

# Mule ESB

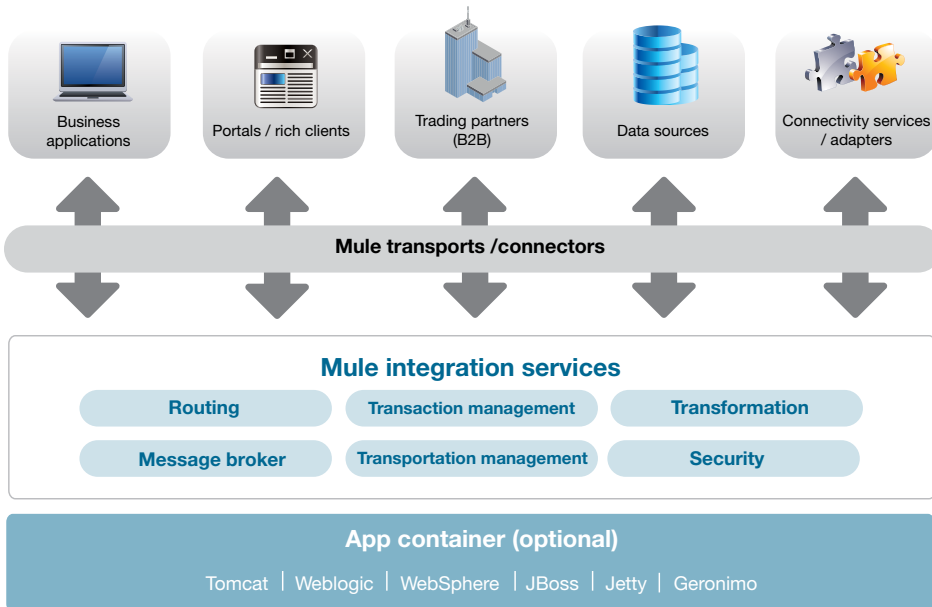
The Leading Open Source Enterprise Service Bus

## Overview

Mule ESB™ is the world's most widely used open source enterprise service bus, with over 1.5 million downloads and 2,500 production deployments. With Mule ESB's simplified development model and lightweight architecture, developers can be productive in minutes, easily creating and integrating application services. Mule ESB takes the complexity out of integration, enabling developers to easily build high-performance, multi-protocol interactions between heterogeneous systems and services.

## Taking the "A" out of SOA

An ESB functions as a transit layer for carrying information, providing connectivity to a wide range of heterogeneous technology assets. The bus provides a set of capabilities to enable integration and service-oriented architecture (SOA), including service creation and mediation, routing, data transformation, and management of messages between endpoints.



With Mule ESB, there is no need to embark on a top-down transformative SOA initiative with a lengthy payback horizon. Instead, Mule ESB works with any existing infrastructure, and IT organizations can immediately see value from the service-orientation and decoupled integration that Mule ESB provides. At the same time, the Mule ESB Enterprise suite includes enterprise-class features and tools that enable Mule ESB to scale up and meet the most demanding performance or reliability challenges posed by even the largest SOA implementations.

## Mule ESB: Simple and Open

### Simplified programming model

Developers can be up and productive in minutes

### Lightweight and modular

Demands low CPU and memory usage, simplifying deployment and maintenance

### Flexible and pragmatic deployment options

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

### 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

## Technical Specifications

<b>OS</b>	<ul style="list-style-type: none"> <li>Linux</li> <li>Windows</li> </ul>	<ul style="list-style-type: none"> <li>Solaris</li> <li>AIX</li> </ul>	<ul style="list-style-type: none"> <li>HP-UX</li> <li>Mac OS x</li> </ul>
<b>Database</b>	<ul style="list-style-type: none"> <li>Derby</li> </ul>	<ul style="list-style-type: none"> <li>Oracle</li> </ul>	<ul style="list-style-type: none"> <li>MySQL</li> </ul>
<b>Containers</b>	<ul style="list-style-type: none"> <li>EJB 3</li> </ul>	<ul style="list-style-type: none"> <li>Spring</li> </ul>	<ul style="list-style-type: none"> <li>BPM</li> </ul>
<b>App Server</b>	<ul style="list-style-type: none"> <li>Standalone</li> <li>Tomcat</li> <li>WebLogic</li> </ul>	<ul style="list-style-type: none"> <li>WebSphere</li> <li>Geronimo</li> <li>JBoss</li> </ul>	<ul style="list-style-type: none"> <li>Resin</li> <li>Jetty</li> </ul>
<b>Transport</b>	<ul style="list-style-type: none"> <li>AS400</li> <li>Data Queue</li> <li>Abdera</li> <li>Amazon SQS</li> <li>Axis</li> <li>BPM</li> <li>CICS CTG</li> <li>CXF</li> <li>Email</li> <li>FTP</li> <li>Hibernate</li> <li>HTTP/S</li> </ul>	<ul style="list-style-type: none"> <li>IMAP/S</li> <li>JCR</li> <li>JDBC</li> <li>Jersey</li> <li>Jetty/ Jetty SSL</li> <li>JMS</li> <li>LDAP</li> <li>Multicast</li> <li>POP3/S</li> <li>Quartz</li> <li>Restlet</li> </ul>	<ul style="list-style-type: none"> <li>RMI</li> <li>SalesForce</li> <li>SAP</li> <li>Servlet</li> <li>SMTP/S</li> <li>SOAP</li> <li>STDIO</li> <li>TCP</li> <li>UDP</li> <li>VM</li> <li>XMPP</li> <li>WSDL</li> </ul>
<b>Development Tools</b>	<ul style="list-style-type: none"> <li>Ant</li> <li>Eclipse</li> <li>Japex</li> </ul>	<ul style="list-style-type: none"> <li>Maven</li> <li>Mule IDE</li> <li>Profiler</li> </ul>	<ul style="list-style-type: none"> <li>Data Mapper (Eclipse IDE, Oakland)</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>Spring Security</li> <li>Acegi</li> </ul>	<ul style="list-style-type: none"> <li>JAAS</li> <li>PGP</li> </ul>	<ul style="list-style-type: none"> <li>SS4TLS</li> </ul>
<b>Flexible Deployment Topologies</b>	<ul style="list-style-type: none"> <li>ESB</li> <li>Client/Server</li> <li>Peer-to-Peer</li> </ul>	<ul style="list-style-type: none"> <li>Enterprise Service Network (ESN)</li> </ul>	<ul style="list-style-type: none"> <li>Hub and Spoke</li> <li>Pipeline</li> </ul>
<b>Event Handling</b>	<ul style="list-style-type: none"> <li>Asynchronous</li> <li>SEDA</li> <li>Streaming</li> </ul>	<ul style="list-style-type: none"> <li>Synchronous</li> <li>Transactions</li> <li>Routing Patterns</li> </ul>	
<b>Web Services</b>	<ul style="list-style-type: none"> <li>Axis</li> <li>Atom</li> <li>CXF</li> <li>.NET Web Services</li> <li>REST</li> </ul>	<ul style="list-style-type: none"> <li>WS-Addressing</li> <li>WS-Policy</li> <li>WS-Security</li> <li>WS-I BasicProfile</li> <li>WS-I SecurityProfile</li> <li>WSDL</li> </ul>	
<b>Languages</b>	<ul style="list-style-type: none"> <li>Groovy</li> <li>Java</li> <li>Javascript</li> </ul>	<ul style="list-style-type: none"> <li>Jaxen</li> <li>Jython (Python)</li> <li>JRuby</li> </ul>	<ul style="list-style-type: none"> <li>JXPath</li> </ul>
<b>Data Formats</b>	<ul style="list-style-type: none"> <li>Atom</li> <li>Base 64 encoded</li> <li>Byte arrays</li> </ul>	<ul style="list-style-type: none"> <li>CSV</li> <li>Encrypted</li> <li>GZIP</li> <li>Hex Strings</li> </ul>	<ul style="list-style-type: none"> <li>HTML / XHTML</li> <li>Java Objects</li> <li>JSON</li> <li>EDI</li> </ul>
<b>Data Transformation</b>	<ul style="list-style-type: none"> <li>XSLT</li> <li>XQuery</li> </ul>	<ul style="list-style-type: none"> <li>Smooks</li> <li>Oakland Software</li> </ul>	
<b>Other</b>	<ul style="list-style-type: none"> <li>BPEL</li> <li>jBPM</li> </ul>	<ul style="list-style-type: none"> <li>JSR-223 (Scripting)</li> </ul>	<ul style="list-style-type: none"> <li>OGNL Filters</li> <li>Quartz</li> </ul>

## Exclusive in Mule ESB Enterprise

<b>Premium Transports</b>	<ul style="list-style-type: none"> <li>High Performance JDBC</li> <li>WebSphere MQ</li> </ul>	<b>Management and Productivity</b>	<ul style="list-style-type: none"> <li>Management console</li> <li>Service registry</li> </ul>	<ul style="list-style-type: none"> <li>Patch management</li> <li>Migration tools</li> </ul>
<b>Performance and Stability</b>	<ul style="list-style-type: none"> <li>High availability and failover</li> <li>Retry policies for self-healing connectivity</li> <li>Multi-resource transactions</li> </ul>	<b>Documentation and Support</b>	<ul style="list-style-type: none"> <li>Commercial-grade Documentation</li> <li>Online knowledge base</li> </ul>	<ul style="list-style-type: none"> <li>Technical support</li> <li>Platform certification</li> </ul>

## About MuleSoft

MuleSoft is the Web Middleware Company. With iBeans, the lightweight and powerful Mule ESB, and the recently announced MuleSoft Tcat Server, MuleSoft brings simple yet powerful infrastructure to today's dynamic Web applications.

For more information:  
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