



MIMOS Enterprise Service Bus (Mi-ESB)

Integrating multiple applications and services can be challenging, too expensive and time consuming. MIMOS Mi-ESB allows large enterprises to virtualise/expose web services running on different platforms through a simple/configuration-based approach. Mi-ESB is essential to achieve the complete potential of Service-Oriented Architecture (SOA) where flexibility is built on open standards.

Overview

MIMOS Mi-ESB is a comprehensive, standards-based integration platform that can be configured with any combination of components required for resolving various use case scenarios.

Mi-ESB strictly adheres to industry standards and supports communication protocols including JMS, TCP, SSL, UDP, HTTP, FTP and POP/SMTP. Mi-ESB also supports web services standards like SOAP, REST, WSDL, WADL, JAX-WS and JAX-RS Specifications. Hence, Mi-ESB requires minimal proprietary knowledge, leverages on a larger pool of developers and reduces training needs.

Features

Mi-ESB comprises the following features:

- **Container Concept**
The foundation of Mi-ESB is a container that is based on Open Service Gateway Initiative (OSGI).
- **Mediation Management**
Mi-ESB auto-generates integration routes based on configurable runtime rules to enable dynamic mediation between consumers and providers.
- **Service Management**
Mi-ESB enables service virtualisation, governance and discovery.
- **Reliable Messaging**
Mi-ESB enables concurrent consumers to send messages asynchronously to virtual services through virtual destinations.
- **Dynamic SOA**
Mi-ESB enables SOA dynamically by loosely coupling consumers and providers through the ESB based on flexible configuration-driven and standards-based integration and ensuring service providers adhere to the defined SLA.
- **Console and Management**
Mi-ESB includes a web console for runtime monitoring of container logs, events tracking, alerts and notifications.

Technology Benefits

The main impacts of Mi-ESB are:

- **Easy-to-Manage Broker**
Mi-ESB provides a standardised platform as broker for integration. By unifying the platform, a convergence set of integration methods makes it possible to achieve consistency and ease of deployment of brokers across the infrastructure.
- **Loose Coupling**
The bus model of Mi-ESB enables a loosely coupled architecture and ensures message-passing mechanisms are agnostic of service consumers and providers.

Technology Summary

Mi-ESB

An integration platform that enables Dynamic Service-Oriented Architecture (SOA) that is unique in its flexibility to integrate with multiple applications, systems and services.

Industries: Government, Healthcare, Education

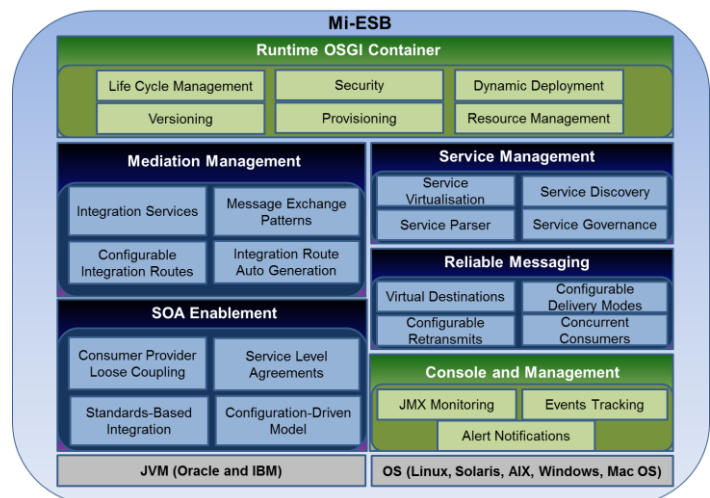
Features

- Container concept
- Mediation management
- Service management
- Reliable messaging
- Dynamic SOA
- Console and management

Technology Benefits

- Easy-to-manage broker
- Loose coupling
- Scalability and reliability

- **Scalability and Reliability**
The loose coupling provides scalability advantages such as high availability, fault tolerance and load balancing. The messaging layer in Mi-ESB can send messages across various load-balanced service endpoints.



MIMOS Mi-ESB system architecture

System Requirements

Mi-ESB	
Hardware Requirements	
Processor	Quad-Core CPU
Memory	Minimum 4GB of RAM
Disk Storage	Minimum 1GB of hard disk space
Software Requirements	
Operating System	Linux® (tested on Ubuntu®)
Tools (compilers, libraries, debuggers and related)	Oracle® Java™ Development Kit (JDK) version 6.0 or JRE 1.6.0_18 or later

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