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Mission Critical Messaging and Open Source Streaming: Market Shares, Strategies, and Forecasts, 2017 to 2023

https://marketpublishers.com/r/MB03547585CEN.html
Date: April 2017
Pages: 664
Price: US$ 4,200.00 (Single User License)
ID: MB03547585CEN

Abstracts

Growth is based on implementation of streaming mobile smart phone network connectivity, tablet use for mobile computing, Internet apps, cloud computing, SOA, and business process management systems (BPM) that support collaboration. SOA process API components support enterprise innovation and change.

Software forms the basis of change. Software API streaming message development tools drive innovation. Mission critical messaging is a key aspect of those aspects of web process making IT flexible and adaptable.

Open source carves a place in mission critical messaging with flavors of MQ providing foundation for cloud and mobile. The move to accelerate replacements for once and only once automated delivery process for the line of business is being achieved, built into new types of cloud data centers. Streaming messaging is being used to implement stock ticker info, og management, web site management, and data management inside cloud systems that stretch the boundaries of the enterprise.

Messaging is used to reach to all parts of the data center and to user endpoints. Marketing departments use messaging to target smartphones and tablets.

Messaging is fundamental to the ability to launch APIs anywhere. Systems of engagement are dependent on implementing management decentralization and supporting user empowerment leveraging messaging. Mission critical messaging forms the base for SOA, the base for IoT, for business intelligence (BI), and for analytics systems.

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Not much new has come along in the middleware messaging broker market since MQ Series made its debut at the Chicago Merc Exchange many years ago. Then the need to provide reliable messaging in a manner that worked was an industry breakthrough and IBM has ridden the wave ever since.

Now, the new kid on the block is Kafka Streams API that is able to deal with scale in a manner that MQ cannot begin to approach. Scale is everything in the era of Clos architecture of the data center and optical transceivers for inside the data center. Data moves at the speed of light around the network inside the data center so scale is important.

The charter of mission critical messaging has shifted from manually interconnected APIs using some software to install them to automated API process managed by orchestration. While much of the manual process is left in place, it is fast being replaced in more modern companies.

This does not diminish the value of IBM WebSphere MQ, once and only once asynchronous processing is still a requirement for transaction processing, but these days there is a lot of data moving around the data center that is not transaction intensive. Tibco pioneered the Rendezvous publish subscribe messaging suite that has been so successful in providing stock ticker information in a stream.

Publish subscribe messaging models are not dependent on once and only once message delivery. This stock data comes in a stream. If one stock price gets dropped for some reason, it is simply displayed the next time it comes up.

A financial transaction is not that way. If it gets counted twice, or gets missed, this is not a good system, but much messaging can work in a publish subscribe mode where 100% accuracy is not an issue. Smart phones and tablets change the markets for IT systems implementation, increasing the need for mission critical decoupled messaging so that apps can interconnect automatically, bringing data to the desired compute node.

“The communication of data is a demanding task. There is trouble if a sent message does not get through or contra-wise if a message that is sent goes through twice. When there is a person on one or both sides of the message sending, human intelligence is able to deal with the problem if the message does not get sent, or if it gets sent twice, but for a machine to machine communication, the anticipation of difficulty has to be built into the system.”

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The market for Middleware Messaging and Open Source Streaming sector at $8.2 billion in 2016 is expected to be worth $11.5 billion by 2023. Growth is based on implementation of streaming mobile smart phone network connectivity, tablet use for mobile computing, Internet apps, cloud computing, SOA, and business process management systems (BPM) that support collaboration. SOA process API components support enterprise innovation and change. Software forms the basis of change. Software API streaming message development tools drive innovation. Mission critical messaging is a key aspect of those aspects of web process making IT flexible and adaptable.

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Contents

MISSION CRITICAL MESSAGING AND OPEN SOURCE STREAMING: MARKET SHARES, STRATEGIES, AND FORECASTS, 2017 TO 2023

Mission Critical Messaging Middleware Executive Summary
Mission Critical is Decoupled Messaging
Superior Application Middleware Delivers Enterprise Agility
With IoT, APIs Are Used for Everything
Web Transactions Implemented by IBM Blockchain
IBM Blockchain Interactions
IBM Use Cases for IoT and Blockchain
Mission Critical Messaging Market Shares
Mission Critical Messaging Market Forecasts

1. MISSION CRITICAL MESSAGING AND STREAMING MARKET DEFINITION

1.1 Mission Critical Kafka API Streaming
1.2 Apache Kafka Distributed Streaming Platform
  1.2.1 Stream Processing
  1.2.2 Apache Event Sourcing
1.3 Private Cloud Computing Model
  1.3.1 IBM WebSphere SOA Open Systems Cloud Foundation
  1.3.2 IBM SOA Foundation
1.4 Mission Critical Messaging Products
  1.4.1 Mission Critical Middleware Messaging
1.5 Mission Critical Messaging As A Base For Services Oriented Architecture (SOA)
1.6 Mission Critical Messaging As A Base For Secure Application Integration
  1.6.1 IBM WebSphere MQ
1.7 OASIS Secure, Reliable Transaction Web Services Messaging Architecture
  1.7.1 Reliable Message-Based Web Services Communication
1.8 Mission Critical Middleware Messaging Open Connectivity
  1.8.1 Messaging Solutions
1.9 Message Trends
1.10 Mission Critical Messaging Market Dynamics
1.11 SOA Governance Lifecycle
  1.11.1 Cloud Model For Consuming And Delivering Business And IT Services
  1.11.2 Cloud Computing
  1.11.3 Google Clos Networks

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1.11.4 Microsoft Cloud Business Model: Private Cloud - Unlimited Virtualization Rights

2. MISSION CRITICAL MESSAGING AND STREAMING MARKET SHARES AND MARKET FORECASTS

2.1 Mission Critical is Decoupled Messaging
2.1.1 Superior Application Middleware Delivers Enterprise Agility
2.1.2 With IoT, APIs Are Used for Everything
2.1.3 Web Transactions Implemented by IBM Blockchain
2.1.4 IBM Blockchain Interactions
2.1.5 IBM Use Cases for IoT and Blockchain
2.2 Mission Critical Messaging Market Shares
2.2.1 IBM WebSphere MQ
2.2.2 .NET MSMQ from Microsoft
2.2.3 Tibco Transport Layer
2.2.4 Fiorano Enterprise Messaging Backbone
2.2.5 FioranoMQ JMS Server
2.2.6 Micro Focus
2.2.7 Open Text / GSX
2.2.8 Apache Kafka Usage at Linked IN
2.2.9 Confluent
2.3 Mission Critical Messaging Market Forecasts
2.3.1 Worldwide Mission Critical Messaging Unit Shipments Analysis
2.3.2 Cloud 2.0 Mega Data Center Evolution
2.3.3 Worldwide Mission Critical Messaging Unit Shipments
2.3.4 Typical Providers of Industrial IoT Asset Efficiency Solutions
2.3.5 Hitachi Analytics Diagnoses Manufacturing Leveraging Messaging Middleware
2.3.6 SOA Integration Of E-Business
2.3.7 Market Driving Forces For Real Time Exchange of Information
2.3.8 Containers Hold Real Promise For Application Integration
2.3.9 Mission Critical Messaging Growth Factors
2.3.10 Backbone Connectivity Across All Platforms with Open Systems
2.3.11 Financial Services and Messaging Applications
2.3.12 NET Microsoft Web Services
2.3.13 Publish Subscribe Messaging
2.3.14 JMS Messaging
2.3.15 SCADA Messaging
2.3.16 Open Systems Backbone Connectivity Across Platforms / Messaging Integrated Across Microsoft

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info@marketpublishers.com

2.3.18 Open Source Distributed Messaging System Description
2.4 Mission Critical Messaging Regional Analysis

3. MIDDLEWARE MESSAGING AND API STREAMING MESSAGING PRODUCT DESCRIPTION

3.1 Apache Kafka
3.2 Kafka Streams API
3.2.1 Kafka Streams API included with Apache Kafka and Confluent Enterprise
3.3 Confluent Kafka
3.3.1 Kafka Streams API Continuous Queries Used To Automate Real-Time Intelligence At Scale
3.3.2 Kafka Streams API Flow Of Data In Real-Time Streams
3.4 Storm
3.4.1 Storm Distributed Messaging System
3.4.2 Storm Publish-Subscribe Model
3.4.3 Storm Messaging System
3.5 Samza
3.6 Flink
3.6.1 Flink Streaming Partitioning
3.7 Cisco Spark Messaging
3.7.1 Cisco Spark End-to-End Encryption Of Content
3.7.2 Cisco Spark Encryption in Transit
3.7.3 Cisco Spark Authorization and Authentication
3.7.4 Cisco Spark Hybrid Data Security
3.7.5 Cisco IoT
3.8 AWS Kinesis
3.8.1 Amazon Kinesis Analytics Product Details
3.8.2 Amazon Kinesis Firehose Near Real-Time
3.9 Apache Kafka
3.10 Cloud Based Application Integration
3.10.1 Data Center Architectures Evolving
3.11 IBM Mission Critical Broker and Streaming Messaging Middleware
3.11.1 IBM WebSphere Streams
3.11.2 IBM MQ
3.11.3 IBM WebSphere MQ
3.11.4 IBM IT Strategy and Design for Middleware
3.11.5 IBM Middleware Key Enabler For Integration And Interoperability
3.11.6 IBM WebSphere MQ Assured Delivery Functions

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info@marketpublishers.com

3.11.7 IBM WebSphere MQ
3.11.8 IBM WebSphere MQ Telemetry Capabilities
3.11.9 IBM WebSphere MQ Integration File Transfer Business Value
3.11.10 IBM WebSphere MQ Clustering
3.11.11 IBM WebSphere MQ Hardware Cluster May Be Set Up In An Active-Passive Mode Or An Active-Active Mode
3.11.12 IBM WebSphere MQ Supports Clustering Through Split Cluster Transmit Queues
3.11.13 IBM WebSphere MQ End-To-End Security
3.11.14 IBM IoT Blockchain Distributed Replication
3.11.15 Web Transactions Implemented by IBM Blockchain
3.11.16 IBM Blockchain Interactions
3.12 Microsoft Cloud
3.12.1 Microsoft Middleware
3.12.2 Microsoft Windows Server AppFabric
3.12.3 Microsoft Azure
3.12.4 Microsoft BizTalk Server
3.12.5 Microsoft.NET Framework Time-to-Market
3.12.6 Microsoft .NET Framework Performance and User Experience
3.12.7 Microsoft.NET Framework Developer Skills and Productivity
3.12.8 Microsoft Visual Studio and .NET
3.13 Tibco
3.13.1 Tibco FTL
3.13.2 Tibco e-FTL Messaging Middleware
3.13.3 Tibco Enterprise Message Service
3.13.4 Tibco Enterprise-Class Messaging Performance
3.13.5 Tibco Reliable, Persistent Messaging
3.13.6 Tibco Rendezvous Publish Subscribe Messaging
3.13.7 Tibco Web Messaging
3.13.8 Tibco Messaging Backbone
3.14 Fiorano API Management
3.14.1 FioranoMQ
3.14.2 FioranoMQ JMS Server
3.14.3 FioranoMQ JMS Server Business Benefits
3.14.4 FioranoMQ JMS Server High Performance
3.14.5 FioranoMQ JMS Server Tight Security
3.15 Software AG webMethods Integration
3.15.1 Software AG Enterprise Service Bus
3.15.2 Software AG Enterprise-Class Messaging Backbone

+44 20 8123 2220
info@marketpublishers.com

3.15.3 Software AG webMethods Broker Maximum Messaging Performance
3.15.4 Software AG webMethods Broker Support for Different Messaging Styles
3.15.5 Software AG webMethods Broker Policy-Based Clustering
3.16 Oracle
3.16.1 Oracle Mobile Platform
3.16.2 Oracle Fusion Message Oriented Middleware
3.16.3 Oracle Message Oriented Middleware (MOM)-Based System Asynchronous Exchange Of Messages
3.16.4 Oracle Disadvantages Of Message Loose Coupling
3.16.5 Oracle Message Oriented Middleware
3.16.6 Oracle GlassFish Server
3.16.7 Oracle Business-to-Business Integration
3.16.8 Oracle - WebLogic Suite
3.17 Information Builders WebFOCUS
3.17.1 Information Builders / iWay Middleware Software
3.17.2 iWay Enterprise Integration Middleware
3.17.3 iWay Network Computing
3.17.4 Information Builders iWay EDA for Networked Computing
3.17.5 Information Builders iWay Java for Web-Enterprise Convergence
3.17.6 Information Builders / iWay Middleware Provides The Plumbing
3.17.7 Information Builders/iWay SOA, EDA, and ESB Middleware Solutions
3.18 Fujitsu Software Symfoware
3.18.1 Systemwalker - Integrated Operation Management
3.18.2 Fujitsu openFT-Enterprise File Transfer
3.18.3 Fujitsu openFT-Enterprise File Transfer Achieve Security Level 1
3.18.4 Fujitsu Glovia
3.19 Bosch
3.19.1 Bosch IoT Suite Services - Internet of Things Scenarios
3.19.2 Bosch Vision for the Internet of Things (IoT)
3.20 Aurea Software
3.21 Workday Cloud Platform
3.21.1 Workday Partnership with Microsoft Leverages Systems Integration
3.21.2 Cloud Orchestration Platform Used for Integrations To And From Workday
3.21.3 Workday Integration Cloud Platform Enterprise-Class ESB Grid
3.22 Solace Systems's Messaging Solution
3.22.1 Solace Enterprise Messaging
3.22.2 Solace Systems Qualities Of Service
3.22.3 Solace's Unicast Advantage
3.22.4 Solace Systems 3200 Series Messaging Appliances

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info@marketpublishers.com

3.22.5 Solace Reliable Messaging
3.22.6 Solace Systems Software API Connects to a Messaging Appliance
3.22.7 Solace Systems Embedded Support For Point-To-Point ‘Unicast' Distribution
3.22.8 Solace Guaranteed Messaging
3.22.9 Solace Systems Redundant Architecture for HA, FT and DR (1 and 2)
3.22.10 Solace JMS Messaging
3.22.11 Solace Systems Non-Persistent Messaging
3.22.12 Solace Systems Persistent Messaging
3.22.13 Solace Systems Persistent and Non-Persistent on One Appliance
3.22.14 Solace IPC Shared Memory Messaging
3.23 Red Hat JBoss Enterprise Middleware Messaging
3.23.1 Red Hat Addresses Big Data, the Internet of Things (IoT), and Mobile
3.23.2 JBoss® Enterprise Middleware Messaging
3.23.3 Red Hat JBoss Customers
3.23.4 Red Hat AMQP Specification Messaging
3.24 Pivotal RabbitMQ
3.24.1 Pivotal RabbitMQ Clustering
3.25 UIB
3.26 Micro Focus CORBA
3.26.1 Micro Focus Artix
3.26.2 Micro Focus OpenFusion
3.26.3 Micro Focus Orbacus
3.26.4 Micro Focus Orbix
3.26.5 Micro Focus VisiBroker
3.26.6 Microfocus HPE NonStop Middleware and Java
3.26.7 Hewlett Packard Database and Middleware Automation
3.27 OpenText Content Middleware
3.27.1 OpenText Platform
3.27.2 OpenText Comprehensive Information Integration Platform
3.27.3 OpenText Comprehensive Information Integration Value
3.27.4 OpenText GSX B2B Integration Network
3.27.5 GSX Monitor
3.28 BMC Middleware Management
3.28.1 BMC BladeLogic Middleware Automation
3.28.2 BMC Improves Productivity For Release Process Documentation
3.28.3 BMC Middleware Administration
3.28.4 BMC Middleware Monitoring
3.28.5 BMC Application Transaction Tracing
3.29 Nastel AutoPilote

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info@marketpublishers.com

3.29.1 Nastel Middleware Monitoring and Management
3.30 NEC RFID Middleware Products
3.30.1 NEC RFID Middleware
3.30.2 NEC WebOTX RFID Manager Middleware
3.31 Rocket Software Janus Middleware
3.31.1 Rocket Software Encryption
3.31.2 Rocket Software Authentication
3.31.3 Rocket Software Efficiency
3.31.4 Rocket Software Running Secure Model 204 Web Servers
3.32 WSO2 Middleware Platform
3.32.1 WSO2 Message Broker
3.33 VMWare Virtualizing Oracle

4. MISSION CRITICAL MIDDLEWARE AND STREAMING MESSAGING TECHNOLOGY

4.1 Apache Kafka
4.1.1 Kafka Event-Driven Applications
4.1.2 Enterprise Publish Subscribe Messaging Enhancements
4.1.3 Kafka Streaming Data Integration Tools
4.1.4 Kafka Streaming Enterprise Service Bus
4.1.5 Kafka Streaming Enterprise Service Bus Change Capture Systems
4.1.6 Data Warehouses and Apache Hadoop
4.1.7 Kafka Stream Processing Systems
4.2 Mission Critical Messaging Communication Protocols
4.2.1 Mission Critical Messaging Middleware Transport Layer
4.2.2 IBM WebSphere MQ Publish / Subscribe Messaging
4.2.3 IBM WebSphere MQ Messaging Provider
4.2.4 WebSphere MQ Asynchronous Message Consumption
4.2.5 IBM WebSphere MQ Message Selection
4.2.6 IBM WebSphere MQ Sharing A Communications Connection
4.2.7 IBM WebSphere MQ Read Ahead On Client Connections
4.2.8 Sending IBM WebSphere MQ Messages
4.2.9 IBM WebSphere MQ Channel Exits
4.2.10 IBM WebSphere MQ Message Properties
4.3 Mission Critical Messaging As A Base For Services Oriented Architecture (SOA)
4.4 Mission Critical Messaging As A Base For Application Integration
4.4.1 IBM WebSphere MQ
4.5 Open Software Specification Messaging

+44 20 8123 2220
info@marketpublishers.com

4.5.1 Open Software Message Queuing Protocol Business Case
4.6 OASIS Secure, Reliable Transaction Web Services Messaging Architecture441
4.6.1 Reliable Message-Based Web Services Communication
4.7 Streams For Messaging and Data Access
4.8 Message Queuing
4.8.1 Database Message Queuing
4.8.2 Data and Message Transformation
4.9 Componentization
4.10 Speed, Flexibility, and Scalability
4.11 Mission Critical Message Throughput
4.11.1 Message Persistence
4.11.2 Message Size
4.11.3 Data Format
4.11.4 Message Flow Complexity
4.12 Message Input To Output Ratio
4.13 Required Message Rate
4.14 Parallel Message Processing
4.14.1 Serial Message Processing
4.14.2 Recovery Requirements
4.15 Typical Message Patterns
4.16 Processors Manage Specified Message Flows
4.17 Middleware Messaging Technology Issues
4.17.1 Report Messages Functions
4.17.2 Real-Time Technology Issues
4.17.3 MCA Exit Chaining
4.17.4 Remove Channel Process Definition
4.17.5 Improved Stop Channel Command
4.18 Secure Sockets Layer (SSL)
4.19 Dynamic Systems
4.20 Robust, Enterprise-Quality Fault Tolerance
4.20.1 Cache / Queue
4.21 Multicast
4.22 Performance Optimization
4.22.1 Fault Tolerance
4.22.2 Gateways

5. MISSION CRITICAL MIDDLEWARE MESSAGING COMPANY DESCRIPTION

5.1 360 Logica

+44 20 8123 2220
info@marketpublishers.com

5.1.1 360logica SOA Software Testing
5.1.2 360logica SOA Resources
5.1.3 360logica Software Testing Services
5.1.4 360logica Software Testing Company
5.2 ActiveMQ
5.3 Adobe
5.3.1 Adobe Creative Cloud
5.3.2 Adobe Digital Publishing Suite
5.3.3 5Adobe Photoshop
5.3.4 Adobe Acrobat
5.3.5 Adobe Edge Tools & Services
5.3.6 Adobe Digital Marketing
5.4 AgilePoint
5.5 Apache Flume
5.5.1 How ASF And Apache® Projects Grow
5.5.2 How the ASF and Apache Projects Are Governed
5.6 Appian
5.6.1 Appian Technology
5.7 Aurea
5.8 BigAgi
5.9 BizFlow
5.10 BonitaSoft
5.10.1 Bonita Open Source BPM Software
5.10.2 Bonita Open Source BPM Technology
5.10.3 Bonita Open Solution 5
5.11 CA Technologies
5.11.1 CA Revenue
5.11.2 CA / Layer 7
5.11.3 CA / Rally Software
5.11.4 CA / Rally Software Solutions for Organizations
5.12 Cisco Systems
5.12.1 Cisco Business
5.12.2 Strategy and Focus Areas
5.12.3 Cisco Leverages Market Transitions
5.12.4 Cisco Addresses Digital Transformation
5.12.5 Cisco Software-Defined Networking
5.12.6 Cisco Cloud Strategy
5.12.7 Cisco Switching
5.12.8 Cisco Spark

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info@marketpublishers.com

5.12.9 Cisco Data Center
5.12.10 Cisco UCS Mini Edge Of The Network Solution
5.12.11 Cisco Competition
5.12.12 Cisco Revenue
5.12.13 Cisco IoT
5.13 Confluent 514 5/10.1 Confluent's $50M for Open Source
5.13.1 Kafka / Redhat / Cloudera
5.1.1 Confluent Platform
5.1.2 Confluent Growth
5.14 Crosscheck Networks
5.14.1 Crosscheck Networks API Testing and API Simulation
5.15 Dell / VMWare
5.15.1 VMware Network Virtualization Enables User Self-Provisioning And VMWare Support
5.16 Elastic Stack Open Source
5.16.1 Elasticsearch Geo Data on Any Map
5.17 Fabasoft Group
5.18 Fiorano
5.18.1 Fiorano Leadership In Enterprise Middleware
5.18.2 Fiorano Customers Worldwide
5.19 Fujitsu
5.19.1 Fujitsu Revenue
5.19.2 Fujitsu Corporate Strategy
5.19.3 Fujitsu Interstage
5.19.4 Fujitsu Cloud Service
5.20 Hewlett Packard Enterprise HPE
5.20.1 Hewlett Packard HPE Revenue
5.20.2 HPE Software
5.20.3 Micro Focus Merger With The Software Business Segment of Hewlett Packard Enterprise (“HPE Software”)
5.21 HostBridge
5.22 IBM
5.22.1 IBM Strategy
5.22.2 IBM Capital Investment
5.22.3 IBM Business Segments And Capabilities
5.22.4 IBM Integrated Supply Chain
5.22.5 IBM Cloud Computing
5.22.6 SOA Digital Services
5.22.7 IBM Smarter Planet Strategy

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info@marketpublishers.com

5.22.8 IBM WebSphere SOA Software Capabilities
5.22.9 IBM Watson Solutions
5.22.10 IBM Software
5.22.11 IBM System Z Mainframe Software
5.22.12 IBM Revenue
5.22.13 IBM Cognitive Solutions
5.22.14 IBM Cloud Platform
5.23 Informatica
5.23.1 Informatica Master Data Management (MDM)
5.24 Information Builders / iWay Software
5.24.1 Information Builders / iWay Software
5.25 Intalio
5.26 Kofax
5.27 Managed Methods
5.27.1 Managed Methods Solutions
5.28 Mega
5.28.1 Mega Solutions
5.28.2 Mega Solutions Customers
5.29 Mendix
5.30 Microfocus
5.30.1 Microfocus / Attachmate / Novell
5.30.2 Micro Focus Merger with the Software Business Segment of Hewlett Packard Enterprise (“HPE Software”)
5.31 Microsoft SOA
5.31.1 Microsoft .Net SOA
5.31.2 Microsoft .Net Open Source
5.31.3 Microsoft .NET Framework
5.31.4 Microsoft Key Opportunities and Investments
5.31.5 Microsoft Smart Connected Devices
5.31.6 Microsoft: Cloud Computing Transforming The Data Center And Information Technology
5.31.7 Microsoft Entertainment
5.31.8 Microsoft Search
5.31.9 Microsoft Communications And Productivity
5.31.10 Microsoft Revenue
5.31.11 Microsoft Combines Managed Modules into Assemblies
5.25.12 Microsoft Architecture Dynamic Modular Processing
5.31.13 Microsoft Azure Cloud Switch
5.31.14 Microsoft Azure CTO Cloud Building

+44 20 8123 2220
info@marketpublishers.com

5.31.15 Microsoft Cloud 2.0 Mega Data Center Multi-Tenant Containers
5.31.16 Microsoft Managed Clustering and Container Management: Docker and Mesos
5.31.17 Kubernetes From Google or Mesos
5.31.18 Microsoft Second Generation Open Cloud Servers
5.31.19 Azure Active Directory
5.31.20 Microsoft Customers
5.32 Mulesoft
5.32.1 MuleSoft
5.33 Nastel Technologies
5.33.1 Nastel Privately Held Company
5.34 Newgen
5.35 OpenText
5.35.1 OpenText Actuate
5.35.2 Actuate Core Strengths
5.35.3 OpenText Target Markets
5.35.4 OpenText / Cordys
5.35.5 OpenText Acquisition of GXS Group
5.32.7 GSX
5.36 Oracle
5.36.1 Oracle Revenue
5.37 PegaSystems
5.37.1 Pega Exchange' for BPM and SOA-
5.38 Perficient
5.38.1 Perficient ProHealth Care Drives Population Health Management through Epic's Cogito Data Warehouse
5.39 Pivotal
5.39.1 Pivotal Comprehensive PaaS
5.39.2 Pivotal Speeds Time To Market
5.39.3 Pivotal / RabbitMQ
5.40 PNM Soft
5.41 Progress Software
5.42 Red Hat
5.42.1 Kafka / Redhat / Cloudera
5.43 SAP
5.43.1 SAP SOA Enterprise Applications
5.43.2 SAP Aligns Solutions With Innovation to Improve Production Process
5.43.3 SAP User Planned Updates
5.44 SOALIB

+44 20 8123 2220
info@marketpublishers.com

5.44.1 SOALIB and SOASYNC
5.45 Software AG
5.45.1 Software AG Revenue by Segment
5.45.2 Software AG
5.45.3 Software AG Buys Progress® Apama
5.46 Tibco Software
5.46.1 TIBCO Software Mashery Professional API Management Solution
5.46.2 Tibco Software Functionality Provided by the Tibco ActiveMatrix
5.46.3 Tibco Revenue
5.46.4 Tibco Software
5.46.5 Tibco
5.46.6 Tibco ActiveMatrix
5.46.7 Tibco Software Customers
5.46.8 Tibco Event-Enabled Enterprise Platform
5.46.9 Tibco Platform
5.46.10 Tibco SOA Development
5.46.11 Tibco Cloud Computing Environments
5.46.12 Tibco Software Acquires Maporama Solutions
5.46.13 Tibco / Maporama Solutions
5.46.14 Tibco Customer Interportpolice Deploys Tibbr As Global Collaboration Platform
5.46.15 Renaissance Capital / Tibco Big Data Opportunity
5.47 WSO2
5.47.1 WSO2 Products
5.47.2 WSO2 Open Source and Standards
5.47.3 SEERC Technology Research Center Uses WSO2 for Governance Registry
5.48 Messaging Middleware Companies

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List Of Figures

LIST OF FIGURES

Figure 1. Messaging Middleware Market Driving Forces
Figure 2. Middleware Messaging Market Factors
Figure 3. Web Transactions Implemented by IBM Blockchain
Figure 4. A Distributed IoT Shared Ledger Built On IBM Blockchain Offers Visibility, Trust, And Permanence
Figure 5. A Shared Ledger Built on Blockchain Offers Visibility, Trust, and Permanence
Figure 6. Blockchain Attributes Framework:
Figure 7. IBM Blockchain Interactions
Figure 8. Mission Critical Messaging and API Integration Streaming Tools Market Shares, Dollars, Worldwide, 2016
Figure 9. Mission Critical Middleware Messaging Forecasts Dollars, Worldwide, 2017-2023
Figure 10. Kafka API Streaming Functions
Figure 11. Kafka API Message Streaming Platform
Figure 12. Apache Kafka Distributed Streaming Platform Key Capabilities
Figure 13. Internet of Things (IoT) Market Driving Forces
Figure 14. Key Areas Of The IoT Market
Figure 15. Kafka Core APIs:
Figure 16. Kafka Cluster:
Figure 17. IBM SOA Foundation Business, Infrastructure, and Data Information Architecture
Figure 18. Mission Critical Messaging As A Base For SOA Software Used to Implement Process Flexibility
Figure 19. Mission Critical Messaging ESB Functions
Figure 20. Mission Critical Messaging As A Base For Integration Software Provides A Base For Application Connectivity
Figure 21. Mission Critical Messaging Integration Functions
Figure 22. Messaging Middleware Messaging Trends
Figure 23. Mission Critical Messaging Market Dynamics
Figure 24. IBM SOA Governance Lifecycle
Figure 25. Private Cloud Attributes
Figure 26. Private Cloud Computing Model Characteristics
Figure 27. Google Clos Multistage Switching Network
Figure 28. Messaging Middleware Market Driving Forces
Figure 29. Middleware Messaging Market Factors

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info@marketpublishers.com

Figure 30. Web Transactions Implemented by IBM Blockchain
Figure 31. A Distributed IoT Shared Ledger Built On IBM Blockchain Offers Visibility, Trust, And Permanence
Figure 32. A Shared Ledger Built on Blockchain Offers Visibility, Trust, and Permanence
Figure 33. Blockchain Attributes Framework:
Figure 34. IBM Blockchain Interactions
Figure 35. Mission Critical Messaging and API Integration Streaming Tools Market Shares, Dollars, Worldwide, 2016
Figure 36. Mission Critical Messaging and API Integration Streaming Tools Market Shares, Dollars, Worldwide, 2016
Figure 37. Confluent Kafka Ecosystem Of Data Pipelines And Topology
Figure 38. Mission Critical Middleware Messaging Forecasts Dollars, Worldwide, 2017-2023128
Figure 39. Middleware Messaging Market Totals, Dollars, Worldwide, 2017-2023
Figure 40. Mission Critical Messaging Market Segments Dollars and Units, Worldwide, 2017-2023
Figure 41. Market Driving Forces For Real Time Computing
Figure 42. Market Driving Forces For SOA
Figure 43. Mission Critical Messaging Growth Factors
Figure 44. Mission Critical Messaging Benefits
Figure 45. Messaging Middleware Market Components
Figure 46. Mission Critical Messaging Financial Services Applications
Figure 47. Mission Critical Messaging Security Aspects
Figure 48. Mission Critical Telecommunications Messaging Applications
Figure 49. Mission Critical Government Messaging Applications
Figure 50. Mission Critical Messaging and API Integration Streaming Tools Regional Markets, 2016
Figure 51. Mission Critical Messaging and API Integration Streaming Tools Regional Market Segments, 2016
Figure 52. Apache Kafka Distributed Messaging System Designed For Streams
Figure 53. Internet of Things (IoT) Applications Market Generating Log Messages
Figure 54. Kafka Request Response Enterprise Service Bus Application
Figure 55. Streams API in Kafka: The Power without the Weight
Figure 56. Streams API in Kafka Functions
Figure 57. Confluent Kafka Stream-Based Microservices
Figure 58. Confluent Kafka Supports Continuous Queries
Figure 59. Kafka Streams API Continuous Transformations
Figure 60. Kafka Streams API Event Triggered Processes
Figure 61. Kafka Streams API Apps and Services

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Figure 62. Kafka Streaming Platform Design
Figure 63. Cisco Spark Functions
Figure 64. Amazon Kinesis Firehose
Figure 65. Apache Kafka Enterprise Messaging Package
Figure 66. Cloud 2.0 Mega Data Center Market Driving Forces
Figure 67. IBM MQ Messaging Functions
Figure 68. IBM MQ Functions:
Figure 69. IBM MQ Tools and Resources:
Figure 70. IBM WebSphere MQ Functions:
Figure 71. IBM MQ Explorer Functions
Figure 72. IBM IT Strategy and Design for Middleware
Figure 73. IBM WebSphere MQ Versatile Messaging Integration From Mainframe To Mobile214
Figure 74. IBM WebSphere MQ Message Delivery With Security-Rich Features
Figure 75. IBM WebSphere MQ Message Transport
Figure 76. IBM WebSphere MQ Administrative Features
Figure 77. IBM WebSphere MQ Open Standards Development Tools
Figure 78. IBM WebSphere MQ Assured Delivery Benefits
Figure 79. IBM WebSphere MQ Time-Independent Processing
Figure 80. IBM WebSphere MQ Assured Delivery Functions
Figure 81. IBM WebSphere MQ WMQ providing a Universal Messaging Backbone
Figure 82. IBM WebSphere MQ Goals For Business Resilience in a Sysplex QSG (Queue Sharing Group)
Figure 83. IBM WebSphere MQ Telemetry Capabilities
Figure 84. IBM WebSphere MQ Integration Business Value
Figure 85. IBM WebSphere MQ Middleware Development Facilities
Figure 86. IBM WebSphere MQ Remote Network Administration And Configuration
Figure 87. IBM WebSphere MQ Clustering
Figure 88. IBM WebSphere MQ End-To-End Security
Figure 89. IBM WebSphere MQ Web Services
Figure 90. IBM WebSphere MQ Integration Supported Environments
Figure 91. Web Transactions Implemented by IBM Blockchain
Figure 92. A Distributed IoT Shared Ledger Built On IBM Blockchain Offers Visibility, Trust, And Permanence
Figure 93. A Shared Ledger Built on Blockchain Offers Visibility, Trust, and Permanence
Figure 94. Blockchain Attributes Framework:
Figure 95. IBM Blockchain Interactions
Figure 96. Microsoft Middleware Key Elements
Figure 97. Microsoft Middleware IT Pro Management Tools

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Figure 98. Microsoft Middleware Enterprise-Ready Platform
Figure 99. Microsoft Middleware Foundation Developer Frameworks
Figure 100. Microsoft Middleware Foundation Modules
Figure 101. Microsoft Infrastructure Middleware Offerings Key Elements
Figure 102. Microsoft Infrastructure Middleware Modules
Figure 103. Microsoft.NET Framework Benefits
Figure 104. Tibco FTL Benefits
Figure 105. Tibco e-FTL Message Middleware Benefits
Figure 106. TIBCO's Messaging Software Benefits
Figure 107. Tibco Messaging Solutions Value
Figure 108. Tibco Messaging Software Advantages
Figure 109. Tibco FTL Message Switch Benefits
Figure 110. Tibco Rendezvous Publish Subscribe Messaging Benefits
Figure 111. TIBCO Web Messaging Benefits
Figure 112. TIBCO Enterprise Message Functions
Figure 113. Tibco Messaging Solutions Positioning
Figure 114. Tibco Common Backbone for Services and Real Time Information Flow
Figure 115. Fiorano API Management Platform Functions:
Figure 116. FioranoMQ® Java Message Service (JMS) Compliant Platform
Figure 117. Fiorano enterprise Messaging Middleware Backbone Features
Figure 118. Fiorano Messaging Middleware Features
Figure 119. Fiorano Messaging Middleware Continuous Availability
Figure 120. Fiorano Messaging Middleware Linear Scalability
Figure 121. Fiorano Messaging Middleware Robust Security
Figure 122. Fiorano Messaging Middleware Global Manageability
Figure 123. Software AG's webMethods Integration Platform Key Benefits
Figure 124. Software AG Enterprise-Class Messaging Styles:
Figure 125. Software AG webMethods Broker Messages Configuration
Figure 126. Software AG webMethods Broker Message Types
Figure 127. Software AG webMethods Broker Messaging Quality-Of-Service Requirements Features
Figure 128. Oracle Middleware Messaging
Figure 129. Oracle Middleware Category Groups
Figure 130. Oracle Message Oriented Middleware (MOM)-Based System Asynchronous Exchange Of Messages
Figure 131. Oracle Combining RPC and MOM Systems
Figure 132. iWay Middleware, EDA Software Glue
Figure 133. Information Builders / iWay WebFOCUS Process
Figure 134. Information Builders/iWay SOA, EDA, and ESB Middleware Solutions

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Figure 135. Fujitsu openFT Features
Figure 136. Fujitsu Glovia Functions
Figure 137. Software Services of the Bosch IoT Suite
Figure 138. Bosch IoT Suite Connecting Five Million Devices And Machines
Figure 139. Bosch IoT Suite Services
Figure 140. Bosch IoT Suite Device Connection Features
Figure 141. Bosch IoT Suite Device Connection Functions
Figure 142. Bosch IoT Global System Integrator Partnerships
Figure 143. Bosch IoT Technology Partners:
Figure 144. Bosch IoT Memberships
Figure 145. Bosch IoT Joint Research Ventures
Figure 146. Workday Integration Cloud Platform Functions:
Figure 147. Workday's Integration Cloud Platform Components
Figure 148. Workday's Integration Cloud Platform
Figure 149. Workday ESB Process Flows
Figure 150. Solace Systems Message Exchange Patterns
Figure 151. Solace Middleware Functions
Figure 152. Solace Peer to Peer Messaging
Figure 153. Solace Systems Messaging APIs Robust And Uniform Client Access
Figure 154. Solace Systems Embedded Support For Point-To-Point 'Unicast'
Figure 155. Solace Guaranteed Messaging
Figure 156. Solace Systems Appliance
Figure 157. Solace High-Performance JMS Messaging Solution
Figure 158. Solace IPC Shared Memory Messaging
Figure 159. Benefits of Solace's High-Performance Messaging Solution
Figure 160. Red Hat JBoss Middleware Portfolio
Figure 161. Red Hat JBoss Enterprise Middleware Messaging Functions
Figure 162. Red Hat JBoss Open Source Choice Functions
Figure 163. Red Hat JBoss Portal Platform Services
Figure 164. Red Hat® Enterprise MRG Messaging Enterprise Requirements Features And Performance355
Figure 165. Pivotal RabbitMQ Functions
Figure 166. Pivotal RabbitMQ Features
Figure 167. Pivotal RabbitMQ Clustering Functions
Figure 168. Micro Focus Artix Functions
Figure 169. Micro Focus VisiBroker Object Request Broker (ORB) infrastructure Functions
Figure 170. New features in HPE NonStop iTP Secure WebServer and HPE NonStop iTP

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Figure 171. HPE Database And Middleware Automation (DMA) Functions
Figure 172. HPE Middleware Automation Key Benefits
Figure 173. GSX OpenText B2B Integration Network Functions
Figure 174. GSX Monitor Features
Figure 175. GSX Monitor Functions
Figure 176. GSX Monitor Benefits
Figure 177. BMC Middleware Software Management Solutions Positioning
Figure 178. BMC TrueSight Middleware Management Functions
Figure 179. BMC BladeLogic Middleware Automation
Figure 180. BMC Reduces Application Release Cycles from Weeks To Hours
Figure 181. BMC Solution Functions
Figure 182. BMC Middleware Administration Functions
Figure 183. BMC Middleware Management Features
Figure 184. BMC Middleware Management Solution Function:
Figure 185. BMC Middleware Management Solution Features:
Figure 186. BMC Application Transaction Tracing Functions:
Figure 187. Nastel AutoPilot Middleware Management Functions
Figure 188. Nastel AutoPilot Solution Features
Figure 189. Nastel AutoPilot Solution Functions
Figure 190. RFID Product Metrics
Figure 191. NEC RFID Middleware Product Tracking Industry Segments
Figure 192. NEC WebOTX RFID Manager Enterprise Characteristics
Figure 193. Rocket Software Janus TCP/IP Base
Figure 194. Rocket Software Janus TCP/IP Functions
Figure 195. Rocket Software Janus Network Security Architecture
Figure 196. WSO2 Middleware Open Source Benefits
Figure 197. VMWare Virtualization Messaging Capabilities
Figure 198. . Kafka Messaging System, Provides A Structured Commit Log Of Updates
Figure 199. Kafka Architecture Persistence
Figure 200. Kafka LinkedIn Capture Of A Stream Of Views To Jobs
Figure 201. Kafka Streaming Enterprise Publish Subscribe Messaging Enhancements
Figure 202. Kafka Streaming System Provides Built-In Stream Processing Capabilities
Figure 203. Web Services Transport Comparison HTTP and IBM WebSphere MQ
Figure 204. IBM WebSphere MQ Web Services Transport
Figure 205. Service Requestor and Service Provider Layers
Figure 206. Layered Architecture For IBM JMS Providers
Figure 207. IBM WebSphere MQ Layered Architecture Objectives:
Figure 208. Relationship Between WebSphere MQ Classes for JMS and WebSphere MQ Classes for Java

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Figure 209. Deciding Whether To Use Read Ahead Using IBM WebSphere MQ
Figure 210. Mission Critical Messaging As A Base For SOA Software Used to Implement Process Flexibility
Figure 211. Mission Critical Messaging ESB Functions
Figure 212. Mission Critical Messaging As A Base For Integration Software Provides A Base For Application Connectivity
Figure 213. Mission Critical Messaging Integration Functions
Figure 214. Open Systems Message Queuing Protocol Key Capabilities
Figure 215. Messaging Open Software Business Case
Figure 216. Advanced Message Queuing Key Features
Figure 217. Aspects Of Data Streaming Management
Figure 218. Mission Critical Message Throughput Variables
Figure 219. Typical Message Flow Characteristics
Figure 220. Middleware Messaging Technology Issues
Figure 221. Automatic Detection And Recovery From Network And System Failure
Figure 222. High Performance And Real-Time Message Throughput
Figure 223. Messaging Fault Tolerance Features
Figure 224. 360logica SOA Services:
Figure 225. 360Logica SOA Target Markets
Figure 226. 360logica SOA Services Positioning:
Figure 227. Apache ActiveMQ Features
Figure 228. Adobe Digital Marketing Cloud Solutions:
Figure 229. Adobe Digital Marketing Facts:
Figure 230. Adobe Digital Media Aspects:
Figure 231. Appian Technology Innovation Leadership
Figure 232. Rally Software Platform Functions
Figure 233. Cisco Technology Foundation For Digital Transformation
Figure 234. Cisco Unified Computing System Portfolio Of Solutions Functions
Figure 235. Confluent Partners
Figure 236. Kibana Core Ships With The Classics: Histograms, Line Graphs, Pie Charts, Sunbursts. Leverage Aggregation Capabilities Of Elasticsearch
Figure 237. Elasticsearch Visualizes Geo Data on Any Map
Figure 238. Fujitsu Main Products
Figure 239. Fujitsu Global Business
Figure 240. Fujitsu Global Alliances
Figure 241. Fujitsu Facts
Figure 242. HostBridge Mainframe CICS Integration Functions
Figure 243. IBM Business Goals
Figure 244. IBM Marketing Transformation Functions

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Figure 245. IBM Cloudbased App Offerings
Figure 246. IBM Cloud & Smarter Infrastructure Featured Solutions
Figure 247. Managed Methods Functions
Figure 248. Mega Operational Excellence for Customers
Figure 249. Microsoft Service Orientated Architecture SOA Functions
Figure 250. Nastel Technologies Customers
Figure 251. OpenText Target Markets
Figure 252. Oracle Systems Positioning
Figure 253. RabbitMQ Features
Figure 254. RabbitMQ Feature Descriptions
Figure 255. Tibco Products
Figure 256. Tibco SOA Benefits
Figure 257. WSO2 API Manager is a 100% Open Source Enterprise-Class Solution

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