

## Pervasive Business Integrator for Finance

**Pervasive Business Integrator for Finance™ enables straight-through processing (STP) through integration and connectivity to many types of financial systems including payment management applications, RTGS systems, portfolio management, as well as FX and treasury management systems. 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 Finance takes the costs out of integration by combining a singular platform for both internal EAI and external trading partner 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.**

### Financial Systems Integration

Specially suited for building message-driven application integration in conjunction with Enterprise Service Bus (ESB) and Service Oriented Architecture (SOA) technology, the Pervasive Business Integrator for Finance IDE enables the integration architect to quickly define and maintain message processing between multiple applications using SWIFT, FIX, or custom-defined enterprise message formats.

#### Key Features

- Distributed integration model allows integration processes and message schema definitions to be managed centrally, while still being deployed remotely to where the application resides.
- Transformation services enable developers to map any SWIFT FIN version to another or to an internal message format.
- Rich data connectivity facilitates information flow between a wide range of enterprise applications, including connectors for the leading ERP, CRM systems and databases including Oracle, DB2, Sybase, SQL Server, PostgreSQL and Pervasive.SQL.
- Real-time, event-driven, or continuous processing scenarios are supported.
- Data validation capabilities ensure adherence to messaging standards before placing data on an enterprise service bus or other transport.
- In memory processing ensures high-performance validation, routing and transformation.

### Payment and Securities Network Integration

Pervasive Business Integrator for Finance provides an IDE for rapid design and deployment of integration processes between banking institutions, departments, correspondent banks and other trading partners using industry standards such as SWIFT FIN, FIX, X.12 and EDIFACT.

#### Key Features

- Rich connectivity to applications and databases, industry trade standards and any XML-based document.
- Real-time transport services for Message Oriented Middleware, ESB, File Folder Queue and FTP Queue.
- Sophisticated message processing allows electronic documents to be quickly read, validated, and transformed according to the process design.
- Master schemas available for SWIFT FIN, FIX, X12 EDI, EDIFACT, and many others.
- Document Schema Designer simplifies modification of standard schema to match requirements defined by correspondent banks or internal departments

### Business Integrator for Finance In Action

#### BACS

“BACS, being at the center of the U.K. payments industry, has key issues involving reliability, resilience and security. Pervasive enhances this level of service with robust, dependable solutions. We chose Pervasive because of its excellent user interface, its Java compliance, as well as its ability to expand with the larger volumes of transactions we will see in the future.”

Owned by the major UK clearing banks and building societies, BACS processes over 4 billion financial transactions a year and handles over 60 million payments on a peak day for around 50,000 UK businesses of all types.

**Challenge:** Upgrade electronic payment services system with no disruption to data aggregation and data quality.

**Solution:** BACS uses Pervasive as the integration hub for its upgrade from BACSTEL to the Web-based BACSTEL-IP. Pervasive Business Integrator for Finance, including its powerful UNIX Integration Engine, manages the integration processes for both the current BACSTEL system and the phased introduction of BACSTEL-IP, an upgrade aimed to meet the rapidly growing demand for more efficient electronic payment services, including salary payment and direct debit collections. Technical requirements included use of JMS for the real time conversion of EBCDIC streaming data to XML, and then placement into an Oracle data warehouse.

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## Foundation Features

Whether designing STP processes that tie internal payment systems and financial applications together or automating message transfer outside the firewall, Pervasive Business Integrator for Finance includes numerous foundation tools and services that simplify creating and managing solutions, taking the costs out of integration.

## Process Designer

- Create complex, multi-step integration processes in a visual design environment that includes drag-n-drop, object properties tabs and wizards.
- Split complex messages into smaller, independent components for manageable transformation and content-based routing logic.
- Validate standard and proprietary electronic documents and messages.
- Manage conditional branches as well as concurrent, multi-threading support of steps that are in parallel streams in the process flow diagram.

## Map Designer

- Quickly map and transform HL7, HIPAA, XML and other complex hierarchical structures with a drag-and-drop graphical user interface.
- Test and debug transformation rules as you build them.
- Transform and integrate very large or very complex and dynamic hierarchical data structures with patented, event-driven transformation engine.
- Separate connection definitions from map/transformation logic using a URI-based source/target locator and enable map components to be reusable.

## Schema Designers

- Capture and define schema from the widest variety of sources in the industry: standard database schema, unstructured data sets, electronic messages (standards based messages such as SWIFT), even online reports, e-mail or other structured documents.

## Integration Repository

- Store design metadata with an open XML-based repository with the option of check in/out of source code control systems.

## Rapid Integration Flow Language (RiFL)

- For true Rapid Service Development (RSD) only Pervasive Business Integrator for Finance pro-

vides RiFL – a programming language specifically tailored to speed the time to implement, test, deploy and maintain peer-to-peer and SOA-based integration projects.

- Leverage more than 150 pre-built functions with wizards to aid expression building for transforming, routing and validating messages.

## Message Parsing and Creation

- SWIFT FIN, FIX
- EDI X.12, UN/EDIFACT, TRADACOMS
- Any custom-designed message schema

## Data Connectors

- More than 150 direct data source and target connectors for introspection and integration of almost any database or file content

## 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
- Can be provisioned as an OS service or daemon

## Specifications

### Supported Rapid Service Development Platforms:

- Windows 2000/XP

### Supported Deployment Platforms

- OS/390 (Unix System Services)
- Solaris, HP-UX, AIX
- Linux
- Windows 2000/XP

### Optional Modules:

- Repository Manager
- Execution Profiler

## 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/financialservices](http://www.pervasive.com/financialservices)
- contact your Pervasive Account Manager at 800.287.4383
- email us at [info@pervasive.com](mailto:info@pervasive.com)