

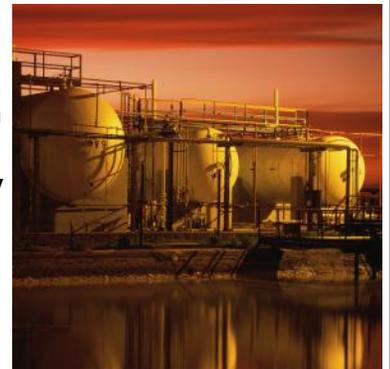


Integration that makes sense

EME-CIDX – B2B Integration for the Chemical Industry

Business Integration Technology's EME-CIDX Solution

Efficient chemical industry supply chain partnerships is what EME-CIDX is all about and the BIT team can help you get connected. BIT combines expert skills in full life-cycle CIDX 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.



BIT products and services allow chemical industry organizations and solutions developers to achieve interoperability with ERP, TMS, WMS and chemical industry networks at a fraction of the time and cost of traditional chemical industry interface solutions. EME-CIDX is also a great choice to support new supply chain and transportation management initiatives. We have successfully implemented solutions for innovative manufacturers, transporters and warehousing companies in the chemical industry.

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-CIDX provides the technology for exchange of CIDX messages in the chemical industry. EME-CIDX is an open source enterprise messaging engine configured for the business processes of the chemical industry. By utilizing an enterprise service bus framework and a service-oriented architecture, EME-CIDX can be integrated with enterprise applications and extended to meet the changing business needs of today's chemical industry.

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

Business Integration Technology, Inc.

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BUSINESS INTEGRATION TECHNOLOGY, INC.

EME-CIDX implements the CIDX framework for collaboration. CIDX has established itself as the lingua franca of chemical industry information exchange. EME-CIDX provides the framework for connecting chemical industry enterprise systems with the required protocol adapters, message transformation tools and workflow. All CIDX messages can be configured and can be schema-validated.

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

Benefits

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

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

Components

EME-CIDX is made up of three major components:

- **EME** - BIT's enterprise messaging system based on Spring, Mule and other leading open-source projects with pre-built integrations for CIDX.
- **BDP** - A version of BIT's business document processor tailored for CIDX and the chemical industry.
- **Protocol Proxy** - BIT's secure communications server.



Getting Started with EME-CIDX

"Getting Started with EME-CIDX" 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-CIDX package includes:

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

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

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BIT Integration Project Services

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

Here are some of the projects that our team can support:

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

Please contact the BIT team to discuss your needs.

Proven

EME-CIDX has been successfully implemented for CIDX Shipping Instructions, Ship Notice, Load Tender Motor, Load Tender Response, and Acknowledgement Receipt messages for major chemical manufacturers, warehouses and chemical 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.

BIT was founded by the team that built the messaging engine that runs North American Rail. BIT is also a partly-owned subsidiary of Daugherty Business Solutions, a firm with over 20 years of experience helping their clients achieve their business objectives through the effective use of leading information technology and more than 400 consultants in St. Louis, Atlanta, Minneapolis and Chicago.



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EME-CIDX Technical Details

Integration in EME-CIDX 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-CIDX 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-CIDX can be configured to listen and send CIDX 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-CIDX to work with BIT's Protocol Proxy for secure exchange of messages.

Message Transformation

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

System Requirements

EME-CIDX 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-CIDX is an open-source project that leverages many other proven open-source projects such as Spring, Mule, Derby, Jetty, ActiveMQ and xFire. There are no license fees for EME-CIDX or its components.

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