

Complex Event Processing Market by Application (Fraud detection, Algorithmic Trading, Dynamic pre-trade analytics), Service (Consulting, Installation and Maintenance), Deployment, Vertical, User type, Region - Global Forecast to 2020

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Abstracts

The rising adoption of device-based computing is the driving force of Complex Event Processing (CEP) market.

The market is estimated to grow from USD 1.28 billion in 2015 to USD 4.95 billion by 2020, at an estimated Compound Annual Growth Rate (CAGR) of 31.1%. Adoption of device-based computing, potential growth in demand for enterprise data, increase in requirement for compliance and verification, lesser data processing time by linking Service Oriented Architecture (SOA) and Event Driven Architecture (EDA) during deployment, personalization of technology, and increase in demand for client-oriented analytical tools are some of the prominent factors driving the adoption of CEP applications and services.

Asia-Pacific (APAC) is expected to grow at the highest CAGR for CEP applications.

Governance, risk, and compliance application is estimated to contribute the largest market share for the application market during the forecast period due to rising demand for enterprise systems. On-premise based CEP is the largest contributor than the cloud-based CEP but the latter is expected to surpass the former due to the higher adoption rate of cloud technologies. Managed services segment in the services segment is expected to grow at a highest CAGR during the forecast period.

To determine the market size of various segments and sub-segments of the CEP

market extensive, secondary research is done. The collected data were then verified through primary interviews. Distribution of primary interviews is as follows:-

By Designation: - C-level -40%, Director level-30%, and others -30%

By Company Type: - Tier 1- 35%, Tier 2- 40% and Tier 3 -25%

By Region: - North America- 40%), Europe -25%, APAC-20%, and Rest of World - 15%

Note: Others include CEP managers, marketing managers, and product managers.

Note: Tier 1 companies have revenues more than USD 10 billion, Tier 2 companies range in between USD 1 and 10 billion or overall revenues, and Tier 3 companies range between USD 500 million and USD 1 billion of overall revenues.

Big data tools and analytics are increasingly contributing to the increasing popularity of CEP.

Modern enterprises are becoming more and more data oriented. They rely too much on their enterprise data for business decision making. Enterprises nowadays generate huge volume of data every day, whether it is customer relationship management, transaction processing system, supply chain management, or any other enterprise grade system. The growth of enterprise data is expected to grow massively in the upcoming years, increasing the demand for fast complex event processing tools. Moreover, IoT-based solutions, where high volume of data gets generated every second, will foster the adoption rate of complex event processing software in the upcoming years.

Various key players in the CEP market profiled in the report are IBM Corporation; SAP SE; Oracle Corporation; TIBCO Software Inc.; SAS Institute, Inc.; Informatica Corporation; WSO2, Inc.; Nistel Technologies, Inc.; Red Hat, Inc.; Software AG; and EsperTech, Inc.

The report will help the market leaders/new entrants in this market in the following ways:

1. This report segments the CEP market comprehensively and provides the closest approximations of the revenue numbers for the overall market and the sub-segments across end-users and regions.
2. The report will help stakeholders to understand the pulse of the market and provide

them information on key market drivers, restraints, challenges, and opportunities.

3. This report will help in understanding the competitors better and gain more insights to strengthen their position in the business. The competitive landscape section includes competitor ecosystem, new product developments, partnerships, and mergers and acquisitions.

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About

In this report, CEP covers the perspectives of wide range of applications in various verticals. CEP plays an important role in financial industry by enhancing capabilities in constructing cautious trading decisions.

The broad level purpose of the report is to segment this market in the best possible manner, covering this market comprehensively to provide the closest approximations of the revenue numbers for the different sub-segments, and to allow the readers to have a clear understanding of this vast market

The market study covers CEP by verticals including BFSI, transportation and logistics, healthcare, manufacturing, IT and telecommunication, energy and utilities, retail, government, defense and aerospace, and others (education and research)

The market study covers CEP by services such as installation and maintenance, training and certification, customer support and other services (HL7, HIPAA, eFinancial, SWIFT, UCCNet, RosettaNet)

The market study covers CEP by software

The market also has been covered by regions which are NA, Europe, APAC, LA and MEA CEP technology is being widely accepted and leading vendors are showing interest through mergers and acquisitions.

CEPs basic software stack includes software engine, adaptor API (connectors), data bases, and graphical units. Emerging vendors such as Modular Stream are providing CEP technology based on web and cloud technology. Thus, firms don't require to install software or to maintain hardware for CEP solution. Therefore, in this report we have not segmented the CEP market on the basis of deployment since it has been established that the CEP technology will witness shift from 'on-premises to on cloud'. We have limited the scope of our research report to the services and various applications in many verticals which offer the CEP software technology.

In past decade, we have observed progress of High Frequency Trading (HFT) in capital markets. This has given an undeniable push to the CEP middleware software solutions.

The traditional Business Intelligence(BI) tools require structured data and relational databases to process and provide strategic outputs. The process of analyzing databases takes a huge amount of time. Therefore, there is a need for high velocity detection and responsive technology which supports the organizations to innovate and improvise event based technologies. Furthermore, the big data phenomenon also created a rising demand for a robust technology. There was a further demand for real-time access and analysis of unstructured data within various industries, such as BFSI, government, manufacturing, telecommunication, and healthcare.

In the last decade, CEP technologies have evolved to better forms. Few of the leading forms have been the rule-based, query-based, and status-based CEP technologies. In order to comply with new regulatory standards, organizations are spending to improvise CEP engines. This trend will further help the growth of the CEP market in the coming years. Therefore, CEP rules can be customized based on the demands of the organizations in a particular vertical, such as functionalities, response requirements, and compliance regulations. Moreover, recent mergers and acquisitions in the CEP market further highlight the influence of this technology over market leaders. There are many emerging players that are also entering into the CEP market with their unique capabilities and innovative products. Some of these players are providing the technology over cloud, which doesn't require any installation and is cost effective.

MarketsandMarkets has segmented the CEP market by software and by services which includes installation and maintenance, training and certification, consulting services, and others. Further, the CEP market is segmented by applications in various verticals such as in BFSI the applications included are algorithmic trading; electronic transaction monitoring; dynamic pre-trade analytics; data enrichment; fraud detection; and Governance, Risk Management, and Compliance (GRC). In the healthcare vertical, the applications are self-service proactive monitoring and alerting and GRC; the transportation and logistics vertical consists of asset management and predictive scheduling and toll system management. The applications in the IT and telecommunication vertical are mobile billboards, revenue assurance, infrastructure management, and predictive CDR assessment. In the retail vertical, the applications consist of inventory optimization, shoplifting detection and real-time marketing, and customer engagement.

Similarly, the various CEP applications are considered in energy and utilities (oil and gas operation management and nuclear crisis and smart grid energy management), manufacturing (shop floor automation and operational failure detection, datacenter infrastructure management and supply chain optimization), government, defense and

aerospace (intelligence and security, emergency response services and geo-fencing and geospatial analysis) and other verticals which include education and research. The report is also segmented on the basis of regions such as NA, APAC, Europe, MEA, and LA.

The CEP market report analyzes the global adoption trends, drivers, and evolving platforms in this rapidly emerging market. The report aims at identifying and evaluating the current market size and future market opportunities. The report also provides in-depth insight on major players and competitive trend in the CEP market.

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