What is LANSA Composer?
LANSA Composer is a design and execution platform for integrating business activities involving transport, data transformation and custom business processing. It satisfies the four key requirements of a business process integration solution:

- **Transport** – moving data between source and target.
- **Transformation** – mapping data between many different formats.
- **Process Orchestration** – sequential and conditional execution of process flow.
- **Administration** – auditing, error-handling, logging, security and system operations.

LANSA Composer is compatible with all common interfaces; like Web services, EDI, FTP and email. Smart processes handle unexpected events and interrupted sequences can resume from the point of failure and run to completion without loss of data or transaction integrity.

What can LANSA Composer do?
Using LANSA Composer, business analysts assemble business processes to do the following:

- Exchange business information and transactions in common and agreed formats with trading partners, internal business units and other business applications on the same or different computing platforms.
- Transform business information between XML, EDI (UN/EDIFACT and ANSI X12), HL7 (legacy EDI and XML V3.x), XBRL, JSON, Excel, text and database formats.
- Invoke Web services, whether publicly available, published by trading partners or internal to your organization.
- Orchestrate transport, data transformation and other activities, pass variable data between them and apply conditional and structural directives to create multi-step business processes that can be executed and managed as a single unit.

Manage transaction document processing
LANSA Composer is equipped with a built-in transaction document database and a Document Manager. The Document Manager provides the ability to monitor and interrogate inbound and outbound transaction documents. The Document Manager console shows the transaction documents associated with each inbound and outbound document flow. Using the Document Manager’s search facilities, you can search the database for transaction documents by a variety of criteria, such as by trading partner, status, transaction document and content type.

Business analysts use a simple process design canvas to wrap business logic as activities and combine them with industry standard data transformation and transport services to create business processes. Administrators and operations staff use the Document Manager to monitor and manage the transaction document flows.

Who should use it?
LANSA Composer is intended for use by business analysts to design and implement data transformation and business process integration solutions. Orchestrating transport, data transformation and many other tasks is accomplished using a visual user interface with drag-and-drop capability. A comprehensive range of built-in activities makes it possible for non-programmers to create simple solutions to complex problems without coding.
The benefits of LANSA Composer

Automated processes reduce costs by minimizing the need for human intervention and managing exceptions.

LANSA Composer boosts productivity by providing most of the activities companies need for business process integration. With ready-made activities business analysts assemble the processes without writing program code. Assembling a process is faster than writing program code to manage the process.

Because business analysts assemble processes, changing the processes is a straightforward task. Therefore, the processes are more readily adaptable to changes in business activity. In contrast, hard coded processes require developers to write new code and/or rewrite existing code before the process can change. Processes are less adaptable when more people are involved in implementing the changes.

Features

Powerful visual mapping tool
- Drag-and-drop, graphical user interface for transformation mapping
- Transform information between external and internal formats as it is received or before it is sent
- Extract information from corporate databases to send as XML, EDI and other document formats to trading partners
- Transform incoming XML, EDI and other document formats, and write directly to your database for processing by existing applications, and much more
- Multilingual support for user interface

Simple but powerful process orchestration capability
- Define processing sequences visually using the Processing Sequence Editor – without coding
- Processing sequences combine activities and data transformation maps with processing directives such as loops and conditions
- A complete multi-step business process can be defined, executed and managed as a single processing unit of work, without programming
- Restart processing sequences from any point

Ready-to-use activities
- FTP and HTTP transport
- POP3 for inbound and SMTP for outbound email
- SMS (mobile phone text messages)
- Inbound and outbound transactions via message brokering systems such as IBM WebSphere MQ
- SQL database operations
- Watch folders, data queues and message queues
- File management
- Transaction document management
- Variable manipulation
- Processing and data transformation

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