

# OraFormsFaces™

Release Notes v2.3.2

COMMIT CONSULTING

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Authored by: Wilfred van der Deijl

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*Consulting*

## OraFormsFaces Release Notes

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Primary Author: Wilfred van der Deijl

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## Compatibility

### Oracle Forms Compatibility

This matrix shows Oracle Forms versions that are compatible with OraFormsFaces versions.

	OraFormsFaces 2.3	OraFormsFaces 2.2	OraFormsFaces 2.1
Oracle Forms 6i (6.0.8.x)	If Needed <sup>note 1</sup>	No	No
Oracle Forms 9i (9.0.2.x)	If Needed <sup>note 1</sup>	No	No
Oracle Forms 10gR1 (9.0.4.x)	Yes <sup>note 2</sup>	Yes <sup>note 2,5</sup>	No
Oracle Forms 10gR2 (10.1.2.x)	Yes <sup>note 6</sup>	Yes <sup>note 6</sup>	Yes <sup>note 3</sup>
Oracle Forms 11 BETA (11.x)	Preliminary <sup>note 4</sup>	No	No

**Note:** Information in this matrix might undergo changes and you should always cross check this information with the latest information at <http://www.commit-consulting.com/oraformsfaces/>. Note that the release notes of a specific version can be updated after releasing that version.

#### Notes:

1. If support for this Forms version is needed it can most likely be added. OraFormsFaces does not ship with version 6i or 9i FMB, OLB, and PLL files but it is likely OraFormsFaces would just work if these files are back ported to this Forms version. Support for this Forms version could be added to OraFormsFaces upon customer request, but also see note 2.
2. Oracle has desupported this version of Oracle Forms. We strongly advise you to use a supported version of Oracle Forms and install the latest patch sets. If you do decide to use a desupported version of Oracle Forms, be sure to use the latest patch set to minimize the chances of running into Forms bugs.
3. Do not install Forms/Application Server patch set 10.1.2.3.x when using an OraFormsFaces version prior to 2.2. Oracle changed a Java interface in this patch set which required a change in OraFormsFaces and many other Pluggable Java Components.
4. Commit Consulting is intensively involved in Oracle Forms version 11 beta testing. As a result preliminary support for Forms 11 is added to OraFormsFaces. Changes in the final version of Oracle Forms 11 might require additional changes to OraFormsFaces.
5. An incompatibility between OraFormsFaces version 2.2 and Oracle Forms Server 9.0.4 has been found that can result in Oracle Forms not adhering to the FORMS\_PATH and WorkingDirectory as set in the OraFormsFaces section of the formsweb.cfg configuration file. Instead, Oracle Forms will use the FORMS\_PATH and WorkingDirectory as set in the default section of the formsweb.cfg file. Keep this in mind when putting FMX and other files on the Forms server. This issue does not occur when using later versions of OraFormsFaces and/or Oracle Forms.
6. You are advised to install the latest [patchset 10.1.2.3.0](#) and install [patch 7351564](#) (or any newer patch that includes 7351564) on top of that, since this fixes a number of focus related issues in Oracle Forms. These patches can be applied both on an Oracle Application Server and an Oracle Developer Suite installation.

## Client Platform Support

The matrix below shows the client operating systems and web browsers that can be used with OraFormsFaces. Be sure to check if the used operating system and web browser is also supported by Oracle to run Oracle Forms. You can get this information from the Oracle Client Platform Support statements at <http://www.oracle.com/technology/products/forms/>

Client Operating System	Browser	Supported
Windows XP, Windows 2003, Windows 2000	Internet Explorer 6.0, Internet Explorer 7.0, Firefox 2.0, Firefox 3.0	Yes
Windows Vista	Internet Explorer 7.0, Firefox 2.0, Firefox 3.0	Yes
Apple Mac OS X		Probably <sup>note 1</sup>
Linux	Firefox 2.0, Firefox 3.0	Yes

### Notes:

1. OraFormsFaces is not tested with Apple Max OS X. However it is very likely that an application using OraFormsFaces will run on Apple Mac OS X as long as the configuration is capable of running Oracle Forms.

The matrix below shows which Java Runtime Environment can be used on the client with OraFormsFaces and thus Oracle Forms. Be sure to check if the used JRE is also supported by Oracle to run Oracle Forms. You can get this information from the Oracle Client Platform Support statements at <http://www.oracle.com/technology/products/forms/>

Client Java Runtime Environment	Supported
Oracle JInitiator	No <sup>note 1</sup>
Sun JRE 1.4.2_06 or above	Yes <sup>note 2</sup>
Sun JRE 1.5.0_06 or above (but no later than 1.5.0_13)	Yes <sup>note 2,3</sup>
Sun JRE 1.6.0_04 or above	Yes

### Notes:

1. OraFormsFaces uses a JRE feature called Legacy Lifecycle to only start the Oracle Forms applet once and re-use it on all pages. This is a feature that was introduced in Sun JRE 1.4.2 and which is not available in Oracle JInitiator. Without this feature OraFormsFaces could probably gotten to work but it would start a fresh Oracle Forms applet on each page.
2. Sun has marked this Java release family as end-of-life (EOL). We strongly advise you to use the latest supported version of Sun JRE. If you do decide to use an EOL version of Sun JRE, at least be sure to use the latest patch release to minimize the chances of running into bugs and security issues.
3. A bug was introduced in Sun JRE 1.5.0\_14 which makes applets fail to execute JavaScript when the applet is configured to be reused on subsequent web pages. OraFormsFaces relies on these two technologies and hence cannot run with Sun JRE 1.5.0\_14 and above until Sun fixes this bug. Please note that Sun JRE 1.4.2 and 1.6.0 do not seem to suffer from this issue.

## Java Development Tools Support

This matrix shows which development tools can be used with OraFormsFaces to build JSF applications that use the OraFormsFaces components.

	OraFormsFaces 2.3	OraFormsFaces 2.2	OraFormsFaces 2.1
Oracle JDeveloper 10.1.2.x	No <sup>note 1</sup>	No <sup>note 1</sup>	No <sup>note 1</sup>
Oracle JDeveloper 10.1.3.x	Yes	Yes	Yes
Oracle JDeveloper 11.x	Preliminary <sup>note 2,3,5</sup>	Preliminary <sup>note 2,3,5</sup>	Not Tested
Other IDEs	Probably <sup>note 4</sup>	Probably <sup>note 4</sup>	Probably <sup>note 4</sup>

**Note:** Information in this matrix might undergo changes and you should always cross check this information with the latest information at <http://www.commit-consulting.com/oraformsfaces/>. Note that the release notes of a specific version can be updated after releasing that version.

### Notes:

1. OraFormsFaces uses the open standard JavaServer Faces technology. Oracle JDeveloper 10.1.2.x does not support JSF development but uses its predecessor Oracle UIX.
2. Due to [issue FS#90](#) it is not yet possible to use OraFormsFaces in an ADF container that is added to the page using partial-page-rendering.
3. Currently, when using ADF Data Controls, you cannot drag attributes and methods from a data control and drop them as an OraFormsFaces component onto your page automatically creating the necessary bindings. You can still drag-and-drop the OraFormsFaces components from your component palette and bind them manually. We are looking into fixing this issue in a future OraFormsFaces version.
4. Oracle JDeveloper is our primary development platform, since it is the most likely choice for OraFormsFaces and Oracle Forms users. Nonetheless, OraFormsFaces adheres to the industry JSF standard which means you should be able to use any JSF compliant Java development environment with OraFormsFaces. If you do encounter issues, please report them so we can see if they can be fixed.
5. Some ADF 11 popup elements like dialog boxes and pull down menu's will be rendered behind the OraFormsFaces applet and not on top of it. This is Oracle ADF bug 7608635. We have created a workaround for as long as Oracle hasn't fixed this bug. See OraFormsFaces [issue FS#89](#) for a more detailed description and workaround.

## Oracle JHeadstart Support

OraFormsFaces and Oracle JHeadstart can be used together to build hybrid applications. Oracle JHeadstart can be used to model and generate JSF applications and can generate pages that use OraFormsFaces components to include Oracle Forms. The matrix below shows which versions of JHeadstart are compatible with which versions of OraFormsFaces.

	OraFormsFaces 2.3	OraFormsFaces 2.2	OraFormsFaces 2.1
Oracle JHeadstart 10.1.3.3.81	Yes <sup>note 1</sup>	Yes <sup>note 2</sup>	Yes <sup>note 2</sup>
Oracle JDeveloper 10.1.3.2.x	Manual <sup>note 3</sup>	Manual <sup>note 3</sup>	Manual <sup>note 3</sup>

### Notes:

1. This version of JHeadstart ships with the appropriate templates for using this version of OraFormsFaces.
2. You'll need to replace the OraFormsFaces template file that ships with JHeadstart with a template file appropriate for this version of OraFormsFaces. Most developers should be able to accomplish this themselves or they can contact us for an updated template file.
3. This could be made to work by changing some of the metadata files of JHeadstart. Newer versions of JHeadstart come with OraFormsFaces support out-of-the-box, but this can be added to previous versions as well without changes to binary JHeadstart files.

## What is new...

### What is new in version 2.3.2

Below are the fixed bugs of OraFormsFaces version 2.3.2 which was released in February 2009 as a bugfix release.

#### Fixed Bugs

- [FS#91](#) – Timed out ADF 11 session gives NullPointerException

### What is new in version 2.3.1

Below are the fixed bugs of OraFormsFaces version 2.3.1 which was released in October 2008 as a bugfix release.

#### Fixed Bugs

- [FS#83](#) – java.lang.NoSuchMethodError:  
com.commit\_consulting.oraformsfaces.extension.FormsApplet.getJDKVersion

### What is new in version 2.3

Below are the fixed bugs and new features of OraFormsFaces version 2.3 which was released in September 2008.

#### New Auto-Sizing and Auto-Clipping Features

In previous OraFormsFaces versions the page developer had to specify the width and height of the Forms applet. If you wanted to clip parts of the Forms applet (like the menu, toolbar, status bar, or others) you would have to specify the amount of clipping in pixels as well. It could be a tedious task to find the correct values for these properties.

Version 2.3 of OraFormsFaces adds a new Auto-Sizing feature that no longer requires the page developer to set the width and height. Instead, the Forms applet will see how large the actual Oracle Forms window is and will adjust the applet size to it at runtime.

A similar feature has been introduced for clipping, where you can specify if you want to clip the menu, toolbar, status bar, window-title, or any combination. The OraFormsFaces applet will figure out the required number of pixels to clip and will do this automatically.

#### Added Loading Splash

When the Forms applet is starting up, the display could change or flicker a number of times. This could be distracting to the user and didn't look very professional. With the new auto-sizing and auto-clipping features this got even worse as the applet would resize and shift at runtime.

So, with this new version of OraFormsFaces the applet is covered with a white area and an animated image while the applet is starting up. Once the startup has completed, the animated image is removed and the final applet shows. This looks much more professional. OraFormsFaces ships with a number of predefined animated images, but you can also specify your own custom image.

#### Added preliminary support for Oracle Forms 11

Commit Consulting is closely involved in Oracle Forms 11 beta testing. As a result, OraFormsFaces has already been prepared for the new version of Oracle Forms. Forms 11 will have a native JavaScript API, something that older versions of Forms lack. OraFormsFaces has been adopted to use the Forms native JavaScript API in version 11 and continue to use the OraFormsFaces JavaScript API in previous Oracle Forms versions. This ensures a smooth transition from Oracle Forms 10g to Oracle Forms 11g.

## Better Detection of Misconfigured or Unavailable Forms Server

OraFormsFaces now has better detection of a misconfigured or unavailable Forms server. The Forms Servlet URL has to be specified in the web application configuration and the Forms server also has to be configured for OraFormsFaces. This is error prone and configuration errors typically only resulted in an icon indicating a JavaScript error. That is not very informative or clear to an end user. The new version of OraFormsFaces detects if the Forms server cannot be reached but it also detects if the Forms server can be reached but is not configured properly to return the OraFormsFaces JavaScript. In both cases an alert dialog box will be shown to the user including the URL that should return a valid JavaScript. This way it is at least clear that the Forms startup failed and it is easy to check the URL in a browser to see why the request is failing or not returning a JavaScript.

## Enhanced Development Controls

Previous versions of OraFormsFaces already featured Development Controls, but they have been greatly enhanced in this version. It is now possible to change all properties one can set at design time. Since you are changing the properties at runtime in an actual web browser, you instantly see the result. Once you are satisfied you can go to the design time in JDeveloper and set the component properties accordingly. This can save numerous roundtrips of changing the JSP page, running, and changing it again.

## Check for Incompatible Sun JRE Versions

A bug exists in Sun JRE 1.5.0\_14 and above that prevents an applet from executing JavaScript once that applet is being re-used on a subsequent page. This is exactly what OraFormsFaces relies on. Fixing a bug in Sun JRE is beyond our control, but this version of OraFormsFaces at least checks if you are using an incompatible version and will show an appropriate error. Previous version would just fail with unexplained error messages.

## Improved Internet Explorer Stability

The integration between Microsoft Internet Explorer and Sun JRE is very fragile. A very large number of bugs, fixes, and workarounds exist. One of the issues OraFormsFaces users could run into was a freezing/hanging Internet Explorer when the Oracle Forms applet was first started in a session. The likelihood of this occurring has been drastically reduced by slightly delaying the applet startup until Internet Explorer has had a chance to render the rest of the page. The number of milliseconds for this delay is configurable as specific environments might benefit from higher/lower values. We hope the default value as used by OraFormsFaces will prove to be sufficient for most environments.

## Increased Client Performance

A number of changes have been made to increase client side performance. The required JavaScript and CSS files have been drastically reduced in size. These files are now cached in the web browser client so they don't get requested again for each and every page as was the case in previous OraFormsFaces versions.

## Moved Context Parameters to Environment Entries

In the past, the OraFormsFaces license key and Oracle Forms servlet URL had to be specified as context parameters in the web.xml file of your JSF project. With this new version, OraFormsFaces will try to retrieve these settings from Environment Entries first. These are also specified in the web.xml file but have the benefit that their values can be set or overwritten during or after deployment of the WAR/EAR file.

This means the application server administrator can set the Forms servlet URL which makes it possible to have testing, staging, and production versions of a web application pointing to different Forms servlet URLs without the need to create different WAR/EAR files for these environments. It also means you can keep the license key private and not include it in the source files and have the system administrator enter the license key at or after deployment.

## Deployable to Oracle Application Server 10.1.2

OraFormsFaces had some unwanted dependencies on JDK 1.5 specific classes which prohibited OraFormsFaces application from being deployed on J2EE 1.4 application servers and Java containers such as Oracle Application Server 10.1.2. With this version of OraFormsFaces all code is now compatible with JDK 1.4 so OraFormsFaces applications can be deployed to Oracle Application Server 10.1.2 which could be the same server as used to run Oracle Forms. The OraFormsFaces Developer's Guide has detailed instructions on how to accomplish this.

## Convenience Batch Files

Added three new time saving batch files to quickly subclass the OraFormsFaces object group to a large set of Forms in one go, attach the OraFormsFaces PLL library to a large set of Forms in one go, and compile a large set of Forms in one go.

## Detailed JavaScript Tracing

All OraFormsFaces JavaScript is now instrumented to be able to provide detailed tracing information in combination with the Mozilla Firefox plug-in Firebug. See the Developer's Guide for instructions.

## Added Support for Custom PL/SQL Events from JavaScript

Any event that is sent to Forms from JavaScript that is not automatically recognized and handled by OraFormsFaces is now forwarded to an empty stub procedure that can be changed by the developer. This allows for more advanced integrations where UI elements can send events that are specific to your situation and environment.

## Enhanced License Key Handling

The handling of license keys has been improved. The actual license key is in a simpler format which makes it less error prone to install it. The key handling has some enhanced features as well.

## JavaScript errors are caught. and printed

OraFormsFaces allows you to execute a snippet of JavaScript from within Forms PL/SQL. This is also heavily used by OraFormsFaces internally. When an error occurs during this JavaScript execution the error is now caught and printed to the client Java console.

## Fixed Bugs

- [FS#65](#) – JavaScript API breaks after legacy-lifecycle restore
- [FS#66](#) – Installation instructions do not include OLB file
- [FS#68](#) – CustomerDemo.fmb depends on obsolete off\_tpl.fmb
- [FS#69](#) – Context Root and Application Name for demo applications
- [FS#70](#) – NullPointerException during applet startup on Linux client
- [FS#71](#) – Invoke the JavaScript API automatically to prevent security delay on first user action
- [FS#72](#) – Forms open in separate frame if default config has separateFrame=true
- [FS#79](#) – FRM-40010 Cannot read form off\_land.fmx. Some installations would not use the WorkingDirectory or FORMS\_PATH if set specific for the OraFormsFaces config section in the formsweb.cfg resulting in an error about the off\_land.fmx form not being found.

## What is new in version 2.2

Below are the fixed bugs and new features of OraFormsFaces version 2.2 which was released in March 2008.

## OraFormsFaces Object Library to replace the template form

In previous versions OraFormsFaces came with a template form `off_tpl.fmb`. This has been replaced with an object library file `oraformsfaces.olb`. This allowed for greater flexibility and better allows us to add new features to the object group in future releases.

The object group in the object library file now also contains a dummy window and canvas. This makes it easier to subclass the object group into one of your forms. In previous versions you would have to change the order of blocks and set the canvas property of the OraFormsFaces data block. With the object group from the object library file this is no longer necessary. You can just drag-and-drop the object group from the object library to your form and don't need to make any changes after that.

## Added support for Oracle Forms 10gR1 (9.0.4)

Support for Oracle Forms 10gR1 has been added to this release. The OraFormsFaces ZIP file now comes with files for both Oracle Forms 10gR2 (10.1.2) and Forms 10gR1 (9.0.4). Files for Oracle Forms 9i can be made available upon request. Oracle Forms 6i files are harder to create and are currently not available. If you have a demand for Forms 6i files, please contact us and we can see if it is possible to downgrade the existing files to Forms 6i for you.

## Added compatibility with Oracle 10gR2 patch set 3 (10.1.2.3)

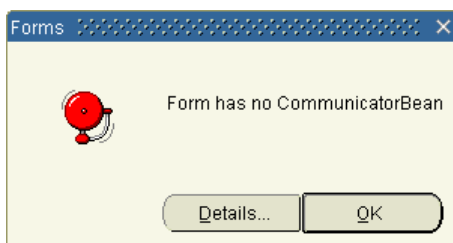
Oracle made a change to one of the internal java methods of the Forms applet in 10gR2 patch set 3 which broke OraFormsFaces.

## Form module without Pluggable Java Component is detected

A common configuration mistake was not to include the OraFormsFaces object group in each and every form. The object group comes with a Pluggable Java Component (PJC), which coordinates the JavaScript API essential for OraFormsFaces.

If a form was started that not had the PJC included, a cryptic error message could occur that navigation to a certain form is not possible. This was caused by the fact that the PJC handling the JavaScript API is not in the active form and Forms tried to navigate to the form with the PJC which is not possible.

As of version 2.2, OraFormsFaces detects the use of a form without the necessary PJC. If OraFormsFaces detects a form is started without the necessary PJC, the Forms applet will die while the following error is displayed:



## Added JavaScript function to simulate a user click

The supporting JavaScript of the OraFormsFaces library has a new function to simulate as if a user is clicking on an element in the page. This can be used to have a (possibly invisible) ADF button on the page that initiates a partial page rendering request:

```
offInterface.javaScriptExec('offSimulateClick("f:refresh-details");');
```

The above example executes a small piece of JavaScript from a Forms PL/SQL procedure. It activates the click event on the `f:refresh-details` element on the page. That could be an ADF Faces button that initiates a partial page refresh using the ADF proprietary partial page rendering feature. OraFormsFaces cannot support partial page

rendering natively as that would make OraFormsFaces dependent on Oracle ADF Faces, and we want to keep OraFormsFaces capable of running without using Oracle ADF.

## Fixed Bugs

- [FS#58](#) – `offParams.getParamValue` did not work. This function can be used to retrieve a value of a `FormParameter` object from Forms PL/SQL.
- [FS#59](#) – Specifying a `ValueChangeListener` for a `FormParameter` component did not work. An error was thrown that a `FormParameter` component does not have a `ValueChangeListener` property. This has been fixed.
- [FS#60](#) – `FormParameter` component values were not passed correctly to the form if `FormCommand` components are also used and these `FormCommand` components are not the last children of the parent `Form` component.
- [FS#62](#) – OraFormsFaces was not compatible with patch set 3 of Oracle Application Server 10gR2. After installing this patch set 10.1.2.3.0, the Forms applet would throw a `java.lang.NoSuchMethodError` during initialization.
- Using the development controls without the clipping feature would raise a JavaScript error. This has been fixed.

## Known issues

### Known issues in OraFormsFaces version 2.3.x

- **OraFormsFaces fails to start when using Sun JRE 1.5.0\_14 or a later update of Sun JRE 1.5.0\_xx.**

A bug in Sun JRE 1.5.0\_14 and above (but not 1.6.0\_xx) causes OraFormsFaces to fail on every page but the very first web page using a Forms applet. OraFormsFaces uses a Sun JRE feature called “Legacy Lifecycle” which causes the applet not to be discarded after each page but re-uses the same Java applet instance on each and every page. As it turns out the applet cannot invoke JavaScript once it has gone through this re-use cycle once.

The issue does not occur in Sun JRE 1.5.0\_xx prior to 1.5.0\_14 and also does not occur in Sun JRE 1.4.2\_xx and Sun JRE 1.6.0\_xx. Sun might fix the issue in a forthcoming 1.5.0\_xx release but the currently available 1.5.0\_16 still suffers from the issue. Also note that both the 1.4.2 and 1.5.0 family have been marked end-of-life by Sun.

OraFormsFaces checks at startup if Sun JRE 1.5.0\_14 or later is used. If so, the applet fails and an error message is written to the Java console to indicate you are hitting this issue and you should use a different Sun JRE version.

- **Forms applet fails to start when in an ADF partial page rendering panel.**

OraFormsFaces is not (yet) compatible with Oracle’s ADF Partial Page Rendering feature. This means you cannot have a Form in an ADF container component that can be shown or hidden using partial page rendering. A typical example is the af:showOneTab component to show tabbed pages. If you include an OraFormsFaces Form on one of the tabs it will fail to start.

When using Internet Explorer, you will only see an indication of a JavaScript error whereas Firefox will probably show the animated gif to indicate the Forms applet is loading. However, the animated gif will never disappear and the applet won’t show. It might even cause Firefox to hang or crash. We are looking into this issue and are trying to resolve this without introducing a dependency on ADF to OraFormsFaces.

- **Internet Explorer might hang when the Forms applet is starting.**

This has been a difficult to track issue. Microsoft Internet Explorer has a tendency to freeze/lock up when the Oracle Forms applet is initializing. This is not an OraFormsFaces specific issue as it can happen with vanilla Oracle Forms application as well. However it does seem that the likelihood of this occurring increases when using OraFormsFaces. It appears the issue is caused by Internet Explorer rendering the page and at the same time is starting the Java applet. OraFormsFaces has implemented a feature to delay the injection of the Forms applet into the web page. This seems to relieve the issue although it does cause the first page that uses OraFormsFaces to be slightly slower in startup.

The number of milliseconds to delay the applet injection can be configured with the new parameter “oraformsfaces\_ie\_delay” in the formsweb.cfg configuration file. The default is set to 1000 but if you still suffer from this issue you might try to increase this value. On the other hand, when using the re-architected Sun JRE 1.6.0\_10 it seems you can reduce the delay to 0 as the issue seems to be resolved with this new version.

- **ADF 11 popup elements like dialogs and pull down menus render behind the OraFormsFaces applet.**

Oracle ADF bug 7608635 causes ADF popup elements to render behind Java applets and not on top of it. We have created a simple workaround for the issue for as long as Oracle hasn’t fixed this bug. See OraFormsFaces [issue FS#89](#) for a more detailed description and a workaround.

## Upgrading Instructions

In general, upgrading is the same as doing a fresh install. You can follow the steps from the Developer's Guide for doing a fresh install. However, there might be some version specific notes which are explained later in this section. In general you need to consider the following remarks when doing a fresh install as part of an upgrade:

- If you do not intend to use the previous version of OraFormsFaces anymore, you can remove the library definitions from your JDeveloper installation. Go to the "Tools" menu, then "Manage Libraries". On the "Libraries" tab remove OraFormsFaces and on the "JSP Tag Libraries" remove OraFormsFaces as well.
- When modifying the `faces_creator_configuration.xml` file as described in "Add Drag-and-Drop Support for Data Controls in JDeveloper", you'll need to replace the information from the previous OraFormsFaces install with the information from the new version.

## Upgrading a JDeveloper Workspace and Project

After completing the installation steps for your new OraFormsFaces version, you'll need to upgrade your JDeveloper workspaces and projects as well. To make sure these workspaces use the new OraFormsFaces version, follow these steps:

- Right-click the ViewController project and select Properties
- Go to the "JSP Tag Libraries" node of the navigation tree. Then remove OraFormsFaces from the list of JSP Tag Libraries. JDeveloper probably asks if the OraFormsFaces library should also be removed from the project. Select "Yes".
- If JDeveloper did not ask to remove the library, navigate to the "Libraries" node of the navigation tree and remove the OraFormsFaces library manually.
- Close the Project Properties dialog box by pressing OK. This finalizes the new settings and actually removes the library from the project.
- Again, right click the ViewController project and select Properties
- Go to the "JSP Tag Libraries" node of the navigation tree.
- Click the Add button and add the new version of the OraFormsFaces tag libraries to the project.
- Press OK to close the dialog box. This will make the changes final and also add the OraFormsFaces java library to the project.

## Upgrading Oracle Forms

After installing a new version of OraFormsFaces, be sure to recompile all of your forms. Your forms will have a subclassed object group from the OraFormsFaces object library. With each new version of OraFormsFaces, this object library might change. By recompiling your Forms you ensure that these changes are also embedded in the compiled FMX files.

## Upgrade Notes when upgrading 2.3.1 to 2.3.2

There are no specific instructions for upgrading OraFormsFaces version 2.3.1 to version 2.3.2, other than the remarks at the beginning of this chapter. If you are upgrading from an earlier version of OraFormsFaces to version 2.3.2, be sure to read the remarks for all versions between your old and new version.

## Upgrade Notes when upgrading 2.3 to 2.3.1

There are no specific instructions for upgrading OraFormsFaces version 2.3 to version 2.3.1, other than the remarks at the beginning of this chapter. If you are upgrading from an earlier version of OraFormsFaces to version 2.3.1, be sure to read the remarks for all versions between your old and new version.

## Upgrade Notes when upgrading 2.2 to 2.3

There are no specific instructions for upgrading OraFormsFaces version 2.2 to version 2.3, other than the remarks at the beginning of this chapter. If you are upgrading from an earlier version of OraFormsFaces to version 2.3, be sure to read the remarks for all versions between your old and new version.

## Upgrade Notes when upgrading 2.1 to 2.2

Besides the normal upgrade instructions as explained before, there are some specific remarks to consider when upgrading to OraFormsFaces 2.2:

- Prior to OraFormsFaces version 2.2, OraFormsFaces used a template form to subclass some objects to your forms. In version 2.2 this has been replaced with an object library. This means you will have to go over all your forms and remove the subclassed objects from the template form. Next, follow the steps from “Preparing the Oracle Forms modules” in the Developer’s Guide to subclass the objects from the object library.

We apologize for the inconvenience this may cause you as you need to go over all your forms. Subclassing the object group from an object library is more powerful and the new object group is easier to use. It includes a dummy window, so there is no need for you to set the canvas property of the OraFormsFaces data block after subclassing it to your form.