

# Mule ESB *The most widely used Enterprise Service Bus*



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.

With Mule ESB's simplified development model and lightweight architecture, programmers can be productive in minutes, easily creating and integrating applications and services. Mule ESB takes the complexity out of integration, enabling developers to easily build high-performance, multi-protocol interactions between heterogeneous systems and services, both on premise and in the cloud. 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.

### 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

## 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 ▶ Routing Patterns	▶ Transactions
<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

## Features

Software Features	Mule ESB Community	Mule ESB Enterprise
Leading Open Source ESB	✓	✓
Access to source code	✓	✓

Integration	Mule ESB Community	Mule ESB Enterprise
Service hosting	✓	✓
Mediation	✓	✓
Data transformation	✓	✓
Routing	✓	✓
Cloud connect	✓	✓
MuleForge community connectors	✓	✓
Native Websphere MQ		✓
Premium JDBC		✓

Web Services	Mule ESB Community	Mule ESB Enterprise
SOAP (WSDL)	✓	✓
REST	✓	✓
WS-*	✓	✓
.NET Web Services	✓	✓

Reliability	Mule ESB Community	Mule ESB Enterprise
High availability		✓
Self-healing connections		✓

Performance Management	Mule ESB Community	Mule ESB Enterprise
SLA alerts		✓
Monitoring framework integration		✓
Runtime performance manager		✓

Problem Resolution	Mule ESB Community	Mule ESB Enterprise
Service flow analyzer		✓

Operational control	Mule ESB Community	Mule ESB Enterprise
Operational dashboard		✓
Deployment manager		✓
Integrated application repository		✓
ESB remote control		✓
Task scheduler		✓

Security	Mule ESB Community	Mule ESB Enterprise
Encryption (SSL/TLS)	✓	✓
Message data encryption (WS-Security, PGP)	✓	✓
SAML		✓
Role-based access control		✓

Support & maintenance	Mule ESB Community	Mule ESB Enterprise
Community forums	✓	✓
24/7 Premium support		✓
Knowledge base		✓
Service packs		✓
Hot patches		✓
Back-ported bug fixes		✓

## 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.

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