

# B2B / EDI Integration

## Universal Data Transformation For B2B Integration

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### THE INFORMATICA B2B / EDI SOLUTION: UNIVERSAL DATA TRANSFORMATION FOR THE REALTIME ENTERPRISE®

- Unparalleled Power and Flexibility in Codeless Data Mapping and Conversion
- Unmatched Set of Pre-built Transformations
- Specification-Driven Transformation
- Powerful, GUI-based Transformation Definition, Testing, and Debugging
- Unmatched Adaptability to Existing IT Environment
- “Platform native” for Integration and uptime Performance

Informatica B2B Data Transformation is the industry’s leading software for automating complex data transformation in high-performance, transaction-intensive applications and SOAs. Using Informatica B2B Data Transformation™, organizations can:

- Define complex data transformations without writing code
- Immediately deploy and reuse transformations across enterprise software infrastructure, preserving investment and promoting loosely-coupled, service-oriented integration

Informatica has enhanced B2B Data Transformation with a connectivity package tailored to B2B and EDI requirements and with extended support for B2B / EDI standards. The result is a comprehensive B2B / EDI integration solution that accommodates today’s industry-specific standards and multiple communication protocols—while providing the flexibility to deal with rapidly-evolving business-to-business integration requirements.

### B2B and EDI Integration Challenges

- **Multiple legacy systems, standards, and data formats** – which demand an any-to-any data transformation capability.
- **EDI standard evolution and migration** – there is a growing compliance challenge as the EDI and XML standards evolve; further, partners may customize EDI standards or implement inter-standard transaction flows.
- **Efficient and comprehensive change management** – deal with the rapid evolution of business needs, standards, and technology—while avoiding new costs and operating inefficiencies. For example; the need to simultaneously support EDI and XML, often on multiple (and redundant) infrastructures, tools, and partner platforms, the need to address the high costs of small/medium business (SMB) integration and transaction maintenance in general.
- **Platform integration and open solutions** – platform integration is needed for maintaining business continuity and avoiding vendor lock-in “Platform-native” implementations are critical to solution scalability. And because protocols, interfaces, and formats all evolve independently and at different rates, the solution architecture must maintain strict separation of protocol, interface, and data implementations.
- **B2B BPM integration and performance efficiency** – A B2B / EDI solution should allow integration with existing Business Process Management capabilities so that B2B interactions can be first-class citizens in enterprise-wide business processes, and do so in a way that enhances performance.

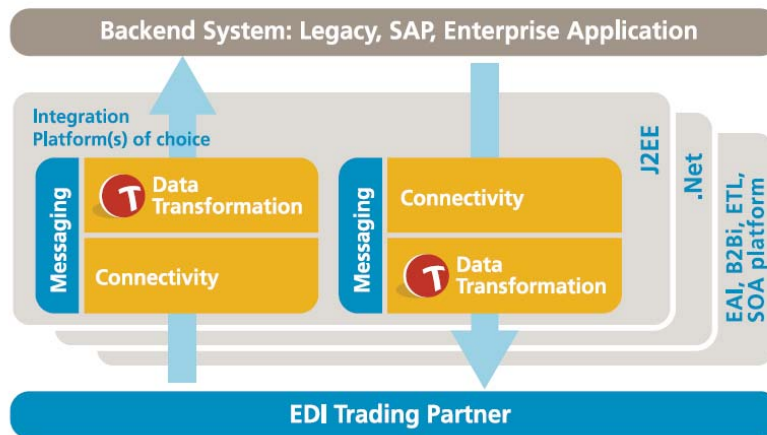
# The Informatica B2B / EDI Solution: Universal Data Transformation for the Realtime Enterprise

## Challenge – Multiple Legacy Systems, Standards, and Data Formats

### Solution – Informatica B2B Data Transformation's Unparalleled Power and Flexibility in Codeless Data Mapping and Conversion

- Allows user-defined, dynamic, rules-driven transformations between any data formats
- Provides the most extensive set of pre-built transformation functions available anywhere and supports the encapsulation and management of existing transformation code for ease of migration
- Can be used to encapsulate existing XSLT code, custom or legacy DataStage TX code in new, reusable transformations built with Informatica B2B Data Transformation

### B2B End-to-End Architecture



### Solution – Informatica B2B Data Transformation's Unmatched Set of Pre-built Transformations

- Broadest support of unstructured, semi-structured, and complex structured data, available in a single solution
- Supported industry formats include EDI X12, EDIFACT, HL7, SWIFT, HIPAA, UCS and WINS, AAR, AL3, VICS, ACORD, Cargo IMP, Legal XML, HR-XML, Cxml, RosettaNet
- Supported document formats include Word, Excel, Adobe PDF, Star Office, AFP, Postscript, PCL, HTML
- Supported legacy formats include COBOL, legacy reports, (positional, non-positional, variant files, undocumented binaries)

## Challenge – EDI Standard Evolution and Migration

### Solution – Specification-Driven Transformation

- Generate a flexible transformation framework from a message specification
- Avoid regulatory penalties—and loss of data—by keeping compliant with the latest standard versions, without having to wait for a patch or upgrade
- Used by Informatica to provide up-to-the-minute pre-built transformations in support of industry standards
- Used by customers to stay current with both industry and proprietary standards

## Challenge – Efficient and Comprehensive Change Management

### Solution – Powerful, GUI-based Transformation Definition, Testing, and Debugging

- Implemented as a plug-in to Eclipse using wizard-driven, drag-and-drop interfaces
- Simple, point-and-click, mark-and-map process
- Unique, patented example-driven transformation capability lets you define a transformation by marking the relevant data directly on a sample of the data source, and mapping that data to a chosen XML schema

## Challenge – Platform Integration and Open Solutions

### Solution – Unmatched Adaptability to Existing IT Environment

- Informatica B2B Data Transformation maintains architectural separation of protocols, formats, and interfaces, which is one of the reasons that Informatica's solution provides more timely updates than competitors. And Informatica B2B Data Transformation's universal deployment capability means that any defined transformation remains independent of technology or middleware platform
- Plugs directly into any SOA, EAI, B2B, ETL, application server platform, or application and as an add-on to popular integration and application server platforms including IBM WebSphere, Oracle Fusion Middleware, Microsoft BizTalk, SAP NetWeaver, Informatica PowerCenter, web-Methods, TIBCO, Sonic, and open source platforms
- Supports software applications including any software developed in Java, C/C++, J2EE, or Microsoft .NET

## Challenge – B2B and BPM Integration and Performance/efficiency

### Solution – “Platform native” for Integration and Runtime Performance

- Because Informatica B2B Data Transformation Engine is directly embedded in supported middleware platforms, transformations can be integrated directly into the enterprise's existing BPM backbone. In addition to providing more scalability and a smaller deployment footprint, this avoids the inefficiency and potential bottleneck of stand-alone servers and the “hub-and-spoke” approach
- Scalable both vertically and horizontally
- Horizontal scalability means that the same transformation definition is deployed across multiple platforms
- Vertical scalability means that each deployed executable is “platform native” and therefore more efficient
- Informatica B2B Data Transformation supports stand-alone transformation servers—but no other solution lets you avoid the overhead of off-platform service invocations from multiple middleware systems

## Informatica B2B and EDI Solution Features

### Support for EDI Standards

Informatica B2B Data Transformation provides pre-built transformations for most versions of industry standard messages including the following EDI standards and derivatives:

- EDIFACT
- EDI X12
- American Railroads EDI
- Grocery Industry EDI
- Warehouse Information
- Voluntary Inter-industry Communication
- HIPAA

Whenever a new version of the standard is released, Informatica uses its Specification-Driven Transformation (SDT) technology to automatically generate new transformations and extend the existing libraries provided with the product. Customers can also use this SDT capability, which is critically important for those who deal with proprietary standard specifications, with customizable standards (such as EDI X12 and EDIFACT), and for those who want to maintain up-to-the-minute compliance instead of waiting for vendor updates.

Informatica also adopts and supports XML versions of above standards as they become prevalent and a first version is released to the market.

### B2B / EDI Connectivity Informatica's B2B and EDI Connectivity Offering Includes:

- Pre-configured Hosts: Reduce set-up time with connections to popular trading partners including Wal-Mart, Lowes, Target, FoodLion, Home Depot, DaimlerChrysler, Covisint, and many others. Over 100 available.
- Certificate Manager: Easily create and manage required certificates. Full-featured and very intuitive. Perform all certificate-related tasks such as generating self-signed certificates and certificate signing requests (CSRs), exporting PKCS12 certificates, etc.

### Communication Protocols

- OFTP
- AS2 - Certified eBusinessReady
- FTP and FTP/S
- HTTP and HTTP/S
- AS3 - Certified eBusinessReady
- ebXML Messaging Service (ebMS) – certified eBusinessReady

### Security Options

- Secure Sockets Layer (SSL v3) / Transport Layer Security (TLS v1)
- Public Key Exchange and Symmetric Key Data Encryption
- RSA or Diffie-Hellman Key Exchange
- Encryption: RC2, RC4, RC5, RSA, DES, 3DES, DESX
- Signature: MD5 SHA1
- Self-signed Certificates

### Other B2B / EDI Features

- Unlimited Number of Trading Partners
- Configurable Validation and Error Reporting
- Unparalleled Performance
- Management and Reporting

**INFORMATICA**<sup>®</sup>  
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