

# Healthcare Solutions

Healthcare organizations face challenges in improving quality of care, adopting new clinical and other technologies, lowering costs, and complying with regulatory requirements such as HIPAA. Often, these objectives require that organizations communicate and integrate across diverse internal and external systems in managing patient and service information. Examples include:

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## INFORMATICA SOLUTIONS FOR HEALTHCARE

- Support for transformation and mapping, via XML, of most healthcare industry standards
  - Pre-built frameworks for HL7, EDI (e.g., ASC X12, EDIFACT) that enable mappings between multiple versions of standards
  - Support for a broad range of other data formats frequently encountered in business integration including unstructured data
  - Ability to embed Informatica data transformation for runtime execution in most distributed infrastructure software platforms
- Consolidating Member Benefits Information Managed – care organizations need an integrated member view across multiple member benefit products that include medical, dental, behavioral health, pharmacy, flexible spending account (FSA), health savings account (HSA) and benefits spending cards. Benefits are often managed across multiple enterprise systems—often as part of a complex COBOL legacy environment—or may be outsourced to business partners.
  - Consolidating Patient Information – As part of the evolution to electronic formats, many providers initially scanned paper records or used other ad-hoc document formats, but have now embraced more systematic electronic exchange of patient data. This data exchange occurs both within and across organizations. Creating and maintaining patient records requires the ability to extract and integrate patient data from a range of “legacy” document and system formats, as well as numerous internal and business partner implementations.
  - Leveraging Industry Standards – Health Level 7 (HL7) was conceived as the common language for clinical data exchange and is used by more than 90 percent of healthcare facilities. With multiple versions of the standard in use (e.g., HL7 versions 2.1, 2.2, 2.3, 2.4, 2.5 and 3.0), there are extensive HL7 data format issues. Health Insurance Portability and Accountability Act (HIPAA) provides a framework to ensure government compliance while sharing information across provider and payer systems using a set of standard healthcare transactions. Real-world implementations require additional data translation and mapping to address variant implementations in HIPAA transactions and other key healthcare forms and transaction types.
  - Integrating New Clinical Technologies – Technologies such as digital imaging, PACS, speech recognition, and computer-based prescription order entry are driving a new set of integration needs in order to be part of effective enterprise-wide improvements.

## Introducing Next-Generation Data Transformation

Informatica addresses the business integration challenges of today's healthcare organization with a powerful and visually intuitive approach to data transformation. Informatica Complex Data Exchange™, our next-generation data transformation software, offers technology that is easy to learn, use and manage. Our methodology lets you accomplish even the most complex transformations visually, without the need for custom development or programming. Best of all, Complex Data Exchange can be integrated with any existing middleware or application architecture.

## Informatica's Unique Advantage: Parsing-by-Example

**Parse-from-Sample:** A simple, point-and-click, mark-and-map process that lets you define an executable transformation between data formats by marking the relevant data directly on a representative sample of the source data, and then mapping that data to an XML schema, DTD or XSD of your choice.

**Example:** Read in a flat file, then Parse-from-Sample by using the definition to teach Complex Data Exchange how to automatically parse any other instance of the flat file into an HL7 message.

**Parse-from-Specification:** Ability to automatically read any private or public specification (i.e., metadata) and then deduce and generate flexible transformation frameworks from any specific instance of the specification. This capability significantly decreases the time required to create robust and transformation libraries for entire data standard sets.

**Example:** Read in the entire HL7 specification from a PDF file, then Parse-from-Specification by using the specification to teach Complex Data Exchange to automatically parse any instance of an HL7 message.

## Fast, Codeless Data Transformation

Informatica's powerful and flexible data transformation solution allows fast, codeless transformation of any data—including the most complex, undocumented data formats encountered in healthcare. It solves the most complex business integration challenge: transformation of proprietary data. In fact, by using Informatica Complex Data Exchange, healthcare business integration efforts are typically reduced by over 80 percent or more— saving significant time and money.

## Informatica Solutions for Healthcare

Informatica's next-generation, any-to-any data transformation technology has been applied to a range of integration applications in the healthcare industry. Specific Informatica solution capabilities that address the needs of healthcare include:

- Support for transformation and mapping, via XML, of most healthcare industry standards including HIPAA, HL7, X12, UB92 claim forms, and NCPDP transactions.
- Pre-built frameworks for HL7, EDI (e.g., ASC X12, EDIFACT) that enable mappings between multiple versions of standards (e.g., HL7 versions 2.1, 2.2,2.3, 2.4, 2.5, 3.0, MLLP, ASTM and site-specific variations).
- Support for a broad range of other data formats frequently encountered in business integration including unstructured data (e.g., document formats and print streams) and semi-structured data (e.g., EDI X12, EDIFACT advanced COBOL and proprietary implementations of standards).
- Ability to embed Informatica data transformation for runtime execution in most distributed infrastructure software platforms including leading integration brokers, content and document management platforms, application adapters, and software applications built on J2EE, Microsoft® .NET and native OS environments.

## Healthcare Applications

- Consolidation of billing and claim processing
- Test Laboratory systems
- Government reporting
- Creation of consolidated patient information
- Integration between HL7, HIPAA, EDI X12, EDIFACT and more
- Integration of provider dictation and speech recognition
- Integration of PACS and other clinical systems

## Informatica's Healthcare Customers Include

- Per-Sé Technologies
- Clalit Health Services
- Cornell University, Weill Medical College
- Excellus Blue Cross/Blue Shield
- Philips
- Department of Health, State of Ohio
- Department of Health, State of Washington
- Physician's Reference Lab

## ABOUT INFORMATICA, INC.

Informatica is the leading provider of next-generation data transformation software for high-performance, mission-critical enterprise applications. Founded in 2000, venture funded and privately held, Informatica is led by an executive team of middleware and advanced technology experts. Informatica's corporate headquarters are in Redwood City, California with sales offices across the U.S. and worldwide distribution. More information on Informatica at [www.informatica.com](http://www.informatica.com).

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6752 (08/26/2008)