Oracle Event-Driven Architecture Suite is comprised of best-in-class Oracle Fusion Middleware components and enables customers to monitor, analyze, and respond to business events in real time. Organizations need to analyze increasingly large volumes of information and more rapidly respond to business events by adapting their applications and IT systems to become event driven. However, current infrastructures for processing and managing events are limited and require complex and expensive code development.

Oracle Event-Driven Architecture Suite complements the service-interaction model of service-oriented architectures (SOA), providing infrastructure to manage event-based interactions and complex event analysis in real time.

Product Overview

Oracle Event-Driven Architecture Suite is a comprehensive, hot-pluggable software suite that enables customers to monitor, analyze, and respond to business events in real time. Organizations need to analyze increasingly large volumes of information and more rapidly respond to business events by adapting their applications and IT systems to become event driven. However, current infrastructures for processing and managing events are limited and require complex and expensive code development. Oracle Event-Driven Architecture Suite provides companies in a broad range of industries—including financial services, telecommunications, retail, government, and manufacturing—with the ability to become real-time enterprises by enabling them to build, deploy, and manage event driven architectures (EDAs) without additional coding.

Leveraging Oracle Fusion Middleware’s hot-pluggable architecture, Oracle Event-Driven Architecture Suite is interoperable with Oracle and non-Oracle application servers including IBM WebSphere Application Server, Oracle WebLogic Server, and JBoss Application Server as well as messaging buses that include IBM WebSphere MQ (formerly MQSeries), SonicMQ and Tibco Enterprise JMS. The offering includes native support to create, process, analyze, and manage events. It provides a flexible, declarative environment to rapidly build and adapt event-driven applications.
Oracle EDA Suite improves an organization’s ability to predict change by improving its visibility to happenings in the physical world and business environment in real time. It simplifies the IT environment by being provisioned, deployed, monitored, and managed as a single cohesive infrastructure. It leverages existing investments by being modular, open, extensible, and hot-pluggable; this eliminates the need to remove or replace existing systems as well as supporting incremental deployment and ROI.

Oracle Event-Driven Architecture Suite consists of the following components:

- a business activity monitoring (BAM) solution to define and monitor events and patterns that occur throughout an organization
- a business rules engine to capture, automate, and flexibly change business policies
- complex event processing to process streams of events at real-time with configurable qualities-of-service
- a multi-protocol Oracle Service Bus to connect applications and route messages

Oracle Business Activity Monitoring

Oracle Business Activity Monitoring is a complete solution to define and correlate events as well as to identify and define complex event patterns. Real-time, operational dashboards can be deployed to monitor events, business processes, services, service levels, and track key performance indicators (KPIs). Capabilities to take automatic or manually-invoked corrective actions are built in.

Oracle Business Activity Monitoring enables business users to build interactive, real time dashboards, and proactive alerts. It leverages the latest Web technology to deliver a rich, interactive, personalized, operational dashboard in which real-time data and customized reports are delivered to business users via a standard Web browser. The user can also set personalized alert conditions that can be triggered and delivered to the user through e-mail, fax, phone, or other convenient channel. Users also have the ability to take the appropriate corrective action from the dashboard on monitored events. For example, a user could launch a business process in Oracle BPEL Process Manager.
OracleService Bus

Oracle Service Bus is designed to connect, mediate, and manage interactions between heterogeneous services, legacy applications, packaged applications and multiple enterprise service bus (ESB) instances across an enterprisewide service network.

Oracle Service Bus enables configuration-driven service integration with intelligent content and identity-based routing and enhances developer productivity due to code-free service integration. Oracle Service Bus offers native transports for leading enterprise resource planning and packaged applications, together with connectivity to IBM WebSphere and WebSphere MQ server-based applications. Oracle Service Bus Financial Services Edition offers Society for Worldwide Interbank Financial Telecommunication (SWIFT)-certified transports for SWIFT alliance and SWIFT gateway.

Oracle Service Bus delivers built-in capabilities for service virtualization, Web Service Security (WS-Security), and enforcement of policies around throttling and service pooling to meet the Reliability, Availability, Scalability and Performance (RASP) requirements and avoid overloading of the backend services. Oracle Service Bus is built with comprehensive support for SOA, Java 2 Platform, Enterprise Edition (J2EE), and standards such as J2EE Connector architecture (JCA) and WS-Reliable Messaging and WS-Security.

Complex Event Processing

Oracle's complex event processing (CEP) capabilities provide a rich, declarative environment for the development of event processing applications to improve the efficiency and effectiveness of managing business operations. Today's IT environments generate continuous data streams from systems that monitor everything from financial markets to network performance to business process execution to radio frequency identification (RFID)-tagged assets. Oracle’s CEP capabilities can process multiple event streams to detect patterns and trends at real time and provide enterprises the necessary visibility via Oracle Business Activity Monitoring to capitalize on emerging opportunities or mitigate developing risks. The CEP engine runs atop a highly optimized, light weight application server that can handle hundreds of thousands of events per second.

Business Rules

Oracle Business Rules allows business analysts to easily define, update, and manage key decisions and policies governing business processes and applications. For example, business policies within processes that are likely to change can be captured using Oracle Business Rules.
Oracle Business Rules consists of a rule authoring tool, a rules engine, and a software development kit (SDK). The authoring tool presents an English-like paradigm for declaring rules that can be used by both programmers and business analysts. The rules engine is a fast and efficient JSR-94 compliant RETE-based engine written in Java. The SDK enables rules generation by custom rules editing applications.

Contact Us
For more information about Oracle Event-Driven Architecture Suite please visit oracle.com/soa or call +1.800.ORACLE1 to speak to an Oracle representative.