



# Infor LN UI Difference Study

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# Contents

<b>About this document.....</b>	<b>5</b>
Contacting Infor.....	5
<b>Chapter 1: LN UI 12.0.1.....</b>	<b>7</b>
Deployment changes.....	7
Usability improvements.....	8
<b>Chapter 2: LN UI 11.3.1.....</b>	<b>11</b>
Deployment changes.....	11
Usability improvements.....	12
<b>Chapter 3: LN UI 11.3.....</b>	<b>13</b>
Deployment changes.....	13
Usability improvements.....	14
<b>Chapter 4: LN UI 11.2.4.....</b>	<b>17</b>
Deployment changes.....	17
Usability improvements.....	17
<b>Chapter 5: LN UI 11.2.3.....</b>	<b>19</b>
Deployment changes.....	19
Usability improvements.....	19
<b>Chapter 6: LN UI 11.2.2.....</b>	<b>21</b>
Deployment changes.....	21
Usability improvements.....	21
<b>Chapter 7: LN UI 11.2.1.....</b>	<b>23</b>
Deployment changes.....	23
Usability improvements.....	23
<b>Chapter 8: Differences between Web UI and LN UI.....</b>	<b>25</b>
Deployment differences.....	25
End user differences.....	26
DEM.....	28
Gantt chart.....	29
ODM.....	29



# 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

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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.



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.

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
- QR CODE
- DATAMATRIX
- AZTECCODE

This functionality requires the installation of Porting Set 9.0c.01 or higher 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.





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.



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.



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.

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.



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 LN UI is used in stand-alone mode, these formats are directly related to the current browser locale. If the Infor Ming.le-LN Plug-in is used, these formats are directly related to the currently selected locale in Infor Ming.le. See the *Infor LN UI Infor Ming.le-LN Plug-in User Guide*.
- 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.
- When the LN server generates a system message while the user is already signed in, the system 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 system 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.

Menu item	Remark
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. 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.

