



Infor LN Integration Guide for Infor LN Analytics Foundation

LN 10.3 or later

LN Analytics Foundation 10.4.1 or later

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About this guide

This document describes the integration of Infor LN and Infor LN Analytics Foundation. It explains the integration requirements, configuration tasks, and troubleshooting information. This document also describes how to publish Business Object Documents (BODs), load your data, and verify that the integration is set up correctly.

Intended audience

This guide is intended for the system administrator or consultant who will configure the integration between Infor LN and Infor LN Analytics Foundation. Before you read this guide, ensure that you are familiar with the other guides listed in “

Related documents.”

Required knowledge

To integrate Infor LN and Infor LN Analytics Foundation, you must have experience or knowledge in these areas:

- Understand the concepts behind Infor ION and BODs, and how the concepts relate to each of the products in this integration. For more information, see these topics:
 - “Overview” section in Infor LN *Configuration Guide for Infor ION*
 - “Additional Business Vault BOD information” section in *Infor Business Vault Administration Guide*

Related documents

This table shows the types of documents that are related to ION integrations and their purpose:

Document type	Purpose
<i>Infor LN Configuration Guide for Infor ION</i>	This guide provides configuration and implementation information for the BOD-based integration of LN with ION when ION is used to exchange data with another Infor or third-party product. The document describes configuration requirements and provides setup instructions that are specific to LN. It provides information about the business events or user actions in LN that send the various BODs to ION Connect.
<i>Infor LN Outbound BOD Mapping and Descriptions</i>	For each BOD that the product has certified, this document provides the source and definition of the data in each BOD element that is sent from the product through ION. This document also provides details about the data that is published.
<i>Infor LN to Infor BDS Cross BOD Mapping and Descriptions</i>	This document provides end-to-end integrated BOD mapping details for BODs that are exchanged between this product and another product. It describes the exceptions and handling requirements by element.
<i>Infor LN Integration Guide for Infor ION Business Vault</i>	This document provides implementation information for the BOD integration between the product and Infor ION Business Vault for use by Infor Reporting and Infor Business Analytics. This guide describes the configuration requirements and provides setup instructions. It includes information about how to verify and troubleshoot the integration.
<i>Infor Business Analytics Installation Guide</i>	This document provides installation and configuration information for the Infor LN Analytics Foundation.
<i>Infor Business Vault Administration Guide</i>	This document describes configuration information for Business Vault.

Not all of these documents are required to set up this integration. For a list of documents that are required for this integration, see the integration checklist within this document.

Contacting Infor

If you have questions about Infor products, go to the Infor Xtreme Support portal at www.infor.com/inforxtreme.

If we update this document after the product release, we will post the new version on this website. We recommend that you check this website periodically for updated documentation.

If you have comments about Infor documentation, contact documentation@infor.com.

Chapter 1 Requirements

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Ensure that all requirements and prerequisites are met.

Required products

Ensure that you have installed and configured the necessary hardware and software for all of these components:

- Infor ION Connect release 10.2 or later. The server where you install ION must be able to connect to the servers where you install Infor LN and Infor Business Vault.
- Infor LN 10.3 or later
- Infor LN Analytics Foundation 10.4.1 or later
- Infor Business Vault, BDS, OLAP, BI Application studio, see the next table

Foundation version	BV version	BDS version	OLAP version	BI version
10.4.1	11.2	10.3.7		10.6
10.4.2	11.3	10.4.4		11.0
10.5.0	11.3	10.4.4	11.0.0.254	11.0.0.237

Chapter 2 Integration checklist

2

Follow this checklist to integrate the products:

Complete?	Task	Reference
<input type="checkbox"/>	Collect the documents listed in the next column from Infor Xtreme. These documents are required for this integration.	<ul style="list-style-type: none">• <i>Infor LN Configuration Guide for Infor ION</i>• <i>Infor LN Integration Guide for Infor ION Business Vault</i>• <i>Infor LN to Infor BDS Cross BOD Mapping and Descriptions</i>
<input type="checkbox"/>	Ensure that all requirements and prerequisites are met.	“Requirements” on page 9
<input type="checkbox"/>	Review the description of this integration.	“Overview” on page 13
<input type="checkbox"/>	Verify that the Infor LN instances you plan to use are connected to Infor ION. If they have not been configured, then configure the connection.	“Configuring Infor LN” section in <i>Infor LN Configuration Guide for Infor ION</i>
<input type="checkbox"/>	Verify that the Infor Business Vault instances you plan to use are connected to Infor ION. If they have not been configured, then configure the connection.	“Business Vault integration and Infor LN settings” section in <i>Infor LN Integration Guide for Infor ION Business Vault</i>
<input type="checkbox"/>	Perform additional configuration of Infor LN specific to this integration.	“Configuring the products” on page 15
<input type="checkbox"/>	Perform additional configuration of Infor Business Vault specific to this integration.	

Terminology

The terminology between Infor LN and Infor LN Analytics Foundation differs in some areas. To explain the process and communicate steps clearly, sometimes the BOD terminology is used. This table shows an overview of the Infor LN, Infor LN Analytics Foundation, and BOD terminology:

Infor LN term	Infor LN Analytics Foundation term	BOD term
Item	Item	ItemMaster
Business partner	Supplier/Customer	SupplierPartyMaster/CustomerPartyMaster
Unit	Unit	CodeDefinition (UOM)

See the appropriate configuration guide for Infor ION to review definitions of ION and BOD terms.

Integration of solution components

ION transports BODs from Infor LN to Infor Business Vault, no BODs are transported from Infor Business Vault to Infor LN. The Business Vault extracts data from BODs to fill the base data store (BDS) for use by Infor LN Analytics Foundation.

See the appropriate configuration guide for ION for the complete list of BODs available for each product and for a list of the events that generate each BOD.

Data mapping

Use the *Infor LN to Infor BDS Cross BOD Mapping and Descriptions* guide if you need to determine the source location and target location of the integrated data, and which conversions, if any, are performed between the source and target.

Chapter 4 Configuring the products

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ION transports BODs from Infor LN to Infor Business Vault. The Business Vault extracts data from BODs to fill the base data store (BDS) for use by Infor LN Analytics Foundation.

LN

In Infor LN you must complete configuration tasks as described in the Infor LN Configuration Guide for Infor ION.

Integration to Analytics Foundation specifically requires to setup account mappings to taxonomies (US GAAP, IFRS or HBG). Account mappings are to be configured in hierarchies in Business Vault.

Note: In LN 10.5 taxonomy functionality has been added that allows to map accounts in LN. In future this mapping will be published as part of the ChartOfAccounts BOD, stored in BDS and read by hierarchies in Business Vault, such that configuration in Business Vault is not required anymore.

ION

In ION, setup routing from LN (send from application) to Business Vault (receive in application) for the following BODs:

1. AccountingEntity
2. AccountingChart
3. CodeDefinition
4. ChartOfAccounts
5. CustomerPartyMaster
6. CustomerReturn
7. FinancialCalendar
8. Invoice

- 9. ItemMaster
- 10. LnVendorRating (ensure to register the LN specific BODs as standard BOD in IONs registry)
- 11. Location
- 12. Person
- 13. ProductionOrder
- 14. ProjectMaster
- 15. PurchaseOrder
- 16. SalesOrder
- 17. SupplierPartyMaster
- 18. ShipFromPartyMaster
- 19. SourceSystemGLMovement

Business Vault

In Infor Business Vault you must complete configuration tasks as described in the Infor LN Integration Guide for Infor ION Business Vault.

1. On the server where Business Vault is installed, register the LN specific BODs in the dedicated noun drop folder of Business Vault, specifically the LnVendorRating BOD is used in Analytics Foundation.
2. In SQL server studio, run the SQL queries to create the tables in the database as specified in the database connection.
3. In Business Vault Desk, create a data store for the LN specific BODs, for example called 'LN_BDS' and point to the same database connection as used for the data store for the standard business vault data store.
4. In Business Vault Desk, import the BOD Mappings (shredder definitions) in the LN data store and activate.

Infor Analytics Foundation

In Infor Analytics Foundation you must complete configuration tasks as described in the Infor LN Infor Analytics Installation Guide..

Chapter 5 Publishing BODs

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After the ION connections are configured, BODs must be published for this integration.

Starting products and services

Start these products, services and processes if they are not already running:

- Infor LN
- Business Vault services
- ION Service. Use the ION Grid Management user interface to verify that the ION Service is running. See the *Infor ION Connect Administration Guide*.
- Analytics

Initial data load

During normal processing, BODs are generated when a user makes a data change or completes a transaction. However, when you set up a new integration with Business Vault, you must manually generate BODs that pass the current set of Infor LN data to Business Vault, so that the base systems are synchronized. The BODs are placed in the message outbox, from which Infor ION retrieves them and passes them to Business Vault.

Document 'Domain Descriptions Infor Business Analytics' describes in detail the BODs that are used per domain. Note that some of the code lists are prepackaged with the Business Vault product.

This document describes how to publish the required BODs from LN:

Publishing existing master data

To publish the existing master data to Business Vault.

To ensure that other connection points are not be disturbed by the initial load of Business Vault, on the **Options** tab of the initial load sessions, select **Use Show Verb** and specify the logical ID of the Business Vault connection point in the Logical ID field.

Select the **Publish Logistic Master Data (tcbod0200m000)** session.

- 1 On the **PartyMaster** tab, select the Sold-to, Buy-from, and Ship-from roles.
- 2 On the **ItemMaster** tab, select Items and Revisions for publishing.
- 3 On the **Location** tab, select all location types.
- 4 On the **Person** tab, select the employees.
- 5 On the **Project** tab, select the manufacturing (PCS) projects.

Select the **Publish Logistic Code Definitions A-L (tcbod0200m100)** session.

- 6 Customer Types
- 7 Departments
- 8 Industries
- 9 Item Classes
- 10 Item Groups

Select the **Publish Logistic Code Definitions M-Z (tcbod0200m200)** sessions.

- 11 Markets
- 12 Product Lines
- 13 Territories
- 14 Unit Codes
- 15 System Defined List IDs (Item Types, MRO Classes, etc)

Select the **Publish Financial Master Data (tfbia0200m000)** session.

- 16 On the **AccountingEntity** tab, select the **AccountingEntity**.
- 17 On the **CodeDefinition I, II, III** tabs select all check boxes.
- 18 On the **Charts** tab, select the **AccountingChart** and **ChartOfAccounts**
- 19 On the **FinancialCalendar** tab, select the **FinancialCalendar**.

Select the **Publish Project Data (tpbod0200m000)** session.

- 20 On the **Project** tab, select the (TP) projects.

Publishing transactional BODs

To publish procurement, sales, production and finance bods:

Select the **Publish Order Management Transactional Data (tdbod0200m000)** session.

- 1 On the **PurchaseOrder** tab, select the purchase orders.
- 2 On the **SalesOrder** tab, select the sales order.
- 3 On the **CustomerReturn** tab, select the customer returns (sales orders with negative quantity).
- 4 On the **LnVendorRating** tab, select the vendor ratings.

Select the **Publish Manufacturing Transactional Data (tibod0200m000)** session.

- 5 On the **ProductionOrder I and II** tab, select the shop floor production orders and assembly orders.

Select the **Publish Financial Transactional Data (tfbia0210m000)** session.

- 6 On the **Invoice** tab, select the invoice from central invoicing and accounts receivable (invoices are used for sales domain in analytics foundation)

Select the **Publish General Ledger Movement (tfbia8205m000)** session.

- 7 On the **SourceSystemGLMovement** tab, select Opening, Actual and Budget.

Publishing any additional initialization data

All master and initializing data is included in the initial loads from Infor LN. Additional master data BODs and transaction BODs are generated through Infor LN business events as they occur.

For a list of the events that generate BODs, see “Business events that generate outbound BODs” in the *Infor LN Configuration Guide for Infor ION*.