Enterprise Service Bus

RELIABLE, SCALABLE AND SECURE

Talend’s reliable and scalable enterprise service bus (ESB) products simplify the connection, mediation and management of services and applications so more time is spent making decisions instead of integrating systems.

What it Does

Heterogeneous Application and Data Integration

Talend’s ESB products combine an innovative, Eclipse-based tooling environment with messaging, Web services, data services, intelligent routing and data transformation. Talend enables developers to easily build reliable, scalable and secure REST, Web and data services to quickly integrate heterogeneous IT environments, both on-premises and in the cloud. The reuse of services across multiple applications maximizes initial investments, and its modular, pluggable architecture allows easy and scalable expansion.

How it Works

Eclipse-based Tool for Real-time Integration

Integration Without Coding

Only Talend ESB allows developers to develop, build, test and publish Java Web services, REST applications, data services and messaging routes – all from a single user interface. Talend speeds time to project completion by making developers more productive through an Eclipse-based tooling environment for modeling, configuring, and deploying integration solutions. Talend allows you to design integration solutions based on Enterprise Integration Patterns (EIPs) – a standard set of integration templates used to address common integration needs.

Extensive Connectivity

Talend ESB allows users to effortlessly combine data integration with a Web service using a graphical palette of components and connectors. Users can leverage a WSDL-first approach to integration to efficiently deploy multiple data services behind a single interface on a common ESB runtime. Talend provides access to a library of over 450 connectors supporting all types of sources and targets for data integration, migration or synchronization.

Centralized Deployment & Comprehensive Management

Talend ESB speeds deployments and upgrades through a centralized deployment console enabling organizations to rapidly respond to integration requests. Developers and administrators gain complete control over the deployment and upgrade process for Web services, REST applications, data services and messaging routes deployed to Talend ESB. Application and data service events are easily monitored with drill-down capabilities into individual service statistics for in-depth analysis of inter-process service activity.

A coherent toolset can reduce the time, cost and effort required by integration projects.

Research Outlook for Application Integration - Gartner 2011

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ESB Products


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Specifications

ESB

Talend ESB supports the following standards, third party components, products and operating systems. Support varies across Talend ESB editions. For detailed information, please reference the product installation document and release notes.

Support for Standards

- JAX-WS - Java API for XML-Based Web Services (JAX-WS) 2.2 - JSR-224
- Web Services Metadata for the Java Platform - JSR-181
- JAX-RS 1.1 / 2.0 - The Java API for RESTful Web Services - JSR-311
- SAAJ - SOAP with Attachments API for Java (SAAJ) - JSR-67
- WS-I support: Basic Profile 1.1, Basic Security Profile 1.1, Quality of Service: WS-Reliable Messaging 1.1
- Metadatta: WS-Policy, WSDL 1.1 - Web Service Definition Language
- Messaging Support: WS-Addressing, SOAP 1.1, SOAP 1.2, Message Transmission Optimization Mechanism (MTOM)
- Authorization Policies: XACML 2.0

Support for Transports, Bindings, Data Bindings and Formats

- Bindings: SOAP, REST/HTTP
- Data bindings: Aegis, JAXB 2.2, SDO, XMLBeans, JIBX
- Formats: XML, JSON
- Transports: HTTP, Servlet, JMS, UDP and many others via the Camel transport for CXF such as SMTP/POP3, TCP and Jabber or using a Talend ESB Route in between.
- Extensibility API allows additional bindings for CXF, enabling additional message format support such as CSV and fixed record length

Flexible Deployment

- Lightweight containers: deploy services in OSGi (Talend Runtime), Apache Tomcat or Spring-based containers
- Java EE integration: deploy services in JEE application servers such as RedHat JBoss AS, and IBM WebSphere
- Stand-alone Java client/server

Support for Programming Languages

- Java SE 6 & 7 (incl. the use of the JAX-WS 2.2. and JAX-RS 2.0)
- CORBA
- Scala DSL, XQuery, SQL, XPath
- Scripting languages: Groovy, JavaScript, ECMAScript, PHP, and Ruby

Enterprise Integration Patterns

- Messaging Systems
- Messaging Channels
- Message Construction
- Message Routing
- Message Transformation
- Messaging Endpoints
- System Management

Supported Databases

Including IBM DB2, Microsoft SQL Server, MySQL, Oracle, and many more in combination with the Talend Studio Database Components

Supported Operating Systems

CentOS Linux, OS X, Redhat Enterprise Linux, Solaris, SUSE Linux, Ubuntu Linux, Microsoft Windows