



Infor LN UI Difference Study

Release 10.6.1.1

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Publication Information

Release: Infor LN 10.6.1.1

Publication Date: September 7, 2018

Document code: Inui_10.6.1.1_Inuidiffn__en-us

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About this document

Infor LN UI is the HTML5-compliant browser-based user interface for Infor LN.

This document describes the differences between the current LN UI version and previous versions. This document also describes the differences for deployment and for end users between LN UI and Web UI.

For developers, there are differences between LN UI and Web UI. See "Implementing HTML UI support" in the "WebTop Programming Rules" section in the *Infor ES Programmer's Guide*.

For more information about LN UI, see these documents:

- *Infor LN UI Administration Guide*
- *Infor LN UI Infor Ming.le-LN Plug-in User Guide*

For detailed information on the compatibility of LN UI with LN Tools and application versions, see Infor Xtreme KB 1460896 or 1834377.

Contacting Infor

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

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

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

Chapter 1: LN UI 12.1.3

This section describes the differences between LN UI 12.1.3 (Xi) and the previous version LN UI 12.1.2 (Xi).

Deployment changes

Build number

This LN UI version introduces a different format of displaying the version (12.1.3) and build (32) number: 12.1.3-32.

Usability improvements

Easy filter row

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.

Navigation menu

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.

Process viewer

When using the DEM process viewer, business process activity titles in Asian languages are now wrapped correctly.

Chapter 2: LN UI 12.1.2

This section describes the differences between LN UI 12.1.2 (Xi) and the previous version LN UI 12.1.1 (Xi).

Deployment changes

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.

Usability improvements

GBF improvements

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

Chapter 3: LN UI 12.1.1

This section describes the differences between LN UI 12.1.1 (Xi) and the previous version LN UI 12.1 (Xi).

Deployment changes

Support multiple workbench web servers

An LN UI administrator can configure the workbench web server base URL per environment. The value is used only if **EMPTY** is specified in the **Workbench Web Server Base URL** field in the **Workbench Parameters (HTML based) (ttaad7131m000)** session.

Download settings of LN Client Service

Per environment, an LN UI administrator can download a settings file, in JSON format, for the LN Client Service. The file can be used in client applications that support the import of connection settings.

Usability improvements

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.

Custom formats for date and time

LN UI supports custom formats for date and time fields. This feature requires Enterprise Server 10.6.0.1 or later.

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.

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.

Grid scroll distance

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

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.

Chapter 4: LN UI 12.1

This section describes the differences between LN UI 12.1 (Xi) and the previous version LN UI 12.0.5 (Xi).

Deployment changes

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 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 Microsoft Exchange Server 2016

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

Support of Slovak language

The Slovak language, language code sk, is supported.

Advance notice of removed LN Navigator

Starting with LN UI 12.1.2, due mid 2018, the **LN Navigator** in-context application is removed from the web application. The navigation menu has made the in-context application obsolete.

Advance notice of removed JBoss support

Starting with LN UI 12.1.2, due mid 2018, support of the JBoss web server is removed.

Usability improvements

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.

Always start session in new 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.

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.

Chapter 5: LN UI 12.0.5

This section describes the differences between LN UI 12.0.5 (Xi) and the previous version LN UI 12.0.4 (Xi).

This version offers improved usability and a different visual style compared to previous LN UI 11.3.x versions. It is functionally equivalent to LN UI 11.3.5.

Deployment changes

System message pop-up window

On the **General** tab of the **LN Environment Details (uigwt0010s000)** page, a new check box is available: **Always show changed system message in pop-up window**

This check box indicates how users that are logged on are notified of a changed system message:

- If this check box is selected and the system message changes, a pop-up window with the system message is displayed.
- If this check box is cleared, a system message change is indicated by a flashing icon in the status bar.

Usability improvements

Keyboard support of the Easy Filter row

The filter row of an overview session provides keyboard support for input fields and field operators. Therefore, you must press **Tab** twice when navigating from one filter input field to the next.

Show subapplications

In the DEM **Process Viewer** you can now get an overview of the subapplications which are linked to an activity of type Application. To view this list, right-click the activity in the **Process Viewer** and select **Subapplications**.

This feature requires Enterprise Server 10.5.2.1 or later.

Toolbar personalization

The **Toolbar Personalization (ttadv9220m100)** session supports several new actions. For example, you can perform these actions:

- Change colors of menus and items.
- Associate icons to items.
- Change the display style of items. That is, change the icon or the text, or both.

This feature requires Enterprise Server 10.5.2.1 or later.

Form personalization

The **Personalization Workbench (ttstppersxi)** supports several new personalizations. For example, you can perform these actions:

- Create new groups and tabs
- Change the layout policy of groups and child fields
- Disable the **select all** command of overview sessions.

This feature requires Enterprise Server 10.5.2.1 or later.

Automatic foreground coloring

When you select certain background colors, a contrasting foreground color is applied automatically. This way, good color contrast and readability is ensured.

For example, if you select black as background color, the foreground color automatically switches to white.

Automatic foreground coloring is used, for example, in conditional formatting and company coloring.

Chapter 6: LN UI 12.0.4

This section describes the differences between LN UI 12.0.4 (Xi) and the previous version LN UI 12.0.3 (Xi).

This version offers improved usability and a different visual style compared to previous LN UI 11.3.x versions. It is functionally equivalent to LN UI 11.3.4.

Deployment changes

Support for SHA-256

If single sign-on using Infor Federation Services from Infor Xi Platform is used, SHA-256 is supported for the relying party trust in AD FS.

Note: If SHA-256 is required, you must re-create the binding of LN UI to IFS. See "Configuring IFS (Platform Xi version)" in the *Infor LN UI Administration Guide*.

Microsoft Internet Explorer 10

Internet Explorer 10 is not supported. Microsoft stopped supporting this browser in January 2016.

Usability improvements

Multilevel view

To improve the visibility of the tree hierarchy, the multilevel view of, for example, Bill Of Material sessions is enhanced with vertical lines.

Keyboard support for power users

On the **Preferences** tab on the **User Profile Details (uigwt0102s000)** page, keyboard support for power users can be enabled and disabled. If keyboard support is enabled, the user can use the keyboard to view and select items in drop-down-list boxes, without opening the search pane. See the online help.

Grid and filter menu

In overview sessions, these menus are combined:

- The grid menu, which is used to hide or show the filter row
- The filter menu

These menus are displayed as one grid menu.

Two-digit year numbers

Based on the year in which the date is specified, two-digit year dates are converted into four-digit year dates.

During the conversion, it is assumed that the four-digit year date should be in the next 20 years, or in the preceding 80 years.

Example:

In 2017, you specify these two-digit year numbers:

- 37 - This is converted to 2037.
- 38 - This is converted to 1938.

For UTC fields the server only accepts years from 1970.

Chapter 7: LN UI 12.0.3

This section describes the differences between LN UI 12.0.3 (Xi) and the previous version LN UI 12.0.2 (Xi).

This version offers improved usability and a different visual style compared to previous LN UI 11.3.x versions. It is functionally equivalent to LN UI 11.3.3.

Deployment changes

Timeout of the browser connection with the UI server

A timeout of three minutes is used for the browser connection with the UI server. The timeout occurs in these situations:

- The browser has become unresponsive.
- A network outage.

Resources on the UI server, such as bshell connection, and resources on the LN server, such as license, are released. The timeout duration is equal for all end user's browser types. If a user is idle, the browser sends a 'ping' message every minute, to ensure that the connection with the UI server remains active.

WebSphere application server network deployment

LN UI is supported on IBM WebSphere Application Server Network Deployment 8.5.5.x.

Synchronizer support of Microsoft Exchange Online

The Exchange Synchronizer for CRM contacts and calendar events supports Microsoft Exchange Online, standalone or as part of a Microsoft Office 365 business plan.

Note: Push synchronization is supported if the LN UI endpoint URL is exposed to the internet. For details, see the *Infor LN UI Administration Guide*.

HTTP Strict Transport Security (HSTS)

Support of HTTP Strict Transport Security (HSTS) depends on the type of web server. For details, see Infor Xtreme KB 1893718.

Chapter 8: LN UI 12.0.2

This section describes the differences between LN UI 12.0.2 (Xi) and the previous version LN UI 12.0.1 (Xi).

This version offers improved usability and a different visual style compared to previous LN UI 11.3.x versions. It is functionally equivalent to LN UI 11.3.2.

Deployment changes

Help on docs.infor.com

Online help of LN application and Tools sessions can now be served from the public internet site at <https://docs.infor.com/>.

By default, the online help is served from archives that are uploaded to the LN UI server. Use the LN UI Administration Webapp to change this behavior.

Chapter 9: LN UI 12.0.1

This section describes LN UI 12.0.1 (Xi). This version offers improved usability and a different visual style compared to previous LN UI versions. It is functionally equivalent to LN UI 11.3.1.

Deployment changes

Starting LN UI with a DEM process

The URL through which LN UI is started is extended with specific parameters to start the DEM Process Viewer for a specific DEM process model. For details, see the *Infor LN UI Administration Guide*.

Synchronization of LN UI configuration data

If two or more LN UI instances use a shared file system to access the LN UI configuration data, any change to the configuration data is automatically synchronized among all LN UI instances. This ensures that the configuration change is applied to the instances without the need to restart LN UI.

Browser integration with external applications

The browser integration between LN sessions and external applications is enhanced. The external application can now signal back to LN that the external application must be closed. In addition, the external application can pass back information to LN.

For details, see the description of the `open.url.local()` 3GL function in the *Infor ES Programmer's Guide*.

This feature requires Enterprise Server version 10.5.1 or later.

Usability improvements

Side navigation

The session navigation has been moved from the top to the left side of the page. The navigation is now displayed in a tree instead of a normal fold-out menu. To expand and collapse the navigation tree, click the menu icon in the top-left corner.

Toolbar changes

The toolbar of 4GL sessions is changed as follows:

- **Create Favorite** command: If LN UI is running stand-alone, the toolbar of a 4GL overview session contains a **Create Favorite** command. The command creates a favorite item that you can access from the LN UI home page.
- **Create Bookmark** command: If LN UI is running stand-alone, the toolbar of a 4GL overview session contains a **Create Bookmark** command for the currently selected row. You can access the created bookmark from the LN UI home page.
- **Search, Print, Quick Export** commands: The **Search** toolbar command only shows the search dialog, while options to change the view are present in the **Views** menu. Similarly, the **Print** and the **Quick Export** commands start the default action, while additional options are present in the **Actions** menu.

Enum selection

An enum field supports search, showing all enum values that contain the search text.

Conditional formatting

The user interface to change conditional formatting has been updated.

You can now define multiple conditions for a field within a single format. In previous versions only one condition could be applied.

When applying a background color on a regular field, you can now choose between square and rounded edges.

At the front of a grid row, additional icons are available for selection.

UI skins

To change the appearance of LN, end users can select one of these pre-defined skins:

- Light
- Dark
- High-contrast

Users can select the skin on the **Preferences** tab of the **User Profile Details (uigwt0102s000)** page.

Export of favorites

If LN UI is running stand-alone, individual end users can export the favorites that are displayed on their LN UI home page. Users can start the export through the **Favorites** menu on the **User Profile Details (uigwt0102s000)** page.

Chapter 10: LN UI 11.3.6

This section describes the differences between LN UI 11.3.6 and the previous version LN UI 11.3.5.

Deployment changes

Support of Apache Tomcat 8.5.*

LN UI 11.3.6 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 Microsoft Exchange Server 2016

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

Advance notice of removed JBoss support

In a future version of LN UI 11.3.*, support for the JBoss web server will be removed.

Chapter 11: LN UI 11.3.5

This section describes the differences between LN UI 11.3.5 and the previous version LN UI 11.3.4.

Usability improvements

Keyboard support of the Easy Filter row

The filter row of an overview session provides keyboard support for input fields and field operators. Therefore, you must press **Tab** twice when navigating from one filter input field to the next.

Show subapplications

In the DEM **Process Viewer** you can now get an overview of the subapplications which are linked to an activity of type Application. To view this list, right-click the activity in the **Process Viewer** and select **Subapplications**.

This feature requires Enterprise Server 10.5.2.1 or later.

Chapter 12: LN UI 11.3.4

This section describes the differences between LN UI 11.3.4 and the previous version LN UI 11.3.3.

Deployment changes

Support for SHA-256

If single sign-on using Infor Federation Services from Infor Xi Platform is used, SHA-256 is supported for the relying party trust in AD FS.

Note: If SHA-256 is required, you must re-create the binding of LN UI to IFS. See "Configuring IFS (Platform Xi version)" in the *Infor LN UI Administration Guide*.

Microsoft Internet Explorer 10

Internet Explorer 10 is not supported. Microsoft stopped supporting this browser in January 2016.

Usability improvements

Two-digit year numbers

Based on the year in which the date is specified, two-digit year dates are converted into four-digit year dates.

During the conversion, it is assumed that the four-digit year date should be in the next 20 years, or in the preceding 80 years.

Example:

In 2017, you specify these two-digit year numbers:

- 37 - This is converted to 2037.
- 38 - This is converted to 1938.

For UTC fields the server only accepts years from 1970.

Chapter 13: LN UI 11.3.3

This section describes the differences between LN UI 11.3.3 and the previous version LN UI 11.3.2.

Deployment changes

Timeout of the browser connection with the UI server

A timeout of three minutes is used for the browser connection with the UI server. The timeout occurs in these situations:

- The browser has become unresponsive.
- A network outage.

Resources on the UI server, such as bshell connection, and resources on the LN server, such as license, are released. The timeout duration is equal for all end user's browser types. If a user is idle, the browser sends a 'ping' message every minute, to ensure that the connection with the UI server remains active.

WebSphere application server network deployment

LN UI is supported on IBM WebSphere Application Server Network Deployment 8.5.5.x.

Synchronizer support of Microsoft Exchange Online

The Exchange Synchronizer for CRM contacts and calendar events supports Microsoft Exchange Online, standalone or as part of a Microsoft Office 365 business plan.

Note: Push synchronization is supported if the LN UI endpoint URL is exposed to the internet. For details, see the *Infor LN UI Administration Guide*.

HTTP Strict Transport Security (HSTS)

Support of HTTP Strict Transport Security (HSTS) depends on the type of web server. For details, see Infor Xtreme KB 1893718.

Chapter 14: LN UI 11.3.2

This section describes the differences between LN UI 11.3.2 and the previous version LN UI 11.3.1.

Deployment changes

Help on docs.infor.com

Online help of LN application and Tools sessions can now be served from the public internet site at <https://docs.infor.com/>.

By default, the online help is served from archives that are uploaded to the LN UI server. Use the LN UI Administration Webapp to change this behavior.

Chapter 15: LN UI 11.3.1

This section describes the differences between LN UI 11.3.1 and the previous version LN UI 11.3.

Deployment changes

Starting LN UI with a DEM process

The URL through which LN UI is started is extended with specific parameters to start the DEM Process Viewer for a specific DEM process model. For details, see the *Infor LN UI Administration Guide*.

Synchronization of LN UI configuration data

If two or more LN UI instances use a shared file system to access the LN UI configuration data, any change to the configuration data is automatically synchronized among all LN UI instances. This ensures that the configuration change is applied to the instances without the need to restart LN UI.

Browser integration with external applications

The browser integration between LN sessions and external applications is enhanced. The external application can now signal back to LN that the external application must be closed. In addition, the external application can pass back information to LN.

For details, see the description of the `open.url.local()` 3GL function in the *Infor ES Programmer's Guide*.

This feature requires Enterprise Server version 10.5.1 or later.

Usability improvements

Toolbar changes

The toolbar of 4GL sessions is changed as described below. This requires the installation of Enterprise Server 10.5.

- **Create Favorite** command: If LN UI is running stand-alone, the toolbar of a 4GL overview session contains a **Create Favorite** command. The command creates a favorite item that you can access from the LN UI home page.
- **Create Bookmark** command: If LN UI is running stand-alone, the toolbar of a 4GL overview session contains a **Create Bookmark** command for the currently selected row. You can access the created bookmark from the LN UI home page.

Conditional formatting

The user interface to change conditional formatting has been updated. This requires the installation of Enterprise Server 10.5.

You can now define multiple conditions for a field within a single format. In previous versions only one condition could be applied.

When applying a background color on a regular field, you can now choose between square and rounded edges.

At the front of a grid row, additional icons are available for selection.

Export of favorites

If LN UI is running stand-alone, individual end users can export the favorites that are displayed on their LN UI home page. Users can start the export through the **Favorites** menu on the **User Profile Details (uigwt0102s000)** page.

Chapter 16: LN UI 11.3

This section describes the differences between LN UI 11.3 and the previous version LN UI 11.2.4.

Deployment changes

Infor Xi Platform 12.0.2

This version of LN UI supports Infor Xi Platform 12.0 Service Pack 2 and later.

Java version support

LN UI is no longer supported for Oracle Java SE 7 because of Oracle's End of Public Updates announcement. An up-to-date Oracle Java SE 8 JRE is bundled with the Enterprise Server Installer.

PDF preview with barcodes

PDF preview supports barcode display. These barcode types are supported:

- BAR39
- BAR39EXT
- CODE93
- CODE11
- CODABAR
- CODE93EXT
- CODE128
- EAN13
- EAN8
- EAN128
- INTERLEAVED25
- POSTNET
- UPCA
- UPCE
- PDF417
- QRCODE
- DATAMATRIX

- AZTECCODE

This functionality requires the installation of Porting Set 9.0c.01 or later and the PMC solution for Enterprise Server 10.4.2.

Trace mode enabled for all users

The LN UI administrator may enable the automatic activation of the trace mode for all users that sign in to the system. This allows troubleshooting using the messages that are exchanged with the LN server during the sign-in phase.

Improved log file handling

The log file for LN UI troubleshooting has been renamed to `lnui-all.log`. The log file for troubleshooting the MS Exchange Synchronizer has been renamed to `lnui-synchronizer.log`.

Now also a new log file with security related events, `lnui-security.log`, is generated.

The two log files for troubleshooting roll over to a new file at midnight every day. The security log rolls over to a new file at the beginning of the month. When the roll-over occurs, the existing file is renamed to include a date indication.

If LN UI runs on the Tomcat web server, the log files are stored in the `logs` sub-directory of the Tomcat installation directory. If the JBoss web server is used, the log files are stored in the `standalone/log` sub-directory of the JBoss installation directory.

For other web servers, the log files are stored in the JRE's temporary directory. This directory is determined by the `java.io.tmpdir` Java system property.

Usability improvements

Form personalization workbench

The **Personalize Form** modal dialog is replaced by a workbench. The workbench offers a 'what you see is what you get' view of new and changed form personalizations.

This functionality requires the installation of Enterprise Server 10.5 and the deployment of the **Personalization (ttstppers)** workbench.

Improved LN session navigation

Each LN session tab now has a shortcut menu to close the current session, other sessions, sessions to the right, or all sessions.

Classic color scheme

The user profile supports the selection of a classic skin as an alternative to the existing default color scheme. The classic skin has a gray background and white input fields. You can select the skin on the **Appearance** tab of the **User Profile Details (uigwt0102s000)** page.

Improved color picker

The color picker control offers an improved selection from the available grades of saturation for the standard palette colors.

Importing Worktop shortcuts

When using LN UI stand-alone mode, individual end users can import LN session and DEM process shortcuts from Worktop. Imported shortcuts are displayed in the **Favorites** panel. Users can start the import from the **User Profile Details (uigwt0102s000)** page. See the **Options > Settings** menu. For details, see the online help of the **User Profile Details (uigwt0102s000)** page.

Selecting a URL from a DEM process

If you select a URL while viewing a DEM process, a new browser tab is opened automatically. You do not have to use **Ctrl+Click** to open a new tab.

Chapter 17: LN UI 11.2.4

This section describes the differences between LN UI 11.2.4 and the previous version LN UI 11.2.3.

Deployment changes

The Microsoft Edge browser is supported.

The Microsoft Exchange Synchronizer for CRM contacts and calendar events supports Microsoft Exchange Server 2013 with a single Client Access server and a single Mailbox Server.

You can use the **DEM Parameters (tgbrg0135s000)** session to set the **Show Only Main Processes** and **Show Excluded Sub Business Processes** options on the LN server. These options remain present on the **DEM settings** tab in the **User Profile Details (uigwt0102s000)** page. The option values from the user profile take precedence over the values saved on the LN server. This functionality is only available if solution 1652175 is installed on the LN server.

Usability improvements

In LN overview sessions you can copy one or more rows to the system clipboard: select the rows, right-click and select **Actions > Copy to Clipboard**. Use this functionality to copy a moderate number of rows. If large amounts of row data are required, use the Export to Excel functionality. Because of browser limitations, the **Copy to Clipboard** command is not supported for the Safari browser. This functionality requires the installation of the PMC solution for Tools 10.4.2.

Chapter 18: LN UI 11.2.3

This section describes the differences between LN UI 11.2.3 and the previous version LN UI 11.2.2.

Deployment changes

The HTTPS keystore that is created using the LN UI Administration Webapp uses a SHA-2 (SHA256withRSA) signature and a 2048 bits RSA key for the SSL certificate's keypair. The less secure SHA-1 signature algorithm is not used anymore.

The Oracle WebLogic Server 12c (12.1.x) is supported. For installation instructions, see the *Infor LN UI Administration Guide*. If this web server is used, the following LN UI functionality is not supported:

- Single Sign On using Infor Federation Services
- Microsoft Exchange Synchronizer for CRM contacts and calendar events

Usability improvements

When using LN UI stand-alone mode, individual end users can import LN session and DEM process shortcuts from a Web UI stand-alone installation. Imported shortcuts are displayed in the **Favorites** panel. Users can start the import from the **User Profile Details (uigwt0102s000)** page. See the **Options > Settings** menu. For details, see the online help of the **User Profile Details (uigwt0102s000)** page.

When using LN UI stand-alone mode, end users can sign out. To sign out, a user must click the user name in the upper-right corner of the landing page and select **Sign Out**. The sign-out action closes the connection with the LN server.

Chapter 19: LN UI 11.2.2

This section describes the differences between LN UI 11.2.2 and the previous version LN UI 11.2.1.

Deployment changes

The LN UI server requires the Java 8 or Java 7 runtime.

The ODM paperclip option has been removed from the toolbar. The paperclip option is replaced by the **Attached Files** web part.

In the **User Profile Details (uigwt0102s000)** page, you can now set these options:

- **Show Excluded Sub Business Processes**
In previous versions this option was always on.
- **Show Only Main Processes**
In previous versions this option was always off.

Usability improvements

LN UI supports high contrast modes. Users can activate a high contrast mode in the **User Profile Details (uigwt0102s000)** page.

Roles have been expanded with a specific start menu. When you switch between roles, another start menu is loaded. This functionality is only available if Tools solution 1625771 or later is installed on the LN server.

The LN administrator can configure colors for constants of enumeration domains. In sessions where an enumeration is displayed, the constants are displayed in the corresponding colors. You can no longer switch off the enumeration formatting of a field through personalization. In previous versions, you could personalize the icon enumeration formatting, so that the constant was displayed by the description again. An icon that is configured for a constant of an enumeration domain is now also displayed in a details session. In previous versions, the configured icons were only used if the enumeration field was used in the grid. The new functionality is only available if Tools solution 1625771 or later is installed on the LN server.

Chapter 20: LN UI 11.2.1

This section describes the differences between LN UI 11.2.1 and the previous version LN UI 11.2.0.

Deployment changes

LN UI provides a stand-alone mode offering a home page with favorites, bookmarks, and a list of recently used sessions. The stand-alone mode does not require Infor Ming.le™ and the Infor Ming.le-LN Plug-in. For details, see the *Infor LN UI Administration Guide*.

Usability improvements

If the screen width is insufficient to show all open session tabs, you can click **More** to show a list of all open sessions. You can also use the left and right arrow keys to navigate through the open session tabs.

If the screen width is insufficient to show all toolbar icons, you can access any hidden toolbar item through the overflow button.

In the session toolbar, colored icons of application-specific commands are displayed 'as is'; icon colors are not suppressed anymore.

The date picker dialog box shows the week number.

In previous releases, you could start the **Text Editor** through a menu option. Now you can start the **Text Editor** through an icon in the session toolbar. This functionality is only available if Tools solution 1604255 or later is installed on the LN server.

You can now personalize the LN navigation menus that are displayed in the application navigation menu bar and the **LN Navigator**. This functionality is only available if Tools solution 1604255 or later is installed on the LN server.

LN users can be linked to roles. A role contains personalization settings, such as session personalizations and menu personalizations, for a specific group of users. If multiple roles are assigned to your user account, you can use the **Options > Change Role** command to switch between these roles. This functionality is only available if Tools solution 1604255 or later is installed on the LN server.

Chapter 21: Differences between Web UI and LN UI

This chapter describes how LN UI differs from Web UI.

This table shows the sections in this chapter:

Section	Description
Deployment differences	Describes the differences with respect to deployment and administration.
End user differences	Describes the differences which are relevant for end users.

Deployment differences

This list shows important deployment differences:

- LN UI does not require any client side java plugin. An HTML5-capable browser is sufficient. For supported browsers, see the *Infor LN UI Administration Guide*.
- LN UI is supported on a wider range of client operating systems. For supported client operating systems, see the *Infor LN UI Administration Guide*.
- LN UI only supports Infor LN. For detailed information on the compatibility of LN UI with LN Tools and application versions, see Infor Xtreme KB 1460896 or 1834377. Baan IV, Baan 5, and older LN versions are not supported.
- LN UI does not support Fujitsu Workflow.
- LN UI does not support old style Web UI homepages.
- LN UI only supports report preview (print to display) in PDF format, not in HTML format.
- LN UI does not support integration with LN Report Viewer.
- LN UI does not support Java Web Start mode.
- LN UI does not support local printing (printers connected to the client) through BWPRINT. Local printing is only supported through the browser PDF viewer plugin. Bar code printing using BWPRINT is possible using a Windows Server Printer device. See "Windows Server Printer" in the "Device Management" chapter in the *Infor Enterprise Server - Administration Guide*.
- These installation modes are supported for LN UI:
 - A fresh installation. This requires a Tomcat instance which cannot be shared with an existing Web UI installation. After a fresh installation of LN UI, the administrator cannot import configuration settings from an existing Web UI installation.

- An upgrade installation from an existing Web UI installation. This installation replaces the existing Web UI product. After an upgrade installation, the administrator can import Web UI configuration items from the previous Web UI installation. For details, see the *Infor LN UI Administration Guide*.
- LN UI supports these authentication methods:
 - Single Sign On based on Integrated Windows Authentication (IWA). This authentication mode is only available when the LN UI Web server is deployed on a Windows OS.
 - Single Sign On based on IFS/ADFS authentication.
 - Authentication at the LN server ('backend authentication')
- LN UI cannot start client side applications (such as Notepad or MS Word) from an LN session.
- LN UI does not support Infor LN Office Integration.
- LN UI does not support the ECM Infor LN document integration package.
- LN UI does not support document management based on Microsoft SharePoint.
- LN UI does not support Silverlight-based Workbench sessions when using Chrome or the Safari browser.
- LN UI help does not work in Infor LN BW and Infor LN Worktop. For details, see Infor Xtreme KB 1499582.
- Online help information is stored on the Web server where LN UI is installed, not on the Infor Ming.le server. In case of Web UI, online help information is stored on the Infor Ming.le server. For details on how to install help packages for LN UI, see the *Infor LN UI Administration Guide*.
- Because online help is stored on the LN UI web server, the administrator must change the configuration for the documentation context application in Infor Ming.le. For details, see the *Infor LN UI Administration Guide*.
- In LN UI, online help consists of static HTML pages. Therefore you cannot customize the online help.

End user differences

This list shows important differences which are visible to end users:

- If the Infor Ming.le-LN Plug-in is used, LN UI users cannot select a user profile during LN UI startup. Users can change the default user profile and the user profile settings through the **Options > Settings** menu option.
- Floating sessions start differently compared to Web UI. When a floating session is started in LN UI, a new browser window is opened. By default, most browsers do not allow a new browser popup. To enable this feature, the user must explicitly configure the browser to always allow browser popup windows for the web site that hosts LN UI.

You cannot start a floating session from a floating session. If a new session is started from a floating session, this new session is always opened in the same browser window as the original session, even if you hold down the **Ctrl** key.

- LN UI follows the zoom level settings of the browser. This setting was ignored by Web UI.
- When transferring files from the server to the client, or from the client to the server, the UI behavior differs compared to the Web UI. In LN UI the user must always explicitly acknowledge the client file access operations. This is caused by an HTML5 security restriction. An example of such an operation is the export to spreadsheet feature, which is available in most Infor LN sessions.

- LN print sessions do not show a list of locally installed printers on the **Device** Tab. This is caused by an HTML5 security restriction, which does not allow direct access to client side printers.
- The format of date, time, and numbers does not follow the client operating system settings, like in Web UI. If the language is one of the supported languages, these formats are directly related to the language and regional settings selected in the browser. If the Infor Ming.le-LN Plug-in is used, see the *Infor LN UI Infor Ming.le-LN Plug-in User Guide* for more information.
- Keyboard shortcuts for frequently used commands differ from the shortcuts used in Web UI and Worktop. In addition, LN UI remaps the keyboard shortcuts for 4GL form commands. This is because many existing shortcuts conflict with shortcuts used by browser(s) and platform. For details about keyboard shortcuts in LN UI, see "Keyboard shortcuts" in the *Infor LN UI Infor Ming.le-LN Plug-in User Guide*.
- LN UI does not support automatic hyperlink recognition in multi-line text fields and the text editor session.
- In the text editor session, LN UI does not support the **Import file** and **Export file** commands. This is caused by an HTML5 security restriction.
- When the application shows a non-interrupting message window, either because non-interrupting message mode is enabled or because the application autonomously generates a non-interrupting message, this message window does not popup automatically in LN UI. Instead, a flashing icon is displayed in the status bar. The user must click this icon to show the non-interrupting message window.
- In LN UI, the **General Table Maintenance (ttaad4100)** and **Display General Table Information (ttaad4500)** sessions look and behave like normal sessions. In Web UI, these sessions look like old style character mode sessions.
- LN UI does not support sending e-mails through a client side Outlook client or other e-mail client.
- In LN UI, the **Select Activity** top-level options menu item has been renamed to **Debug and Profile 4GL**.
- This table shows menu items which are **not** present in the LN UI top-level options menu:

Menu item	Remark
Cache Menu	No caching of menu items in LN UI.
Refresh Menu	No cache to be refreshed in LN UI.
Show Mandatory Indication	In LN UI this option is always on.
Auto Complete Settings	In LN UI this option is always on. The maximum number of entries is fixed to 7.
Show Excluded Business Processes	In LN UI you can set this option in the User Profile Details (uigwt0102s000) page.
Show Only Main Processes	In LN UI you can set this option in the User Profile Details (uigwt0102s000) page.

- On any field of a details session in LN UI, the **Hide field** and **Field Help** options are displayed when the user right-clicks the mouse while holding the **Alt** key, or the **Ctrl** key, pressed.
- LN UI does not support `file://` URLs in the `open.url.local` 4GL function. Also, not all browsers support a hyperlink that is created from a Uniform Naming Convention (UNC) path such as `\\server\folder\resource`. This is caused by security restrictions: modern browsers prohibit local file access if the top-level window is fetched with `http://` or `https://`.

- LN UI only supports server dates. Clearing the **Server Date** check box in the **Maintain Parameters (ttaad0100m000)** session does not result in client dates.

DEM

This list shows the differences between the DEM Process Viewer in LN UI and the Process Viewer in Web UI:

- A button was added to the toolbar to toggle the visibility of the icons between 'always visible' or 'visible on hover'. This is also reflected when printing the model.
- The icons are somewhat changed and positioned differently.
- Clicking an icon opens the most obvious action on the corresponding activity.
- In Web UI, if an activity contains a sub process, a drop-shadow is displayed around the activity. In LN UI this shadow is replaced by a zoom (play) button on the right side of the activity.
- Every (sub) process is opened in its own LN UI window. Therefore the browse buttons (left and right pointing play buttons) are removed from the toolbar.
- Manual and no-permission activities have an indicator that is always visible.
- The color that is given to annotations in the Process Modeler is now also displayed in the Process Viewer.
- More consistent feedback from the User Interface. For example, the cursor changes to show which elements are clickable and which are not.

This list shows the differences between the DEM functionality in LN UI and the DEM functionality in Web UI:

- External applications cannot be started. This is caused by an HTML5 security restriction.
- A URL to open an Internet/Intranet site is supported in LN UI. A URL that refers to a UNC or another file based path is not supported.
- An alert is displayed if the DEM Process Viewer tries to open an invalid location. As a workaround, open the Windows **Run Program** dialog and copy the content of the alert to this dialog. Then click **OK** to start the external application or open the external document.

Gantt chart

This list shows the differences between the Gantt chart functionality in LN UI and the Gantt chart functionality in Web UI:

- LN UI goes to seconds resolution instead of minutes.
- LN UI supports (**Ctrl** or **Shift**)+Mouse Wheel to zoom within the Gantt chart. **Ctrl**+Mouse Wheel does not work in Chrome.
- LN UI zooms in and out around the mouse cursor position. Web UI zooms about the center of the chart.
- LN UI does not have a horizontal scroll bar to pan the Gantt chart. Instead, you can drag the time bar, or zoom out and zoom in.
- LN UI does not support reordering (moving) of the property columns.

- LN UI implements different keyboard navigation in the left-hand tree:
 - The Right Arrow and Left Arrow buttons open and close nodes. In Web UI these keys move the 'focus' to different columns.
 - Pressing **Enter** does not move the selection to the next item, as it does in Web UI.

ODM

When there is a file transfer between a client computer and an LN server, the process to upload and view the file in an LN UI environment varies from the process of the Web UI environment. See "Object Data Management (ODM) - Difference between environments" in the LN help.