



EME Enterprise Messaging Engine

Business Integration Technology's Integration Solution based on Open Source

Efficient supply chain partnerships is what EME is all about and the BIT team can help you get connected. BIT combines expert skills in full life-cycle interface development with our deep experience in B2B integration for supply chain. Our customers trust us to build and support their systems because we consistently provide superior solutions and service. We will work with your team to leverage the benefits of open source and the accelerated implementation of a professional consulting and service delivery company. BIT removes the risk from open source solutions for integration.



IT products and services allow you to achieve interoperability with ERP, TMS, WMS and industry networks at a fraction of the time and cost of traditional industry interface solutions. EME is also a great choice to support new supply chain and transportation management initiatives. We have successfully implemented EME solutions for several different industries.

BIT will work with you to determine the most cost-effective solution for your needs. From our turn-key 'Getting Started' solution for small projects to custom enterprise supply chain projects, BIT has the experience and the team to get the job done.

Features

EME provides the technology for exchange of business documents to support your supply chain initiatives. EME is an enterprise messaging engine that can be configured for the business processes of your industry. By utilizing an enterprise service bus framework and a service-oriented architecture, EME can be integrated with enterprise applications and extended to meet today's changing business needs.

Business Integration Technology's proven EME enterprise messaging engine supports mission-critical electronic integration with robust and scalable technology that implements best-practice enterprise architecture using widely-accepted open standards.

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EME supports industry frameworks for collaboration. EME provides the framework for connecting industry enterprise systems with the required protocol adapters, message transformation tools and workflow. All industry-standard messages can be configured and can be schema-validated.

EME uses a service-oriented architecture to connect your systems with your trading partners' systems. BIT's standards-based architecture for integration facilitates custom and legacy interfaces for a comprehensive integration solution. EME supports all major operating systems, including Windows, Linux, OS/X, and main-stream UNIX

Benefits

Security - Because EME is open-source, you can rest assured that the code components have been peer-reviewed and tested by thousands of developers in the open-source community.

Value - EME is free to use with no license or royalty fees. In addition, EME includes an assortment of tested interfaces for a variety of industry business processes free-of-charge.

Extensibility - EME's core architecture can easily be extended to fit in your existing operations. The open framework ensures that EME is always up to date with the latest advances in B2B and enterprise applications integration.

Components

EME is made up of three major components:

EME Core— BIT's enterprise messaging system based on Spring, Mule and other leading open-source projects with pre-built integration frameworks.

BDP—BIT's business document processor.

Protocol Proxy—BIT's secure communications server.

Getting Started with EME

'Getting Started with EME' is a package intended for small projects in which only one or two integrations with partners are implemented. BIT will review your requirements and provide a very cost-effective estimate for a solution. We'll develop and test your integrations and also provide training and support for your team.

The Getting Started with EME package includes:

- Project Plan
- Requirements
- Rapid Implementation
- Testing
- Expert Support
- Training and Knowledge Transfer
- Project Documentation

The Getting Started with EME package can be delivered in less than four weeks and for less than \$20,000 depending on your requirements.



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EME standards-based architecture			
Composite Applications	BIT EME Control and Configuration JSR 223	Spring MVC JSR 168, JSR 175	BPEL JSR 207
ESB	Enterprise Service Bus		
Message Queuing	JMS JSR 914		
Business Logic	Spring POJOs JSR 175, JSR 227	JSPs JSR 152, JSR 154	
Transmission	Transports: HTTP(s), REST, SOAP, FTP, AS2, RNIF, WS-I, ebMS SMTP, JDBC, POP3, IMAP, TCP, JMS, File System JSR 109, JSR 183, JSR 221, JSR 914		
Transformation	Transformation JSR 5, JSR 102		
Persistence	Hibernate JSR 170, JSR 175, JSR 220	RDBMS JSR 170, JSR 221	

BIT Integration Project Services

In addition to the consulting services bundled with the 'Getting Started with EME' package, BIT provides project-based consulting services with EME experts to help you address a variety of strategic, architectural and implementation related tasks. Engagements are structured and scoped according to your specific needs.

Some of the projects that our team can support:

- Integration assessment and roadmap
- Custom integration implementation
- Outsourced integration maintenance and support
- EME enterprise integration with your ERP solution(s)
- Self-contained EME 'appliance' solutions
- Securely hosted EME solutions

Please contact the BIT team to discuss your needs.

Proven

EME has been successfully implemented Purchase Orders, Product Specifications, Invoices Shipping Instructions, Ship Notice, Load Tender Motor, Load Tender Response, and Acknowledgement Receipt messages for major manufacturers, warehouses and transporters in production environments.

About Business Integration Technology, Inc.

Business Integration Technology Inc. (BIT) is a leader in B2B integration technology for transportation, logistics and supply chain management. BIT designs and implements highly cost-effective business-to-business connections that eliminate the costs of doing business with paper, phone and fax bringing innovative value to shippers, carriers, 3PLs and companies looking to improve cycle time and reduce cost.

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EME Technical Details

Integration in EME is implemented with one or more components consisting of endpoints (both inbound and outbound), filters, and transformers. Multiple filters and a chain of transformers can be associated with a channel. EME allows for reuse of filters and transformers across implementations.

Wide Variety of Connectors

Endpoints are used to configure connections and their protocol details. Inbound endpoints are used to designate the type of listener to use for incoming messages, such as TCP/IP or a web service. Outbound endpoints are used to designate the destination of outgoing messages, such as an application server, a JMS queue, or a database. EME can be configured to listen and send messages and connect to a variety of protocols:

- TCP-IP
- HTTP/HTTPS
- Relational databases (Oracle, SQL Server, Derby, MYSQL, etc.)
- File systems (local and network shares)
- JMS message queues (WebSphere MQ, Active MQ, TIBCO, etc.)
- FTP/SFTP
- SOAP Web services
- REST Web services

BIT's standards-based architecture for integration facilitates custom and legacy interfaces for a comprehensive integration solution. If you wish to implement your own communications server hub, BIT can configure EME to work with BIT's Protocol Proxy for secure exchange of messages.

Message Transformation

EME allows for creation of transformations and mappings of industry-standard data. The EME XSLT transformer can perform XSL Transformations on incoming or outgoing XML, EDI or other message formats. For a user-friendly mapping interface we recommend the use of low-cost standards-compliant tool like oXygen, Stylus Studio, or XML Spy to create XSL that can be deployed in EME's open architecture.

System Requirements

EME requires a server system with 2 GB of memory and 500 MB of storage available. The server must run a recent, stable release of Linux, Windows, or a major Unix variant. The server must be capable of supporting the Java™ 2 Runtime Environment, Standard Edition version 1.5. EME must be deployed behind a secure firewall without restriction on outbound connection for the chosen B2B integration protocol.

BIT requires a privileged account on the EME server and access to internal support for both the server and chosen enterprise connection. The B2B trading partner must have an existing server configured to accept your B2B connection and must provide support for testing the B2B implementation.

Open-Source

EME is based on Spring, Mule, and other leading open-source projects such as Derby, mySQL, Jetty, Tomcat, ActiveMQ and xFire. There are no license fees for EME or its components.