



Infor Enterprise Server Release Notes

10.7.4.1

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About this guide

This document provides an overview of the differences between various Infor Enterprise Server versions.

Note: Various LN and Enterprise Server components must be licensed through Infor Solution License Manager (SLM). For details on how to find the relevant SLM product IDs, see [SLM product IDs](#) on page 79.

Contacting Infor

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

The latest documentation is available from docs.infor.com or from the Infor Support Portal. To access documentation on the Infor Support Portal, select **Search > Browse Documentation**. We recommend that you check this portal periodically for updated documentation.

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Chapter 1: Enterprise Server 10.7.4.1

This chapter describes the differences between Enterprise Server 10.7.4.1 and Enterprise Server 10.7.4, and the new functionality in Enterprise Server 10.7.4.1.

This table shows the Infor Support Portal KBs for Enterprise Server 10.7.4.1:

KB	Description
2185515	Collection of various Tools (TL) solutions, build week 9 2021
2185516	Collection of various Tools (TT) solutions, build week 9 2021
2186497	Collection of various Tools (TT) solutions, build week 10 2021

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

Application extensibility

LN public interfaces and process extensions

Since the previous major update of LN, several public interfaces and process extensions have been added.

See the documents attached to KB article [2003722](#) for the list of public interfaces and process extensions.

Integration tools

OCM Workflow - Corrective actions within Checked-out Objects

The **Checked-out Objects (ttocm9599m000)** session contains a new special command: **Enforced to Draft**. You can run this command for a selection of records. Use this command in situations where a soft recall of a blocked checked-out object is not possible. Such a situation may be caused by an application logic failure or an incorrect use of the **General Table Maintenance (ttaad4100)** session (GTM).

In the past, these situations required cumbersome GTM or database corrections. If you run this new command, the object is reverted to Draft without calling any DAL or application logic.

LN user interface

This section describes the changes in LN UI 12.2.9.

Copy system message to clipboard

You can now select the text contents of the system message and copy them to the clipboard. This functionality can be used to translate the system message through a third-party translation tool.

Custom skin editor

Key users can be permitted to create a custom skin for the LN user interface. To enable this feature for a user, select the **Allow Skin Customization** check box in the user's User Data Template. If the feature is enabled, a new menu item, **Custom Skin Editor**, is displayed under **Options** in the main navigation menu.

In this editor, several color properties in the UI can be edited. These are some of the available properties:

- The background color of forms and dialogs
- The foreground and background colors of editable, read-only, and disabled fields
- The foreground and background colors of editable, read-only, and disabled cells in the grid

There is only one custom skin. If you click **Publish**, the custom skin that is currently visible in the editor becomes the new custom skin. This new skin applies for all users who have selected the **Custom** skin in their LN UI profile.

Users can select this custom skin in the **User Profile Details (uigwt0102s000)** session: On the **Preferences** tab, they can change the selection of the **Skin** field to **Custom**.

Before you publish the new skin, it is only available for you, so you can try out what the skin looks like in the UI. To test the new skin, select the "Custom" skin in your user profile settings. As long as the new skin is not published, the new color settings are only applied for you.

In the skin editor, you can also download and upload a set of customizations as a `.json` file through the **Actions** menu.

For more information, see the online help of the **Custom Skin Editor (uigwt0108m000)** session.

Support 'help on the main session' for composite sessions

A composite session contains a main session and multiple subsessions. The **Help** menu option now opens the help page of the main session instead of the help page of the subsession, as it was before.

Options

Call Graph Profiling for BDE based integrations

You can now run diagnostics for LN integrations that are based on BDEs. To do this, you can create call graph profiles for BDEs and BODs.

You can configure this functionality in the new **Call Graph Profile Settings for BOD/BDE (tlbct6150m000)** session. This session can be started through a new menu option in the **Debug and Profile 4GL (ttadv1123m000)** session, which is available in the **Options** menu.

Chapter 2: Enterprise Server 10.7.4

This chapter describes the differences between Enterprise Server 10.7.4 and Enterprise Server 10.7.3.1, and the new functionality in Enterprise Server 10.7.4.

This table shows the Infor Support Portal KBs for Enterprise Server 10.7.4:

KB	Description
2161957	Collection of various Tools (DA) solutions, build week 48 2020
2161958	Collection of various Tools (TL) solutions, build week 48 2020
2168135	Collection of various Tools (TT) solutions, build week 48 2020

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

Application configuration

Export/import configurations by additional file

In the **Export Configurations (ttaad7203m000)** and **Import Configurations (ttaad7204m000)** sessions the option to export to, or import from, an additional file has been added.

Log for locking

In the **Logging Parameters (ttaad4153m000)** session, you can now specify a comma-separated list of tables or companies to limit the generated output. You can use this session to log database lock transactions to analyze performance issues that are caused by locking issues

Note: Porting set 9.3i or later is required.

Application development

New `tt.bobject.desc.by.lang (...)` function

The `tt.bobject.desc.by.lang(...)` function is made available to retrieve the value of the **Description** field for a Business Object in a specified language.

For more information, see the *Infor ES Programmer's Guide (Infor Support Portal KB 22924522)*.

No SQL ANSI mode in scripts

The use of SQL ANSI is no longer supported in scripts.

Therefore, the `query.set.ansi.mode.stp()` and `query.extend.join()` functions are marked as untrusted.

LN Studio - miscellaneous enhancements

LN Studio is enhanced with a better **Browse Input Fields** user experience:

- The description has now 30 characters reserved instead of 10.
- The dialog box in the form definition for **Browse Input Fields** now has more options to find the required field: Filtering, Sorting, Field number as in Table Definition.

LN Studio now supports creating PMC solutions with a dot in the solution code.

LN Studio now supports Amazon Corretto 11.

Application extensibility

`when.field.changes` hook for maintain sessions

Until now it was only possible to extend the `when.field.changes` hook for print sessions and processing sessions.

This hook is now also available for maintain sessions. This applies to standard fields and Customer Defined Fields (CDF). Therefore, warning messages can be programmed for specifying data in maintain sessions.

Report Designer - Enhanced support for conditional formatting

In the Report Designer, the functionality for conditional formatting is enhanced. You can now define rules on report objects of type Label and Special. In the previous releases, it was already possible to define rules for either the whole layout or data fields. Now objects of type Label or Special are also supported.

Report Designer - Support barcodes holding a large dataset (>768 char)

The Report Designer now supports barcodes that hold datasets larger than 768 characters. This feature fulfills the business requirements to print QR codes, that represent large generated URLs, on forms. For example, secure connections to websites of governments make use of that type of URLs.

Device management

File Manager

The **File Manager (ttfmafileman)** now supports uncompressing of multiple files at once.

Document Output Management (DOM) - Warn users in case of failures

In case of failures in batches or documents, alerts can be sent to users or administrators through an ION alert. In ION, a monitor, `LN_Message_DOMDocument`, is available to define this ION alert.

You can use the **Document Output Parameters (ttrpi2100s000)** session to specify these alerts on these levels: Batch, Document, and Destination. You can use the **Document Types (ttrpi2510m000)** session to overrule this setting on Document Type level.

Document Output Management (DOM) - Integrate Common Security for existing DOM documents

A new session, **Update Batches with Common Security Settings (ttrpi3202m000)**, is available. You can use this session to update a range of existing DOM documents and add data security variables to those documents.

This restricts users from seeing sensitive content of certain DOM documents. This restriction is based on the common authorization and security configuration in LN.

Text management

Locked text by user message

If a text is locked by another user, this message is displayed to indicate which user has locked the text:

```
Text is locked by user <username>.
```

User management

Authorization Management System (AMS) – Additional text to role

A standard text field has been added to the **Role Data (ttams4600m000)** enhanced AMS session. You can use this field to store additional information about a role. The text is also stored in the AMS history, which you can view in the **Role History Data (ttams4175m000)** session.

Options

Debug and Profile 4GL

The **Debug and Profile 4GL (ttadv1123m000)** session is extended with the **Profiler Options for Another User** option. With this option you can activate the Call Graph Profiler for another user. For example, for an ION user, who cannot log on manually to specify the profile options.

Note: Porting set 9.3i or later is required.

LN user interface

This section describes the changes in LN UI 12.2.8.

Confirm to change message mode

If you select **Options > Non-interrupting Message Mode** to change the message mode, you are prompted to confirm the change.

Header area fields

You can use form personalization to move a field from any form tab to the header area of a details session and vice versa.

Note: Enterprise Server 10.7.4 or later is required.

Column Freezing

In overview sessions, the **Freeze this Column** command is made available unconditionally. This is made independent of the **Allow Application Personalization** option in the user data template.

Updated color palette

The color palette of the light, dark, and high contrast skins has been adjusted to the current guidelines of the Infor Design system.

Visibility of zoom icons in overview sessions

A new option, **Visibility of zoom icons in overview sessions**, has been added on the **Preferences** tab in the **User Profile Details (uigwt0102s000)** session.

You can use this option to change the appearance of zoom icons in overview sessions.

Possible values:

Only visible when hovered

The zoom icon is visible only if the mouse pointer rests on an editable lookup field. This is the default behavior of the option.

Always visible for editable fields

The zoom icon is always visible for editable lookup fields.

Always visible

The zoom icon is always visible for all lookup fields.

Chapter 3: Enterprise Server 10.7.3.1

This chapter describes the differences between Enterprise Server 10.7.3.1 and Enterprise Server 10.7.3, and the new functionality in Enterprise Server 10.7.3.1.

This table shows the Infor Support Portal KBs for Enterprise Server 10.7.3.1:

KB	Description
2151086	Collection of various Tools (TL) solutions, build week 35 2020
2151089	Collection of various Tools (TT) solutions, build week 35 2020

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

Application extensibility

The Extension Modeler has been enhanced with this functionality:

- Support Drag and Drop
The use of the Drag and Drop feature is extended to control the sequence of Custom Fields and Table Selection.
- View generated code
An extra zoom button, next to the **Extension Library** field, is available to view the generated code of the extension library.
- Extend the `zoom.from.public.interface` section
The `zoom.from.public.interface` can now be extended. This section has two hooks, `on.entry` and `on.exit`. These hooks can be used to (re)set some (CDF) variables if the LN session is started through a public interface.
- Addition and removal of in-context messages
Full control is now available over in-context messages, which are displayed in the **Related Information** and **In-Context URL Viewer** context apps.

To only display relevant company information to users, the behavior of standard context messages can be configured through the Extension Modeler. The visibility and mapping of these messages can be modified.

Additionally, custom context messages can be added to show additional context messages for a selected session.

BFlow

Automatically restart failed cases

Failed BFlow test cases often run successfully after they are restarted or retried. A new option is introduced to automatically restart cases directly after they have failed. The new **Test Case Restarts (tlrgt1170m100)** session is available to (re)view the restarted cases. This session is available as a stand-alone session in the **Test Framework** menu and as satellite tab in the **Test Set Log (tlrgt1660m000)** session.

You can enable the restart functionality in the **Test Framework Parameters (tlrgt0100m000)** session.

Column filtering

Option to Skip Refresh in Editable Grid

The new `query.extend.fld.parm(...)` function is available to indicate special behavior of the `query.extend.fld` functions. A parameter is added to disable the refresh of referenced data during data entry in an editable grid.

For more information, see the *Infor ES Programmer's Guide (Infor Support Portal KB 22924522)*.

Device management

Multiple email addresses in the To-list

DOM can now handle multiple email addresses in the To-list. Consequently, multiple recipients can receive the document as owner or actor of the content, instead of as a Cc-list member.

To use this functionality, DOM administrators can set up distribution lists with email addresses linked to the To-list of an email. In this way, multiple recipients can be part of the primary document distribution through the email channel.

Job management

Scheduling

The details variant of the **Job Data session (ttaad5100s000)** has changed to a multi main table session. Previously, the **Job History (ttaad5510m000)**, **Job Session History (ttaad5511m000)**, and **Sessions by Job (ttaad5501m000)** sessions were available under the **Reference** menu of the overview session. These three sessions are now visible as separate tabs.

The new **Job Scheduling Lines** tab gives extra options to schedule a job in more detail than just by a calendar or a fixed time interval. These types of scheduling lines can be defined:

- Every: Run the job in a fixed time interval, every number of minutes/hours within the day.
Example: Run every 20 minutes from 08:00 until 17:00, except on Saturday and Sunday.
- Daily: Run the job every fixed number of days on a fixed time.
o Example: Run at 07:00 every other day.
- Weekly: Variant of Daily on a weekly basis.
Example: Run at 07:00 on Monday every 3 weeks.
- Monthly: Run the job on a fixed time on fixed dates.
 - Example 1: 07:00 on the 10th, 20th, and 30th of the month in January, March, May etc.
 - Example 2: On relative days in selected months. For example, on the last Saturday of the month.

Scheduling Lines can be combined.

You can use the new **Calculate Execution Dates for Job (ttaad5408m000)** session to validate the scheduling configuration of a specified job.

Options

Expiry Time Debug bshell and Debug and Profile 4GL

An Expiry Time of Start Options is added to the User Start Options for other users and other bshells in the **Runtime Debugging of bshell (ttstpshdebug)** session. The same Expiry Time of Start Options is added for the Start Options for Other Bshells in the **Debug and Profile 4GL (ttadv1123m000)** session. This prevents that tracing and profiling remains active, longer than required.

Note: Porting set 9.3h or later is required.

Debug and Profile 4GL - Debug Workbench - Show MLE values

In the Debug Workbench all values of a multi-language (MLE) field are displayed now in the Variables View and the Hover function.

Note: LN Studio 10.7.0.0457 or later is required.

Report Designer

Conditional Formatting - more properties

Extra support has been added in the **Report Designer** regarding conditional formatting for the field properties:

- Alignment within the field placeholder:
 - Vertical
 - Horizontal
- Borders of the field placeholder:
 - Presence (Top, Left, Right, Bottom)
 - Style
 - Thickness
 - Color

Note: The alignment options are only available if the report personalization is converted into the so-called "Exact Positioning" modus.

Software distribution

PMC Solutions re-factored

The PMC **Solutions (ttpmc1100m000)** session has been re factored to a multi main table (MMT) session. Therefore, the user, who is responsible for creating solutions, has a better overview of the solution, including its components and dependencies.

User management

Synchronizing Enterprise Modeler (EM) - AMS role assignments

The functionality of the **Automatically Start Convert to Runtime** parameter, as present in the **AMS Parameters (ttams0100m000)** session, has been changed. This parameter is used to automatically actualize the export of DEM roles to AMS. The EM role assignments, as present in the **Role Assignments (ttams4120m000)** session, are no longer only detached but they are now physically removed from the database.

LN user interface

This section describes the changes in LN UI 12.2.7.

Deployment changes

Open source license information

The **About** dialog box shows the button licenses, providing a list of open source packages which are used to run LN UI. The license is displayed for each open source package.

Usability improvements

Changing the width of a segmented field column

You can change the width of a segmented field column in an overview session. If the filter row is hidden, a small drag handle is displayed.

Creating multiple bookmarks

You can create bookmarks for the landing page, also if two or more rows are selected in an overview session. The selection is handled as a single collection or as separate bookmarks. The bookmarks are added to a new or existing group. You can assign a title to the bookmarks.

Note: Enterprise Server 10.7.3.1 or later is required.

Chapter 4: Enterprise Server 10.7.3

This chapter describes the differences between Enterprise Server 10.7.3 and Enterprise Server 10.7.2.1, and the new functionality in Enterprise Server 10.7.3.

This table shows the Infor Support Portal KBs for Enterprise Server 10.7.3:

KB	Description
2124892	Collection of various Tools (TL) solutions, build week 22 2020
2133772	Collection of various Tools (TT) solutions, build week 22 2020

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

Application extensibility

In the Extension Modeler, you can now also use drag and drop to change the sequence of these elements:

- Custom form commands
- Calculated fields
- Custom menu fields

Database management

Table Sharing Modeling – Logical Tables blocked

If table sharing has been set up with the Table Sharing Modeler (TSM), users should not use the Logical Tables functionality anymore. If the table sharing has been set up with TSM, the **Logical Tables**

(ttaad4120m000) session starts in read-only mode now. Therefore, users can no longer maintain the data.

Note: For highly exceptional cases, to make the data editable again, the **Enable Editing of Logical Tables** command is available in the **Logical Tables (ttaad4120m000)** session.

GTM and GMI – Additional info Programmers Mode

In Programmers Mode, the **General Table Maintenance (ttaad4100)** and **General Table Information (ttaad4500)** sessions have been enhanced, so that field descriptions are displayed.

For better analysis, real table values are displayed in both, User Mode and Programmers Mode:

- For fields of the Date type, the long number is displayed next to the formatted date and time.
- For fields of the Enumerated type, the constant value is displayed next to the name, even if it does not exist in the domain definition.

Functions

For details on the new functions that are described in this section, see the *Infor ES Programmer's Guide (Infor Support Portal KB 22924522)*.

Development - New `set.insert.in.detail.session(...)` function

In some sessions, such as an editable grid, the standard insert does not allow the user to insert all the fields. In these sessions, the new `set.insert.in.detail.session(...)` function can be used. This function gives the user an alternative session to insert the record. The end user sees the now standardized **Insert in Detail** form command.

Development - Initialize variables, including array fields

The new `tt.init.vars()` function is available to initialize variables in program functions, including variables of type array.

Extensibility - Show image from one table/session into another session

The new `copy.image.to.file(...)` function is available to copy an image to a file. The image can then be displayed on a session.

Performance - Application locks

New functions are available for better performance when using, especially exclusive, application locks:

- `appl.get.owner()` - retrieves the **Owner (PID)** of a specified application lock.
- `appl.get.owner.excl()` - retrieves the **Owner (PID)** of a specified exclusive application lock.
- `appl.modify.excl()` - changes the **Owner (PID)** of a specified exclusive application lock.

InContext messages

Empty context message

If no inContext model is present for a session, the empty Infor business context message is sent to clear the Document Management webpart.

Integration tools

Data Publishing Management – GZIP compression

The Data Publishing Management feature has been enhanced with these features:

- For all data sets for which the **Publish Data** indicator has been set in the **Data Set to Publish (ttddpm5105m100)** session, the documents (tables) are published to Data Catalog. These tables are included in the list of supported documents when ION requests this list through the *Discovery* method.

Previously, tables that were defined in data sets that do not contain any company for which the **Publish Data** indicator has been set were not considered.

- When data is made ready to be published to ION, the data is retrieved in compressed format. Previously it was Base64 encoded. Using GZIP gives better performance and less memory usage.

Note: Porting set 9.3g or later is required.

OCM Workflow - Update OCM and TSM -single step

In previous versions, if both Object Change Management (OCM) and Table Sharing Modeler (TSM) were active, then you could not update OCM or TSM. For example, if newly created companies had to be added to OCM and TSM, updating the one failed with validation errors that were related to the other.

The new **Update OCM and TSM single step (ttocm0202m000)** session is available now to update both OCM and TSM in a single step. This session is available as a form command, in the **Deployments by Package Combination (ttocm0111m000)** and **Table Sharing Sets (tltsm1115m000)** sessions.

Personalization

Add Tab option for all details sessions

The **Add Tab** option in the form personalization is now available for all details sessions, such as print and process sessions. Previously the option was only enabled if tabs already existed.

Support Multi Main Table (MMT) session without satellites

It is now allowed for Multi Main Table Controller (MMT) sessions to have no active satellites. You can use the **Personalize Satellites Tabs** option to hide all the satellites. If no visible satellites are present, the session is displayed as a details session.

Wrap toolbar

The **Wrap Toolbar** option has been added. You can use this option to wrap toolbar buttons to the next line if it becomes too narrow to add on the same line. If this option is selected, every session has the option available in the **Personalization** menu. This gives the user the possibility to change the wrapping state of the toolbar per session. This setting is saved as a personalization.

You can configure this option in the **Tools Parameters (ttaad0100m000)** session, and for specific users in the **User Data Template (ttams1110m000)** session.

Note: LN UI 12.2.6 or later is required.

Report Designer

Conditional formatting

With conditional formatting in a personalized report, you can change the formatting of fields based on data that is printed to the report. You can specify conditional formats on report, layout, and field level. A single element can have multiple conditional formats.

If multiple conditions evaluate to true, the formats are merged; if multiple conditions affect the same field formatting, the first evaluated condition is executed.

LN user interface

This section describes the changes in LN UI 12.2.6.

Automatically expand and collapse navigation menu

A new option is added on the **Preferences** tab in the **User Profile Details (uigwt0102s000)** session. You can use this option to automatically expand and collapse the side navigation menu. If this option is enabled and the menu is hidden, the menu expands when you move the mouse near the left edge of the screen. As long as the mouse remains in the expanded menu section of the screen, the menu stays in this state. When you move the mouse away from the navigation menu, the menu section of the screen automatically collapses again.

Splitter position

LN UI stores the position of a session's vertical splitter as the number of pixels from the left. For horizontal splitters, the number of pixels from the top is stored. This ensures that the splitter is displayed at the same position, also if the user changes to a monitor with different resolution.

Zoom controls for maps

All map components now have a built-in zoom control at the bottom right of the map. You can use the zoom control to zoom in, zoom out, and zoom-to-fit. To do this, click the corresponding buttons.

Menu code in navigation menu footer

A footer has been added to the navigation menu panel. This footer shows the menu code of the currently focused menu element. Not all elements have a menu code. Therefore, the code is only displayed if applicable. You can select and copy the code, so you can paste it in an email or document.

Java version support

This LN UI version is not supported for Java 7 runtime environments. LN UI requires a Java SE 8, or compatible, runtime environment.

Support of Exchange Online OAuth 2.0 authentication for Synchronizer

The Exchange Synchronizer for CRM contact and calendar events supports OAuth 2.0 authentication when connecting to Exchange Online. You can use the **MS Exchange Synchronization Settings (ttaad2140m000)** session to define the configuration details of the connection.

Microsoft has announced that on October 13th, 2020, it will stop supporting basic authentication for Exchange Web Services to access Exchange Online.

Chapter 5: Enterprise Server 10.7.2.1

This chapter describes the differences between Enterprise Server 10.7.2.1 and Enterprise Server 10.7.2, and the new functionality in Enterprise Server 10.7.2.1.

This table shows the Infor Support Portal KBs for Enterprise Server 10.7.2.1:

KB	Description
2103838	Collection of various Tools (TA) solutions, build week 9 2020
2117846	Collection of various Tools (TL) solutions, build week 9 2020
2117845	Collection of various Tools (TT) solutions, build week 9 2020

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

Important - [Device Management] Document Output Management (DOM) – invalid document types

After the PMC installation, all document types are marked as invalid. To use DOM, you must validate all document types again through the **Validate and Compile (ttrpi2210m000)** session.

Application configuration

Infor Document Management (IDM) - Update document attributes

A new session, **Update Document Attributes in IDM (tttdms3280m000)**, is available to update attributes for a selection of documents in IDM. You can set filters on every attribute to select the required documents. You can change existing content of attributes and attributes without a value can be populated individually. Before changing the data, you can perform a simulation run.

Device management

Document Output Management (DOM) – Revisions for existing documents

In the functionality of Document Output Management (DOM), a new field, **Create New Revision for Existing Documents**, has been added to the **Archive Specifications (ttrpi2516m100)** session.

If this check box is selected, uploading the same document multiple times through DOM does not longer result in multiple unique documents in the DMS. Instead new revisions for the existing document are created.

If this check box is cleared, uploading the same document multiple times through DOM results in multiple unique documents in the DMS.

Miscellaneous

Do not show this message again option disabled

To prevent users from not saving data when they close a session, the **Do not show this message again** option is disabled for these questions:

- Do you want to save the changes you made? (ttstpq0105)
- Do you want to save the changes you made? (ttstpq0109)

Refresh function for list-detail and tree-detail type of sessions

- The `refresh.list.detail.list()` function is available now to explicitly refresh the list of list-detail type of sessions.
- The `refresh.tree.detail.tree()` function is available now to explicitly refresh the tree of tree-detail type of sessions.

For more information, see the *Infor ES Programmer's Guide (Infor Support Portal KB 22924522)*.

Support SVG and PNG image types

- The `create.extra.toolbar(...)` function now also supports file names with the `.svg` and `.png` extensions.

For more information, see the *Infor ES Programmer's Guide (Infor Support Portal KB 22924522)*.

- Image files of type SVG can now be added as additional file (ttadv2570m000) and can be used as image in the **Enum Domain Formatting (ttgfd4525m000)** session.

Personalization

Toolbar personalization – Move/copy to toolbar

In the **Personalize Toolbar (ttadv9250m100)** session, the **Add to Toolbar** option has been replaced by these options: **Move to Toolbar** and **Copy to Toolbar**.

If you use the **Copy to Toolbar** action, menu items are added to the toolbar. These items also remain in the session menu.

Report Designer

Reset page number before layouts

In the Report Designer, a new property on report level, **Reset page number before layouts**, is made available to reset the page number before printing a specific layout. This new property has influence on these predefined fields: **Page Number** and **Page Count**.

Translation

Preset of translatable components

In LN you can export translatable software components, such as labels, questions, and messages from a development or translation system. You can import these components into other LN environments. Additional tooling is also present to verify these types of components. Processing within the related sessions is based on a (from/to) UI selection of packages, modules, and languages. Now you can refine this selection by defining a preset of packages, modules, and languages to process.

These sessions support this new functionality:

- **Export Language Dependent Data to XML (ttadv8910m000)**
- **Import Language Dependent Data from XML (ttadv8920m000)**
- **Verify Labels (ttadv8941m000)**
- **Verify Components by Language (ttadv8950m000)**
- **Translation Runs (ttpmc4510m000)**
- **Languages (ttpmc4511m000)**

The new **Translation Languages by Module (ttadv1105m000)** session has been added to configure the packages, modules, and languages.

LN user interface

User profile for LN process modeling

- The "Dynamic" adjective has been removed from the field names of the user profile settings that are related to LN process modeling. These fields are now labeled "Enterprise Model" or, abbreviated, "EM".
- In the **Show EM Menu Elements** field in the user profile, you can select the fields from the Enterprise Model to be displayed in the **Processes/Roles** menu . The possible options are: **Select All**, **Help**, **URL**, **Support Application**, **File Based**, **App by Support App**, **Manual Activity**, and **Repeating Application**.
- In the **Show EM Menu Element Type as** field in the user profile, you can select how to display the items in the **Processes/Roles** menu . The possible options are: **Label**, **Icon**, **Label and Icon**, **None**.

Network domain of workbenches

This enhancement may be required in network environments where the workbenches are served from a different network domain than LN UI. When used as workbench web server on Apache Tomcat, LN UI supports the use of a customer-specific template for the workbench context file. You can use the template to set the `SameSite=none` cookie attribute at the workbench web server. For more information, see Infor Support Portal KB 2110672.

Chapter 6: Enterprise Server 10.7.2

This chapter describes the differences between Enterprise Server 10.7.2 and Enterprise Server 10.7.1.1, and the new functionality in Enterprise Server 10.7.2.

This table shows the Infor Support Portal KBs for Enterprise Server 10.7.2:

KB	Description
2095228	Collection of various Tools (TM) solutions, build week 48 2019
2103592	Collection of various Tools (DA) solutions, build week 49 2019
2103841	Collection of various Tools (TL) solutions, build week 50 2019
2103842	Collection of various Tools (TT) solutions, build week 50 2019

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

Application configuration

Customer Defined Fields – Initially hidden

In the **Customer Defined Fields (ttadv4591m000)** session, you can now mark a customer defined field as initially hidden. Separate field attributes are available to initially hide the field for overview, details, and MMT controller type of sessions. If a field is marked as hidden, then you can make it visible through form personalization.

This functionality is also supported in the Extension Modeler.

Workbench parameters - Map providers

A generic maps workbench is delivered with Enterprise Server. Through this workbench a geographical map can be displayed. On this map, you can draw application-defined route points and a route. The full functionality is only available if Microsoft Bing Maps is configured as a map provider. When using "Open Street Maps", only route points, and no route lines, are displayed on the map. To configure the map providers, you must use the new **Map Providers (ttaad7132m000)** session.

For details, see the *Infor ES Programmer's Guide (Infor Support Portal KB 22924522)*.

Copy companies

A new session, **Copy Companies (ttaad1231m000)**, has been added to facilitate replication of companies for testing or education purposes. This session performs all required actions to copy one or more companies or sets of companies.

Application extensibility

Application extensibility has been enhanced with this functionality:

- The custom fields in print/processing type of sessions have an extra **Is Mandatory** property to make the field mandatory.
- You can add fields to the view area of overview type of sessions.
Note: LN application 10.5 or later is required.
- In session extensions, you can make customer defined fields and extension fields initially hidden. To achieve this, use these extra properties: **Initially hidden in overview** and **Initially hidden in detail**.
- In session extensions, you can now extend the `Mark Occurrence` standard command with the `After Command` hook.
- In session extensions, you can now extend the `After Form Read` event with the `After Form Read` hook.
- You can now select calculated fields and custom form commands in BFlow scripts.

Excel integration

Export to Excel

The Export to Excel feature has been enhanced with these features:

- Exclude additional header fields
When you export lines in overview sessions, all header/view fields are also exported. An option to exclude these fields is available in the **Advanced Export (ttstpssiexp)** and **Excel Integration Settings (ttstpsidef)** sessions.

- A title for empty column headers

You can now include generic titles in the export file for fields that have no column header in the session. To achieve this, an option has been added to the **Advanced Export (ttstpssiexp)** and **Excel Integration Settings (ttstpssidef)** sessions.

Integration tools

Data Publishing Management – Tools tables ttdpm510/515 are allowed in datasets

In the **Data Set to Publish (ttdpm5105m100)** session, it is in general not allowed to add Tools tables. The list of exceptions has been extended with these tables:

- ttdpm510 - Data Set Companies
- ttdpm515 - Tables to Publish

For a complete list of the Tools tables, see the online help of the **Tables to Publish (ttdpm5115m000)** session.

Object Configuration Management (OCM Workflow) – New trusted function

The new `dbcm.get.workflow.status.description()` function is available. You can use this function to retrieve the workflow status description of an object instance.

For details, see the *Infor ES Programmer's Guide (Infor Support Portal KB 22924522)*.

Options

Debugging LN UI - Allow startup of other sessions

When you are debugging with LN Studio or the Debug Workbench, LN UI no longer blocks the startup of other sessions.

LN user interface

Deployment changes

Notification of bshell errors

If a bshell error occurs when you work with LN, you do not have to open the LN message viewer anymore. The LN message viewer is displayed automatically.

Message viewer

The LN message viewer shows the date and time when the message was raised. You can apply a filter to the time stamp, the message text, the message code, and the session code. You can copy selected entries, or all entries, to the clipboard.

Enterprise Model viewer

This new functionality is available:

- When you view a Dynamic Enterprise Model, you can click the new download button to create an image of the model. The image is saved as a Portable Network Graphics (.png) file.
Note: This functionality is not supported in Internet Explorer.
- You can use the right mouse button to inspect the properties of a static condition.

Usability improvements

Closing LN session tabs

You can click the wheel button on your mouse to close LN session tabs.

Chapter 7: Enterprise Server 10.7.1.1

This chapter describes the differences between Enterprise Server 10.7.1.1 and Enterprise Server 10.7.1, and the new functionality in Enterprise Server 10.7.1.1.

This table shows the Infor Support Portal KBs for Enterprise Server 10.7.1.1:

KB	Description
2085170	Collection of various Tools (TT) solutions, build week 35 2019
2085171	Collection of various Tools (TL) solutions, build week 35 2019

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

Application extensibility

Change domain length

A domain extension type has been added to change the length of a string domain.

Extension of program sections

These program sections can be extended:

- before.program
- after.program
- before.display.object
- before.new.object
- after.update.db.commit

Device management

Document Output Management (DOM)

Two overlay types have been added in the **Document Parts (ttrpi2540m000)** session:

- Single Page Document – The overlay is applied only if the result document contains a single page.
- Intermediate Pages – The overlay is applied to all pages of the document, except the first and last page.

Integration tools

Data Publishing Management – unpublished staged data

Formerly, upgrading a tenant to a new release was blocked if unpublished staged data is present.

The same occurred in these situations:

- A convert to runtime, that involves tables for which data publishing is enabled, was executed.
- Companies were moved to another package combination.

Now pending staged data is no longer blocking during these types of transactions. Staged data is reconfigured automatically.

Note: Porting set 9.3d or later is required.

Data Publishing Management – scale the number of publishers in tenants

When the number of publishers is set in the **Start Publishers (ttddpm5225m000)** session, this number might differ from the number of publishers that are running. If so, publishers are started or stopped to meet the specified number.

Job management

Scheduled Jobs – New status postponed

The new **Postponed** status has been added to the scheduled jobs. **Postponed** means that a job is not started because it would run in a planned downtime period, as defined in the **Planned Downtime (ttaad5530m000)** session. The **Postponed** status is equal to the **Waiting** status, only indicating the downtime status. As soon as the planned downtime is finished, the job is restarted.

Report designer

The Report Designer has been enhanced with this functionality:

- The label or description that is linked to a calculated field of a report extension can now be selected in the Report Designer. Previously you could only add these descriptions as a special text.
- You can simultaneously make corrections to multiple layouts.
- You can simultaneously move objects of multiple layouts.
- Images can be used as background for the report page or for one layout.

User management

Electronic signature

The electronic signature feature has been enhanced with this functionality:

- To track changes of the text of signed documents, the text can be stored in a copy of the original text.
- A new session, **Print Signed Documents (ttesg2410m000)**, has been added.

LN user interface

Deployment changes

Message Viewer

The viewer of LN messages now shows the time when the message was raised. You can copy the list of messages to the clipboard.

Usability improvements

Recently vs. frequently used sessions

When a new user profile is created, the history of started sessions on the landing page is ordered from most used to least used. Existing profiles continue to order the sessions according to how recently the session was started. You can change this behavior on the **Preferences** tab of the **User Profile Details (uigwt0102s000)** page.

Closing a session from the overflow menu

You can close sessions from the overflow menu. The overflow menu is displayed when there is not enough room to show all open session tabs.

Support of Enter key

In an editable overview session, you can press **Enter** to navigate to the next editable field. This is similar to pressing **Tab**.

Tooltip for enumerated field icon

In overview sessions, enumerated fields that are displayed as icons now have a tooltip with the corresponding description.

Long attachment names in the ODM in-context application

The name of an ODM attachment might be longer than the column length in the ODM in-context application. If so, the column has a tooltip that shows the full name of the attachment.

Chapter 8: Enterprise Server 10.7.1

This chapter describes the differences between Enterprise Server 10.7.1 and Enterprise Server 10.7.0.1, and the new functionality in Enterprise Server 10.7.1.

This table shows the Infor Support Portal KBs for Enterprise Server 10.7.1:

KB	Description
2065924	Collection of various Tools (TL) solutions, build week 22 2019
2066529	Collection of various Tools (TT) solutions, build week 22 2019

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

Application extensibility

This section provides a brief explanation of the application extensibility-related enhancements.

In-session graphs

Sessions can be extended with graphics. To implement a graphic, you can extend a session with a calculated field that has the **Picture** control type, and implement the chart functions in the calculated field's hook code.

New hook - set text attributes

In the Extension Modeler, the new Set Text Attributes hook has been added for table extensions. You can use this hook to set the text attributes, such as keywords, for CDFs and standard fields of type text.

BFlow test framework

This section provides a brief explanation of the BFlow test framework-related enhancements.

Label description

A new action is available to get the label description of a field, group, or command.

Run test scheduler by job

The **Run Test Scheduler (tlrgt1230m000)** session can now also be started by job.

Device management

This section provides a brief explanation of the device management-related enhancements.

Document Output Management (DOM) – Print Report Designer Excel output

In the **Report Rules (ttrpi2520m100)** session, the **Excel using Report Designer** option has been added to the list in the **Render Format** field. Now both Report Designer output formats, PDF and Excel, can be distributed through DOM. The option to print Excel files based on IR or MS SSRS has been renamed to **Excel using External Reporting**.

Document Output Management (DOM) – Digital Signatures

A digital signature can be added to a DOM Document to authenticate the identity of the sender of the document. The signature also ensures that the content of the document is unchanged.

Two options of digital signature are available:

- **In Person**
Documents can only be distributed if they are personally signed by an authorized user.
- **Seal**
Documents can be signed automatically with a seal, which is linked to the document type.

Database management

This section provides a brief explanation of the database management-related enhancements.

Error Handling “bdbpost”

The error handling within the **Create Table from Sequential Dump (ttaad4227m000)** session has been improved. Previously only the “Wrong dump file” error message was displayed without specifying the exact cause. Now these refinements are implemented:

- Input (dump file) validation, such as the company format, three or four digits.
- Process validation

The `bdbpost` porting set binary also executes miscellaneous checks before an actual import starts. Checks that block the import by the porting set are now also displayed on the report output; for example, if the dump was created on a system with high-ascii tolerance enabled, which does not match with the current settings of the BSE.

Table sharing modeling - Modeling table sharing “Next package combination”

The **Table Sharing Sets (tltsm1115m009)** session has been enhanced. In this session, you can now model table sharing for the “Next package combination” before the companies are moved to the “Next package combination”.

File manager

This section provides a brief explanation of the File manager-related enhancements.

New function to start File manager modeless

A new function, `FileManager.show()`, is available. You can use this function to start the File manager modeless to show the contents of a specific directory.

For details, see the *Infor ES Programmer's Guide (Infor Support Portal KB 22924522)*.

Integration tools

This section provides a brief explanation of the integration tools-related enhancements.

Data Publishing Management – Automate IMS publishing

To automate IMS publishing, you can add the **Start Publishers (ttddpm5225m000)** session to a job. This session can also be started through the **Publish Changes (ttddpm5125m000)** session. If publishers are already running, then no publishers are started.

Job management

This section provides a brief explanation of the job management-related enhancements.

Call Graph Profiler settings

The new **Call Graph Profiler settings for Jobs (ttaad5160m000)** session is available to set the call graph profiler when running a job. You can start this session from the reference/specific options in the **Job Data (ttaad5500m000)** session when a job is selected.

Profiles are generated within a specified from/to period and stored in a specified subfolder within the BSE. You can specify filters and bshell functions similar to the relevant options within the **Debug and Profile 4GL (ttadv1123m000)** session.

Personalization

This section provides a brief explanation of the personalization-related enhancements.

Icon picker for toolbar personalization

In the **Personalize Toolbar (ttadv9250m100)** session, the icon picker has been split into two controls:

- A control to select an image file from the client machine
- A new control to select a predefined SVG-icon

Report designer

This section provides a brief explanation of the Report Designer-related enhancements.

Field Borders

Borders can be drawn around the fields in the Report Designer, with a height, width, and background color.

Comments

Comments or small notes can be added to layouts and fields in the Report Designer.

Image on QR Code

An image can be added to the QR Code, for example, to add a logo in the middle of the QR Code.

Options

This section provides a brief explanation of the options-related enhancements.

Debug Bshell – Store options for different user

The **Debug Bshell (ttstpbshdebug)** session, which is used to set or modify various bshell debug options on runtime, is extended with a new option. You can use this option to store the debug bshell options for a different user. This is for example useful if a bshell is started without a UI. The option is present on the new **User Start Options** tab and only available for super users.

LN Studio

This section provides a brief explanation of the LN Studio-related enhancements.

3GL Proxy Generator – Generate extra functions for LN BDE WSDLs

The 3GL proxy generator has been extended. The **Generate Source from WSDL** option now generates separate functions for each BDE method, such as `Create` and `Show`.

LN user interface

This section provides a brief explanation of the LN user interface-related enhancements.

Support for Amazon Corretto 8

LN UI 12.2.2 (Xi) is supported for Amazon Corretto 8. This is an Open Java Development Kit (OpenJDK) distribution that is compatible with the Java SE 8 standard. The Enterprise Server Installer supports the installation of a bundled Amazon Corretto 8 Java Runtime Environment.

Support for Apache Tomcat 9.0.x

LN UI 12.2.2 (Xi) is supported for Apache Tomcat 9.0.x web server. The Enterprise Server Installer supports the installation of Apache Tomcat 9.0.x web server.

Accessibility for German language

On the **User Profile Details (uigwt0102s000)** page, the new **Enabled (including grid)** option is available in the **Screen reader mode** field. This option provides out-of-the-box accessibility with JAWS screen reader software. You do not have to install scripts locally.

Note: Accessibility is supported for the German language only. See Infor Support Portal KB 1974288.

Top level items in the navigation menu

In the navigation menu, menu items can be displayed at the top level of the menu structure. Such items are not displayed in an expandable item anymore.

Chapter 9: Enterprise Server 10.7.0.1

This chapter describes the differences between Enterprise Server 10.7.0.1 and Enterprise Server 10.7, and the new functionality in Enterprise Server 10.7.0.1.

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

Application configuration

This section provides a brief explanation of the application configuration-related enhancements.

Customer Defined Fields – Support MLE

In the **Customer Defined Fields (ttadv4591m000)** session, a customer defined field can now also be marked as multi-language. This is only allowed for these fields:

- Fields of data type String. If an existing domain is used, then the domain must be a Multibyte String.
- Fields that are not marked as array, but for which the number of elements exceeds 1.
- Fields that are not marked as calculated.
- Fields that do not refer to a related table.

Note:

- The **Multi Language** check box is only displayed if the Multi Language feature is enabled and at least two data languages are available on runtime.
- Porting set 9.3b or later is required.

Application development

This section provides a brief explanation of the application development-related enhancements.

Directories of software components - missing entries

In the **Directories of Software Components (ttadv1115m000)** session, a new action is available to add missing directory entries.

Usually, this session contains seven records for each package VRC, which all contain the same directory path. You can use the new action to add these records at once.

Application extensibility

This section provides a brief explanation of the application extensibility-related enhancements.

You can now also add additionally created table indices to a session.

You can define a tx table as secondary table. This secondary table is extended to the main table of the session. You can define the field mapping between the standard table and the tx table in the Extension Modeler.

Database management

This section provides a brief explanation of the database management-related enhancements.

The **Create Sequential Dump of Table (ttaad4226m000)** session has been enhanced with this functionality:

- A new option to create a dump of tables that is based on a list of tables in a file. You can specify the file name in the session.
- A new option to create a dump of tables with records that have been modified before or after a defined timestamp. This is only applicable for tables that are registered within the **Table Timestamp Definitions (ttadv4136m000)** session.

Note: Porting set 9.3b or later is required.

The same functionality has been implemented for the related **Convert/Recover Tables (ttaad4228m000)** session.

Device management

This section provides a brief explanation of the device management-related enhancements.

Document Output Management (DOM) – Document Rendering and Distribution

A new field, **Daemon Time-out**, has been added in the **Document Rendering and Distribution (ttrpi3210m000)** session. If the session is run as daemon, you can specify a time-out . When this time-out has elapsed, the session stops processing the documents and automatically exits. This way, the session can be started as a job regularly and the benefits of the daemon mode are retained.

Job management

This section provides a brief explanation of the job management-related enhancements.

Planned Downtime

A new session, **Planned Downtime (ttaad5530m000)**, has been added. In this session, you can specify a planned downtime period:

- You can specify the **Upgrade Date/Time**: jobs are not started if they, based on the expected runtime, would still be running at the start of the downtime period.
- If you specify both, the **Upgrade Date/Time** and the **End Period**, then jobs are also not started during the planned downtime period.

After the downtime period, the jobs that should have started during the downtime period are automatically scheduled to start directly.

LN Studio

This section provides a brief explanation of the LN Studio-related enhancements.

BFlow - Enhance Abort Test

A new check, **Termination**, has been added to the `ExecTest` action in BFlow. On runtime, if this new option is selected, the BFlow exits with "abort".

If this option is not selected, the BFlow exits with "failed". This is the old situation.

Report designer

This section provides a brief explanation of the Report designer-related enhancements.

Multiple personalizations per report

You can now define multiple personalizations per report:

- You can use the **Report Personalizations (ttadv9507m000)** session to copy an existing personalization to a new variant.
- Alternatively, in the Report Designer, you can save the personalization as a new variant.

On runtime, the user must select the desired variant in the report selection dialog box.

Running total

You can define a "running total", for example, at the bottom of the page and at the top of the next page. To achieve this, you must place an aggregation field on the footer and header layouts. You must also specify some additional properties, which define when the total value is printed or reset.

Extra fields from additional datasets or tables

In the Report Designer, you can now select extra fields from additional datasets or tables. You can use the `write.additional.row()` function to print these fields on the personalized report.

You can use this functionality, for example, to add subcontracting materials on the Purchase Order report.

To add the additional rows to the report, these steps are required:

- 1 A dataset must be added to the report extension. Through this dataset, based on a selected table, you can select the extra fields to be added to the report. A wizard helps you to achieve this with minimal effort.
- 2 In the Report Designer, extra layouts must be added to the report. These layouts may contain any dataset header, the dataset details, or a dataset footer. You can attach multiple datasets to a personalized report.

User management

This section provides a brief explanation of the user management-related enhancements.

Authorization Management System (AMS) - History on AMS data

If Enhanced AMS is enabled, you can select the **Role History** check box in the **AMS Parameters (ttams0100m000)** session. If the **Role History** check box is selected, the **Role History Data (ttams4175m000)** session is displayed in the **Authorization Management System** menu.

The history data is generated when a role is converted to runtime. Every time a role is converted to runtime, a history record is written with the next version tag. The changed session, table, table field, and library authorizations that were converted to runtime fall under this version tag. The history contains this information:

- The user that performed the change and the date the data was changed.
- The user that performed the conversion and the date the role was converted to runtime.

You can start these commands from the **Role History Data (ttams4175m000)** session:

- **Restore role from history**

If one role history record is selected, then you can use this version to restore the role and its authorizations to a previous version. The authorizations are overwritten with the data from history. You must convert the changed role to runtime.

- **Purge role history**

To purge the role history for a selection of roles until a date and time. If no history for a role exists after the specified date and time, then the last version tag before the specified date is kept.

- **Check Role History Hash**

The role history contains a calculated hash code based on the role and its authorizations. If data is changed directly in the database, or through the **General Table Maintenance (ttaad4100)** session, then the hash differs from the calculation. Roles with this issue are displayed on a report.

- **Recalculate Role History Hash**

If an issue with the hash code of a role exists, then you must trace the cause of this issue. You can, for example, run an audit on the database and tables or check the logging of the **General Table Maintenance (ttaad4100)** session. After solving the problem, you can recalculate the value.

Note: History on AMS data is only available for Enhanced AMS.

Chapter 10: Enterprise Server 10.7

This chapter describes the differences between Enterprise Server 10.7 and Enterprise Server 10.6.1.1, and the new functionality in Enterprise Server 10.7.

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

New features

Application configuration

Workbench Parameters – Support multiple BSEs

You can use a single workbench web server with multiple LN server environments. Each LN server environment (BSE) can have its own version of the workbenches deployed in the same workbench web server. At runtime, when a workbench is started, the correct version is retrieved from the workbench web server and started.

To distinguish between LN BSEs, two fields have been added to the **Workbench Parameters (HTML-based) (ttaad7131m000)** session:

- **Shared Workbench Web Server**
Select this check box if the workbench web server is used by multiple Infor LN environments (BSEs).
- **BSE ID**
 - If **Shared Workbench Web Server** is selected, you can specify a BSE ID. If a single workbench server is used, a BSE ID is used to distinguish between several LN environments (BSEs). In this way, if LN environments have different versions, each LN environment uses the workbench versions that belong to that LN environment.
 - You can leave this field blank for one LN environment, such as the main or production environment.
For other LN environments, you must specify a unique value in this field. This is required to distinguish correctly between the different workbench versions.

- A BSE ID may consist of a maximum of 6, uppercase, alphanumeric characters, including the hyphen.
Examples: PROD-1, TEST-2, DEV, STAGE
- **Note:** If the BSE ID changes, you must redeploy all workbenches of the affected LN environment.

eMessage Connector

Providing parameter - Date in Header

The **Provider Parameters (ttcmf0120m000)** session has been extended with the **Date in Header** parameter. If you set this parameter to **No**, the date is not added to the message header.

Note: KB [2038556](#) is required.

Product improvements

Application configuration

Parameters Document Management – CM expired

From Enterprise Server 10.7, the bd package is expired. Therefore, the CM Document Management System is no longer available.

If LN application version 10.7 or later is active, the parameter setting for CM is hidden in the **Document Management Parameters (ttaad0180m000)** session.

Database management

General Table Maintenance (ttaad4100) – Support OCM corrections

In the **General Table Maintenance (ttaad4100)** session, you can now correct data in tables of companies that are OCM-enabled. You can make corrections on both checked-in and checked-out records. You cannot update key fields.

Integration tools

Object Configuration Management – blocking objects deactivate

You can now use the **Validate Deployment Upgrade (ttocm1211m000)** session to check for blocking objects in case of a deployment deactivate action. In such a case, you must specify an empty new deployment ID.

Report designer

The Report Designer has been enhanced with several features. Some features deliver new functionality while others improve usability.

Exact positioning

For reports that are printed to PDF, exact positioning is now available in the Report Designer. The position is related to the paper definition as set in the Report Designer. With exact positioning, these features are enabled for users:

- Control over where fields are placed in the document, including horizontal and vertical alignment of content within the fields and objects.
- Full control over the position of report sections, for example, the location of totals.
- Alignment of fields through new main panel rulers.

Printing to Excel

A personalized report can be printed to an MS Excel document. New properties are now available to specify the row and column position in MS Excel for fields, labels, images and barcodes. This is useful for controlled output to MS Excel of generated reports, which generate 'data dumps'. Users can create a fully formatted output in MS Excel format.

User management

Authorization Workbench - data security navigation

To support data security, two navigation buttons have been added to the **Authorization Workbench (ttams4300m000)**. These buttons are displayed in the upper-left corner of the right pane of the workbench. Click these buttons to start these data security sessions:

- **Authorized Employees (tcsec1500m000)**
- **AMS Role Permissions (tcsec3100m000)**

These data security sessions contain reference options to start the **Authorization Workbench (ttams4300m000)** with context. You can start the **Authorization Workbench (ttams4300m000)** for an employee or a permission that is linked to an AMS role.

Note: LN application 10.7 or later is required.

LN user creation using IFS – default database user

In response to the `SecurityUserMasterBOD` that is sent by IFS, LN creates the requested user and links the defined database user to that user. To configure the database user and the corresponding database, use the **User Data Defaults Set (ttaad2111m000)** session.

Note: KB 2009511, no package, is required.

Options - debug and profile 4GL

The **ttstpbshdebug** session, which is used to set or modify various bshell debug options on runtime, has been extended with an option to disable buffering. This option prevents that the last part of a trace file is never written if a bshell, for whatever reason, is killed.

LN User Interface

Deployment changes

The online help for the LN UI Administration Webapp now includes the *Infor LN UI Administration Guide*.

The online help in English for LN UI Settings now includes the *Infor LN UI User Guide*.

Usability improvements

You can now search within a subtree of the navigation menu. Right-click the desired node of the navigation menu and select **Search from Node**.

User Profile Handling

When you start LN UI, a dialog box to select the user profile may be displayed. This dialog box is displayed if you have multiple profiles and no profile is set as default.

After LN UI is started, you can select **Options > Settings** to access user profiles.

Chapter 11: Enterprise Server 10.6.1.1

This chapter describes the differences between Enterprise Server 10.6.1.1 and Enterprise Server 10.6.1, and the new functionality in Enterprise Server 10.6.1.1.

This table shows the Infor Support Portal KBs for Enterprise Server 10.6.1.1:

Package	KB
TT	2005851
TL	1997774

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

New features

Application configuration

Export and import configurations

New sessions for export (**ttaad7203m000**) and import (**ttaad7204m000**) of configurations have been added. You can use these sessions to copy AMS data and table sharing data across environments.

PDF properties

A new **PDF Properties** (**ttadv3138m100**) session is available to change and configure PDF display property settings. Use the **Convert** option to write the settings to the `PDF.properties` file.

Application extensibility

Session and report extensions – additional functionality calculated fields

The session and report extension functionality has been extended with additional functionality for calculated array fields. A calculated field has an extra elements property to indicate the array depth. The calculate value hook for an array element differs from a single calculated field; the element number is an input argument.

Functions and features

SOAP – support CDATA

The Library Generator (LN Studio) that generates an LN library based on a WSDL now also supports the generation of functions with CDATA data elements. A library TIV of 2230 or higher is required.

The SoapElement library has been extended with new functionality for setting CDATA elements.

Note: LN Studio build 10.6.0.361 is required.

Suppress messages and questions – support 3GL processes

The suppression of messages and questions, as set by the **Tools Parameters (ttaad0100m000)** session, is now also applicable to messages and questions of 3GL processes started through a 4GL session.

Integration tools

Data Publishing Management module

A new integration module, Data Publishing Management, is introduced as part of the Integration Tools.

With the Data Publishing Management functionality, all the data from LN application tables can be published to Infor Data Lake using ION Messaging Service (IMS). In Data Lake, the data can be used for Business Intelligence and Analytics (Birst).

In the **IMS Parameters (ttddpm5130m000)** session, you can configure the connection to IMS.

In the Data Sets sessions, the tables that must be published are defined, such as data sets that are required for specific BI Reports. Sensitive data can be excluded from publishing.

The publishing sessions publish the LN data. You can use the **Publish Data (ttddpm5205m000)** session for initial load. That is, the complete content of the tables that are set up to be published. The **Publish Changes (ttddpm5125m000)** session publishes the runtime changes by users, for all the tables that are set up to be published.

Note: Porting set 9.2b or later is required.

Job management

Job groups

In a scenario where performing job A depends on the result of job B, it is hard to decide at what time job A must be scheduled, and how long job B runs. To handle dependent jobs, you can now create a job group. Use the **Job Groups (ttaad5140m000)** session to create a job group. A job group has a name, with the same characteristics as a job name, and a description. The **Status** and **User** of the job group are handled automatically.

After creating the job group, the jobs are added to the group, approximately in the order the jobs must be performed. The first job in the group (with the lowest Group Number) determines the handling of the whole job group, such as execution date and whether the job group is being repeated. If the job group is not repeating, the job group and all non-repeating jobs in the job group are deleted when the job group has run.

The dependencies of the jobs in the job group are also determined. A job in the job group can only depend on a job in the same job group with a lower job number.

You can use the specific options in the **Job Groups (ttaad5140m000 and ttams5640m000)** sessions to change the status of the job group. The job group statuses have the same meaning as the status of the jobs and the same status changes are allowed.

Note: Job groups are only handled by the BSE service Job Scheduler Service.

User management

DEM authorization in role data

In Enhanced AMS, you can overrule the maximum allowed session authorization level as exported/generated through the **Aggregate DEM Authorizations for AMS (tgbrg9298m100)** session, and stored as **Current DEM Authorization**.

The overruled authorization, stored as **Actual Authorization**, can be set manually. You can now set this overruled authorization also more easily in these ways:

- Use the new **Actualize Authorizations** option that has been added to the **Authorizations (ttams4100m000/ttams4110m000)** session.
- Use the **Aggregate DEM Authorizations for AMS (tgbrg9298m100)** session. This session actualizes the authorizations if the **Automatically Start Authorization** parameter in the **AMS Parameters (ttams0100m000)** session is enabled.

Product improvements

Application configuration

Companies - Preferences of LN UI landing page

In the **Companies (ttaad1100m000)** session, you can define these settings:

- The logo to be displayed on the landing page
- The title of the landing page
- The background color of the title

In the **User Data Template (ttams1110m000)** session, you can select one of these landing page types:

- **Default**
The current behavior. Depending on the started user interface, that is, Infor Ming.le™ or stand-alone, the landing page contains **Recently Used** or **Favorites, Bookmarks and Recently Used**.
- **Recently Used**
- **Favorites, Bookmarks and Recently Used**

Application extensibility

- The Extension Modeler now contains an option to start the **Customer Defined Fields** session for table and session extensions.
- In the Extension Modeler, when accessing domains, Customer Defined Field domains are now included in the zoom dialog box.

Database management

General Table Maintenance (GTM) session – support clear fields search row

In the **Search Row** dialog box of the **General Table Maintenance (ttaad4100/4500)** session, the **Clear Fields** option has been added.

Integration tools

Object configuration management - additional text

In the **Object Types (ttocm0102m000)** session, the text manager is now enabled. You can link a text to the object type of a model. In the **Models (ttocm0101m000)** session, you can export a complete model to XML. Texts that are added to an object type are not added to the exported XML.

Miscellaneous

Bi-directional language exceptions

The text direction of each multibyte string form field is determined by the language of the user or by the currently selected data language in case of a Multi-Language Enabled environment. In certain cases, such as phone numbers, the text must always be displayed from Left-to-Right. There are two ways to overrule the automatic text direction:

- 1 In the LN Studio Form Editor, the text direction of a multibyte field can be set to **Always Left-to-Right**.
Note: LN Studio build 10.6.0.361 is required.
- 2 In the Form Personalization, the customer can personalize the text direction of a multibyte field to **Always Left-to-Right**.

File Manager workbench – support root path

The `FileManager.selectFile()` and `FileManager.selectFolder()` functions are extended with a `root.path` argument to set the root directory of the **File Manager** workbench. A user can navigate to child directories but not to the parent of the root directory.

For more information, see the *Infor ES Programmer's Guide (Infor Support Portal KB 22924522)*.

Change Company session – (Enhanced) AMS filter

If a user starts the **Change Company (ttcsm2007m000)** session, all companies with the same package combination as the user are displayed. However, using (Enhanced) AMS, you can restrict the companies where the user can perform any actions. That is, you can restrict the companies where the user has permission to start at least one session. The user can change to a company where the user cannot perform any tasks.

To prevent this, the convert user to runtime functionality has been changed: now, all companies where the user can perform a task (display authorization for one session in the company is sufficient) are stored. These companies are used for filtering out the companies for which a user has no session authorization.

This data is also used in BIRST to filter out the data a user can view.

A user can have session permissions on these levels: all packages, a package, a module, or a session. If a user has session permission for all companies on a level, then the user can switch to any company, except in these situations:

- **AMS**
The user's **Authorization Group** is **No Authorization** for a company in the **Session Authorizations by Company (ttams3133m000)** session. The user has no other allowed authorization for a package, session, or module.
- **Enhanced AMS**
The user's **Actual Authorization** is **No Authorization** for a company in the **Session Authorizations (ttams4110m000)** session for all the packages (package is empty). The user has no other allowed authorization for a package, session, or module.

The data of the allowed companies is automatically generated when a user is converted to runtime. If the user is not yet converted and the allowed companies are not yet recorded, the companies are not filtered in the **Change Company (ttask2007m000)** session. When a user is converted to runtime, the present allowed companies are removed and a new list is created.

Note: Super users do not have AMS roles and therefore have permission for all companies.

User management

Authorization workbench – color badges

The workbench authorization functionality is now extended with color badges for enumerated properties. In the **Enum Domain Formatting (ttgfd4525m000)** session, you can extend enum properties with color or images. This functionality is supported for these properties:

- All authorization properties: ttaad.perf, ttaad.perm, ttams.fltr, ttams.perm
- The context (ttams.cntx) property

LN User Interface

Note: LN UI 12.1.3 is required.

- On the filter row, the `<Multiple>` keyword in the column header indicates that multiple filter conditions are applied to the column. The filter conditions are displayed when resting on the column header.
- LN UI supports a light skin for the navigation menu, in addition to the default dark skin. To change the skin, open the user profile and navigate to the **Preferences** tab and the **Appearance** field group.
- This LN UI version introduces a different format of displaying the version (12.1.3) and build (32) number: 12.1.3-32.

Chapter 12: Enterprise Server 10.6.1

This chapter describes the differences between Enterprise Server 10.6.1 and Enterprise Server 10.6.0.1, and the new functionality in Enterprise Server 10.6.1.

This table shows the Infor Support Portal KBs for Enterprise Server 10.6.1:

Package	KB
TT	1987662
TL	1987656
DA	1987645
TA	1953195

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

New features

Authorization workbench

The **Authorization Workbench (ttams4300m000)** gives a different view on the AMS and DEM authorization settings. Next to this, the workbench shows the maximum effective authorization and personalization settings for each affected session.

The purpose of this workbench is to quickly scan the implemented authorizations. Therefore the workbench provides these perspectives:

- User perspective
Shows all authorizations for a specific user. Results are displayed grouped by role.
- Role perspective
Shows all authorizations for a specific role. All users in the specified role are displayed.

- **Session perspective**
Shows all authorizations for a specific session. Results are displayed grouped by role. A list of users per role and a list of all users for the specified session are displayed.

Shortcut buttons, to quickly switch between perspectives with use of the context, are available on several levels. To get more focus on a specific authorization, you can set several filters.

To enable editing, you can zoom to the corresponding edit sessions:

- **Session Authorization (ttams4110m000)**
- **Table Authorization (ttams4111m000)**
- **Table Field Authorization (ttams4112m000)**
- **Library Authorization (ttams4113m000)**

The panel with the resulting maximum authorization is dependent on the existing Runtime Change Publishing (RCP) module. This module supplies information about maximum authorizations for sessions. Personalization settings indicators are displayed together with the maximum authorization.

BFlow test framework

Import/export

In the **Import BFlow Test Framework (tlrgt1245m000)** session, the import of BFlow cases, scheduling information, and test groups is now optional.

Excel integration

Import from Excel - session selection

When you start Import from Excel from an editable overview session with a synchronized child details session, you can now select which session, overview or details, to use to import the data from an Excel workbook.

User management

Enhanced AMS

A session similar to **Print Session Authorizations by User (ttams3400m000)** has been implemented for Enhanced AMS. The data must initially be generated by the **Aggregate User Authorizations** option. You can also use this option to print the authorization data.

The session is present in the **User Management > Authorization Management System > Definition of Roles** menu.

User data defaults sets

These fields are added to the **User Data Defaults Set (ttaad2111m000)** session:

- **Logistical company**
- **Financial company**
- **Process Browser**

Product improvements

Application configuration

Create new package combination / VRCs

Within the **Create New Package Combination / VRCs (One Step) (ttaad1222m000)** session, which is used to create a software environment in a single step, the **Set Target Attributes (ttaad1226s000)** option has been added. You can use this option to select a target VRC, a development VRC, and a TIV level, for one or more selected packages. This new session replaces the previous options to select a target and development VRC.

BFlow test framework

Logging

BFlow logging was stored in one file per test step run. Logging is now reduced to one file per test case run.

Database utilities

Reorganize tables

In the **Reorganize Tables (ttaad4225m000)** session, the **Repair Indices** action is no longer executed by dropping and re-creating the indices of a specified table range. Instead, the action is now performed

by `bdbreconfig`. This binary breaks up the work in parts that are executed in parallel. The **Create Missing Indices Only** option still uses the classic, create index, implementation.

Document Management

ODM menu option

If a session is started floating, the **Attachments** option is available in the **References** and Context menus.

The **Attachments** option is also present in these menus if the **Show ODM in-context application** check box is cleared in the standalone mode. This check box is located on the **LN Environment Details** page in the LN UI Administration Webapp.

Functions and features

Automatic restart after removing call graph profile/debug options

When you start LN UI, call graph profile and debug options may still be present from a previous session. You are prompted whether these options should be used or removed. If you choose to remove these options, LN UI automatically restarts.

Conditional Formatting

The **Conditional Formatting (ttadv9502m000)** session now has options to perform these actions:

- Use the format as a filter.
- Define formats at system level, super user only

File Manager - server paging support

The **File Manager** cannot show the directory content if it has more than 200.000 files and folders. Therefore, the number of directory entries retrieved from the server has been limited to 25.000. If a directory contains more than 25.000 entries, a message is displayed and filtering must be used to find the files in this directory.

List detail

- Personalize Navigation List improvements
For a field without a label, the label description is derived from the overview session if available. Otherwise the table field description, if applicable, serves as the label description of the field.
- Navigation List toolbar

The **Navigation List** pane has been extended with a toolbar. This toolbar has a Personalization gear with the **Personalization Navigation List** menu option.

- Data Empty indication on Cards

The **Tools Parameters (ttaad0100m000)** session has been extended with a "**Data Empty**" **Character** field. Use this field to specify the character to be displayed for fields with empty data on the card in a Navigation List.

Session title personalization

The **Personalization Workbench**, which you can start through the **Personalize Form** command, now supports personalization of the session title.

Options - Debug and Profile 4GL

This functionality has been added:

- **Add Listed Bshell Functions to Profile** - to specify the bshell functions to add to the profile
- **Keep Profile Options for other Bshells** - to specify to save the profiling settings for the current user for new started bshells

The **Profile Options Present** indicator shows whether new bshells are started with profile options.

Options - Debug bshell

These options have been added:

- **Trace Listed Bshell Functions** - to specify the bshell functions to add to the tracing
- **Keep Debug Options for other Bshells** - to specify to save the debug settings for the current user for new started bshells
- Command buttons to start, pause, resume, and stop tracing, and to download the compressed trace file for analysis.

The **Debug Options Present** indicator shows whether new bshells are started with debug options.

Personalization and configuration

Reorganize application personalization menu

The **Session Personalizations (ttadv9100m000)** menu item is moved to the **Reference** menu of the **Manage Personalizations (ttadv9150m000)** session.

The functionality of the export and import personalization sessions, that is, ttadv9403m000 and ttadv9503m000, has been implemented in these sessions:

- **Export Configuration Data (ttaad7201m000)**
- **Import Configuration Data (ttaad7202m000)**

The original sessions are expired.

LN User Interface

Note: LN UI 12.1.2 is required.

GBF improvements

The GBF underwent a major technical change. It is faster and can manage bigger tree structures.

LN Client Service settings

On the **LN Environment Details** page in the LN UI Administration Webapp, you can download the connection properties of the LN Client Service settings as a settings file or as a QR code. You may use the settings file or QR code to configure the client program, such as Mobile Field Service.

LN Client Service support for OAuth 1.0a

In the LN UI Administration Webapp, the endpoint security of the LN Client Service can be configured for OAuth 1.0a with an access key and a secret key. This allows the LN Client Service to be exposed as an available API of the Infor OS ION API gateway.

LN Navigator

When you use LN UI in standalone mode, the **LN Navigator** in-context application is disabled. In standalone mode, the functionality of the **LN Navigator** is provided by the ordinary navigation menu, so the **LN Navigator** is obsolete.

Chapter 13: Enterprise Server 10.6.0.1

This chapter describes the differences between Enterprise Server 10.6.0.1 and Enterprise Server 10.6, and the new functionality in Enterprise Server 10.6.0.1.

This table shows the Infor Support Portal KBs for Enterprise Server 10.6.0.1:

Package	KB
TT	1962808
TL	1957220

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

BOD handling

Improve efficiency determining company upon drill back to LN

Subscription table tlesb300 is checked in each company looking for a match in logical ID.

If the logical ID ends with a slash (/) followed by a number, that number is used as the company number. If this is not the case, the check on tlesb300 is performed on each company.

Database utilities

Progress indicator porting set binaries

To improve the user experience and avoid time-out communication errors within LN UI, a progress indicator has been implemented. This indicator is displayed for all sessions and libraries during the processing of data by these porting set binaries:

- bdbpre

- bdbpost
- bdbreconfig
- refint

The indicator is displayed in these sessions:

- **Reorganize tables (ttaad4225m000)**
- **Create sequential dump of table (ttaad4226m000)**
- **Create table from sequential dump (ttaad4227m000)**
- **Convert/recover Tables (ttaad4228m000)**

Enhanced AMS

Copy from DD functionality

In the authorization sessions that are related to Enhanced AMS, the **Actions** menu now contains an option to copy the components from DD.

You can import sessions, tables, table fields, and libraries based on a selection range and specified authorization settings.

Excel integration

Access control on export to and import from Excel commands

Two check boxes, **Allow Export to Excel** and **Allow Import from Excel**, have been added to the **Tools Parameters (ttaad0100m000)** session. Use these check boxes to allow or deny Excel commands for all users. Initially the Excel commands are allowed.

Two Excel options, **Allow Export to Excel** and **Allow Import from Excel**, have been added to the **User Data Template (ttams1110m000)** session. You can set each Excel option to one of these values:

- **According to Parameters** – to follow the setting of the Tools parameters.
- **Always** – to allow access to the related Excel commands. This setting overrules the Tools parameters.
- **Never** – to deny the access to the related Excel commands. This setting overrules the Tools parameters.

Initially these two options are set to **According to Parameters**.

If a user is denied access to certain Excel commands, these Excel commands are not available in the toolbar of a session. They are also not present in the **Actions** menu of a session.

Functions and features

Custom format for date and time

In the **User Data Template (ttams1110m000)**, Date and Time options are added. These options enable a user to define a custom format for date and time. This format is used by LN UI when displaying dates and times.

Note: LN UI 12.1.1 is required.

Right-alignment for header labels

A right-aligned header label can be defined for fields in detail sessions. This way columns of fields and the corresponding column labels are better aligned.

The **Above (Right Aligned)** label position is added to the **Position** attribute of a label. This setting is available in LN Studio in the **Session Editor - Form Definition** tab - **Details** pane – **Label** tab – **Details** group.

Note:

- LN UI 12.1.1 is required.
- LN Studio build 10.6.0.329 is required.

Jobs

Set all sessions to active or inactive

In the **Job Data (ttaad5500m000)** session, commands are added to activate or deactivate all sessions that are linked to the selected job. These commands are only available if at least one session with an appropriate active or inactive status is present in the selected job.

Personalizations and configurations

Note: LN UI 12.1.1 is required.

Saving splitter position in sessions

The last position of horizontal and vertical splitters in sessions is stored as personalization. The layout of a session can be changed by dragging the split position. When the session starts, the saved position is used for the layout of the session.

Toolbar personalization for Gantt and tree view

For users who are allowed to personalize applications, the **Personalize Toolbar** menu option is available for the Gantt and tree view types of sessions.

Report designer

A new session, **Generated Reports (ttadv3548m000)**, is available. You can use this session to generate reports based on a selection of table fields of a main table and fields of related tables. In addition to the report, the session also generates a 4GL print session including a form definition and a 4GL program script. For the selection of the table fields of the main table and related tables, the **Report Designer** workbench is started automatically.

The generated reports are created in your current activity. After you have completed the generated reports, they can be checked in and committed to the Project VRC.

Afterwards, you can modify and personalize the generated reports through the **Report Designer**. You can, for example, add company logos and change report layouts.

Note: Porting set 9.2a.01 is required.

User interface

Note: LN UI 12.1.1 is required.

Color pickers

Color pickers do now have an advanced RGB color selector. Users can use a color wheel and type the RGB hex code.

Customization of landing page

When using LN UI in stand-alone mode, an LN UI administrator can customize the landing page. The administrator can configure the LN environment to show an image, a banner text, or both on the landing page. In addition, a background color can be defined.

Grid scroll distance

On the **User Profile Details (uigwt0102s000)** page, users can select the amount of grid rows to scroll per mouse wheel tick.

Handling of bshell messages

The message window is not only used during non-interrupting message mode but also during interrupting message mode:

- You can view the history of messages by clicking the message icon in the status bar.
- If a new informational message, from for example the bshell, is received, the message icon in the status bar flashes.

Locate recently used item in menu

When using LN UI in stand-alone mode, you can right-click a recently used item on the landing page and select **Locate**. The side navigation menu is expanded to show the menu that started the session from which the item was started.

Skin selection

An LN UI administrator can configure a predefined skin per LN environment. On the **User Profile Details (uigwt0102s000)** page, users can select to apply the skin from the environment. Alternatively, they can select to apply the user's preference for one of the predefined skins.

Chapter 14: Enterprise Server 10.6

This chapter describes the differences between Enterprise Server 10.6 and Enterprise Server 10.5.2, and the new functionality in Enterprise Server 10.6.

Note:

- For the last minute information, see KB [1868980](#).
- For the dependencies between Enterprise Server components, see KB [1404654](#).

Configuration

Case-sensitive software language codes

In the database, the language code is interpreted in a case-sensitive way. Therefore, language code 'a' is different from language code 'A'. The Windows file system, however, interprets characters in a case-insensitive way. Therefore, the actual number of supported software languages is limited to 36.

Business requires that a single BSE supports more than 36 languages together. To distinguish between lower and upper case language codes on the Windows file system, a filename extension is introduced.

The extension is added to these filenames:

- `$BSE/lib/dtopt<lang>`
- `$BSE/lib/textinf/<id>text0<lang>`

This table shows some examples:

Current	New
<code>\$BSE/lib/dtopt2</code>	<code>\$BSE/lib/dtopt2.2</code>
<code>\$BSE/lib/dtoptR</code>	<code>\$BSE/lib/dtoptR.53</code>
<code>\$BSE/lib/dtopth</code>	<code>\$BSE/lib/dtopth.17</code>
<code>\$BSE/lib/textinf/cutext0a</code>	<code>\$BSE/lib/textinf/cutext0a.10</code>
<code>\$BSE/lib/textinf/bxtext0A</code>	<code>\$BSE/lib/textinf/bxtext0A.36</code>

The conversion is automatically performed after the installation of Enterprise Server 10.6.

BOD handling

Insight in batches that are being received or are being processed

A new session, **Inbound Staging Batches Monitor (tlesb4500m000)**, is available. This session shows all BOD batches that are being received, are being processed, or resulted in an error. To view which batches cause problems, you can apply conditional formatting.

Some databases, such as SQL Server, 'support' dirty reading. If such a database is used, you can view the progress when a batch of BODs is being processed.

Database utilities

The **Suppress Information Logs (bdbpost)** check box has been added in these sessions:

- **Create Table from Sequential Dump (ttaad4227m000)**
- **Convert/Recover Tables (ttaad4228m000)**

If this check box is selected, information-related entries are not logged in the `log.bdbpost6.2-<seqn>.log` file. The report output remains unchanged.

DEM enhancements

DEM bookmarks support

Users can create bookmarks for sessions started through a DEM process. A DEM bookmark for a session contains both session information and DEM context. When a user starts a session through the DEM bookmark, the session is started with the DEM context of that bookmark.

Note: LN application 10.6 or later is required.

DEM favorites support

Users can create favorites of DEM menu items. A session started through a DEM favorite is started in the logistic/financial or base company. If a session cannot be started for some reason, such as insufficient permissions, a warning is displayed.

Note: LN application 10.6 or later is required.

Upgrading DEM bookmarks and DEM favorites to new DEM model

DEM bookmarks that were created with an old DEM model may not work for a new DEM model. DEM favorites only work if the menu item is still available in the new DEM model.

To upgrade to a new DEM model:

- 1 With the old DEM model: create DEM favorites for all DEM bookmarks.
- 2 With the new DEM model: start the sessions through the DEM favorites and create a new DEM bookmark.

Note: LN application 10.6 or later is required.

Extensibility

Add new reports to session

In the Extension Modeler, you can add reports, both new and existing, to a session. You can remove reports by using an `is.visible()` hook. To override reports, you can use a `get.alternative.report()` hook.

Infor Cloud Printing Service

Keep Connection Open check box

The connection configuration contains a new check box: **Keep Connection Open**. If this check box is selected, the connection to LN is not closed during the polling interval between two consecutive polls. You can use this option to prevent the overhead of closing and reopening connections, that is, stopping and restarting Bshells on the LN server. Only select this check box for polling intervals of less than a minute. Clear this check box for polling intervals of several minutes, to prevent idle connections.

Improved command handling on file share items

You can configure a time-out value for the command that is performed on items that have been downloaded to the file share. If a command is still running after the time-out has expired, the process is killed to prevent "hanging processes".

The executable and its arguments are now specified in two separate text boxes. A **Browse** button has been added to allow easy selection of the executable.

A **Test** button has been added to test the configured command on a selected file.

A **Retry** button has been added to retry the command on the selected failed items. Two types of failed items exist:

- Items for which the command did not complete within the configured time-out period
- Items for which the command completed with a non-zero exit code

LN User Interface

Locate favorite in navigation menu

When using LN UI 12.1 (Xi) in stand-alone mode, you can right-click a favorite item on the landing page and select **Locate in menu**. The side navigation menu is expanded to show the menu that started the session from which the favorite was created.

Preference for display density

In the user profile of LN UI 12.1 (Xi), you can specify the display density settings. These settings change the vertical spacing of all forms. Workbenches and graphical user interfaces, such as Gantt charts and process models, are not affected.

Preference to use new browser window

In the user profile of LN UI 12.1 (Xi), you can specify whether each new session must run in a separate browser window. Sessions that are called from another session are opened in the same window. Examples are detail, zoom, and print sessions.

Support of Apache Tomcat 8.5.*

LN UI 12.1 (Xi) supports Apache Tomcat 8.5.* web server. The Enterprise Server Installer supports the installation of Apache Tomcat 8.5.* web server.

The Apache Tomcat team has announced that support for Apache Tomcat 8.0.* web server will end on June 30th, 2018.

Support of Enterprise Server versions

LN UI 12.1 (Xi) now supports Enterprise Server versions before 10.5, so all Enterprise Server versions from 10.3. Some customers are currently limited to using LN UI 11.3.* (UX3) because of the Enterprise Server version. These customers can now migrate to LN UI (Xi), which offers improved usability.

Earlier Enterprise Server versions may impose functional limitations.

Support of Microsoft Exchange Server 2016

The Exchange Synchronizer for CRM contacts and calendar events supports Microsoft Exchange Server 2016.

Personalizations and configurations

Disable all personalizations

In the **Manage Personalizations (ttadv9150m000)** session, an option is added to disable personalizations, filters, and conditional formatting per user.

Report personalization - export/import configuration data

The **Export Configuration Data (ttaad7201m000)** and **Import Configuration Data (ttaad7202m000)** sessions are extended with report personalizations. To export report personalizations, you must select the **Report Personalizations** check box. If the **Specific Selection** check box is selected, the **Report** window is available. In this window, you can specify a range of reports and the report personalization levels for which to export the report personalizations.

Report personalization - copy personalizations to other level

The **Copy to other Personalization Level (ttadv9200s000)** session also supports report personalizations. To copy report personalizations, you must select the **Report Personalization Range** group. This enables the **Package** and **Report** fields where you can specify a range of reports for which to copy the report personalizations.

Remove menu personalizations

The **Revert to Saved** command in the **Personalize Menu (ttadv9205m000)** session has been replaced by the **Remove Personalizations** command in the **Actions** menu.

Report personalization - copy personalizations to other companies

You can use the **Import Configuration Data (ttaad7202m000)** session to import personalizations: you can import session, report, and menu personalizations, that were exported from a certain company, into one or more other companies.

Report personalization - Designer

A new session, **Report Designer (ttstppersrep)**, is available to personalize reports. In the **Report Designer** you can perform these actions:

- Modify existing report layouts, and change the properties of report fields and labels.
- Add company logos, bar codes, and images to the report.
- Add layouts to the report without customizing the report.

You can store report personalizations on user level and on company level.

Note: LN application 10.5.2 or later is required.

Show personalization information for sessions

Additional information has been added to the **Properties (ttidsksession)** session. You can start this session by pressing **Ctrl+Shift+8** in a session.

The additional information shows whether personalizations and extensions are active for the session.

Toolbar personalization improvements

The toolbar personalization for sessions has been enhanced with these features:

- Personalizations for toolbar buttons, menus, and menu items are fully integrated.
- You can add every menu item to the toolbar.
- Buttons and menu items can be displayed as text, icon, or both.
- Buttons and menu items can be colored.
- You can create personalized menus by adding new menus and rearranging the menu items.
- Shortcut menus are updated with the personalized visibility and description.

Note: LN application 10.5 or later is required.

PMC delivery - CDF

You can use PMC to deliver Customer Defined Fields (CDF) together with the table extension. This functionality replaces these CDF-related sessions:

- **Export Customer Defined Fields (ttadv4291m000)**
- **Import Customer Defined Fields (ttadv4292m000)**

Functions and features

For more information on the functions and features, see the *Infor ES Programmer's Guide (Infor Support Portal KB 22924522)*.

File Manager workbench – zoom support

To call the **File Manager** workbench for browsing and selecting on the LN server, these functions are available :

- `FileManager.selectFile()` - to select a file on the LN server. This function also supports mime-type filtering to only allow selection of a file of a certain mime-type.
- `FileManager.selectFolder()` - to select a folder on the LN server.

When running in a tenant environment, the **File Manager** workbench adheres to the file system restrictions imposed on a tenant. This in contrast to the GBF-based file browser.

ODM Attachments column

An additional **ODM Attachments** column is added to the grid if these prerequisites are met:

- ODM is active, that is, **Object Data Management (ODM)** is selected in the **Document Management Parameters (ttaad0180m000)** session.
- **Show ODM Attachments Column** is selected in the **Tools Parameters (ttaad0100m000)** session.

The additional **ODM Attachments** column is added to the grid to indicate attachments are present for a row. You can view and access the attachments through a contextual application.

Note: Filtering and conditional formatting are not supported for the **ODM Attachments** column.

Filtering and conditional formatting are not supported for the **ODM Attachments** column.

Persistent Gantt options

The checked state of the **Show Completions** and **Show Relations** Gantt options is saved for the user when the session is closed. The same checked state is restored the next time the session is started.

Search box of list details sessions – support filtering on descriptions of enumerates

When you specify a pattern in the search box of a list details session, a filter is applied on the data. This filter ensures that only the entries that contain the pattern in their string attributes are displayed. This functionality has been extended. Now, entries that contain the pattern in the description of the enumerated values are also displayed.

Known issues

Bdbvalidate error reporting

Sometimes, the bdbvalidate error report can show incorrect column information containing one or more high ASCII character errors. This will be fixed in the next release.

SLM messages

- `Couldn't read secu file` message

During a fresh or update installation of the PMC Addon installable unit, the SLM product generates an error in the `log.oie1288` file. The error is related to the da package. The issue is automatically solved when the environment is licensed.

```
SLM Error while reading SLM bic secu file for da 106U_0_t00
SLM returns: Couldn't read secu file
```

- `FQHN` message

When installing SLM on a virtual machine in demo mode, this message may be displayed in the event viewer:

VM restrictions set on incoming connection from system
'::ffff:10.21.47.76'. IP could not be resolved to a FQHN or the resolved
domain is not valid for this SLM Cluster.

The SLM server is installed on a virtual machine with a server name that does not meet the naming
convention of a Fully Qualified Host name.

Note: The LN environment will not work anymore after the thirty days demo license.

- SLM Warning Source(s) not installed message

These SLM warnings posted in the `log.oie1288` file are informational messages only:

```
SLM Warning Source(s) not installed, no license for SLM id 7055  
SLM Warning Source(s) not installed, no license for SLM id 7026  
SLM Warning Source(s) not installed, no license for SLM id 7135
```

Appendix A: SLM product IDs

For the SLM product IDs for LN and Enterprise Server components, see the user documentation of those components.

Alternatively, to view the actual list of SLM product IDs:

- 1 Log on to the Infor Support Portal.
- 2 Select **Resources > Request a Software Key > License Key Forms > Infor BAAN /SLM**.
The **Software validation** page is displayed.
- 3 At the bottom of the page, select **Infor License Manager (SLM)** and click **Information**.
The **Infor License Manager (SLM)** page is displayed.
- 4 At the bottom of the page, select **Infor ERP LN** and click **Information**.
The SLM product IDs for LN and Enterprise Server components are displayed.