



Infor LN Specific Installation Guide - Updates

Release 10.5.2

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About this guide

This document describes the update procedure of an existing LN environment with a newer version of:

- Enterprise Server, known as tools.
- LN, known as applications.

This document also applies to Infor Baan 5.2 environments already running on Porting Set 8 or later.

Intended audience

This document is intended for LN database administrators, application and system administrators.

To understand this document, it is advised to have knowledge of how LN is structured with:

- Package VRCs.
- Package combinations.
- Derived-from structure.

Related documents

You can find the documents in the product documentation section of the Infor Xtreme Support portal, as described in "Contacting Infor".

- *Infor LN - Installation Guide.*
- *Infor LN - DEM Content Pack User Guide.*
- *Infor Enterprise Server - Administration Guide.*
- *Infor Enterprise Server Release Notes*

Contacting Infor

If you have questions about Infor products, go to Infor Concierge at <https://concierge.infor.com/> and create a support incident.

If we update this document after the product release, we will post the new version on the Infor Support Portal. To access documentation, select **Search > Browse Documentation**. We recommend that you check this portal periodically for updated documentation.

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

Chapter 1: Introduction

The Installable Units (IUs) that are used for the update to Infor LN and Infor Enterprise Server.

For information about installing new LN environment, see *Infor LN - Installation Guide*.

For this update, these IUs are mandatory:

- Infor Staging Wizard
- Infor Installation Wizard
- Infor ES Porting Set
- Infor Support Assistant
- Infor ES PMC Solutions.
- Infor LN PMC Solutions
- Infor ES AddOn PMC Solutions

Optional

- Infor Solution License Manager
- Infor Application Service Manager

Do not stage these IUs:

- Infor LN
- Infor Enterprise Server

These IUs are the initial base software and are already installed during the first installation of LN. When installing them again, a check is run by the Installation Wizard. A warning is displayed informing you that installing the IUs is not possible.

Description Installable Units (IUs)

Infor LN consists of different components, the so-called Installable Units (IU). These Installable Units must be placed in a directory on the system from where the installation is started. This directory is called the staging area.

Infor Staging Wizard

This wizard is used to build a staging area. A staging area is a storage place for various Installable Units before the actual installation can start.

Warning: For each major update, always create a new staging area. This update is an example of a major update.

Infor Installation Wizard

This wizard must be used to perform the installation or update of an LN environment based on the Installable Units available in the staging area.

Infor ES Porting Set

The Enterprise Server virtual machine also known as binaries. This is the OS dependent basis on which the LN application runs.

Infor ES PMC Solutions

The set of PMC solutions needed to update to the last version of Enterprise Server. Updating can be done for all previous versions of Enterprise Server, using only this Installable Unit. Next to the latest Enterprise Server version, this Installable Unit contains all preceding versions.

Infor ES AddOn PMC Solutions

Enterprise Server AddOn PMC Solutions are required to update to the latest version of Enterprise Server AddOn. Updating can be done for all previous versions of Enterprise Server, using only this Installable Unit. Next to the latest version of Enterprise Server AddOn, this Installable Unit contains all preceding versions.

We recommend that you install this Installable Unit to keep Enterprise Server and Enterprise Server AddOn at the same version level.

This Installable Unit contains the package `da`, `nt`, `ta` and `tm`.

Infor Solution License Manager

The Solution License Manager installs or updates the SLM client and SLM server on the system that is specified for installation.

Infor Application Service Manager

Infor Application Service Manager is mainly used with Infor Technology Architecture to manage the number of Adapters for ERP (Infor LN) servers related to the load. It can also be used to manage LN jobs.

Installation of this Installable Unit is optional.

Note: Installing ASM version 1.9.2 with the Installation Wizard 15.6.5.1 or later, can produce errors and ASM will not run properly. During the installation this message can be displayed: `Error during Application Server Manager installation`. To prevent issues, go to the ASM Installable Unit folder and run `vcredist_x64.exe`. After running the script you can install LN and ASM with the Installation Wizard.

Alternatively, do not install ASM with the Installation Wizard, but use the stand-alone ASM setup before installing LN.

Infor Support Assistant

The Infor Support Assistant (ISA) will help your company keep up to date with information about your Infor environment.

Note: You must install the Infor Support Assistant together with an Infor ES Porting Set.

Infor LN PMC Solutions

LN PMC Solutions are needed to update LN (applications) to a new Feature Pack. This solution contains the LN application software and the Business Object Document package containing the BODs for integration with other applications.

If you update LN to the new Feature Pack, the appropriate version of this Installable Unit must be installed. Update is possible in one installer run.

Chapter 2: DUE steps for EDI, Central Invoicing, Project package and EBS

To avoid data corruption, you must complete this procedure for Business Document Exchange (EDI), (Central) invoicing package (cisli), Project package (tpppc) and Electronic Bank Statement (EBS). If you are not using these modules, you can ignore this procedure.

Before installing LN 10.2 or later, data must be processed on your LN FP7, FP6, or any older Feature Pack of LN you are currently running.

The steps are required to process data according the pre-LN 10.2 or later format.

Business Document Exchange (EDI)

A migration that includes an EDI setup requires some extra consideration.

For a new LN version/feature pack, the EDI document definitions (EDI conversion setups) can be changed. This was the case for LN 10.5.x, because of changes in the cisli module. New conversion setups were made available for the EDI invoice message.

The static EDI tables can be converted without any issues. The dynamic tables, especially the conversion definitions, must be treated with extra care. These definitions define the content and structure of an EDI message.

Download the definitions for their supported LN version with the available documentation from: <http://edi.infor.com/>

Invoicing (cisli)

With LN 10.2 or later, the Invoicing package is restructured to allow for better handling of Invoices. This specifically counts for the way Invoice data is calculated, posted to the General Ledger, and for archiving/deleting of invoicing data. The introduction of a new Invoicing 360 session required an improved data model.

As a consequence, the data in the 'existing' invoicing tables require conversion. These conversions will apply to the different statuses of the Invoice (Lines);

- Invoice Lines that still must be composed (for example; **On Hold**, **Canceled** and **Confirmed**): do not change these lines. The lines will be processed by the Data Upgrade Engine (DUE).
- Invoice Lines that have status **Composed/Printed/Posted**: see further in this section for the comments on Invoice level.
- Invoice Lines/Invoices that have status **Composed**: these are decomposed. The Billing Request remains and contains the same Invoice Lines. The Billing Request must be **Composed/Printed/Posted** again in LN 10.2 (or later version) against the new logic and data model.
- Invoice Lines/Invoices that have status **Printed**: These must be processed till no Invoice Lines/Invoices remain with status **Printed**! This is described later.
- Invoice Lines/Invoices that have status **Posted**: These are processed by the Data Upgrade Engine (DUE) and do not require further manual processing before the installation and upgrade of LN 10.2 (or later versions). As this data becomes redundant, a Post Upgrade session can remove the data, see [Infor LN Post-DUE steps](#) on page 13.

Processing Invoices with status Printed

Note: This section is only valid during an upgrade of LN version 10.2.1 - FP7 and earlier- to LN version 10.2.1 or later.

Before LN is installed, ensure that no invoices have the status **Printed**.

- 1 Start session **Post Invoices (cisli3200m000)** and run this with wide open range.
- 2 Click **Post**, a **Processing** dialog box is displayed.
- 3 When finished, a message is displayed with the number of Billing Request(s) that are posted. There can be an error report (or even multiple reports) showing errors for a variety of reasons. Check the error reports and solve the errors.
- 4 Run the **Post Invoices (cisli3200m000)** session again.
- 5 When the process has finished, start session cisli2505m100. Ensure you are in the correct company. In the **Status** column, filter for **Printed**. You must see an empty grid. Ensure this applies to all companies that are part of the Data Upgrade to the newest Feature Pack. In case there are no invoices shown, you can proceed to the next step.
- 6 Start session **Billing Requests (cisli2100m000)**. Ensure you are in the correct company.
- 7 In the **Status** column, filter for **Printed**. After the filter is applied, there must be no more Billing Requests with the status **Printed** visible.

If there are still records with the status **Printed**, solve the issue that is causing this status and check again. Ensure there are no Invoices or Billing Requests with the status **Printed** in any of the companies that are part of the Data Upgrade.

Note: If the sessions cisli2505m100 and cisli2100m000 in any company number show records with the status **Printed**, serious data corruption can be caused during the LN installation. This process cannot be reverted nor converted.

- 8 After the check, you are ready to start the upgrade for the range of companies that are processed.

Project (tpppc)

As part of the Aerospace & Defense developments, the Project Cost and Revenue Ledger processes are restructured to allow for a better integration with other packages and ease of use. As a consequence, the well-known 5 Cost Type tables (Material/Labor/Equipment/Subcontracting/Sundry) are merged into one. The manual step to process these Costs into the General Ledger and Project Cost History is automated. After a transaction is approved and sent to Project for storage in the Project Cost Ledger, it is automatically processed to the General Ledger and Project Cost History. Manual Costs must still be approved and processed manually to the General Ledger and Project Cost History.

The revenues that arrive from Invoicing are also automatically posted to General Ledger and Project Revenue History. Revenues that are specified manually in the Revenues session must still be manually approved and processed to the General Ledger and Project Revenue History.

To prepare for the Data Upgrade and the new processes in LN 10.2 (or later version). You must process all costs and revenues that are not posted to General Ledger and not yet available in Project Cost/Revenue History.

- 1 Start session **Global Approving (tpppc4200m000)**. Ensure that all Projects are in range and that on the second tab all categories are selected. Click **Approve**
- 2 Start session **Process Transactions (tpppc4802m000)** and ensure all Projects are in range and that on the second tab all categories are selected. Click **Process**.
- 3 Repeat this process for all companies that are in use and require Data Upgrade. This can be verified by starting session **Costs (tpppc2811m000)** and conclude that there are no more Costs visible for Cost Types Material/Labor/Equipment/Subcontracting/Sundry.

The same must be verified for the Revenues by starting the **Revenues (tpppc3501m000)** session; no Revenue records must be visible.

When this is finished, the Project package is ready to be upgraded through the Data Upgrade Engine.

Note: If the sessions, tpppc2511m000/tpppc2531m000/tpppc2551m000/tpppc2571m000/tpppc2591m000/tpppc3501m000, show Cost/Revenue records during the LN 10.2 (or later versions) installation. You will create serious data corruption of not processed Costs/Revenues. This data corruption cannot be reverted or converted anymore.

Electronic Bank Statements

The Electronic Bank Statement (EBS) functionality is restructured completely.

This specifically counts for the way the data is stored and handled. The new EBS tables replace the old EBS tables.

As a consequence, the data in the 'existing' EBS tables must be converted.

The matching and handling of the posting data is now different. You cannot convert the old EBS if the status is beyond *Converted*. All EBS that have status *Converted* is converted in the new EBS tables using the DUE logic provided.

Before conversion, the existing EBS must be posted to Finance (the last step) when the "old" status is:

- Matching in process.
This status is not allowed. It means that the match process was interrupted by for example a fatal error.
- Partially matched.
In the tfcmg5503m000 session, select **Specific > Posting Data - Electronic Bank Statement (tfcmg5513m000)** session. Manually match the bank statement lines until all lines have status "Matched". The EBS batch receives the "*Matched*" status.
- Matched.
In Audit Posting Data of Electronic Bank Statements (tfcmg5203m000) you can audit the EBS batch. The EBS batch receives the "*Audited*" status.
- Audited.
In Post Electronic Bank Statements (tfcmg5222m000) session you can post the EBS batch. The EBS batch receives the "*Posted*" status.

LN Post-DUE steps

Invoices with status "Posted".

After completing the installation of LN 10.2 (or later) and the Data Upgrade process. The converted Invoicing tables, the 'old' tables, still contain the old Invoice data. This data can be removed.

- 1 Start the **Clear Obsolete Invoice Tables (cisli9205m000)** session in LN.
- 2 Specify the selection ranges and click **Process**. This removes all data in these tables:
 - cisli205
 - cisli206
 - cisli207
 - cisli208
 - cisli209

We recommend that you run this post-due step any moment in time after the Data Upgrade Process has finished. The data in the tables that were mentioned earlier are no longer used by LN 10.2 (or later versions). It only consumes disk space which can be freed up.

Run this removing process once, as invoices that are created with LN 10.2 (or later versions) will not exist in the tables mentioned earlier.

Wherever applicable, the operations package such as Sales Orders, zoom to the new environment and no longer to the tables that were mentioned earlier.

In addition, the **Archive and Delete Invoicing Data (cisli3210m000)** session is rewritten for better control of Invoice Data. With this session, the redundant Posted Invoice Lines (for example; table cisli245, cisli255 etc.) can be removed. This data is already available in the new Invoice Line table (cisli310).

For new Invoices, the data is automatically removed from the tables cisli245 and parallel tables.
For upgraded Billable Lines, the data is automatically removed from the tables cisli245 and parallel tables during the upgrade.

Chapter 3: Prerequisites

The prerequisites to update to Enterprise Server.

Last minute information

For the latest information, take note of these solutions on <http://www.infor.com/inforxtreme>.

Solution	Description
22867311	This solution provides an overview of the LN applications solutions. It is recommended to choose the latest version of the software for new installations. For possible installation problems and last minute solutions you must install extra information gathered after completion of the documentation.
1404654	This solution provides information about Infor Enterprise Server.
22881401	Latest information about system sizing, performance considerations and operating system and database tuning aspects.

Antivirus software

Antivirus software can interrupt the LN software installation process. We recommend that you exclude the Infor installation path with its subdirectories from the antivirus exclusion list.

Another option is to temporarily disable all antivirus software during the installation. Do not forget to re-enable the antivirus software after the installation is complete.

PMC solutions

For information about updating an environment with PMC solutions, see the *Infor Enterprise Server - Administration Guide*. In the “LN Software maintenance” chapter, a section explains the PMC recipient procedure.

On your system go to **Tools > Software installation > Miscellaneous> Recipient**.

Update to Infor Enterprise Server

Together with other documents that apply to your configuration, read these documents:

- *Infor Enterprise Server Release Notes*
- *Technical Notes for the Porting Set*
- The platform support matrix that is available in solution **1183466**

We recommend that you regularly install available Enterprise Server solutions; therefore, the environment is always up-to-date with the latest patches.

Note: When you perform an LN installation on a remote (Linux or UNIX) host ensure that your (Linux/UNIX) server runs a SSH File Transfer Protocol (SFTP) daemon.

Parallel table reconfiguration

Running tasks in parallel, can speed up the reconfiguration of many tables during a bdbreconfig process. It improves the performance during the update. The minimum number of parallel processes is 1 (sequential behavior) and the maximum is 128. Ensure to pick a value that fits your system. Too much parallelism can cause system overload and database connection issues. For more information see the *Infor Enterprise Server - Technical Manual*.

Solution License Manager (SLM)

Before you start the update to Infor Enterprise Server, you can update your SLM Server and Client to the latest SLM version. Check solution 22881484 on the Infor Xtreme Support portal at <http://www.infor.com/inforxtreme>

Note: You can install SLM with the SLM installer or as an IU with the Installation Wizard during the LN upgrade.

Infor Enterprise Server 8.4 introduced maintenance licensing. When upgrading from an older version, add this product-id to your SLM license manager:

- Infor365 Maintenance Contract: 10365

Register as a Concurrent User with a quantity of 1.

Specify the end-date of your maintenance contract for Infor LN

Updating an LN SP0 environment

These PMC solutions must be installed:

- 22842663
- 22898863
- 22899649
- 22916327

If the PMC session “Download, Scan and Connect Solution (Multi-Level)” (ttpmc2210s000) does not work, install solution 22848797.

Note:

During the upgrade of the Enterprise Server components, Porting Set, and tools, this message can occur:

```
1 : process 1 - Error: Regular expression error nr 60 (Range error in
bracket
(start>end)) in '[a-zA-Z0-9_-.]* *$' (process.one.obsolete.solution()
in object ottpmcdllscan
```

You can ignore this message.

Updating an LN SP1/ES7 environment

These PMC solutions must be installed:

- 22842663
- 22898863
- 22899649
- 22916327

Updating an LN FP2/ES8.2 environment

These PMC solutions must be installed:

- 22842461

Note the pre-installation instructions and ensure you install this solution (200874) as the last solution in a run. Directly after this solution, the post-installation instructions must be followed-up. If not, the installation of subsequent solutions or the create runtime for tools will fail.

- 22842545
- 22898863
- 22899649
- 22916327

Updating an LN FP3/ES8.3 environment

Ensure that you have these PMC solutions installed:

- 22898863
- 22899649
- 22916327

Updating an LN FP3/ES8.4 onwards

- From LN FP3/ES8.4 onwards, there are no pre-requisites for this update.

ES AddOn PMC Solutions

From version 8.4.1 onwards, this Installable Unit contains the packages da, nt, ta, and tm. In previous versions this installable unit contained the package tm.

The packages da and nt were part of different Installable Units. The default update vrc for these packages is changed. Check the Package Combinations, which must be used for these packages, after the update. The packages in this version are delivered in total. Do not use older versions of these packages.

During installation, these package VRCs can only be added to existing Package Combinations. Therefore, if you specified a new Package Combination to be created for the latest version, this Package Combination cannot be extended with these package VRCs.

This table shows the PMC Base vrc's:

Package	VRC
da	105 0 ta

Package	VRC
nt	105 0 ta
ta	105 0 ta
tm	105 0 ta

Infor Adapter 2.7 or earlier for LN

This section applies only to customers who use the Adapter 2.7 for LN or earlier; users of version 8.4 and later can skip this section.

From version ES8.4, the Adapter for LN is delivered as part of the LN application itself, as part of the Porting Set and Enterprise Server AddOn.

Because of the new delivery, conflicts with existing installations, such as 2.7 or 2.6, can arise. The two options are to update to the new version, or keep using the old version.

For more information, see the *Configuration Guide for Adapters and Connectors (U8622 US)*.

Updating Adapter version 2.6 or 2.7

To update the Adapter:

- 1 Install the Enterprise Server AddOn PMC solutions.

Installing the Infor Enterprise ServerAddOn delivers all LN sessions and API, such as:

- tmboaserver
- tmbdeserver

- 2 In \$BSE/java, remove these files:

- b3.jar
- owxml.jar

No update to the new Adapter

This process consists of:

- 1 Do not select the Enterprise Server AddOn to install; this is only possible if update of packages da and nt are not needed. Ensure the relevant package combinations still point to the old version of the package.
- 2 After the Enterprise Server AddOn installation, in \$BSE/java, remove these files:
 - ow.jar
 - ow3p.jar

- `owconfig.properties`

Updating language Packs

If you decide to install an extra language, ensure that a language pack is available. You cannot install language packs of earlier versions. See the language installation process in the *Infor LN - Installation Guide*.

Chapter 4: Update process

You can update an environment to:

- Enterprise Server 10.5.x (tools).
- An Infor LN environment to 10.5.x (application) and Enterprise Server 10.5.x (tools).

Check the Last Minute Solutions about the product to install on the online support website at: <http://www.infor.com/inforxtreme>

Staging the software

With the Staging Wizard you create a Staging Area. A Staging Area is used as part of the Infor LN installation process to install components from. The components that are stored in the Staging Area are the Installable units (IU). The Installation Wizard can install the Installable Units in one run.

Note: we recommend that you create a new staging area when running a fresh installation or an update.

The way in which the Staging Wizard behaves depends on the location where you start the Staging Wizard:

- You start the Staging Wizard from the Infor Enterprise Server medium to create a staging area, the Wizard asks you to specify a destination directory where to copy the Installable Units.
- You start the Staging Wizard from the Staging Area to stage the installable units from another media, the Wizard asks for the source directory of the Installable Units.

To start the Staging Wizard from the Infor Enterprise Server medium, navigate to `<Install medium>\Start` folder. Double-click the `StartFirst.exe` binary. A page displays with information about installing several software components on the media. Read the screen carefully and click the appropriate [here](#) link to start the Staging wizard.

Click the **Start Staging Wizard** link at the center of the page.

The Staging Wizard is started and guides you through the staging process.

Note: The Infor Enterprise Server 10.5.x (2-2) medium contains among others the web based user interface and extended connectivity software for LN. The installation of this medium is described in "Installing user interface software" in the *Infor LN - Installation Guide*.

Note:

The regular Infor LN medium does not include sources. To install source related components of Infor LN applications, obtain a source medium or ISO file from Infor Contract Management and Validation. After staging you can start the installation process.

See the *Infor LN Application Sources - Installation Guide*.

Installable units to select.

When you want to update your Infor LN environment and Enterprise Server to 10.5.x, stage all the mandatory and optional installable units as described in [Introduction](#) on page 7.

The Installation Wizard

To start the Installation Wizard:

- 1 Stop the LN environment with `$BSE/etc/rc.stop` (UNIX), or Infor Manager (Windows). All other binaries running against this environment must be stopped, otherwise the Installation Wizard cannot replace them.

For an update of:

- The Windows porting set, the event viewer must be closed.
- An environment on UNIX, you must also stop the baanlogin process manually.

- 2 Start the Installation Wizard by running `<Staging Area>/Start/StartFirst.exe`.

- 3 Click **Start Installation Wizard**.

The **Welcome** dialog box is displayed.

- 4 Click **Next**.

- 5 Specify the environment to be updated in the Environment dialog box and click **Next**.

- 6 Select the required installable units, mentioned earlier and click **Next**.

- 7 Select the appropriate porting set and click **Next**.

- 8 Specify information for the **Host Name** and **Login Name** fields, see online help. Click **Next**.

- 9 If required, specify the destination directory. Click **Next**.

A warning message is displayed that informs you that all users must leave the LN environment before you continue this update.

- 10 Click **OK**.

During this step, LN checks if the selected environment is available for update. A warning can be displayed about still running binaries.

- 11 During a UNIX install you must specify the BW parameters on the **BW Configuration Parameters** dialog box and click **Next**.

- 12 The IU "Infor LN PMC Solutions" represents the upgrade component together with the product Business Object Documents (BOD). If you have selected this IU the **Select Base VRCs for PMC**

Solutions dialog box is displayed. In this dialog box you can select two base VRCs in which the software components are installed.

- The Business Object Documents 2.1 for Infor LN 6.1 to integrate with other Infor applications.
- The Infor LN 10.5.x to update your software to the latest feature pack.

- 13** Click **Next**. The Select an Update VRC for PMC Solutions dialog box is displayed if these IUs are selected:

- Infor ES AddOn PMC Solutions
- Business Object Documents and Infor LN PMC Solutions

Based on your selection, several **Select an Update VRC for PMC Solutions** dialog boxes are displayed.

When updating the installable unit "Infor LN PMC Solution" you must create a new Package Combination. Besides this new Package Combination, you must create a new update vrc. Install solutions in an "Update VRC". The format in the creation of these new update vrc can be implemented as:

	LN	BO	TA	Package Combination/Description
LN10.5	105U 0 a000	105U 0 b000	105U 0 t000	1050000/10.5
LN10.5.x	105U x a000	105U x b000	105U x t000	105x000/10.5.x
LN10.6	106U 0 a000	106U 0 a000	106U 0 t000	1060000/10.6

Ensure that on the last **Select an Update VRC for PMC Solutions** dialog box, the new package combination is present. If it is not present you must add this package combination.

- 14** After you created the update VRCs several **Select Package Combinations** dialog boxes are displayed. Select the *new* package combination and click **Next**.

- 15** The **Download of Missing PMC Solutions** dialog box is displayed.

Optionally, select the check box and specify the appropriate connection information. To continue without downloading the missing solutions click **Next**.

Note: If you select the check box and specify the connection information a check is run if all required solutions are available. If this is not the case, the Installation Wizard tries to download the solutions with the connection information that you provided here. Click **Test connection** to verify if connection can be established. Missing solutions that cannot be found, or other errors, are logged in `$BSE/log.pmc`

- 16** The **Configuration Files** dialog box is displayed (UNIX). You can choose to change the configuration files. For more information, click **Help**. Otherwise, click **Next**.

- 17** If you selected the Solution License Manager Installable Unit, the wizard asks you to specify information in some dialog boxes.

- 18** If you selected the Application Service Manager Installable Unit, the wizard asks you to specify information in some dialog boxes.

- 19** Click **Next**. The **Ready to Install** dialog box is displayed.

- 20** To start the update, click **Install**.

For information about updating an environment with PMC solutions, see *Infor Enterprise Server - Administration Guide*. “LN Software maintenance” explains the PMC recipient procedure. You can run this procedure as a post-installation task.

Chapter 5: Post-installation steps

After you install the Infor Enterprise Server, you must perform several post-installation tasks.

Restarting shared memory and logic services

Restart the shared memory and the logic service, to ensure shared memory does not contain any references to pre-migrated objects.

SP0/SP1 Solution number 22911304

Install solution 22911304 `Security files required when running LN SP0/SP1 with Enterprise Server 8.5`, if you made one of these upgrades without upgrading the application:

- Baan ERP 5.2a to Enterprise Server 8.5.
- LN SP0 to Enterprise Server 8.5.
- LN SP1 to Enterprise Server 8.5.

Installing latest solutions

It is recommended to update the latest weekly solutions on the Enterprise Server. Check solution **1404654** to find the Generic tools solution of your Enterprise Server version. This Generic Tools solution contains all known PMC solutions for Infor Enterprise Server up to a certain week.

With the **Support Information Tool (ttsit01000)** session, you can check if an update is required for your tools build number.

Standard Master and Demo Data companies

Infor used to deliver the companies 050, 090 and 091 as Master and Demo Data. However, this is not the case anymore.

If you still want to use the former installed Infor companies, you can run the Data Upgrade Engine (DUE) for these companies. The DUE will bring them to the correct metadata level.

Instrument group functionality

In Infor LN FP8 the **Instrument Group** (qmptc008.intg) field is created in table qmptc008. This field relates to the Instrument Group functionality.

After migrating from an Infor LN version without the instrument group functionality, an error message is displayed when saving any data in the **Instruments (qmptc0108m000)** session.

To use the instruments functionality along with the new instrument groups, you must create an instrument group or groups. Specify the instrument group in the **Instrument Group (qmptc0124m000)** session and link the group(s) to the existing instruments.

DEM Content Pack

You can download DEM Content Pack from the Infor Xtreme Support portal.

Functionality in LN (such as Enterprise Planning, Inventory Management, and Purchase) are modeled in a DEM Model called the DEM Content Pack, which can be used to model a customer specific Project Model in LN.

This model contains scenarios and business processes with options, roles and rules. This is based on the relevant distribution and production typologies and verticals supported in the LN functionality. In a project model you select the scenarios relevant for your business, and you set the options to implement. Based on the rules DEM selects and transforms business processes that suit your requirements and simplifies the use of the LN functionality.

A separate license must be purchased to use the DEM Content Pack model.

For more information, see *Infor LN - DEM Content Pack User Guide*

Domain constraint validation

Before you upgrade your companies to a newer Feature Pack, we strongly recommend that you check if the data meets the defined constraints.

Data insertion that does not meet the constraints can occur if, for example, you run `bdbimports` with the option to ignore domain constraints.

If the current data does not meet the domain constraints, this can lead to unexpected errors (error 205 "Out of range"). These errors occur while trying to update affected records using the Data Upgrade Engine.

To validate the domain constraint:

- 1 Start the **Validate Data Integrity (ttaad4233m000)** session.
- 2 Perform the check for each company that is scheduled for migration.

Run the session:

- From the package combination of the selected companies.
- During online hours, because this session performs select statements only on the data.

The session can take some time. We recommend that you split the session into multiple runs, for example, by company.

- 3 After each run, check the output of the session and take corrective actions if required.

Upgrading companies to the new installed Feature Pack level

These steps are only required if LN is updated next to Infor Enterprise Server.

If you choose to create a new Update VRC for the Feature Pack, you must convert your companies from the original package combination to the FP*-based package combination after the installation.

For details on this process, see *Infor Enterprise Server - Administration Guide*, or the online Help of the sessions.

To upgrade the companies:

- 1 Log on with a super user. Ensure this user is linked to the target package combination of the companies to upgrade.
- 2 Change Package Combination by Company (ttaad1101m000).
- 3 Specify the fields. Depending on the size of your companies, this can take some time.

During this step, you can encounter the message: "Table does not exist errors (506)." Ignore this message.

- 4 Run the **Change Package Combination for Users (ttaad2200m000)** session.
- 5 Run the **Convert Changes to Runtime (ttams2200m000)** session.
- 6 Re-login in the environment.

If you connect to a company not yet migrated to the new SP/FP level, you can receive the message: "This company (xxx) must not be used because the company needs a data upgrade."

In general, this means:

- a If you use table sharing, check your table sharing data; if required, adjust this data. The names of the new tables are in the appendix of this document.
- b Run the **Create tables (ttaad4230m000)** session per company. You can expect the creation of several new tables by company.

Converting companies to the new Feature Pack metadata level

These tasks are only required if LN is updated next to Enterprise Server.

In the Companies (ttaad1100m000) session, the companies that are connected to the new Service Pack/Feature Pack Package combination have the status "Upgrade Needed".

Before you use the new Feature Pack, you must complete several required tasks. You must perform these tasks in each Feature Pack upgrade.

Caution: If you use table sharing, you must adjust the table sharing first with the Table Sharing Modeler before running the Data Upgrade Engine. We recommend that you manually update the table sharing and not use the automatic update. Otherwise, the resulting table sharing can be incomplete. See the *Infor LN User Guide for Table Sharing*

To convert the companies

- 1 Start the **Data Upgrade Runs (ttspt2500m000)** session. A new run is shown. This run is generated by the installation of the Feature Pack, or during the move of your companies to the new Package Combination.

To initialize and run the Data Upgrade Run:

- Select **Specific > Initialize Data Upgrade Run**. Ensure that the Source Feature Pack is the number of the previous Feature Pack that was installed in your environment. If not, update Source Feature Pack to the previous Feature Pack that was installed.
When you initialized an upgrade run for the incorrect Source Feature Pack (SFP), you can change the SFP for all upgrade tasks. Go to the **Data Upgrade Task (ttspt2520m000)** session. Select **Specific > Global Change Source Feature Pack**. Change the SFP before starting the upgrade run from **Data Upgrade Runs (ttspt2500m000)**.
- Optionally fine tune the Data Upgrade Run. For example you can move Companies to another Run or change the Runtime Classes of Data Upgrade Tasks.
- Select **Specific > Data Upgrade Engine**. Optionally you can run a Simulation first.

For more information about the Data Upgrade Engine, see the online help.

- 2 Initialize new integration mapping scheme master data and reconciliation master data, and deactivate obsolete master data. Only changes are made active. Existing data is not overwritten.
 - **Initialize Mapping Scheme Data (tcfm0210m000)** session. By default, the options that are applicable to your environment are selected. Clear options only if they are not used in your enterprise setup.

Note that from Service Pack 1 onwards, the Manual Sales ledger account must be a FAM disposal account.

- 3 From **Mapping Scheme tfgld4573m000** session, copy the mapping scheme to the new mapping scheme version.
 - a Start the **Mapping Scheme (tfgld4573m000)** session.
 - b Click **Specific > Find Active Mapping scheme**.
 - c Click **Specific > Copy to New Mapping Scheme Version** and confirm Copy.
Ensure the copied Mapping Scheme is visible in the session.
 - d Click **Specific > Check Mapping Scheme**.
 - e Check the errors and warnings tab, and resolve any errors.
 - f Click **Specific > Activate Mapping Scheme**.
- 4 In FP2, the business partner tax country is added to the order lines. Only approved tax codes must be used. Therefore, we recommend that you check these sessions that contain the data used for tax defaulting:
 - **General Company Data (tccom0502m000)**: specify the tax ID of your own company.
 - **Tax Parameters (tctax0100m000)**: Check the search order of tax libraries.
 - **Tax codes by Country (tcmcs0536m000)**: Check whether the tax codes are approved.
 - **Tax Handling (tctax0138m000)**: Check whether enough default Tax Codes are present; you might not be able to enter order lines any other way.
 - **Tax Numbers by Business Partner (tctax4100m000)**: Check whether a tax number is present for the business partners in another EU country. Note that the country used in this session is used for the defaulting of the business partner tax country of order lines.
 - To resolve issues with the new tax model, use these sessions:
 - **Tax Exceptions by Country (tctax1100m000)**, and **Tax Exceptions by Country Set (tctax1101m000)**: To create exceptions in the tax defaulting scenarios, use these sessions.
 - **Test Tax Model (tctax8100m000)**: To simulate the tax scenarios used for tax defaulting, use this session.
 - Unless used in your situation, for updates from SP0 to SP1, run the **Generate Order planning (cprrp1210m000)** session with a full range for all scenarios.

Generating order planning

In case you updated your Infor LN SP1 environment to the latest FP level, you must run the **Generate Order Planning (cprrp1210m000)** session. Run this generate session for each company, for all scenarios, and with a full range.

Infor recommends to run this session for all other updated environments later than SP1.

Configuring shared memory after the Enterprise Server update

DLLs are used more frequently, it is difficult to decide which objects to load in shared memory. Measurement tools are now available to identify which objects are frequently used and suitable to load in shared memory. A configured shared memory that is based on the measurement information improves processing speed.

Specific information about how to configure shared memory is specified in the administration guide. This section is a short enumeration of the measurement tools configuration. The process consists of two main steps:

- Specify the objects to store in shared memory
- Configure the Shared Memory service.

To configure shared memory:

- 1 To define shared memory content, the **Shared Memory Data (ttaad4156m000)** session is used to specify objects in shared memory. When you already have objects specified in shared memory, a message is displayed.

- 2 To use your existing specifications, click **Yes**.

If this message is not displayed, you can import a range of program or report objects from the Data Dictionary (DD). The import session is present in the **Specific** menu of the **Shared memory Data (ttaad4156m000)** session. For more detailed information, see the administration guide.

- 3 Start **Logging Parameters (ttaad4153m000)** session, for gathering statistics on shared memory. In this session, the time frame (start and end time) in which the logging must take place can be defined. If no time frame is defined, no logging is done.

To store the data in the logging file in `$BSE/lib/defaults/`, click **Convert**.

A convert can only be started on a host that is defined as Master Application Server (MAS). In case the host is not an MAS, all selection fields and the **Convert** option are disabled.

To completely remove the currently stored shared memory measurement data, click **Cleanup**.

The measurement will start for all bshells started after the convert is run, and take the defined time frame into account.

- 4 Restart shared memory.

The procedure to complete the configuration of shared memory on a Windows or UNIX system differ:

Procedure on Windows:

Start the Enterprise Server Service Manager. Right-click **Shared memory service**, and on the shortcut menu that is displayed, click **Stop**. Next, right-click again and click **Start**.

Procedure on UNIX:

Exit the session and log in again as user **root**. To reload shared memory, specify these commands:

```
# cd $BSE/bin
# ./srdd_init6.2 -i
```

After the period of shared memory measurement has ended, the log information can be found in the **Shared Memory Measurement(ttaad4152m000)** session. On behalf of this information, you can repeat specifying objects stored in shared memory.

Table sharing data

Table Sets and table references are delivered with every Feature Pack of LN to set up or update table sharing. For technical and functional information about table sharing, see the *User Guide for Multicompany Table Sharing (U8955 US)*.

Report Archiving for invoices

This step is relevant when you are using Report Archiving for invoices and you updated your environment to LN version 10.2 or later.

In LN 10.2 the invoices are moved to a different table: cisli305 (in earlier feature packs this was table cisli205).

Because invoices are archived as files at the moment of printing, you must change the settings in the Report Archiving Rules (ttaad3542m000) session.

After the update the value in **Split Field** must be changed, otherwise the report archiving will not work. Specify this information:

- change cisli205.sfcf to cisli305.sfcf
- change cisli205.ityp to cisli305.tran
- change cisli205.idoc to cisli305.idoc

Customized form fields

Customized form fields must have a unique identification assigned.

Note: This step is required if your previous version is FP5 or earlier.

To personalize forms, each field on a form must have a unique identification assigned. FP6 comes with all the converted standard forms. Based on the converted standard forms, customized forms must also be converted. For more information, see the release notes section "UUID Conversion Personalization".

Chapter 6: Documentation and Online Help

The LN Online Help together with the complete documentation set can be downloaded from Infor Xtreme. Search for the KB solution **22944448**.

For instructions about the installation of the Online Help, see the *Infor LN UI Administration Guide*

On <https://docs.infor.com> you can find the latest documentation set. Here you can open or download a specific pdf one by one.

Chapter 7: Updating a porting set

For the latest information about a porting set update, see KB 22923520. You can find this solution on the Infor Xtreme Support portal at: <http://www.infor.com/inforxtreme>.

Infor LN on a Microsoft Windows Server Cluster

Use the installation wizard to run a porting set update. Do not failover BSE cluster resources to another node during the update. First upgrade the active node. After the active node you must upgrade the passive node(s). The porting set and cluster resource DLLs will be updated. Reboot the cluster node(s) afterwards. Repeat the upgrade for each node in the cluster.

For more information about Server Cluster, see the *Infor LN - Installation Guide*.

Chapter 8: Updating a language

The language installation process

You can update the LN environment with new software components. In case of a language update, ensure the LN environment is up and running.

Language updates are delivered as PMC solutions.

For the latest information about a language update, see solution number 22895286 on the Infor Xtreme Support portal at: <http://www.infor.com/inforxtreme>

Note that:

- The environment must contain the correct package combination and package VRCs, using the official naming conventions.
- The environment must contain the target language code.

For more information about installing a language, see the *Infor LN - Installation Guide*

Replacement of ISO 639-2 standard with 8.4.1 release

The data languages with Enterprise Server 8.4 were based on the ISO 639-2 standard, which does not support all languages. For example, there is no differentiation between Simplified and Tradition Chinese, Brazilian European and Brazilian Portuguese, or English Great Britain and English US.

Therefore, with the release of Enterprise Server 8.4.1, we used another standard as a base for data language definition. If you have implemented multi language data enabling (mle) based on Enterprise Server 8.4, a table reconfiguration of multi language enabled tables must be taken into account.

To view the **Data Upgrade Engine** status, use the **Data Upgrade Runs (ttspt2500m000)** session. Never directly use the **Initialize Data Upgrade Run (ttspt2200m000)** session.

Appendix A: New tables

After you install a Feature Pack, several new tables can be created;

New Infor LN 10.5.x application tables

This table shows the new application tables compared to Infor LN 10.4.2.

Package	Table	Description
ci	sli820	Installment Headers
ci	sli825	Installments
ci	sli830	Billable Installment Lines
qm	ptc025	Test Groups
qm	ptc180	Item Sampling Rule Inspection Details
tc	ccp005	Workweeks
tc	ccp006	Date Effective Workweeks
tc	ccp030	Workdays
tc	fin110	General Ledger by Business Object
tc	fin115	General Ledger by Business Object History
tc	mcs245	Installment Plans
tc	mcs246	Installment Plan Lines
tc	sec235	Authorized Intercompany Trade Orders
tc	sec240	Authorized Invoice Documents
tc	sec245	Authorized Production Documents
tc	sec250	Authorized Financial Documents
tc	sec255	Authorized Service Documents
tc	sec345	Permissions for Intercompany Trade Order

Package	Table	Description
tc	sec350	Permissions for Invoicing
tc	sec355	Permissions for Production
tc	sec360	Permissions for Financials
tc	sec365	Permissions for Service
tc	stl155	Notes History
tc	stl201	Extended Additional Information Definition
td	pur313	ASN Details
td	pur363	ASN Details History
td	pur464	Purchase Change Order Sequence Numbers History
td	pur472	Purchase Supplier Change Order Sequence Numbers History
td	sls472	Sales Customer Change Order Sequencers History
td	sls474	Sales Change Order Sequence Numbers History
tf	acr503	Interest Rate Codes
tf	acr504	Interest Rates by Days Overdue
tf	acr505	Interest Rates by Date
tf	gld170	Taxonomies
tf	gld171	Taxonomy Accounts
tf	gld172	Mappings by Taxonomy Account
tf	gld173	Companies by Taxonomy
tf	gld174	Taxonomy Errors and Warnings
tf	gld180	Bad Debt Relief / Recovery
tf	gld182	Bad Debt Tax Transaction Line Details
tf	tax034	Combined Invoices
ti	asl145	Stations
ti	pcs405	Skills by Activity
ti	pcs415	Employees by Activity
ti	rou020	Skills by Task
ti	rou120	Skills by Operation
ti	rpt040	Work Cells
ti	rpt240	List of Tools

Package	Table	Description
ti	rpt440	OEE
ti	sfc014	Skills by Operation
ti	sfc015	Employees by Operation
ts	tdm400	Service Estimated Cost Lines
ts	tdm840	Service Estimated Cost Lines History

Package	Table	Description

Appendix B: UUID Conversion Personalization

This action is only required when your previous version is FP5 or earlier.

This appendix is for system administrators and describes the migration of the session personalization conversion. Run this procedure directly after the installation of FP10.

Introduction

In FP5 and earlier versions, field personalizations cannot be fully exchanged between Worktop and Web UI. This issue is caused by a different storage format of the personalizations between Worktop and Web UI. From FP6 the field personalizations are stored equally.

In FP5 and earlier versions, the identification of a personalized field during the personalization process is based on the field name and the sequence number linked to this field. When the definition of the form is changed, the sequence of a field might be changed. When processing the personalization, the field can no longer be found and the personalization is lost. To solve these issues and make a field personalization identifiable, FP6 links a Universally Unique Identifier (UUID) to each form field.

From FP6, in combination with at least the 8.5.1 version of the Dynamic Form Editor (DFE), field personalizations are stored with a UUID.

A conversion is required for:

- Dynamic form fields (ttadv308.zb_uuid)
- Field personalizations (ttadv900.zb_uuid)

The FP6 release is delivered with all the converted forms. Based on the converted standard forms, customized forms must be converted too. In the **Compare Package VRC's (ttadv6450m000)** session, an **Ignore UUID of form field** option is added to exclude form changes caused by the UUID conversion.

The Procedure section describes the steps to take for the customized forms and is applicable only for VRCs with customized components (sessions/forms).

Procedure

Note that:

- Checked-out sessions are not processed. Ensure that no checked-out sessions are present on the environment to convert.
- After the conversion process, users must update the DFE to at least version 8.5.1. The latest version of DFE can be retrieved through solution 116206 on <http://www.infor.com/inforxtreme>.

Step 1: Generate UUID for dynamic form fields

- 1 Start the **Generate Form Field UUID (ttcon9201m000)** session.
This session generates the `UUID(ttadv308.zb_uuid)` for each dynamic form field of an integrated session that is not expired.
- 2 Select the package and package VRC for which the `UUID` form field generation must be executed. An additional (from – to) selection on module and session code is possible.
- 3 Click **Convert** to start the process.

These actions are performed during this process:

- If SCM is active, the session is checked out.
- For each processed form field, a `UUID(ttadv308.zb_uuid)` is added in these ways:
 - a When a session is not based on standard session (full customization): A new `UUID` is generated.
 - b When a session is based on standard session (partly customization):
 - Standard fields: The form field `UUID` is copied from the highest standard VRC.
 - Custom fields: A new `UUID` is generated.

Note: In case of multiple custom package VRCs, which are derived from the selected package VRC, all custom VRCs are processed.

- If SCM is active, the session is checked in. The text `UUID` for form fields generated is added as revision text.
- Converted form is dumped/compiled.

Additional options:

- Simulation mode.
- During the process, an error log file is created. The log file (path) can be selected. The default is: `$BSE/log.con9201`.

Step 2: Convert Personalizations

- 1 Start the **Convert Personalizations (ttcon9200m000)** session.
This session updates the `UUID(ttadv900.zb_uuid)` for each dynamic form field present as field personalization. This session can be run multiple times. Personalizations that are already updated are skipped.
- 2 Select the package combination for which the `UUID` form field generation must be run. An additional (from – to) selection on package, module, and session code is possible.
- 3 Click **Convert** to start the process.

The UUID `ttadv900.zb_uuid` is filled for all personalized form fields.

Note: The conversion program cannot update all the field personalizations. For example, fields that are present multiple times on a form, or personalized fields that are removed from the form, are not converted. Non-converted personalizations are still valid. The personalize process for these fields is the same as before.

Additional options:

- Simulation mode.
- During the process, an error log file is created. The log file (path) can be selected. The default is: `$BSE/log.conadv900`.