

# LANSA Integrator

## Open business connectivity

LANSA Integrator enables integration of Application-to-Application (A2A) and Business-to-Business (B2B) transactions through XML and Java services. LANSAs Integrator allows bi-directional XML — and other data formats — to be exchanged between you and your trading partners, regardless of platform. It also enables integration of user-written Java services with LANSAs, C, RPG and COBOL applications.

### What can LANSAs Integrator do?

- Automate orders between a manufacturer and distributor by dynamically linking ERP systems.
- Exchange information between ATMs and server-based banking systems.
- Integrate a Java-based credit card application with an order entry system.
- Send and receive XML transactions between suppliers and distributors.
- Exchange data between a stand-alone Wireless device and the server.
- Publish or utilize 3rd-party Web services via SOAP.
- Provide SOAP interfaces to your existing business functions.
- Integrate heterogeneous CRM and back-office systems via XML over MQ Series.
- Provide secure (digital certificates and password protected) PDF documents via email for contract agreements.
- SMS updates on the status of order or delivery transactions in real-time.
- And many more practical applications...

### Overcome the challenges

Integrating data and applications across diverse platforms typically requires complex new technologies like XML, Java, C# and more. LANSAs Integrator includes many XML and Java services for B2B and A2A integration. In addition, integration is automated for Java programs that are required for business logic.

LANSAs Integrator eliminates the need for your programming staff to learn these complex technologies and provides a productive environment for integrating data between diverse platforms and applications.

### A flexible solution

Some of your partners may mandate the use of XML or EDI to exchange data, others may use more basic formats like Excel spreadsheets or flat files. LANSAs Integrator is a flexible solution that allows you to use communication formats — from XML schemas to spreadsheets — and meet any technical requests.



LANSAs Integrator enables integration of A2A and B2B transactions through XML, SOAP and Java services.

### How LANSAs Integrator works

#### Dynamic Transactions

Data can be sent directly from your customers or suppliers via XML or any number of standard file formats. LANSAs Integrator accepts the transmitted data, validates it, sends a response back and then creates the transaction into your back-end application.

#### SOAP Wizard

The SOAP Wizard is an application that allows you to use Web Services from the JSM. LANSAs Integrator's Agent and Server SOAP services let you call or offer Web services easily. Offer your own Web services to expose your own set of operations, with custom parameters and return values, which a third-party client can connect to and use. Or communicate with a third-party Web Service to allow the JSM to communicate with a SOAP-based Web Service using a WSDL file supplied by that service.

#### Integrating with Java

For third-party or user-defined Java classes, the Java Service Manager takes any complex task or protocol and simplifies it into a series of commands. The LANSAs or 3GL developer who wants to utilize these classes only needs to understand how to use the commands offered by the Java Service Manager — they do not need to be experts in Java.

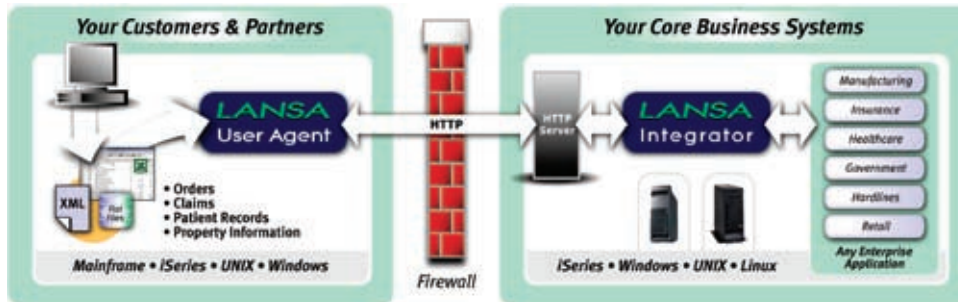
### Visual XML Wizard

The Visual XML Wizard allows you to visually map the attributes of XML Schemas or XML documents to LANSAs fields and lists. The Wizard then automatically creates stylesheets that can be used to transform inbound XML to LANSAs fields and lists or to transform LANSAs fields and lists to outbound XML.

The Visual XML Wizard enables rapid mapping of complex XML tags to LANSAs fields and working lists. This eliminates the code needed to map XML tags to the data for a LANSAs programmer.

### User Agent

The User Agent automates B2B transactions with simple formats like spreadsheets and text files or uses more complex XML files if required. Enter data via Windows clients (and soon Palm and Pocket PC clients) and send the validated files to remote hosts.



One of the many ways you can use LANSAs Integrator to dynamically exchange data between organizations.

## Features

### • Business Process Management

- Easily integrate Java services with LANSAs and 3GL on iSeries, AS/400, Windows, UNIX and Linux
- Shipped Java services for A2A and B2B integration including data transformation
- Easily integrate additional custom services
- XML and EDI document parsing, generation, transformation and support for compiled style sheets (XSLT/translets)
- Real-time data integration and batch data exchange capabilities
- LANSAs Repository for metadata management
- LANSAs HLL for productive process logic definition
- Event recognition and trigger capabilities
- Visual XML Wizard maps XML schemas and XML documents to LANSAs and 3GL data
- User Agent Java client uploads files to remote host using FTP, HTTP or MQSeries

### • LANSAs Integrator Architecture

- Java Service Manager (JSM) provides an interface for calling Java services
- Consistent OO deployment for all services
- Fast and scalable multi-threading in single JVM
- Property editor
- Secure HTTPS, FTPS and other open standards
- Extensive tracing for debug and audit

### • iSeries and AS/400 Specific Services

- Native services support data queue, message queue and user space communication
- Read/write documents stored locally on IFS

### Remote Function Invocation

Remote Function Invocation (RFI) is middleware that makes remote integration as easy as coding to a local object. Windows developers write to local objects that automatically reflect changes to remote host objects with all network communications automated.

RFI is much faster than JDBC — network traffic is minimized and it is easier to code. Instead of a proprietary interface, RFI allows the developer to define any object and have it reflected remotely.

### • Data Format Services

- File formats include CSV, XLS, TSV and TXT
- Supports ASC X12 and UN/EDIFACT EDI file formats and SEF (Standard Exchange Format) Editor
- Embedded XML parser with XML editor
- Automatically generates XSL style sheets for transformation
- LANSAs working list services

### • Transport Services

- Supported transport layers include MQSeries, SMTP, POP3, HTTP, HTTPS, SOAP, FTP and FTPS
- JSM Direct HTTP service extension for inbound and outbound Web services, SOAP and user-defined B2B transactions
- Supports EDI-INT (AS2 certified), AS3 and EDI
- Supports secure SMTP email

### • Remote Application Services

- Remote Function Invocation (RFI) middleware for Java developers
- SQLService to access remote SQL databases

### • Other Services

- PDF services to create text and graphical PDF documents
- SMS Service to send SMS messages via SMTP or HTTP
- ZIP Service to create and extract archive files and directories

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