LANSA Integrator

Data integration software that connects applications and businesses

LANSA Integrator simplifies exchanging data between applications and transferring files and documents between businesses. It enables bi-directional flows of data and/or files in almost any format including XML, text, image, email, PDF, Microsoft Excel, EDI X12 and EDIFACT.

What can Integrator do?

LANSA Integrator is strategic middleware that provides tools and services to enable:

- Application-to-application data exchanges.
- Business-to-business document transfer and data interchanges.
- Automating manual data integration processes.
- Simplified data integration solution design and reduced development effort.

Integrator provides the data transformation, transport services and infrastructure that can assist developers to build integration solutions. It simplifies integration design by providing the tools needed to receive, extract, transform, and send data. Developers only need to define the data, the transformation rules and choose a data transport. Integrator takes care of the detailed work that ensures the data is in the desired format and reaches its destination successfully.

Integrator supports multiple data formats, including XML, EDI, text, video, SMS, email, Microsoft Excel workbooks, PDF files and relational databases. It includes services for data transformation, communications, email, messaging and Web services, complemented by interface tools and utilities.

Developers can use these services in their integration applications to transform data from one format to another. It supports multiple data transport methods to move the data including HTTP, FTP, SFTP, Web services and message queue software. Any application can call Integrator's services using simple APIs.

A flexible solution

Some of your customers, suppliers or partners may mandate the use of XML or EDI to exchange data; others may use more generic formats like spreadsheets or text files. Integrator's flexibility allows you to choose from an array of many formats to satisfy any data transformation and integration requirements.

Overcome the challenges

Integrating data and applications across diverse platforms typically requires complex technologies like XML, Java, C# etc. LANSA Integrator includes multiple services that simplify application-to-application and business-to-business integration. In addition, integration is automated for Java programs that are required for business logic.

LANSA Integrator eliminates the need for developers to learn these technologies and provides a productive environment for integrating data between diverse applications, computing platforms and businesses.
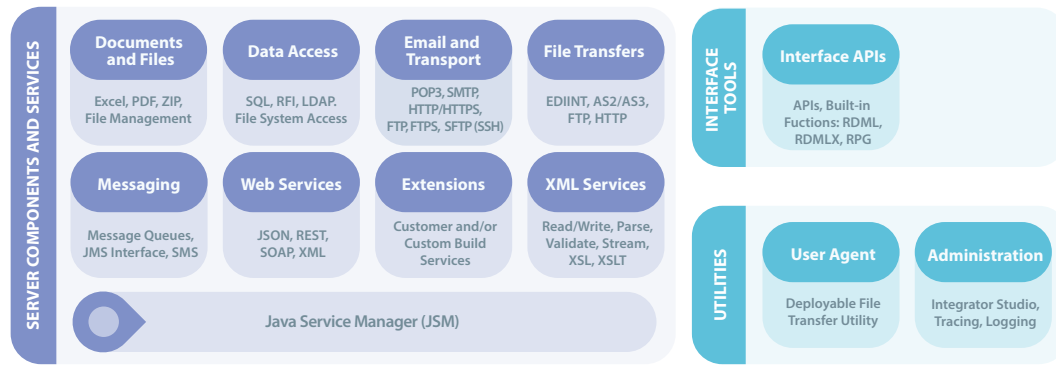
How can you use Integrator?

LANSA Integrator provides a productive toolset for data integration between applications and sending data to/from customers, suppliers and partners. It includes services that developers can use to manage integration interfaces, call upon communications protocols and transform data from one format to another.

Integrator's services for transforming and transporting data make it the "Swiss Army Knife" of data integration. When developers confront a situation requiring data exchange and/or transformation there is an Integrator service that can simplify the task.

Examples of how you could use Integrator:

- Send orders as XML, text, email and an EDI format to a manufacturer automatically.
- Transfer files securely from desktop or laptop computers to remote servers.
- Send data from a mobile device to an application running on a server.
- Generate SMS text messages to a mobile device describing the status of orders or deliveries in real-time.
- Connect a Java-based credit card application to an order entry system.
- Integrate back-office applications using data formatted as XML and sent via IBM WebSphere MQ messaging services.
- Provide PDF documents, secured with digital certificates and password protected, sent via email for contract negotiations and agreements.
- Provide Web service interfaces to existing line-of-business applications.
- Send procurement documents to suppliers and receiving acknowledgements from suppliers.
- Receive a text file via FTP, converting it to a PDF and sending the PDF as an email attachment.

LANSA Integrator Server Components, Services, Interface Tools and Utilities

Features

Summary

- APIs and built-in functions for Visual LANSA and RPG developers
- Ready-made services for application-to-application integration
- Services for enabling business-to-business integration
- Multiple data transformations
- Extensible service catalogue – extend supplied services with customer-built services
- XML and EDI document parsing, generation and transformation
- Real-time and batch data integration and document exchange
- Real-time and batch file transfer
- Event monitoring and trigger capabilities
- Deployable file transfer utility (User Agent) for uploading files to remote servers

LANSA Integrator architecture

- Integrator's Java Service Manager manages interfaces and marshals services
- Fast and scalable multi-threading in a single Java Virtual Machine
- Integrator Studio (property editor and management tools)
- Secure communications (e.g. HTTPS, SFTP, TLS and SSL)
- Extensive tracing and logging for debug and audit
- LANSA Repository for metadata management

Data access services

- Access data using SQL from ODBC or JDBC databases including DB2 on IBM i, Microsoft SQL Server, Oracle, Sybase, and MySQL
- File formats include CSV, TSV and TXT
- Microsoft Excel workbooks
- LANSA working list services
- Remote function invocation for Java developers
- Supports ASC X12 and UN/EDIFACT EDI file formats and Standard Exchange Format Editor
- Handles data encoding Unicode, ASCII and EBCDIC
- Manages multiple clients with different encoding and locale information simultaneously

Message services

- Messaging interfaces support ActiveMQ (Apache), SonicMQ (Progress Software), Rendezvous (Tibco), WebLogic JMS (Oracle) and WebSphere MQ (IBM)
- Supports Java Message Services API
- Send SMS text messages via SMTP or HTTP

Document and file services

- File management (move, copy, delete)
- PDF service to create text and graphical PDF documents
- ZIP service to create and extract archive files and directories

Email services

- Send and receive email messages (POP3 and SMTP)
- Email attachments

Web services

- REST, SOAP and XML Web services
- Supports JavaScript Object Notation (JSON)

XML services

- Automatically generates XSL style sheets for data transformation (XSLT)
- Embedded XML parser with XML editor
- Visual XML Wizard maps XML schemas and XML documents to LANSA and 3GL program data structures
- Read, write and parse XML
- Supports streamed XML
- Validate XML documents using DTD and XML schema

Transport services

- Transport services include HTTP, HTTPS, FTP, SFTP, SMTP, POP3 and messaging software
- JSM Direct HTTP service extension for Web services
- EDIINT AS2, AS3 and EDI
- Secure SMTP email
- TCP/IP versions 4 and 6

Database support

- DB2 on IBM i servers
- Microsoft SQL Server, MySQL, Oracle and Sybase on Windows servers
- Oracle on Linux servers
- JDBC accessible databases

IBM i specific services

- Native services support data queues, message queues and user space communications
- Read and write documents stored in the Integrated File System

Visit www.lansa.com for more information

LANSA