

# Mule ESB

*The most widely used Enterprise Service Bus*



## Overview

Mule ESB™ is the world's most widely used open source enterprise service bus, with over 2,500 production deployments including 5 of the world's top 10 banks and over 35% of the Global 500. Mule ESB simplifies the integration of applications and technologies, both on-premise and in the cloud.

Mule ESB takes the complexity out of integration, enabling developers to easily build high-performance, multi-protocol interactions between heterogeneous systems and services. With Mule ESB, there is no need to embark on a

top-down transformative SOA initiative with a lengthy payback horizon.

While Mule is lightweight and flexible, adapting to your existing infrastructure, it is also robust enough to power even the largest and most demanding enterprise SOA implementations. A major airline processes over 10,000 business transactions per second with Mule while H&R Block uses 13,000 Mule servers to support their highly distributed environment.

## Superior Time to ROI

Business moves too fast to support the massive multi-year integration projects with uncertain ROI that most SOA stacks require. Mule provides an approach with superior time to ROI.

While many ESBs require a lengthy business re-architecture project with large vendor-driven consulting engagements complete with new tools to learn and unwieldy SOA stacks to deploy, Mule delivers immediate results. Value can be achieved in months or even weeks as opposed to years.

**“ We were very happy with what Mule delivered. It provided an impressively quick time to delivery while coming in at a much lower total cost of ownership than the alternatives.”** - Sierd Westerfield, Netherlands Ministry of Economic Affairs



## Lower Development Costs

Most ESBs force developers to learn a whole new set of technologies and skills. They shove developers into a world of difficult to use, antiquated and opaque tools from which there is no escape. Mule is different. It makes developers more productive, more quickly.

Mule ESB substantially lowers ongoing development costs. Any Java developer can be productive with Mule. This means organizations spend less on training, recruitment and ongoing staffing costs to achieve the same results, alleviating the number one cost driver of most integration projects.

**“ While we use a lot of Oracle in house, we're very keen on lightweight solutions to problems. Mule ESB offers simpler, more efficient development than the alternatives... we're a big Java shop and our Java developers can quickly learn Mule. It means we don't need a special group of costly integration specialists. Any of our Java developers can do integration with Mule.”**

- Chris Baker, University of the Witwatersrand



### Lightweight and modular

Demands low CPU and memory usage, simplifying deployment and maintenance

### Easy to learn

Deploy in any topology, and with or without an application container

### Connect to anything

Leverage over 100 transports and modules to integrate various applications, protocols, SOAP and RESTful web services

### Cloud-ready

Integrate enterprise-to-cloud or cloud-to-cloud using out-of-the-box cloud connectors

### Standards-based and vendor-neutral

Adapts to existing infrastructure and prevents vendor lock-in

### Open source accessibility

Developer-friendly and no expensive software license costs

## Build a flexible architecture

Because it does not impose architecture limitations, Mule ESB enables rapid response to changing business needs and opportunities. Mule is ideally suited for today's business environment where partner ecosystems are constantly in flux, new web-based and mobile channels are emerging, and cloud and SaaS applications are being more widely deployed. With industry-leading cloud support and the most flexible architecture on the market, the more things change, the more Mule delivers.

**“ One of our biggest challenges was in figuring out how to accommodate business process changes. The asset registration workflow requires a lot of changes, but Mule is easily configurable to add or delete interactions to accommodate those frequent business changes.”** - Kamlesh Sharma, Scripps Networks



## High Performance, Lower Hardware Costs

Mule ESB is the world's most efficient Enterprise Service Bus. It is designed to work efficiently on commodity hardware, virtual machines and even developers' laptops. In tests Mule processes messages over twice as quickly and efficiently as other ESBs substantially reducing the hardware costs associated with running your integration applications.

**“ Mule represents the ideal combination of lightweight, standards based and robust technology that is the hallmark of open source projects, together with the enterprise-class stability and support that we need to be sure that we can stay up and running 100% of the time.”** - Jason Whiting, TiVo



## Technical specifications

<b>OS</b>	▶ Linux ▶ Windows	▶ Solaris ▶ AIX	▶ HP-UX ▶ Mac OS x
<b>Database</b>	▶ Derby	▶ Oracle	▶ MySQL
<b>App Server</b>	▶ Standalone ▶ Tomcat ▶ WebLogic	▶ WebSphere ▶ Geronimo ▶ JBoss	▶ Resin ▶ Jetty
<b>Development Tools</b>	▶ Ant ▶ Eclipse ▶ Japex	▶ Maven ▶ Mule IDE ▶ Profiler	▶ Data Mapper (Eclipse IDE, Oakland)
<b>Transports</b>	▶ AS400 ▶ Data Queue ▶ Abdera ▶ Amazon SQS ▶ JBPM ▶ CICS CTG ▶ CXF ▶ Email ▶ FTP ▶ Hibernate ▶ HTTP/S ▶ Legs4Mule ▶ IMAP/S	▶ JCR ▶ JDBC ▶ Jersey ▶ Jetty/ ▶ JMS ▶ LDAP ▶ POP3/S ▶ Quartz ▶ Restlet ▶ RMI ▶ SFTP ▶ SAP ▶ Servlet	▶ SFTP ▶ SMTP/S ▶ SOAP ▶ STDIO ▶ TCP ▶ UDP ▶ VM ▶ XMPP ▶ WebSphere MQ ▶ WSDL ▶ ...dozens more
<b>Cloud Connectors</b>	▶ Amazon EC2 ▶ Amazon S3 ▶ Authorize.net ▶ Best Buy	▶ Bit.li ▶ Facebook ▶ Flickr ▶ Google	▶ HostIP ▶ Twitter ▶ Whols
<b>Containers</b>	▶ EJB3      ▶ Spring		
<b>Flexible Deployment Topologies</b>	▶ ESB ▶ Client/Server ▶ Peer-to-Peer	▶ Enterprise Service Network (ESN)	▶ Hub and Spoke ▶ Pipeline
<b>Event Handling</b>	▶ Asynchronous ▶ SEDA ▶ Streaming		▶ Synchronous ▶ Transactions ▶ Routing Patterns
<b>Web Services</b>	▶ NET Web Services ▶ REST ▶ WS-Addressing ▶ WS-Policy		▶ WS-Security ▶ WS-I BasicProfile ▶ WS-I SecurityProfile ▶ WSDL
<b>Security</b>	▶ Spring Security ▶ Acegi	▶ JAAS ▶ PGP	▶ SS4TLS
<b>Languages</b>	▶ Groovy ▶ Java ▶ Javascript	▶ Jaxen ▶ Jython (Python) ▶ JRuby	▶ XPath
<b>Data Formats</b>	▶ Atom ▶ Base 64 encoded ▶ Byte arrays ▶ CSV	▶ Encrypted ▶ GZIP ▶ Hex Strings	▶ HTML / XHTML ▶ Java Objects ▶ JSON ▶ EDI
<b>Data Transformation</b>	▶ XSLT ▶ XQuery		▶ Smooks ▶ Oakland Software
<b>Other</b>	▶ BPEL ▶ jBPM	▶ JSR-223 (Scripting)	▶ OGNL Filters ▶ Quartz

## About MuleSoft

MuleSoft is an explosive growth, well-funded cloud and software startup. Our award-winning products have been downloaded over 1.5 million times, and more than 2,500 organizations are using them in production, including companies like Walmart.com, Nestle, Honeywell, DHL, as well as 5 of the world's top 10 banks. For the past few years, we have been growing subscription revenues by more than 100% per year.

For more information:  
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