 IOT AND THE CLOUD
2.3 KEY IOT PLATFORM FEATURE/FUNCTIONALITY
2.4 IOT PLATFORMS AND OPERATING SYSTEMS
2.5 IOT PLATFORMS FOR VIRTUAL-TO REAL-MANAGEMENT AND CONTROL

3. KEY ISSUES AND CHALLENGES FOR IOT

3.1 INCREASING NEED FOR IMPROVED IOT STANDARDIZATION
3.2 MANY CHOICES FOR IOT WIRELESS ACCESS
3.3 NEED FOR IOT MEDIATION AND ORCHESTRATION

4. IOT IN INDUSTRY VERTICALS AND MARKET SEGMENTS

4.1 LEADING CONSUMER MARKETS FOR IOT
  4.1.1 CONNECTED HOMES
  4.1.2 CONNECTED VEHICLES
4.2 LEADING ENTERPRISE AND INDUSTRIAL MARKETS FOR IOT
  4.2.1 IOT IN ENTERPRISE
  4.2.2 INDUSTRIAL INTERNET OF THINGS (IIOT)
4.3 IOT IN GOVERNMENT
4.4 OVERALL OUTLOOK FOR IOT IN INDUSTRY VERTICALS

5. IOT PLATFORM PROVIDERS AND SOLUTIONS

5.1 AMEE
  5.1.1 AMEE PLATFORM
5.2 ARKESSA
  5.2.1 ARKESSA CONNECT PLATFORM
5.3 ARM

+44 20 8123 2220
info@marketpublishers.com

5.3.1 MBED
5.4 ARRAYENT
5.4.1 ARRAYENT PLATFORM
5.5 AUTODESK
5.5.1 AUTODESK SEECONTROL
5.6 AXEDA (PTC)
5.6.1 AXEDA IOT PLATFORM
5.7 BUG LABS
5.7.1 BUGSWARM PLATFORM
5.8 CARRIOTS
5.8.1 CARRIOTS PLATFORM
5.9 CLOUDPLUGS
5.9.1 CLOUDPLUGS PLATFORM
5.10 CUBILOG
5.10.1 CUBILOG PLATFORM
5.11 CYBERVISION
5.11.1 CYBERVISION’S KAA IOT PLATFORM
5.11.2 KAA PROJECT
5.12 DIGI
5.12.1 DIGI'S M2M PLATFORM
5.13 ECLIPSE M2M
5.13.1 MIHINI PROJECT
5.13.2 THINGSQUARE
5.14 EVRYTHNG
5.14.1 EVRYTHNG PLATFORM
5.15 EXOSITE
5.15.1 ONE PLATFORM BY EXOSITE
5.16 GEOSONICS/VIBRA-TECH
5.16.1 REMOTE MONITORING PLATFORM
5.17 GOBIG, INC.
5.17.1 GOBIG PLATFORM
5.18 GOOGLE
5.18.1 BRILLO
5.18.2 WEAVE
5.19 GROOVESTREAMS
5.19.1 GROOVESTREAMS PLATFORM
5.20 HP
5.20.1 HP IOT PLATFORM
5.21 IBM

+44 20 8123 2220
info@marketpublishers.com

5.21.1 IBM WATSON IOT PLATFORM
5.21.2 IBM BLUEMIX
5.22 IMANTICS
5.22.1 IMANTICS ATHENA PLATFORM
5.23 INTEL
5.23.1 INTEL IOT PLATFORM
5.24 IOBRIDGE
5.24.1 THINGSPEAK
5.25 IQP
5.25.1 IQP IOT PLATFORM
5.25.2 PLATFORM DIFFERENTIATORS
5.26 JASPER (CISCO)
5.26.1 JASPER PLATFORM
5.26.2 JASPER CONTROL CENTER PLATFORM
5.27 KONEKT
5.27.1 KONEKT CLOUD DATA LOGGER
5.27.1 KONEKT CLOUD NETWORKS
5.28 LINKSMART TECHNOLOGIES
5.28.1 LINKSMART PLATFORM
5.29 LOGMEIN
5.29.1 XIVELY
5.30 MANYBOTS
5.30.1 MANYBOTS PLATFORM
5.31 MARVELL TECHNOLOGY GROUP LTD.
5.31.1 EZ-CONNECT
5.32 MICROSTRAIN
5.32.1 SENSORCLOUD
5.33 NEUAER
5.33.1 PROXPLATFORM BY NEUAER
5.34 NIMBITS
5.35 PARTICLE
5.35.1 PARTICLE.IO
5.36 QUALCOMM
5.36.1 QUALCOMM IOT PLATFORM
5.37 SEN.SE
5.37.1 OPEN.SEN.SE PLATFORM
5.38 SENSINODE
5.38.1 NANOSERVICE PLATFORM
5.39 THINGSWORKS (PTC)

+44 20 8123 2220
info@marketpublishers.com

5.39.1 THINGWORX PLATFORM

6. IOT PLATFORM OUTLOOK AND FORECASTS

6.1 GLOBAL IOT PLATFORM REVENUE FORECASTS 2016 - 2021
6.1.1 IOT PLATFORM REVENUE WORLDWIDE 2016 - 2021
6.1.2 IOT PLATFORM REVENUE BY TYPE 2016 - 2021
6.1.3 IOT PLATFORM REVENUE BY SEGMENT 2016 - 2021
6.1.4 IOT PLATFORM REVENUE BY SOLUTION 2016 - 2021
6.1.5 IOT PLATFORM REVENUE BY INVESTMENT FOCUS 2016 - 2021
6.1.6 IOT PLATFORM REVENUE BY VALUE CHAIN PARTNERS 2016 - 2021
6.1.7 IOT PLATFORM REVENUE BY CONNECTIVITY TECHNOLOGY 2016 - 2021
6.1.8 IOT PLATFORM REVENUE BY LEADING PLATFORMS 2016 - 2021
6.2 REGIONAL IOT PLATFORM REVENUE FORECASTS 2016 - 2021
6.2.1 IOT PLATFORM REVENUE BY REGION 2016 - 2021
6.2.2 APAC MARKET REVENUE FORECAST 2016 - 2021
6.2.3 EUROPE MARKET REVENUE FORECAST 2016 - 2021
6.2.4 NORTH AMERICA MARKET REVENUE FORECASTS 2016 - 2021
6.2.5 LATIN AMERICA MARKET REVENUE FORECASTS 2016 - 2021
6.2.6 MIDDLE EAST AND AFRICA MARKET REVENUE FORECASTS 2016 - 2021
6.3 GLOBAL IOT PLATFORM DEPLOYMENT FORECASTS 2016 – 2021
6.3.1 IOT PLATFORM DEPLOYMENTS WORLDWIDE
6.3.2 GLOBAL IOT PLATFORM INSTALLED BASE BY TYPE
6.3.3 GLOBAL IOT PLATFORM INSTALLED BASE BY SOLUTION
6.3.4 GLOBAL IOT PLATFORM INSTALLED BASE BY DEVICE AND SYSTEM
6.3.5 GLOBAL IOT PLATFORM DEPLOYMENTS BY SEGMENT
6.3.6 GLOBAL IOT PLATFORM INSTALLED BASE BY TYPES OF CONNECTIVITY TECHNOLOGY
6.3.7 GLOBAL IOT PLATFORM INSTALLED BASE BY WIRELESS CONNECTIVITY TECHNOLOGY
6.3.8 GLOBAL IOT PLATFORM DEPLOYMENTS BY LEADING PROVIDERS
6.4 REGIONAL IOT PLATFORM DEPLOYMENT FORECASTS 2016 – 2021
6.4.1 IOT PLATFORM DEPLOYMENTS BY REGION
6.4.2 APAC IOT PLATFORM DEPLOYMENTS 2016 - 2021
6.4.3 EUROPE IOT PLATFORM DEPLOYMENTS 2016 - 2021
6.4.4 NORTH AMERICA IOT PLATFORM DEPLOYMENTS 2016 - 2021
6.4.5 LATIN AMERICA IOT PLATFORM DEPLOYMENTS 2016 - 2021
6.4.6 MIDDLE EAST AND AFRICA IOT PLATFORM DEPLOYMENTS 2016 - 2021

+44 20 8123 2220
info@marketpublishers.com

7. CONCLUSIONS AND RECOMMENDATIONS

7.1 OVERALL TRENDS DRIVING THE NEED FOR IOT PLATFORMS
7.2 KEY CONSIDERATIONS FOR LONG-TERM SUCCESS OF IOT PLATFORMS

+44 20 8123 2220
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1: Big Data is Not Just a Data Dump
Figure 2: Fog Computing, IoT, and Data Management
Figure 3: Big Data in IoT
Figure 4: Global Big Data in IoT Market 2015 - 2020
Figure 5: IoT and the Cloud
Figure 6: IoT Platforms and Cloud Data Management
Figure 7: IoT Platform Functionality
Figure 8: IoT Platform Role in Services Mediation
Figure 9: Smart Objects in Physical Environment
Figure 10: LoRa IoT WAN Supporting Companies
Figure 11: Cellular IoT Use Cases
Figure 12: Global Connected Home Market 2015 - 2020
Figure 13: Connected Vehicles by Application Type
Figure 14: Service Revenue in Connected Cars 2015 - 2020
Figure 15: Mapping IoT to Industry Verticals
Figure 16: Worldwide IoT Platform Generated Revenue 2016 – 2021
Figure 17: Global IoT Platform Deployment 2016 – 2021

+44 20 8123 2220
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1: IoT Revenue by Industry Verticals 2016 - 2021
Table 2: Global IoT Platform Revenue by HLOS vs. RTOS vs. Others 2016 – 2021
Table 3: Worldwide IoT Platform Revenue by Segment 2016 – 2021
Table 4: Worldwide IoT Platform Revenue by Solution Type 2016 – 2021
Table 5: Global IoT Platform Rev Enterprise, Government, Consumer 2016 – 2021
Table 5: Global IoT Platform Rev Share by Value Chain Stakeholder 2016 - 2021
Table 6: Global IoT Platform Revenue by Connectivity Technology 2016 – 2021
Table 7: Revenue by Leading 20 IoT Platforms 2016 – 2021
Table 8: IoT Platform Revenue by APAC, Europe, Americas, ROW 2016 – 2021
Table 9: APAC IoT Platform Revenue by Type 2016 – 2021
Table 10: APAC IoT Platform Revenue by Segment 2016 – 2021
Table 11: APAC IoT Platform Revenue by Solution 2016 – 2021
Table 12: APAC IoT Platform Revenue by Investment 2016 – 2021
Table 13: APAC IoT Platform Revenue by Value Chain Partners 2016 – 2021
Table 14: APAC IoT Platform Revenue by Connectivity Technology 2016 – 2021
Table 15: Europe IoT Platform Revenue by Type 2016 – 2021
Table 16: Europe IoT Platform Revenue by Segment 2016 – 2021
Table 17: Europe IoT Platform Revenue by Solution 2016 – 2021
Table 18: Europe IoT Platform Revenue by Investment 2016 – 2021
Table 19: Europe IoT Platform Revenue by Value Chain Partners 2016 – 2021
Table 20: Europe IoT Platform Revenue by Connectivity Technology 2016 – 2021
Table 21: North America IoT Platform Revenue by Type 2016 – 2021
Table 22: North America IoT Platform Revenue by Segment 2016 – 2021
Table 23: North America IoT Platform Revenue by Solution 2016 – 2021
Table 24: North America IoT Platform Revenue by Investment 2016 – 2021
Table 25: North America IoT Platform Rev by Value Chain Partners 2016 – 2021
Table 26: North America IoT Platform Revenue by Connectivity Tech 2016 – 2021
Table 27: Latin America IoT Platform Revenue by Type 2016 – 2021
Table 28: Latin America IoT Platform Revenue by Segment 2016 – 2021
Table 29: Latin America IoT Platform Revenue by Solution 2016 – 2021
Table 30: Latin America IoT Platform Revenue by Investment 2016 – 2021
Table 31: Latin America IoT Platform Rev by Value Chain Partners 2016 – 2021
Table 32: Latin America IoT Platform Revenue by Connectivity Tech 2016 – 2021
Table 33: Middle East and Africa IoT Platform Revenue by Type 2016 – 2021
Table 34: Middle East and Africa IoT Platform Revenue by Segment 2016 – 2021

+44 20 8123 2220
info@marketpublishers.com

Table 35: Middle East and Africa IoT Platform Revenue by Solution 2016 – 2021
Table 36: Middle East and Africa IoT Platform Revenue by Investment 2016 – 2021
Table 37: ME & Africa IoT Platform Revenue by Value Chain Partners 2016 – 2021
Table 38: ME & Africa IoT Platform Revenue by Connectivity Tech 2016 – 2021
Table 39: Global IoT Platforms by HLOS vs. RTOS vs. Other Platform 2016 – 2021
Table 40: Global IoT Platform Deployments by Types of Solution 2016 – 2021
Table 41: Global IoT Platform Deployments by Device and System 2016 – 2021
Table 42: Global IoT Platform Deployments by Segments 2016 – 2021
Table 43: Global IoT Platform Deployments - Wired vs. Wireless 2016 - 2021
Table 44: Global IoT Platform Deployments by Connectivity Type 2016 – 2021
Table 45: IoT Platform Deployments by Leading 20 IoT Platforms 2016 – 2021
Table 46: IoT Platform Deployments APAC, Europe, Americas, ROW 2016 – 2021
Table 47: APAC IoT Platform Deployments by Type 2016 - 2021
Table 48: APAC IoT Platform Deployments by Solution 2016 - 2021
Table 49: APAC IoT Platform Deployments by Device and System 2016 - 2021
Table 50: APAC IoT Platform Deployments by Segment 2016 - 2021
Table 51: APAC IoT Platform Deployments by Connectivity Tech 2016 - 2021
Table 52: APAC IoT Platform Deployments by Connectivity Tech 2016 - 2021
Table 53: Europe IoT Platform Deployments by Type 2016 - 2021
Table 54: Europe IoT Platform Deployments by Solution 2016 - 2021
Table 55: Europe IoT Platform Deployments by Device and System 2016 - 2021
Table 56: Europe IoT Platform Deployments by Segment 2016 - 2021
Table 57: Europe IoT Platform Deployments Wired vs. Wireless 2016 - 2021
Table 58: Europe IoT Platform Deployments by Connectivity Tech 2016 - 2021
Table 59: North America IoT Platform Deployments by Type 2016 - 2021
Table 60: North America IoT Platform Deployments by Solution 2016 - 2021
Table 61: NA IoT Platform Deployments by Device and System 2016 - 2021
Table 62: North America IoT Platform Deployments by Segment 2016 - 2021
Table 63: North America IoT Platform Wired vs. Wireless Technology 2016 - 2021
Table 64: NA IoT Platform Deployments by Connectivity Tech 2016 - 2021
Table 65: Latin America IoT Platform Deployments by Type 2016 - 2021
Table 66: Latin America IoT Platform Deployments by Solution 2016 - 2021
Table 67: LA IoT Platform Deployments by Device and System 2016 - 2021
Table 68: Latin America IoT Platform Deployments by Segment 2016 - 2021
Table 69: Latin America IoT Platform Deployments Wired vs. Wireless 2016 - 2021
Table 70: LA IoT Platform Deployments by Connectivity Tech 2016 - 2021
Table 71: Middle East and Africa IoT Platform Deployments by Type 2016 - 2021
Table 72: Middle East and Africa IoT Platform Deployments by Solution 2016 - 2021
Table 73: ME and Africa IoT Platform Deployments Device and System 2016 - 2021

+44 20 8123 2220
info@marketpublishers.com

Table 74: ME and Africa IoT Platform Deployments by Segment 2016 - 2021
Table 75: Middle East and Africa IoT Platform Wired vs. Wireless Tech 2016 - 2021
Table 76: ME and Africa IoT Platform Deployments by Connectivity 2016 - 2021

IOT DATA MANAGEMENT AND ANALYTICS MARKET OUTLOOK & FORECASTS 2016 – 2021

1 INTRODUCTION

1.1 Research Background
1.2 Research Scope
1.3 Target Audience
1.4 Companies Covered

2 EXECUTIVE SUMMARY

3 OVERVIEW

3.1 IoT Data in the Emerging Data Economy
  3.1.1 IoT Data Strategy
  3.1.2 IoT and the Analytics of Things
  3.1.3 Specific Strategic Considerations
    3.1.3.1 Focus on Data Tiers
    3.1.3.2 Maintain a Value-based Approach
    3.1.3.3 Foster an Open Development Environment
3.2 Understanding IoT Data
  3.2.1 IoT Data vs. other Unstructured Data
  3.2.2 Key IoT Data Characteristics
    3.2.2.1 IoT Data is Real Time
    3.2.2.2 Massive Volumes of IoT Data
    3.2.2.3 IoT Data Generates Useful Insights
3.3 IoT Data Management Operations
  3.3.1 Basic Data Implementation and Operational Challenges
    3.3.1.1 IoT Data Scalability
    3.3.1.2 IoT Data Integration
  3.3.2 Data Management and Processing Raw Data
  3.3.3 Centralized Storage and Decentralized Processing
  3.3.4 Accessing and Exchanging IoT Data via APIs
  3.3.5 Data Security and Personal Information Privacy

+44 20 8123 2220
info@marketpublishers.com

3.4 Monetizing IoT Data and Analytics
3.4.1 IoT Data vs. IoT Data Analytics
3.4.1.1 IoT Data
3.4.1.2 IoT Data Analytics
3.4.2 Key IoT Data Management Monetization Issues
3.4.2.1 IoT Data Ownership
3.4.2.2 IoT Data Care of Custody
3.4.3 Direct vs. Indirect Monetization
3.4.4 Internal vs. External Enterprise IoT Data Monetization
3.4.4.1 Enterprise Data and Analytics: Internal Monetization
3.4.4.2 Enterprise Data and Analytics: External Monetization
3.4.5 Public Data Monetization
3.4.6 Hybrid IoT Monetization
3.4.7 Emerging IoT Data Management and Analytics Marketplace
3.4.7.1 IoT Data as a Service
3.4.7.2 IoT Data Analytics as a Service
3.4.7.3 Decisions as a Service
3.5 Related Monetization Areas
3.5.1 IoT OSS and BSS
3.5.1.1 IoT Operational Support Systems
3.5.1.2 IoT Billing Support Systems
3.5.2 IoT Mediation and Orchestration
3.5.2.1 IoT Mediation and Orchestration Functionality
3.5.2.1.1 IoT Mediation and Orchestration: Virtualization
3.5.2.1.2 IoT Mediation and Orchestration: Identity Management
3.5.2.1.3 Emerging Technologies for IoT Mediation and Orchestration
3.5.2.2 IoT Mediation and Orchestration in Support of Industry Verticals
3.5.2.3 Communication Service Provider Role in IoT Mediation and Orchestration Ecosystem
3.5.2.4 IoT Mediation and Orchestration Roadmap
3.6 Market Outlook for IoT Data Analytics
3.6.1 IoT Data Management is a Ubiquitous Opportunity across Enterprise
3.6.2 IoT Data becomes a Big Revenue Opportunity by 2021
3.6.3 Organizations increasing Adopt Predictive Analytics with IoT Data
3.6.4 Real-time Streaming IoT Data Analytics becoming a Substantial Business Opportunity
3.6.5 Intelligent Strategy and Smart Investment in IoT Data Analytics
3.6.6 IoT Data to Produce Substantial Operational Savings and Generate New Business

+44 20 8123 2220
info@marketpublishers.com

3.6.7 Tools Designed Specifically for IoT Data Management and Analytics
3.6.8 IoT Data Management and Analytics Roadmap 2016 to 2025
3.6.8.1 IoT Data Landscape from 2016 to 2018
3.6.8.2 IoT Data Landscape from 2019 to 2020
3.6.8.3 IoT Data Landscape from 2021 to 2025

4 IOT DATA PLATFORM PROVIDERS

4.1 Amdocs
4.2 AppCarousel
4.3 City Data Exchange
4.4 Horadata
4.5 Interdigital
4.6 RedKnee
4.7 Terbine
4.8 Tilepay

5 TECHNOLOGIES ENABLING IOT DATA

5.1 Present Technologies are Not Suitable for IoT Data
5.1.1 Enhanced Tools needed for Machine Generated Data in IoT
5.1.2 Advantages and Limitations of Hadoop in IoT Data
5.2 Technologies Specially Developed for IoT Data
5.2.1 Emerging Unified Logging Layer Approach
5.2.2 Will JSON be Most Adopted Data Format for IoT Devices?
5.2.3 Leading IoT Protocols
5.2.3.1 OASIS MQTT Ver. 3.1.1 Emerging as Fundamental Enabler for IoT Applications
5.2.3.2 XMPP Increases its Suitability for IoT
5.2.3.3 AMQP Provides Rich Capabilities for Distributed Systems
5.2.3.4 DDS enables IoT Network Interoperability
5.2.4 Analytics Platforms and Cloud based Data Storage for IoT Data
5.2.4.1 AGT offers IoTA a Cloud based Analytics Platform for IoT
5.2.4.2 AT&T's M2X: Cloud-based Data Storage Service and Management Toolset
5.2.4.3 Bosch IoT Suit 2. offers BDP for IoT Data Analysis
5.2.4.4 Cisco IOX Framework and Fog Computing: Compute and Analyze Data at the Edge
5.2.4.5 GE Software Launched 24 Predictivity Solutions and GE Predix Platform
5.2.4.6 Intel Provides Cloud based Analytics System for IoT

+44 20 8123 2220
info@marketpublishers.com

5.2.4.7 MongoDB released Ver. 3.3.11 Database System
5.2.4.8 ParStream (Cisco) New Version of Analytics Platform
5.2.4.9 Connext DDS Comprehensive Messaging Platform

6 GLOBAL IOT DATA MARKET ANALYSIS AND FORECASTS 2016 - 2021

6.1 IoT Data Market Outlook
6.1.1 Analytics for IoT Applications
6.1.2 IoT Data Processing and Analysis Pilots to Predominate through 2018
6.2 Market Outlook and Forecasts for IoT Data 2016 – 2021
6.2.1 Full Fledged Deployments to Accelerate from 3Q 2018 through 2021
6.3 Investment in IoT Data 2016 - 2021
6.3.1 IoT Data by Region 2016 – 2021
6.3.2 IoT Data Analytics Services
6.3.3 IoT Data Products 2016 - 2021
6.3.3.1 High Demand for Platforms Providing Full Stack IoT Data Functionality through 2021
6.3.3.2 Single Product Platforms for IoT Data poised for Rapid Growth
6.3.3.2.1 Deployment of Data Collection Solutions 2016 - 2021
6.3.3.2.2 Deployment of Data Storage 2016 - 2021
6.3.3.2.3 Deployment of Data Analytics 2016 - 2021
6.3.3.3 IoT Data Management Support Software a Major Growth Opportunity Area
6.3.4 Cloud vs. On-Premise IoT Data Platform Deployment 2016 - 2021
6.3.5 Streaming IoT Data Analytics Revenue 2016 – 2021
6.3.5.1 Global Streaming Data Analytics Revenue for IoT
6.3.5.1 Global Streaming IoT Data Analytics Revenue by App, Software, and Services
6.3.5.1 Global Streaming IoT Data Analytics Revenue in Industry Verticals
6.3.5.1.1 Streaming IoT Data Analytics Revenue in Retail
6.3.5.1.1 Streaming IoT Data Analytics Revenue in Telecom and IT
6.3.5.1.1 Streaming IoT Data Analytics Revenue in Energy and Utility
6.3.5.1.1 Streaming IoT Data Analytics Revenue in Government
6.3.5.1.1 Streaming IoT Data Analytics Revenue in Healthcare and Life Science
6.3.5.1.1 Streaming IoT Data Analytics Revenue in Manufacturing
6.3.5.1.1 Streaming IoT Data Analytics Revenue in Transportation & Logistics
6.3.5.1.1 Streaming IoT Data Analytics Revenue in Banking and Finance
6.3.5.1.1 Streaming IoT Data Analytics Revenue in Smart Cities
6.3.5.1.1 Streaming IoT Data Analytics Revenue in Automotive
6.3.5.1.1 Streaming IoT Data Analytics Revenue in Education

+44 20 8123 2220
info@marketpublishers.com

6.3.5.1.1 Streaming IoT Data Analytics Revenue in Outsourcing Services
6.3.5.1 Streaming IoT Data Analytics Revenue by Leading Vendor Platform
6.3.6 Global Investment in IoT Data by Industry Sector 2016 – 2021
6.3.6.1 Healthcare Sector IoT Data Investment 2016 - 2021
6.3.6.2 Substantial Revenue Potential for Retail Sector in Monetizing IoT Data
6.3.6.3 Healthy Growth in Manufacturing Sector due to Industrial Automation and IoT Data
6.3.6.4 Investments by HVAC Industry in IoT 2016 – 2021
6.3.6.5 Investments by Oil & Cargo Industry in IoT 2016 – 2021
6.3.6.6 Investments in IoT Data by Transport & Cargo Industry in IoT 2016 – 2021
6.3.6.7 Investments in IoT Data by Utility Industry in IoT 2016 – 2021
6.3.7 IoT Data as a Service Prospects through 2021
6.4 IoT Data Infrastructure ROI Assessment
6.4.1 Factors Determining ROI for IoT
6.4.2 ROI for IoT Investments by Industrial Sector
6.4.2.1 ROI Assessment for IoT Data in the Retail Sector
6.4.2.2 ROI Assessment for IoT Data in the Healthcare Sector

7 VENDOR ANALYSIS

7.1 Key Vendor Trends in IoT Data
7.2 Large Companies to Lead through M&A and Partnerships
7.2.1 Early Beneficiaries: Established Companies in Analytics and Cloud Services
7.2.2 Flexible and Scalable Revenue Model will be Most Successful
7.3 Select Company Analysis
7.3.1 Accenture
7.3.2 AGT International
7.3.3 Bosch Software Innovations
7.3.4 Capgemini
7.3.5 Cisco Systems, Inc.
7.3.6 GE Digital
7.3.7 Google
7.3.8 Intel Corporation
7.3.9 Lynx Software Technologies, Inc.
7.3.10 Maana, Inc.
7.3.11 Microsoft Corporation
7.3.12 MongoDB Inc.
7.3.13 ParStream (ParStream Cisco)
7.3.14 PTC

+44 20 8123 2220
info@marketpublishers.com

7.3.15 RIOT
7.3.16 SAP SE
7.3.17 SQLstream, Inc.
7.3.18 Tellient
7.3.19 Teradata Corporation
7.3.20 Wind River

8 CONCLUSIONS AND RECOMMENDATIONS

9 APPENDIX

9.1 Regional Streaming IoT Data Analytics Revenue 2016 – 2021
9.1.1 Revenue in Region
9.1.2 APAC Market Revenue
9.1.3 Europe Market Revenue
9.1.4 North America Market Revenue
9.1.5 Latin America Market Revenue
9.1.6 ME&A Market Revenue
9.2 Streaming IoT Data Analytics Revenue by Country 2016 – 2021
9.2.1 Revenue by APAC Countries
9.2.1.1 Leading Countries
9.2.1.2 Japan Market Revenue
9.2.1.3 China Market Revenue
9.2.1.4 India Market Revenue
9.2.1.5 Australia Market Revenue
9.2.2 Revenue by Europe Countries
9.2.2.1 Leading Countries
9.2.2.2 Germany Market Revenue
9.2.2.3 UK Market Revenue
9.2.2.4 France Market Revenue
9.2.3 Revenue by North America Countries
9.2.3.1 Leading Countries
9.2.3.2 US Market Revenue
9.2.3.3 Canada Market Revenue
9.2.4 Revenue by Latin America Countries
9.2.4.1 Leading Countries
9.2.4.2 Brazil Market Revenue
9.2.4.3 Mexico Market Revenue
9.2.5 Revenue by ME&A Countries

+44 20 8123 2220
info@marketpublishers.com

9.2.5.1 Leading Countries
9.2.5.2 South Africa Market Revenue
9.2.5.3 UAE Market Revenue

LIST OF FIGURES

Figure 1: IT and OT IoT Data Merge
Figure 2: IoT Data Strategy impacts Architecture
Figure 3: A Vision of IoT Data by 2021
Figure 4: IoT Data vs. Non-IoT Unstructured Data
Figure 5: IoT Data Processing Flow
Figure 6: Distributed IoT Data Architecture
Figure 7: IoT Data Not Stored Only
Figure 8: Real-time IoT Data Management and Analytics
Figure 9: APIs enable IoT Data Access and Exchange
Figure 10: Security in IoT Data Architecture
Figure 11: IoT Data Care of Custody
Figure 12: Direct vs. Indirect IoT Data Monetization
Figure 13: Internal vs. External IoT Data Monetization
Figure 14: Merging IoT Data Sources – Hybrid Data
Figure 15: IoT Data Exchange Marketplace
Figure 16: IoT Mediation Architecture
Figure 17: IoT Identity Database Functionality
Figure 18: IoT Permissions Database
Figure 19: IoT Permissions Hierarchy
Figure 20: IoT Device Discovery and Alerting
Figure 21: IoT Device Discovery Dashboard
Figure 22: Smartphone Alert of Blocked IoT Connection Attempt
Figure 23: Smart Watch Alert of Blocked IoT Connection Attempt
Figure 24: IoT Mediation and Virtual Control of Real Objects
Figure 25: IoT Mediation in Industry Verticals
Figure 26: Phase One: Limited IoT Data Sharing without Formalized Mediation
Figure 27: Phase Two: IoT Data Sharing between Limited Industries
Figure 28: Phase Three: Broadly shared IoT Data across Industries and between Competitors
Figure 29: Inclusion of Predictive Models in Streaming IoT Data Analytics
Figure 30: Streaming IoT Data Sources Compared
Figure 31: Comparison of IoT Data Analytics Investment Focus
Figure 32: IoT Data Analytics Technology and Tool Choice in Enterprise

+44 20 8123 2220
info@marketpublishers.com

Figure 33: IoT Data Operational Savings and New Revenue Opportunities
Figure 34: IoT Data Management and Analytics Roadmap 2016 to 2025
Figure 35: IoT Data Platform Functions
Figure 36: IoT Data Market 2016 – 2021
Figure 37: Regional Investment in IoT Data 2016 – 2021
Figure 38: Investment in IoT Data Products by Segment 2016 – 2021
Figure 39: Investment in Full Stack Platforms for IoT Data 2016 - 2021
Figure 40: Investment in Single Product Platforms for IoT Data 2016 - 2021
Figure 41: Investment in Data Collection Solutions 2016 – 2021
Figure 42: Regional Investment in Data Collection Solutions 2016 – 2021
Figure 43: Data Storage Solutions 2016 – 2021
Figure 44: Regional Investment in Data Storage Solutions 2016 – 2021
Figure 45: Investment in Data Analytics Solutions 2016 – 2021
Figure 46: Regional Investment in Data Storage Solutions 2016 – 2021
Figure 47: Investment in Supporting Software 2016 – 2021
Figure 48: Investment in IoT Data by Deployment Model 2016 - 2021
Figure 49: Global Streaming IoT Data Analytics 2016 - 2021
Figure 50: Investment in IoT Data by Industry Vertical 2016 – 2021
Figure 51: Investment in IoT Data by Healthcare Industry 2016 – 2021
Figure 52: Regional Investment in IoT Data by Healthcare Industry 2016 – 2021
Figure 53: Investment in IoT Data by Retail Industry 2016 – 2021
Figure 54: Regional Investment in IoT Data by Retail Industry 2016 – 2021
Figure 55: Investments in IoT Data by Manufacturing Industry 2016 – 2021
Figure 56: Regional Investment in IoT Data by Manufacturing Industry 2016 – 2021
Figure 57: Investment in IoT Data by HVAC Industry 2016 – 2021
Figure 58: Regional Investment in IoT Data by HVAC Industry 2016 – 2021
Figure 59: Investment in IoT Data by Oil and Gas Industry 2016 – 2021
Figure 60: Regional Investment in IoT Data by Oil and Gas Industry 2016 – 2021
Figure 61: Investment in IoT Data by Transport and Cargo Industry 2016 – 2021
Figure 62: Regional Investment in IoT Data by Transport and Cargo Industry 2016 – 2021
Figure 63: Investment in IoT Data by Utility Industry 2016 – 2021
Figure 64: Regional Investment in IoT Data by Utility Industry 2016 – 2021
Figure 65: IoT Data-as-a-Service Market 2016 – 2021
Figure 66: IoT Data-as-a-Service Revenue by Region 2016 – 2021
Figure 67: IoT Data-as-a-Service Revenue by Industry Sector 2016 – 2021
Figure 68: Global ROI Assessment of IoT Data Investment 2016 – 2021
Figure 69: ROI Assessment of IoT Data Investment by Retail Sector 2016 – 2021
Figure 70: IoT Data Investment in Retail Sector by ROI Factors 2016 – 2021

+44 20 8123 2220
info@marketpublishers.com

Figure 71: ROI Assessment of IoT Data Investment by Healthcare Sector 2016 – 2021
Figure 72: IoT Data Investment in Healthcare Sector by ROI Factors 2016 – 2021
Figure 73: IoT Technology and Solutions Stack

LIST OF TABLES

Table 1: IoT Data Market 2016 – 2021
Table 2: Regional Investment in IoT Data 2016 – 2021
Table 3: Investment in IoT Data Products by Segment 2016 – 2021
Table 4: Investment in Full Stack Platforms for IoT Data
Table 5: Investment in Single Product Platforms for IoT Data 2016 - 2021
Table 6: Investment in Data Collection Solutions 2016 – 2021
Table 7: Regional Investment in Data Collection Solutions 2016 – 2021
Table 8: Investment in Data Storage Solutions 2016 – 2021
Table 9: Regional Investment in Data Storage Solutions 2016 – 2021
Table 10: Investment in Data Analytics Solutions 2016 – 2021
Table 11: Regional Investment in Data Analytics Solutions 2016 – 2021
Table 12: Investment in Supporting Software 2016 – 2021
Table 13: Investment in IoT Data by Deployment Model 2016 - 2021
Table 14: Global Streaming IoT Data Analytics Revenue by App, Software, and Service 2016 - 2021
Table 15: Global Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021
Table 16: Retail Streaming IoT Data Analytics Revenue by Retail Segment 2016 - 2021
Table 17: Retail Streaming IoT Data Analytics Revenue by App, Software, and Services 2016 – 2021
Table 18: Telecom & IT Streaming IoT Data Analytics Rev by Segment 2016 – 2021
Table 19: Telecom & IT Streaming IoT Data Analytics Rev by App, Software, and Services 2016 – 2021
Table 20: Energy & Utilities Streaming IoT Data Analytics Rev by Segment 2016 – 2021
Table 21: Energy & Utilities Streaming IoT Data Analytics Rev by App, Software, and Services 2016 – 2021
Table 22: Government Streaming IoT Data Analytics Revenue by Segment 2016 – 2021
Table 23: Government Streaming IoT Data Analytics Revenue by App, Software, and Services 2016 – 2021
Table 24: Healthcare & Life Science Streaming IoT Data Analytics Revenue by Segment 2016 – 2021
Table 25: Healthcare & Life Science Streaming IoT Data Analytics Revenue by App, Software, and Services 2016 – 2021

+44 20 8123 2220
info@marketpublishers.com

Table 26: Manufacturing Streaming IoT Data Analytics Revenue by Segment 2016 – 2021
Table 27: Manufacturing Streaming IoT Data Analytics Revenue by App, Software, and Services 2016 – 2021
Table 28: Transportation & Logistics Streaming IoT Data Analytics Revenue by Segment 2016 – 2021
Table 29: Transportation & Logistics Streaming IoT Data Analytics Revenue by App, Software, and Services 2016 – 2021
Table 30: Banking and Finance Streaming IoT Data Analytics Revenue by Segment 2016 – 2021
Table 31: Banking & Finance Streaming IoT Data Analytics Revenue by App, Software, and Services 2016 – 2021
Table 32: Smart Cities Streaming IoT Data Analytics Revenue by Segment 2016 – 2021
Table 33: Smart Cities Streaming IoT Data Analytics Revenue by App, Software, and Services 2016 – 2021
Table 34: Automotive Streaming IoT Data Analytics Revenue by Segment 2016 – 2021
Table 35: Automotive Streaming IoT Data Analytics Revenue by Apps, Software, and Services 2016 – 2021
Table 36: Education Streaming IoT Data Analytics Revenue by Segment 2016 – 2021
Table 37: Education Streaming IoT Data Analytics Revenue by App, Software, and Services 2016 – 2021
Table 38: Outsourcing Service Streaming IoT Data Analytics Revenue by Segment 2016 – 2021
Table 39: Outsourcing Service Streaming IoT Data Analytics Revenue by App, Software, and Services 2016 – 2021
Table 40: Streaming IoT Data Analytics Revenue by Leading Vendor Platforms 2016 – 2021
Table 41: Investment in IoT Data by Industry Vertical 2016 – 2021
Table 42: Investment in IoT Data by Healthcare Industry 2016 – 2021
Table 43: Regional Investment in IoT Data by Healthcare Industry 2016 – 2021
Table 44: Investments in IoT Data by Retail Industry 2016 – 2021
Table 45: Regional Investment in IoT Data by Retail Industry 2016 – 2021
Table 46: IoT Data by Manufacturing Industry 2016 – 2021
Table 47: Regional Investment in IoT Data by Manufacturing Industry 2016 – 2021
Table 48: Investments in IoT Data by HVAC Industry 2016 – 2021
Table 49: Regional Investment in IoT Data by HVAC Industry 2016 – 2021
Table 50: Investments in IoT Data by Oil and Gas Industry 2016 – 2021
Table 51: Regional Investment in IoT Data by Oil and Gas Industry 2016 – 2021
Table 52: Investment in IoT Data by Transport and Cargo Industry 2016 – 2021

+44 20 8123 2220
info@marketpublishers.com

Table 53: Regional Investment in IoT Data by Transport and Cargo Industry 2016 – 2021
Table 54: Investment in IoT Data by Utility Industry 2016 – 2021
Table 55: Regional Investment in IoT Data by Utility Industry 2016 – 2021
Table 56: IoT Data as a Service Market 2016 – 2021
Table 57: IoT Data as a Service Revenue by Region 2016 – 2021
Table 58: IoT Data as a Service Revenue by Industry Vertical 2016 – 2021
Table 59: Global RoI Assessment of IoT Data Investment 2016 – 2021
Table 60: ROI Assessment of IoT Data Investment by Industry Sector 2016 – 2021
Table 61: ROI Assessment of IoT Data Investment by Retail Sector 2016 – 2021
Table 62: IoT Data Investment in Retail Sector by ROI Factors 2016 – 2021
Table 63: ROI Assessment of IoT Data Investment by Healthcare Sector 2016 – 2021
Table 64: IoT Data Investment in Healthcare Sector by ROI Factors 2016 – 2021
Table 65: Streaming IoT Data Analytics Revenue in Region 2016 – 2021
Table 66: APAC Streaming IoT Data Analytics Revenue by Solution and Services 2016 - 2021
Table 67: APAC Streaming IoT Data Analytics Revenue in Industry Vertical 2016 - 2021
Table 68: APAC Streaming IoT Data Analytics Revenue by Leading Vendor Platforms 2016 – 2021
Table 69: Europe Streaming IoT Data Analytics Revenue by Solution and Services 2016 - 2021
Table 70: Europe Streaming IoT Data Analytics Revenue in Industry Vertical 2016 - 2021
Table 71: Europe Streaming IoT Data Analytics Revenue by Leading Vendor Platforms 2016 - 2021
Table 72: North America Streaming IoT Data Analytics Revenue by Solution and Services 2016 - 2021
Table 73: North America Streaming IoT Data Analytics Revenue in Industry Vertical 2016 - 2021
Table 74: North America Streaming IoT Data Analytics Revenue by Leading Vendor Platforms 2016 - 2021
Table 75: Latin America Streaming IoT Data Analytics Revenue by Solution and Services 2016 - 2021
Table 76: Latin America Streaming IoT Data Analytics Revenue in Industry Vertical 2016 - 2021
Table 77: Latin America Streaming IoT Data Analytics Revenue by Leading Vendor Platforms 2016 – 2021
Table 78: ME&A Streaming IoT Data Analytics Revenue by Solution and Services 2016 - 2021

+44 20 8123 2220
info@marketpublishers.com

Table 79: ME&A Streaming IoT Data Analytics Revenue in Industry Vertical 2016 - 2021
Table 80: ME&A Streaming IoT Data Analytics Revenue by Leading Vendor Platforms 2016 - 2021
Table 81: Streaming IoT Data Analytics Revenue by APAC Countries 2016 – 2021
Table 82: Japan Streaming IoT Data Analytics Revenue by Solution and Services 2016 – 2021
Table 83: Japan Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021
Table 84: China Streaming IoT Data Analytics Revenue by Solution and Services 2016 – 2021
Table 85: China Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021
Table 86: India Streaming IoT Data Analytics Revenue by Solution and Services 2016 – 2021
Table 87: India Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021
Table 88: Australia Streaming IoT Data Analytics Revenue by Solution and Services 2016 – 2021
Table 89: Australia Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021
Table 90: Streaming IoT Data Analytics Revenue by Europe Countries 2016 – 2021
Table 91: Germany Streaming IoT Data Analytics Revenue by Solution and Services 2016 – 2021
Table 92: Germany Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021
Table 93: UK Streaming IoT Data Analytics Revenue by Solution and Services 2016 – 2021
Table 94: UK Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021
Table 95: France Streaming IoT Data Analytics Revenue by Solution and Services 2016 – 2021
Table 96: France Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021
Table 97: Streaming IoT Data Analytics Revenue by North America Countries 2016 – 2021
Table 98: US Streaming IoT Data Analytics Revenue by Solution and Services 2016 – 2021
Table 99: US Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021
Table 100: Canada Streaming IoT Data Analytics Revenue by Solution and Services 2016 – 2021
Table 101: Canada Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021
Table 102: Streaming IoT Data Analytics Revenue by Latin America Countries 2016 –

+44 20 8123 2220
info@marketpublishers.com

2021
Table 103: Brazil Streaming IoT Data Analytics Revenue by Solution and Services 2016 – 2021
Table 104: Brazil Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021
Table 105: Mexico Streaming IoT Data Analytics Revenue by Solution and Services 2016 – 2021
Table 106: Mexico Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021
Table 107: Streaming IoT Data Analytics Revenue by ME&A Countries 2016 – 2021
Table 108: South Africa Streaming IoT Data Analytics Revenue by Solution and Services 2016 – 2021
Table 109: South Africa Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021
Table 110: UAE Streaming IoT Data Analytics Revenue by Solution and Services 2016 – 2021
Table 111: UAE Streaming IoT Data Analytics Revenue in Industry Vertical 2016 – 2021

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: IoT Platforms, Data Management, and Analytics 2016 - 2021
Product link: https://marketpublishers.com/r/IDE1915C8B4EN.html
Price: US$ 1,995.00 (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/IDE1915C8B4EN.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

Custumer 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