Oracle® Fusion Middleware

Release Notes for Oracle Forms

12.2.1.4.0
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Oracle Fusion Middleware Release Notes for Oracle Forms, 12.2.1.4.0

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Contents

Preface

Learn about the issues you may encounter when using Oracle Forms and how to workaround them.

Audience

This document is intended for users of Oracle Fusion Middleware Forms 12*c* (12.2.1.4.0).

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Documents

You can refer the Oracle Fusion Middleware Library for additional information.

- For Oracle Forms 12*c* information, see Oracle Forms Documentation Library.
- Oracle Forms Developer Online Help, available from the Help menu in Oracle Forms Developer.
- For Oracle Forms white papers and other resources, see Oracle.com.
- For upgrade information, see Fusion Middleware Upgrade Documentation.
- For release-related information, see Fusion Middleware Release Notes.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1
Introduction

This chapter provides an introduction to Release Notes for Oracle Forms.

The following sections are included:

Latest Release Information

This document is accurate at the time of publication. Oracle will update the release notes periodically after the software release.

The Release Notes in this document are specific to the latest Oracle Forms. You can access additional information on the Oracle Forms product page on Oracle.com.

Purpose of this Document

This document contains the release information for the latest version of Oracle Forms. It describes differences between the software and its documented functionality.

Oracle recommends you review its content before installing, or working with the product.

System Requirements and Specifications

Oracle Forms installation and configuration will not complete successfully unless users meet the hardware and software pre-requisite requirements before installation.

To review information such as hardware and software requirements, database schema requirements, minimum disk space and memory requirements, and required system libraries, packages, or patches, see Oracle Fusion Middleware System Requirements and Specifications.

Certification Information

To see versions of platforms and related software for which Oracle Forms is certified and supported, go to Oracle Fusion Middleware Supported System Configurations.

Product Documentation

For complete documentation on Oracle Forms, go to http://docs.oracle.com/en/middleware/.

Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support at https://support.oracle.com.

Licensing Information

Licensing Information help you to understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s).

To review the licensing information document, see Licensing Information User Manual.

Downloading and Applying Required Patches

After you install and configure Oracle Forms, there might be cases where additional patches are required to address specific known issues.

You can check for the latest patches available for your Oracle Fusion Middleware product or component by registering and logging in to My Oracle Support at: https://support.oracle.com.

After you log in to My Oracle Support, click the **Patches & Updates** tab, which provides various tools that allow you to quickly locate the patches most important to your Oracle software installation.

> **Note:**
>
> It important that you review the README file that is included with each patch. The README file includes important information about the requirements and procedures for applying the patch.

2

What's New in this Release

Learn the features, enhancements, and changes made to Oracle Forms.

The following section introduces the new and changed features for Oracle Forms and Reports, and provides pointers to additional information:

- New Features

New Features

This section contains information about new and changed features that are being introduced in the release, features that have been enhanced, and changes to existing features.

Oracle Forms

The following list provides an overview of new features and enhancements:

- Oracle Forms Standalone Launcher Improvements
- Forms Application Deployment Services Enhancements
- Increased Allowed Text Length for Text or Display Items
- Improved WebUtil File Transfer Rate
- Updated Database Client Software
- Autonomous Database Support with Oracle Forms

Refer to the Oracle Forms product page on Oracle.com for more information.

Oracle Forms Standalone Launcher Improvements

In this release, we have made the following improvements to the Oracle Forms Standalone Launcher (FSAL).

Single Sign-on Support
Starting with this release, FSAL supports single sign-on (SSO) using Oracle Access Manager.

Improvement of Cache Handling
We have improved cache handling in this release. The algorithm used to determine if a cache update is necessary has been significantly improved thereby improving application startup performance. Locally stored cache is also now stored in uniquely named directories. This will help to prevent applications that share similar JAR names but different content from overwriting each other.

Administrators can now use the new `ignoreSaaCache` parameter to specify whether the Oracle Forms Standalone Application Launcher (FSAL) should ignore files downloaded from the Forms server and cached on the Java client machine from which the Launcher is being run. For more information on the parameter, see the *Working With Oracle Forms* guide.

Support for Java Version 11.0.2

The Oracle Forms Standalone Launcher is now compatible with Java versions 11.0.2 (LTS) and later.

Forms Application Deployment Services Enhancements

In this release, we have made the following improvements to Forms Application Deployment Services (FADS).

Support for WebUtil-enabled Applications
Starting with this release, Oracle Forms Application Deployment Services (FADS) correctly deploys C libraries, such as DLLs for WebUtil-enabled applications.

Enhanced Database Support
In 12.2.1.3, Oracle Forms Application Deployment Services (FADS) was not able to generate PL/SQL modules (PLL) when connecting to a version 12+ database. All databases certified with this Forms release are also supported for use with FADS.

Increased Allowed Text Length for Text or Display Items

The Maximum Length property for Text and Display items has been changed from 65534 to 2097151.

Improved WebUtil File Transfer Rate

When transferring files using the file upload and download features of WebUtil, the transfer rate has been increased by as much as 30% for both transfers between the user and middle-tier and between the user and database.

Updated Database Client Software

This installation includes an update to the database client software installed with Fusion Middleware. The database patch set included is 12.1.0.2.190716. If you execute the `opatch lsinventory` command, the patch identification number for this update will appear as 29494060 on Linux or Unix and 30220086 on Microsoft Windows.

Autonomous Database Support with Oracle Forms

Oracle Forms 12.2.1.4 is certified to connect to an Oracle Autonomous Transaction Processing (ATP) database for both application data and/or the required Fusion Middleware Infrastructure Repository.

Limitations

Some Forms features normally available in an on-premise database are not available in ATP or may be partially exposed with limitations because of ATP's enhanced security features.

Because of these limitations, Forms features like Advanced Queuing integration and Database Idle System Events are not supported.

For more information on these limitations, consult the following topics in the Oracle ATP Cloud documentation:

- (Shared Exadata deployments) Autonomous Database for Experienced Database Users in .
- (Dedicated Exadata deployments) Using Oracle Database Features in Autonomous Transaction Processing Dedicated Deployments in *Developer's Guide to Oracle Autonomous Transaction Processing on Dedicated Exadata Infrastructure*.

For a description of exceptions thrown by Oracle Forms Builder when working with Autonomous Transaction Processing, see Oracle Forms Issues and Workarounds.

3
Deprecated Features

This chapter provides information about features that have been deprecated and de-supported in Oracle Forms and Reports.

- Deprecated Forms Features
- Deprecation Notice for Oracle Reports

Deprecated Forms Features

This section provides information about features that have been deprecated or desupported in Oracle Forms.

For information about features that have been desupported from Oracle Forms, see Preparing to Upgrade.

sign_webutil Utility Script

Although included in this release, the *sign_webutil* utility script that Oracle Forms provided to self-sign JAR files has been deprecated.

No further development of this utility is planned for the future. Support of this utility may be limited. This utility may be removed from future Forms releases.

It is recommended that you consider using digital signature certificates obtained from an industry recognized Certificate Authority. Although self-signing can be used for testing and development, it should be avoided in production in order to limit any impact to the end-user experience. In order to sign custom JAR files, the Java jarsigner utility will be needed to insert your certificate into your custom JAR files. Refer to the Java documentation for details on how to use the jarsigner utility or contact the Certificate vendor for assistance.

Deprecation Notice for Oracle Reports

Although included in this release, Oracle Reports has been deprecated as of Fusion Middleware 12c Release 2 (12.2.1.3.0).

No further development of Oracle Reports is planned for the future. If future releases are made available, Oracle is not planning any functional enhancements for Oracle Reports other than critical bug fixes and changes necessary to make it compatible with a new supporting technology stack. For more information, refer to the Reports Statement of Direction available here.

Oracle recommends migrating to Oracle BI Publisher for reporting purposes. Oracle BI Publisher is Oracle's strategic product for enterprise reporting. This reporting solution allows authoring, managing, and delivering pixel-perfect customer facing reports against various data sources with web browser or familiar desktop tools.

4
Lifecycle Management Information

This chapter describes the installation, configuration, upgrade and migration issues associated with Oracle Forms.

The following sections are included:

- Oracle Forms Installation and Configuration Issues
- Upgrade and Migration Issues

Oracle Forms Installation and Configuration Issues

This section describes installation and configuration changes, issues and their workarounds.

It includes the following topics:

- Oracle Forms 12.2.1.4.0 Server on IBM AIX Might Crash While Serving the User Request
- Non-Internet Explorer Browser Proxy Settings when Using One-Button-Run
- Oracle Forms 12.2.1.4.0 Application Supports JACOB Version 1.18 and later
- Forms Using 12.1.0.2.0 Database Client
- Update SqlDeveloper Version
- Eclipse/Jetty Version Required for Java Script and Java Web Start Integration
- Post Installation Tasks

Oracle Forms 12.2.1.4.0 Server on IBM AIX Might Crash While Serving the User Request

After you have successfully installed and configured Forms Server 12.2.1.4.0 on IBM AIX, you might notice Forms server crashing while serving the user requests. You might also see the following error text:

```
exec(): 0509-036 Cannot load program frmweb because of the following errors:
rtld: 0712-001 Symbol CreateIoCompletionPort was referenced  from
module $ORACLE_HOME/lib/libclntsh.so(), but a runtime definition  of the symbol was
not found.
```

Forms 12.2.1.4.0 is bundled with the IBM AIX Database Client 12.1.0.2.0 version. The issue is related to the IOCP API symbols dependency in Database 12.1.0.2 client library.

To resolve this issue for IBM AIX, enable the IOCP module in Forms Server installation machine.

On IBM AIX on POWER Systems (64-Bit), enable I/O completion ports (IOCP) before initiating the install process.

To check if the IOCP module is enabled, run the lsdev command: `$ lsdev | grep iocp`

The following sample output shows the IOCP status is set to Defined and hence not enabled: `iocp0 Defined I/O Completion Ports`

By default, IOCP is set to `Defined`.

To enable IOCP, set IOCP status to `Available` using the following procedure:

1. Log in as root and run the following command: `# smitty iocp`.
2. Select Change / Show Characteristics of I/O Completion Ports.
3. Change configured state at system restart from `Defined` to `Available`.
4. Run the lsdev command to confirm the IOCP status is set to `Available`:

```
$ lsdev | grep iocp
iocp0      Available       I/O Completion Ports
```

Perform a system restart to make the changes permanent.

Non-Internet Explorer Browser Proxy Settings when Using One-Button-Run

If you encounter a FORBIDDEN error when using One-Button-Run with any of the supported browsers other than Internet Explorer, verify if 127.0.0.1 (localhost) is in the proxy settings for your browser. If 127.0.0.1 is not in the exceptions list, then add it. This ensures that the browser will bypass the proxy server.

Because Internet Explorer 11 is the only browser supporting Java Plugin with embedded applet, the use of any other browser requires that you configure One-Button-Run to use Java Web Start in the Form Builder. This setting is configured on the Runtime tab of the Preferences dialog in the Builder. Add the desired configuration name to the Application Server URL setting. Here is an example.

```
http://localhost:9001/forms/frmservlet?config=webstart
```

Oracle Forms 12.2.1.4.0 Application Supports JACOB Version 1.18 and later

Oracle Forms 12.2.1.4.0 supports JACOB 1.18 and later. However, during installation, JACOB 1.18 M2 is configured with Webutil at runtime to perform the client side OLE integration. To use JACOB 1.18, `webutil.cfg` needs to be updated. Newer JACOB versions may be used, but doing so will require the updating of the WebUtil configuration where the JACOB libraries are referenced.

JACOB is a JAVA-COM bridge that enables you to call COM automation components from Java. It uses JNI to make native calls to the COM libraries. JACOB runs on x86 and x64 environments supporting 32 bit and 64 bit JVMs.

Forms Using 12.1.0.2.0 Database Client

The following are the issues with Forms using database client:

- This Forms installation is based on Oracle Database 12.1.0.2.0. As a result, all application modules must be regenerated prior to running. Once application

modules have been regenerated in the new version, they (source or runtime files) will not be backward compatible to any earlier versions. Backup copies of application modules should be created before attempting to regenerate or open in the Forms Builder. This process cannot be reversed.

- User exits should be regenerated using a version 12.1.0.2.0 pre-compiler.

Update SqlDeveloper Version

If the domain being created (or extended) is to include Forms Application Deployment Service (FADS), the SqlDeveloper version installed in the associated Oracle Home must be upgraded to version 18.2 or later. This update must be completed before configuring the WLS domain to include FADS.

For more information, refer to Oracle Forms Application Deployment Services in the *Working With Oracle Forms* guide.

Eclipse/Jetty Version Required for Java Script and Java Web Start Integration

Eclipse/Jetty version 9.4.5 or later is required for Forms Java Script Integration (WebSocketJSI). This jar file must be signed with a trusted and known certificate. For information on how to sign jar files see Java documentation. If using Java Web Start for deployment, add the Jetty jar reference to extensions.jnlp. The required files can be downloaded from the following locations:

- http://www.eclipse.org/jetty/download.html
- https://www.eclipse.org/jetty/previousversions.html

Post Installation Tasks

After installing and configuring Oracle Forms, administrators should identify the relevant expiration dates embedded in the provided JARs in order to be prepared for their eventual expiration.

There are several signatures embedded within some of the provided JARs (for example, `frmall.jar`). Each signature has a unique purpose and expiration date. For information about how digital signatures work, refer to the Oracle Java documentation.

The signed JAR files can be found in the `ORACLE_HOME/forms/java` directory.

You can test the desired JARs using the jarsigner executable in the JDK included in the installation. For example:

- On Windows: `jarsigner -verify -verbose frmall.jar | find "expire"`
- On Unix/Linux: `jarsigner -verify -verbose frmall.jar | grep "expire"`

The relevant expiration dates in the provided files are:

- Signer Certificate: 01-FEB-2020
- Timestamp: 17-JAN-2028

The Signer Certificate date represents the last date that the certificate can be used to sign new JAR files. Since the provided JARs were signed before that date, this expiration is

mostly irrelevant and can be ignored. However, it may be used in the event the Timestamp cannot be validated, which requires an Internet connection.

The Timestamp is used to ensure that the JAR was signed during a valid period. This validation test can continue through the expiration date of the Timestamp. As mentioned, if the Timestamp cannot be validated the Signer Certificate expiration is assumed to be the last valid date the JAR can be used.

If you have JAR files that are approaching the Timestamp expiration, contact Oracle Support in order to receive updated files.

Upgrade and Migration Issues

This section describes issues associated with the upgrade and migration process of Oracle Forms.

It includes the following topics:

- Upgrade Guidance
- Improved Security Handling for the `formsweb.cfg` File
- Enhanced Forms Webutil File Transfer Speeds

Upgrade Guidance

To view the list of Oracle Forms changed or obsolete features, see Preparing to Upgrade.

To upgrade from Oracle Forms 10*g* or Oracle Forms Services 11*g* (11.1.x), see:

- Planning an Upgrade to Oracle Fusion Middleware 12*c*
- Upgrading Oracle Forms

Improved Security Handling for the `formsweb.cfg` File

In the 12.2.1.4.0 release, we have enhanced the security handling of the `formsweb.cfg` file. All `userid` entries in the file are automatically encrypted when the server starts. This feature is enabled by default on new installations. When upgrading, the administrator must manually enable this feature.

Complete these steps when upgrading from 11.x.x.x.x or 12.2.1.x.x to 12.2.1.4 to enable the auto encryption of the `userid` parameter. If you are performing a ZDT upgrade, complete all the three steps. If you are performing a non-ZDT upgrade, skip step 1 and complete steps 2 and 3.

1. Set the `forms.userid.encryption.enabled` server parameter to `true` for the Admin Server and the Forms Managed Servers.
   Refer to Customizing Domain Wide Server Parameters in the *Administering Server Startup and Shutdown for Oracle WebLogic Server* guide and set the `forms.userid.encryption.enabled` parameter using the `setUserOverridesLate.sh` file (`setUserOverridesLate.cmd` for Windows).
2. Run the following commands using WLST (online mode) to provide grants to the Forms application/mbeans to access the Forms application keystore.

- Commands for zero downtime (ZDT) upgrade

```
grantPermission(codeBaseURL="file:${common.components.home}/../forms/
provision/
forms-config-
mbeans.jar",permClass="oracle.security.jps.service.keystore.KeyStoreAc
cessPermission",
permTarget="stripeName=formsapp,keystoreName=formsks,alias=*",
permActions="*")


grantPermission(codeBaseURL="file:${domain.home}/servers/$
{weblogic.Name}/tmp/_WL_user/
formsapp_12.2.1/-",permClass="oracle.security.jps.service.keystore.Key
StoreAccessPermission",
permTarget="stripeName=formsapp,keystoreName=formsks,alias=*",permActi
ons="*")
```

- Commands for Non-ZDT upgrade

```
grantPermission(codeBaseURL="file:${common.components.home}/../forms/
provision/
forms-config-
mbeans.jar",permClass="oracle.security.jps.service.keystore.KeyStoreAc
cessPermission",
permTarget="stripeName=formsapp,keystoreName=formsks,alias=*",
permActions="*")


grantPermission(codeBaseURL="file:${domain.home}/servers/$
{weblogic.Name}/
tmp/_WL_user/
formsapp_12.2.1/-",permClass="oracle.security.jps.service.keystore.Key
StoreAccessPermission",
permTarget="stripeName=formsapp,keystoreName=formsks,alias=*",permActi
ons="*")
```

3. Restart the Admin Server and the Forms Managed Servers.

Enhanced Forms Webutil File Transfer Speeds

In this release, we have improved Forms Webutil file upload and download transfer speeds by up to 30% by increasing the maximum allowable value of `WebUtilMaxTransferSize` to 24573.

> **Note:**
>
> When upgrading, run the `create_webutil_db.sql` script included in the 12.2.1.4 installation to ensure you can take advantage of the improved file transfer speeds. Make sure you generate and use the `webutil.pll` file that is included in the 12.2.1.4 installation. Do not copy this file from an earlier version.

5

Known Issues and Workarounds

This chapter lists the known issues and workarounds associated with Oracle Forms.

The following topics are included:

- Oracle Forms Issues and Workarounds

Oracle Forms Issues and Workarounds

This section details issues pertaining to Oracle Forms, and their workarounds.

Table 5-1 Oracle Forms Issues and Workarounds

Issue	Operating System	Description
JVM crashes when you attempt to use Forms JDAPI, Forms Application Deployment Services (FADS), or Forms XML Converter	Microsoft Windows	After you update the JDK used by Oracle Home to version 8U261+, JVM may crash when you attempt to use JDAPI, FADS, or the XML Converter. When using: • FADS, applications fail to deploy. • JDAPI, applications fail to run. • The XML Converter, modules are not converted. This issue did not occur with earlier versions of the JDK. **Solution:** Apply Patch 32460115.
Shortcut Keys not Working with JAWS	Microsoft Windows	When using Forms Builder with JAWS, the keyboard shortcuts Ctrl+Insert to create items are not working. As a workaround, use the menu-mnemonics. Use Alt+E to open the **Edit** menu, then R to choose **Create** to create items.
Stop dejvm Before Stopping and Restarting WLS_FORMS	Microsoft Windows	Before restarting the Oracle WebLogic managed server, all the JVM Controller processes (`dejvm`) started by that server must be stopped. Otherwise, `WLS_FORMS` will not restart after a shutdown.

Table 5-1 (Cont.) Oracle Forms Issues and Workarounds

Issue	Operating System	Description
Unclear Text and Image Rendering	Microsoft Windows	On desktops where the Display scaling value is set to any value other than 100%, some distortion may be seen when using Java 11 with Forms Standalone Launcher. https://bugs.openjdk.java.net/browse/JDK-8194165 As a workaround, change the Windows Display scaling setting to 100%. It may be necessary to log out of the current Windows session and log in again for the changes to completely restore proper rendering.
LD_PRELOAD Setting Required for Signal Chaining Facility	Linux/UNIX	The `LD_PRELOAD` setting in `default.env` is required for the working of signal chaining facility in JVM version 1.5 and later. If you are creating or using other environment files, the setting in the environment file for `LD_LIBRARY_PATH` and `LD_PRELOAD` must be the same as in `default.env`.
Unable to Generate some Modules Types Using some `NLS_LANG` Settings	Linux/UNIX	When setting the `NLS_LANG` Territory to some regions, the compiler may fail and throw FRM-30312. To workaround the issue change the `NLS_LANGUAGE` from the typical region's language to `AMERICAN`. For example, change `CROATIAN_CROATIA.UTF8` to `AMERICAN_CROATIA.UTF8`.

Table 5-1 (Cont.) Oracle Forms Issues and Workarounds

Issue	Operating System	Description

Forms Builder does not Start	Linux 7 (OEL and RedHat) and SLES 12 SP1	Forms Builder will not start on Linux OEL7 or RedHat7 and SUSE Linux Enterprise Server 12 SP1 or newer operating system. The following error appears:
		Error while loading shared libraries: libXm.so.3: cannot open shared object file: No such file or directory.
		This is the result of the Forms Builder expecting to find libXm.so.3. This version does not exist for newer Linux versions. To workaround the problem, create a soft link.
		1. Create a soft link named libXm.so.3 to libXm.so.4 under /usr/lib64/
		`ln -s /usr/lib64/ libXm.so.4.0.4 libXm.so.3`
		2. Add it to LD_LIBRARY_PATH
		`export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/usr/lib64`

Runtime Issue in Oracle Forms Compiler	Solaris	To resolve crash of Oracle Forms compiler at exit, while running compiler, Forms Builder and setting the NLS_LANG, user also needs to set the environment variable LC_ALL. *export LC_ALL=C*

Table 5-1 (Cont.) Oracle Forms Issues and Workarounds

Issue	Operating System	Description
Oracle Forms Builder Run Form Button Fails	All	Attempting to use the Run Form button in the Forms builder may fail if the form is not first saved in a directory included in FORMS_PATH. Alternatively, add the working directory to FORMS_PATH. This will generally be the MIDDLEWARE_HOME \bin directory. This is an intended change in behavior, which prevents directory paths from being added to a URL. Although not recommended, the behavior of previous versions can be restored by removing (or commenting) the entire FORMS_MODULE_PATH entry from default.env.
Web Start Does Not Work When WLS_FORMS is Behind a Proxy	All	Attempting to start a Forms application using Web Start will fail if WLS_FORMS is behind a proxy server. To correct this problem, set WEBSTART_CODEBASE in formsweb.cfg to the fully qualified path of the CODEBASE as it appears from the external server. For example, http://OHShost:OHSport/forms/java.

Table 5-1 (Cont.) Oracle Forms Issues and Workarounds

Issue	Operating System	Description
Changes and Workarounds Affecting the Number of Characters that can be Typed into an Item	All	**Issue** 1. When a form is created using the Forms builder (frmbld), the item property Query Length defaults to zero. When a form was compiled in releases before 11*g*, this value (zero) caused the Query Length to default to the value of the Maximum Length property. In Oracle Forms 11*g*, the Query Length defaults to two plus the value of the Maximum Length property. If the behavior of prior releases is desired, then you must set the environment variable `FORMS_QUERY_LENGTH_DELTA` to '0' when the form is compiled. 2. The DATE format masks determine the number of characters that can be typed into a text item or combo box. In general, this number is the maximum of the number of characters required for the "output" format mask and for any allowable "input" format mask. The process how "input" and "output" format masks are selected for a combo box, or for a text item whose format mask is not set is described in *About Format Elements for Dates*. Notice that the `FORMS_USER_DATE_FORMAT` or `FORMS_USER_DATETIME_FORMAT` environment variable may specify multiple input format masks. Also observe that for any input format mask that does not contain FX, alternate format masks are also allowable, as described in *String-to-Date Conversion Rules* in *Format Models* in the SQL

Table 5-1 (Cont.) Oracle Forms Issues and Workarounds

Issue	Operating System	Description
		Reference in the Oracle Forms Builder Online Help. Note one exception to the rules spelled out above. The behavior described in *String-to-Date Conversion Rules* allow a fully spelled-out month to be entered for a numeric month (MM form mask element) or abbreviated month (MON form mask element). However, in this case, the number of characters that can be typed into a text item or combo box allows only enough room for an abbreviated month. Prior to 11*g*R1, input DATE format masks were not taken into account. In 10*g*R2 (10.1.2), the number of characters the end user was allowed to type into a DATE item was determined solely from the output format mask. In Forms 6*i* (6.0.8), the Maximum Length property of the DATE item was also taken into account. **Workaround** The changes in behavior documented above may affect users who have set the Auto-Skip property for a DATE item. The end user may now be allowed to type more characters into a specific DATE item, in which case auto-skip will not occur in cases where it did occur before 11*g*R1. To ensure that auto-skip occurs, add the FX modifier to the format mask that will be used for the item, for example, FXYYYY/MM/DD. If there is no item-specific format mask (that is, no format mask is set either in the item's property palette or programmatically), then the item's format mask will be derived from environment variables. The `FORMS_USER_DATE_FORMAT` and `FORMS_USER_DATETIME_FORMA`

Table 5-1 (Cont.) Oracle Forms Issues and Workarounds

Issue	Operating System	Description
		T environment variables are recommended as they take precedence over any NLS environment variables that might affect DATE format masks. Notice that specifying the FX modifier will disallow the alternate format masks that are described in *String-to-Date Conversion Rules* in *Format Models* of the SQL Reference. Also observe that the `FORMS_USER_DATE_FORMAT` and `FORMS_USER_DATETIME_FORMA` T environment variables can explicitly specify alternate format masks, separated by vertical bars, for example, FXDD-MON-YYYY|FXMON-DD-YYYY. If the `FORMS_OUTPUT_DATE_FORMAT` and `FORMS_OUTPUT_DATETIME_FOR MAT` environment variables are not set, the output format masks are derived from the first format mask specified in each of the `FORMS_USER_DATE_FORMAT` and `FORMS_USER_DATETIME_FORMA` T environment variables.
ORA-01031 error	All	Forms Builder throws an "ORA-01031: Insufficient Privileges" error when connecting to ATP-S (Shared). This error can be ignored. However, as a result of this condition, Remote Dependency Mode is set to "TIMESTAMP".

Table 5-1 (Cont.) Oracle Forms Issues and Workarounds

Issue	Operating System	Description
Forms Application Deployment Service (FADS) fails to deploy some applications.	All	Deployments that contain SQL scripts fail when attempting to connect to ATP (Shared and Dedicated). The following error appears in the Deployment Details: "IO Error: Got minus one from a read call Error establishing connection with the database." **Note:** The deployment of SQL scripts is not supported on IBM AIX. **Solution:** Apply Patch 32645990.

6
Bugs Fixed in this Release

The chapter provides a table that summarizes the Oracle Forms and Oracle Reports bugs and issues fixed in this release.

Table 6-1 Bugs Fixed in Oracle Forms

Bug ID	Description
29028753	INTERMITTENT ORA-01756/REP-56048 WHEN USING PARAMETERS WITH SPACES IN 12C
28946457	THERE IS NO PROPERTY RELATED TO QUERY ARRAY SIZE
28928891	AUTO SKIP DOESN'T WORK CORRECTLY WHEN COPY AND PASTE
28648675	READINESS CHECK FAILS FOR FORMS UPGRADE STEP
28515432	AUTO-SKIP FAILS AT FIRST TIME INPUT MULTI-BYTE CHARACTORS IF EXECUTE_QUERY
28425035	FORMS SESSION HANGS AFTER EXIT FROM MENU ITEM
28224060	MISSING FONTS AT THE PROPERTY PALETTE OF ITEM UNDER FONT NAME LOV
28170106	FIELD VALUE GETS AUTOMATICALLY SELECTED DURING INPUT, USING AQ
28103538	WHEN USING WEBUTIL: WUC-24 DOWNLOADING WEBUTIL 12C DLLS
28044002	AUTO SKIP DOESN'T WORK CORRECTLY WHEN INPUT MULTIBYTE MORE THAN MAXIMUM LENGTH
27944496	FRM-41068 : ERROR IN SET_MENU_ITEM_PROPERTY
27880279	CHANGE RESTRICTIONS OF SET_ALERT_PROPERTY
27865002	ADF DOMAIN UPGRADE FAILS WHEN IT IS CONFIGURED FORMS&REPORTS ORACLEHOME
27819175	12C WEBUTIL CLIENT_GET_FILE_NAME USING MULTI-FILTER NO LONGER WORKS AS IN 6I
27539809	WEBUTIL_HOST.BLOCKING AND NONBLOCKING WITH BLOCKALLOWHEARTBEAT FREEZES FORMS
27353367	CHGHOST COMMAND FAILS WITH NULLPOINTEREXCEPTION
27291926	WHEN REMOVE A TOOLTIP AND RUN FORM ON THE WEB STILL CAN SEE A SMALL DOT
27226646	NOTE EXAMPLE IN SECTION "5.1.3 CONFIGURING OHS" IS INCORRECT FORMAT.
27211389	NOT ABLE TO GET PROPER VALUE AFTER DELETE/CLEAR LIST ITEM VALUE.
26996652	SAME BEHAVIOR FROM BUG 22724515 IN FORMS 12.2.1.3.0
26968496	ITEM WITH AUTOMATIC SKIP DOES NOT MOVE TO THE NEXT NAVIGABLE ITEM
26810846	OPMN REFERENCE IN FORMS DEPLOYMENT GUIDE 12C TO BE REMOVED.
26392419	FORM12C: UNICODE GARBLED WHEN INSERT INTO NVARCHAR2 BY WHEN-BUTTON-PRESSED
26189555	FORMS 12.2.1.2.0 ON WINDOWS 2012, HAVING PERFORMANCE ISSUE ON HEBREW DATA

Table 6-1 (Cont.) Bugs Fixed in Oracle Forms

Bug ID	Description
25829500	RAISE FORM_TRIGGER_FAILURE FROM POST QUERY ON PROCEDURE BASED DATABLOC 93652
25533512	EXTEND FORMS FSAL CONSOLE OUTPUT TO ASSIST DEBUGGING EFFORTS
25215010	FORMS LDAP RESOURCE ADMINISTRATION DOES NOT CONNECT VIA SSL
25031354	FORMS CURSOR POSITION RESET TO TOP WHEN MOUSE-CLICKS ON TAB SHEET
22739705	FRMXML2F CAUSES THE JVM TO CRASH FOR SOME FORMS IN WIN 2012 R2 X64
20308814	FOCUS LOST WHEN NAVIGATING OUTSIDE AND RETURN BACK TO THE FORMS WINDOW

Table 6-2 Bugs Fixed in Oracle Reports

Bug ID	Description
29836735	REP-56048 AFTER 12C UPGRADE WHEN DESFORMAT=RTF
27939769	RWWEBSERVICE WITH SSO ENABLED FAILS FOR GETJOBID (WORKS FOR BASIC EM REQUESTS)
27881909	FORMAT AXIS LABEL (Y FORMAT) AND FORMAT DATA LABELS DOES NOT WORK
27763841	PDF CREATED BY INFO STILL SHOWS ORACLE 11GR1 INSTEAD OF 12C
27238962	ENHANCED SUBSET PDF OUTPUT SHOWS SQUARED CHARACTER FOR CARRIAGE-RETURN
26552470	ADD SUPPORT FOR LRM(\U+200E) AND RLM(\U+200F) IN ORACLE REPORTS