

Pervasive Business Integrator for Healthcare

Pervasive Business Integrator for Healthcare™ provides direct connectivity to clinical, operational, and accounting applications, access to legacy data stores, and support for global healthcare messaging standards. It supports both loosely coupled, message oriented integration architectures as well as peer-to-peer connectivity, backed by the power of a patented, event-driven transformation engine. An easy-to-use, integrated development environment (IDE) allows integration architects of all skill levels to be immediately productive, while also providing the flexibility and scalability to solve complex integration challenges at the same time.

Pervasive Business Integrator for Healthcare takes the costs out of integration by combining a singular platform for both Service Oriented Architecture (SOA), Enterprise Service Bus (ESB), and B2B integration projects with an XML-based metadata repository for storing and managing all deployment packages — one development environment to learn, one deployment architecture to manage.

ESB and SOA Integration

Especially suited for building message-driven application integration using ESB and SOA solutions, Pervasive Business Integrator for Healthcare enables the integration architect to quickly define and maintain message processing between multiple applications using HL7 or custom-defined enterprise message formats.

Key Features

- Distributed integration model that allows integration processes and message definitions to be managed centrally, while still being deployed to remote Integration Engines.
- Advanced transformation services that enable developers to map any HL7 version to another or to complimentary standards such as NCPDP.
- Rich data connectivity that facilitates information flow between a wide range of enterprise applications, including connectors for the leading ERP, CRM systems, and databases including Pervasive PostGres™, Oracle, DB2, Sybase, SQL Server, and Pervasive.SQL.
- Process Designer to quickly create custom integration processes.
- Support for Web Services, external event-driven, or continuous processing scenarios.
- Data validation capabilities that ensure adherence to messaging standards before placing data on enterprise service bus or other transport.
- High-performance validation, routing, and transformation in memory processing.

B2B Gateway Integration

Pervasive Business Integrator for Healthcare also provides an IDE for rapid design and deployment of integration processes between payer/payees, care delivery organizations and their suppliers, and other trading partners using industry standards such as HIPAA, HCFA 1500, X.12, and EDIFACT.

Key Features

- Rich connectivity to applications and databases, industry trade standards, and any XML-based document.
- File Folder Queue and FTP Queue listen for arrival of data and real-time processing.
- Sophisticated message processing allows electronic documents to be quickly read, validated, and transformed according to the process design.
- Master schemas available for X12 EDI, EDIFACT, HIPAA, and many others.
- Process Designer aligned to message integration for continuous and scheduled document retrieval from file folders and FTP folders.
- Document Schema Designer simplifies modification of standard schema to match requirements defined by trading partner agreements.

Business Integrator for Healthcare In Action

Per-Se Technologies

“Pervasive’s pre-packaged healthcare schemas allow us to map the client data to our proprietary formats efficiently and effectively. Pervasive has allowed us to have quicker and more reliable client implementations and also has made us better able to respond to changes in file formats.”

Per-Se is a leader in connective healthcare solutions that streamline and simplify the burden of providing healthcare for 2,000 healthcare organizations and more than 47,000 physicians in the U.S. alone.

Challenge: Per-Se needed a HIPAA-compliant solution that would allow them to quickly transform customer data into and out of their standard data format so that it could be processed and sent to payers for claim submission, eligibility checks, and claim status checking.

Solution: Pervasive Business Integrator for Healthcare now provides a seamless interface for bi-directional transformation of data according to HIPAA standards without writing custom code. Pervasive’s integration engine is fully integrated into Per-Se’s real-time services system, providing them the ability to document the data transformations and easily edit maps to accommodate future standards requirements.

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Foundation Features

Whether designing integration processes that tie internal clinical or financial applications together or automating payer/payee claims processing outside the firewall, Pervasive Business Integrator for Healthcare includes numerous foundation tools and services that simplify creating and managing solutions.

Integration Services

- Invocation and deployment of integration processes using Web Services standards, including SOAP and WSDL.
- Direct integration of applications using the provided JCA Resource Adapter, Message Driven Beans, Java, or C APIs.

Process Designer

- Graphical process flow design environment.
- Drag-and-drop creation of complex, multi-step workflows.
- Initiation and interaction with external applications and business processes.
- Streamlined component configuration with Properties grid.
- Support for Message Component Framework.

Map Designer

- Drag-and-drop graphical user interface for mapping and transformations.
- Immediate testing and debugging of transformations.
- Event-driven transformation model that gives flexibility for handling any transformation requirement.
- Rich facilities for error-logging, record reject, transformation, and execution flow-control.
- Mapping and transformation of multi-record type data.
- Access to data — including XML and text — over HTTP/HTTPS, TCP, and FTP.
- Reusable, component-based integration design.

Schema Designers

- Ability to capture and define schema from a wide variety of sources:
 - Standard database schema, unstructured data sets, electronic messages (standards-based messages such as EDI or SWIFT), online reports, email, or other unstructured documents.
- Creation of schematic definitions for binary formats.

Integration Repository

- Open XML-based repository for storing design metadata with ability to check in/out of a source code control system.
- Repository Manager to conduct impact analysis on metadata modifications.*

Message Component Framework

- Framework for adding message component plug-ins built in Java.

- Ability to connect to new message-based queues.
- Automatic recognition of components by Process Designer.
- Support for independent development, versioning, and deployment by Pervasive or third-party vendors.

Rapid Integration Flow Language (RiFL)

- More than 150 pre-built functions with wizards to aid expression building for transforming data.
- RiFL availability throughout development environment for complete control of integration process.
- Name and address parsing and scrubbing, along with table-driven address cleansing.

Connectors

- More than 160 direct data connectors for introspection and integration of most data sources and targets.

Message Parsing and Creation

- X12N (HIPAA), HL7, HCFA 1500, and UB-92
- EDI X.12, UN/EDIFACT, TRADACOMS
- Any custom-designed message schema

Messaging and Transport Connectors

- SOAP, HTTP/HTTPS, TCP, FTP, and OS file system based queues
- MSMQ, IBM-MQ, Oracle-AQ, Any JMS compliant queue

Integration Engines

- Symmetric Multi-Processing (SMP) Integration Engines available for scaling large data load processing across multiple CPUs.
- Command line interface and thoroughly documented Java, COM, and C APIs to allow custom applications to embed the engines.
- Message handoffs among middleware, applications, and Integration Engine occur in memory, permitting high-performance transactions — without disk I/O overhead.
- Execution Profiler enables benchmarking and performance tuning of integration processes.*

Optional Administration and Management Console:

- Integration Manager provides a web-based console for deployment, control, and monitoring of remote Integration Engines.

Specifications

Supported Rapid Service Development Platforms:

- Windows 2000/XP

Supported Deployment Platforms:

- Windows 2000/XP
- Linux
- Solaris, HP-UX, AIX
- OS/390, z/OS UNIX

* Pro Version Only

About Pervasive Software



Pervasive Software is a global value leader in data infrastructure software. The company's award-winning products enable customers to manage, integrate, analyze, and secure their critical data, providing the industry's best combination of performance, flexibility, time-to-value, and low TCO. Founded in 1994, Pervasive provides products and services to thousands of customers worldwide.

For More Information

Pervasive Software has the software and the services to meet your needs. Learn more today:

- visit www.pervasive.com/healthcare
- contact your Pervasive Account Manager at 800.287.4383
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