

LOGIN

software

Matej Drageljević

Forms 12c - danas i sutra

Agenda

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Danas

Current release 12.2.1.4



Downloads are moved to e-delivery.

<https://edelivery.oracle.com>

New:

Oracle Forms Quarterly Patch Release (QPR) information (Doc ID 2834458.2)

Forms PSU information

Release Date	Updated	Forms Patch
19-Jul-2022	N/A	Patch 34316706
26-Apr-2022	N/A	Patch 34051375
09-Feb-2022	09-Mar-2022	Patch 33909764

Important:

- For Unix/Linux systems, it is required that the Forms executables are relinked
How to Relink Oracle Forms in Version 12c on Unix (Doc ID 2835065.1)
- If the Forms Standalone Launcher (FSAL) is used to run applications, the new frmsal.jar file from the patch (installed into ORACLE_HOME\forms\java) needs to be downloaded onto all user machines and replace the previous.
- If using Forms Application Deployment Services (FADS), a post-patch install step is required. Specifically, running the FADS "updateHostPort" command. Refer to the Installation Guide for details.

The QPRs serve as a new baseline version for reporting Oracle Forms issues to Oracle.



Patch 34316706: MERGE REQUEST ON TOP OF 12.2.1.4.0 FOR BUGS 34051375 32878968 33362978 33865599

Bugs Fixed by This Patch

21949179: APPS6: FORM CRASHES WHEN THERE IS AN ALERT MESSAGE IN CALLING FORM
 22961892: APPS6: FOCUS LOSS ISSUE WITH WINDOW SWITCHING WHILE OPENING 2ND FORM
 25611527: FRM-92091 ON SET_ITEM_PROPERTY (X_POS) ON IMAGE ITEM AFTER SCROLL
 29323296: FORMS12C DEFAULT WHERE/ORDER BY WITH CARRIAGE RETURN AFTER WHERE/ORDER BY QUERY FAILS WITH FRM-40505
 30229794: 'SRCLN' ARGUMENT TO ICSSULC() MUST BE CAST TO SIZE_T IF IT'S NOT ALREADY A SIZE_T
 30418565: FORMS LISTENER SERVLET NOT GENERATING EXPECTED HTTP HEADER
 30517090: PARAMETER "MAPFONTS" DOESN'T WORK WHEN USING WIN10 FOR CLIENT OS
 31225296: FADS DEPLOYMENT IS FAILING WHEN USING DBAS LONG CONNECT STRING IN TNSNAMES.ORA FILE
 31522541: FORM USING DBMS_AQ CRASHES WITH FRM-93652 ERROR
 31573174: FORM BUILDER PREFERENCES APPLICATION SERVER URL CANNOT IMPORT HOSTNAME LONGER THAN 64
 31621312: UNABLE TO SET A DESIRED AQ LISTENER PORT RANGE IN FORMS
 31737440: ADMIN CONSOLE/EM HANG ON LOGIN; REFERENCES TO UIFONTPROPERTYPERSISTENCEMANAGER
 32181938: FORMS FADS NOT ABLE TO PROCESS SQL SCRIPTS AGAINST AUTONOMOUS DATABASE
 32343504: WEBUTIL_HOST.BLOCKING WITH BLOCKALLOWHEARTBEAT FREEZES FORMS - NOTEPAD 2 TIMES
 32448427: INTERMITTENT FRM-93652 (CRASH) NAVIGATING VIA NEXT KEY (F7)
 32460115: JAVA CODE WRITTEN AGAINST JDAPI FAILS WHEN RUNNING WITH JDK 8U261 OR NEWER
 32490064: FORMS FADS FAILS TO DEPLOY WHEN MODULES ARE IN ROOT DIR AND PRESERVEDIR=TRUE
 32509607: ILLEGALARGUMENTEXCEPTION OCCURS WHEN TYPING JAPANESE(IME) WITH MULTI-LINE YES
 32575023: FRM-93652 INSERTING DATA INTO A VIEW
 32588390: FADS CONFIGURATION ISSUE NO KEYSTORE CREATED AFTER FADS_CONFIG.PY
 32632313: ITEM DOES NOT GET FOCUS WHEN RUN WITH FSAL MODE WITH JAVA 11,13 & 17
 32716213: FORM BUILDER CRASHES IF PASTING A SINGLE LINE STRING THAT APPROACHES 32767 INTO EDITOR
 32878968: APPS6: CANNOT OPEN URLS FROM FORMS IN EDGE BROWSER WITH JAVA 8U291
 32945689: FORMAT MASK WITH CASE INSENSITIVE OPTION THROWS ERROR FRM-40357
 33362978: WINDOW LOSING THE CONTORL OF SPECIFIC SCREEN
 33589702: MISSING SOME CODE AFTER FMB CONVERSION TO XML
 33666644: XML CONVERTER CRASHING WHEN CONVERTING XML TO FMB
 33768138: FRMWEB.EXE CRASHES WHEN A FORM IS REPEATEDLY OPENED AND CLOSED
 33836505: FORMS XML CONVERTER FAILS IN SOME CASES
 33845625: FIELD VALUES CHANGE TO #### WITH UTF8 AND "DATA LENGTH SEMANTICS" INSTEAD OF BEING TRUNCATED
 33865599: APPLICATION SUDDENLY BECOMES EXTREMELY SLOW
 33874951: READ_IMAGE_FILE NEEDS TO BE CALLED TWICE TO DISPLAY THE IMAGE
 33878830: INCORRECT REPORT STATUS RETURNED ON BI REPORT IF USER DOES NOT HAVE ADMIN PRIVILEGES
 34142432: FORMS DYNAMICALLY CREATED JNLP FILES DO NOT EXPIRE

* new frmsal.jar

Certification matrix

System: Windows 2022

Client: Windows 11 (Both development client (Builder) and server environment are available, but it can be used to develop and test applications only)

Java (Client - FSAL): 1.8.0_211+, 11.04+, 17.0.0+

Database: Oracle Database 19c Autonomous – ATP-D, ATP-S (Target DB for RCU and Application Data Access)

July-2022 : Autonomous Database supports Oracle JVM

Oracle Fusion Middleware Releases – 12c

Release	GA Date	Premier Support Ends	Extended Support Ends	Sustaining Support Ends
Fusion Middleware 12c (12.1.x) ¹	Dec 2011 – Feb 2015	Dec 2017	Dec 2019 ²	Indefinite
Fusion Middleware 12c (12.2.x) ³	Oct 2015 – Apr 2016	Dec 2025 ^{4,5}	Dec 2027 ⁵	Indefinite

Oracle Cloud -> Marketplace -> Oracle Forms Services

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Type
Image

Version
12.2.1.4_210423 (4... ▾)

Compartment
Login ▾
virgacloud (root)/Login

Software price per OCPU
BYOL
(Bring your own license)

There are additional fees for the infrastructure usage. ⓘ

I have reviewed and accept the [Oracle standard Terms and Restrictions](#).

Launch Instance

Reminder: Patch the instance once installed.

Version Details

Version: 2.3

Release Date: Apr 13, 2021, 00:00 UTC

Products and versions in each VM version:

12.2.1.4.0

- Oracle Linux 7.9
- Oracle JDK 8u281
- Oracle Database EE 19.3.0 (when choosing local DB option)
- Oracle WebLogic Server 12.2.1.4.0
- Oracle Forms and Reports 12.2.1.4.0 (Reports *not* configured in WLS Domain)
- Oracle SQL Developer 20.4.1.407.0006

12.2.1.3.0

- Oracle Linux 7.5
- Oracle JDK 8u212
- Oracle Database EE 18.3.0
- Oracle WebLogic Server 12.2.1.3.0
- Oracle Forms and Reports 12.2.1.3.0
- Oracle SQLDeveloper 17.4.1.054.0712

Required permissions:

- Create new Compute instances
- Create new Virtual Cloud Networks or select an existing one
- Create a Database Cloud Service instance or connect to an existing instance as the SYS user (only required if planning to use DBCS)
- Create an Autonomous Database instance or connect to an existing instance as the admin user (only required if planning to use ADB)
- Create an Identity Dynamic Group and Policy or modify existing ones (only required if planning to use ADB)

Database options: local database, DBCS or Autonomous database

Oracle Reports

Oracle Reports is *not* configured in this environment, however the software is installed.

Because Reports is deprecated, it is recommended that Oracle BI-Publisher or Analytics Cloud Service be used for reporting. The use of Reports in this environment is not certified and therefore support may be limited. If using Reports in this environment is desired, the existing WLS domain must be extended to add and configure it or a new domain must be created.

Reports

Oracle Reports Statement of Direction

<https://www.oracle.com/in/a/otn/docs/oracle-reports-sod.pdf>

Oracle Reports is available in Fusion Middleware Releases 12.2.x for which 12.2.1.3.0 is under premier support till December 2021, and for which 12.2.1.4 is under premier support till December 2023.

Oracle Reports is no longer under active development which means that there are no plans to add any additional functionality to the product. Only bug fixes may be made available as per the error correction policy listed in the Life Time Support Policy. Customers who seek an alternative to Oracle Reports should consider using Oracle BI Publisher (or Analytics Publisher), however there is no upgrade or migration assistance offered for moving from Oracle Reports to Oracle BI Publisher.

Oracle continues to evaluate the technical feasibility of making the existing Oracle Reports available in future Fusion Middleware releases beyond 12.2.1.4.0. If feasible, Oracle Reports will not offer any new functionality and only bugs fixes may be made available as for the currently supported 12.2.x versions.

Oracle Reports is no longer under active development which means that there are no plans to add any additional functionality to the product. Only bug fixes may be made available as per the error correction policy listed in the Life Time Support Policy. Customers who seek an alternative to Oracle Reports should consider using Oracle BI Publisher (or Analytics Publisher), however there is no upgrade or migration assistance offered for moving from Oracle Reports to Oracle BI Publisher.

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Support note:

Reports 12c Relevant Notes and Links Index (Doc ID 2073820.1)

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Forms 12c New Features Rev. 4

<https://www.oracle.com/a/tech/docs/oracleforms-1221-newfeatures.pdf>

Deployment options

Java Applet

Embedded JNLP

Java Web Start

Forms Standalone Launcher (FSAL) Rev. 3

<https://www.oracle.com/a/tech/docs/fsal-usage-12214.pdf>

Download:

<http://yourserver:port/forms/html/fsal.htm>

```
java -jar frmsal.jar <arguments>
```

Arguments:

-url *URL*

-t *time*

-showConfig *boolean*

Examples:

```
java -Djava.io.tmpdir=D:%USERNAME% -jar frmsal.jar -url https://yourserver:port/forms/frmservlet?config=standaloneapp
```

```
java -Djava.net.useSystemProxies=true -jar frmsal.jar -url https://yourserver:port/forms/frmservlet?config=standaloneapp
```

```
java -Djavax.net.debug=all -jar frmsal.jar -url https://yourserver:port/forms/frmservlet?config=standaloneapp
```

FSAL client deployment

Launch4j - Cross-platform Java executable wrapper
<https://launch4j.sourceforge.net/>



Inno Setup Compiler - Inno Setup is a free installer for Windows programs
<https://jrsoftware.org/isinfo.php>



Java (1.8 JRE, 11 or 17 JDK - Compressed Archive)
<https://www.oracle.com/java/technologies/downloads/#jre8-windows>
<https://www.oracle.com/java/technologies/downloads/#java11-windows>
<https://www.oracle.com/java/technologies/downloads/#jdk17-windows>



Additional files

frmsal.jar - <java/bin/> folder

Bitmap image - launch4j splash screen image



Icon file - icon for exe file



Gif file - forms application icon (replace java icon)



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Launch4j – xml file

```
<?xml version="1.0" encoding="UTF-8"?>
<launch4jConfig>
  <dontWrapJar>true</dontWrapJar>
  <headerType>gui</headerType>
  <jar>.\jre\bin\frmsal12214.jar</jar>
  <outfile>C:\HROUG 2022\hroug2022.exe</outfile>
  <errTitle></errTitle>
  <cmdLine>start .\jre\bin\javaw -jar .\jre\bin\frmsal12214.jar -url „https://<your_server>/forms/frmservlet?config=standaloneapp” -t 60000</cmdLine>
  <chdir>.</chdir>
  <priority>normal</priority>
  <downloadUrl>http://java.com/download</downloadUrl>
  <supportUrl></supportUrl>
  <stayAlive>>false</stayAlive>
  <restartOnCrash>>false</restartOnCrash>
  <manifest></manifest>
  <icon>C:\HROUG 2022\hroug_logo.ico</icon>
  <jre>
    <path>.\jre</path>
    <bundledJre64Bit>>false</bundledJre64Bit>
    <bundledJreAsFallback>>false</bundledJreAsFallback>
    <minVersion></minVersion>
    <maxVersion></maxVersion>
    <jdkPreference>preferJre</jdkPreference>
    <runtimeBits>32</runtimeBits>
  </jre>
  <splash>
    <file>C:\HROUG 2022\hroug.bmp</file>
    <waitForWindow>true</waitForWindow>
    <timeout>40</timeout>
    <timeoutErr>true</timeoutErr>
  </splash>
  <versionInfo>
    <fileVersion>22.9.0.0</fileVersion>
    <txtFileVersion>22.9.0.0</txtFileVersion>
    <fileDescription>hroug 2022</fileDescription>
    <copyright>Login d.o.o.</copyright>
    <productVersion>22.9.0.0</productVersion>
    <txtProductVersion>22.9.0.0</txtProductVersion>
    <productName>hroug 2022</productName>
    <companyName>Login d.o.o, Rijeka, Hrvatska</companyName>
    <internalName>hHroug 2022</internalName>
    <originalFilename>hroug2022.exe</originalFilename>
    <trademarks></trademarks>
    <language>ENGLISH_US</language>
  </versionInfo>
</launch4jConfig>
```

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InnoSetup Compiler

```
#define MyAppVersion "22.10"  
#define MyAppPublisher "Login"  
#define MyAppURL "https://www.login.hr/"  
#define MyAppExeName "hroug2022.exe"
```

[Setup]

```
AppId={{BA6856F6-43CF-4B85-950C-B3BE4B3AFEB7}}  
AppName={#MyAppName}  
AppVersion={#MyAppVersion}  
AppPublisher={#MyAppPublisher}  
AppPublisherURL={#MyAppURL}  
AppSupportURL={#MyAppURL}  
AppUpdatesURL={#MyAppURL}  
DefaultDirName={pf}\{#MyAppName}  
DefaultGroupName=hroug2022  
DisableProgramGroupPage=yes  
OutputDir=C:\HROUG2022  
OutputBaseFilename=hroug2022inst  
SetupIconFile=C:\hroug2022\hroug_logo.ico  
UninstallDisplayIcon={app}\{#MyAppExeName}  
Compression=lzma  
SolidCompression=yes  
LanguageDetectionMethod=none  
WizardStyle=modern
```

[Languages]

```
Name: "croatian"; MessagesFile: "compiler:Languages\Croatian.isl"; InfoBeforeFile: "C:\hroug2022\infobefore_cro.txt"
```

[Tasks]

```
Name: "desktopicon"; Description: "{cm:CreateDesktopIcon}"; GroupDescription: "{cm:AdditionalIcons}"; Flags:
```

[Files]

```
Source: "C:\hroug2022\jre\*"; DestDir: "{app}\jre"; Flags: ignoreversion recursesubdirs createallsubdirs  
Source: "C:\hroug2022\hroug2022.exe"; DestDir: "{app}"; Flags: ignoreversion
```

[Icons]

```
Name: "{commonprograms}\Hroug2022\{#MyAppName}"; Filename: "{app}\{#MyAppExeName}"  
Name: "{commondesktop}\{#MyAppName}"; Filename: "{app}\{#MyAppExeName}"; Tasks: desktopicon
```

[Run]

```
Filename: "{app}\{#MyAppExeName}"; Description: "{cm:LaunchProgram,{#StringChange(MyAppName, '&', '&&')}}"; Flags: nowait postinstall skipifsilent
```

[UninstallDelete]

```
Type: filesandordirs; Name: "{pf}\{#MyAppName}"  
Type: files; Name: "{app}\*";  
Type: filesandordirs; Name: "{app}"
```

> This PC > Local Disk (C:) > Program Files (x86) > HROUG 2022 Demo >



jre



hroug2022.exe



unins000.dat



unins000.exe

> This PC > Local Disk (C:) > Program Files (x86) > HROUG 2022 Demo > jre

Name	Date modified	Type	Size
bin	2.10.2022. 16:29	File folder	
legal	2.10.2022. 16:29	File folder	
lib	2.10.2022. 16:29	File folder	
COPYRIGHT	26.4.2022. 22:19	XMLSpy.	4 KB
LICENSE	26.4.2022. 22:19	XMLSpy.	1 KB
README.txt	26.4.2022. 22:19	Text Document	1 KB
release	26.4.2022. 22:19	XMLSpy.	1 KB
THIRDPARTYLICENSEREADME.txt	26.4.2022. 22:19	Text Document	1 KB
THIRDPARTYLICENSEREADME-JAVAFX.txt	10.3.2022. 10:16	Text Document	1 KB
Welcome.html	26.4.2022. 22:19	Chrome HTML Do...	1 KB

Demo

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Oracle Java SE Support Roadmap**†				
Release	GA Date	Premier Support Until	Extended Support Until	Sustaining Support
7 (LTS)	July 2011	July 2019	July 2022*****	Indefinite
8 (LTS)**	March 2014	March 2022	December 2030*****	Indefinite
9 (non-LTS)	September 2017	March 2018	Not Available	Indefinite
10 (non-LTS)	March 2018	September 2018	Not Available	Indefinite
11 (LTS)	September 2018	September 2023	September 2026	Indefinite
12 (non-LTS)	March 2019	September 2019	Not Available	Indefinite
13 (non-LTS)	September 2019	March 2020	Not Available	Indefinite
14 (non-LTS)	March 2020	September 2020	Not Available	Indefinite
15 (non-LTS)	September 2020	March 2021	Not Available	Indefinite
16 (non-LTS)	March 2021	September 2021	Not Available	Indefinite
17 (LTS)	September 2021	September 2026*****	September 2029*****	Indefinite
18 (non-LTS)	March 2022	September 2022	Not Available	Indefinite
19 (non-LTS)***	September 2022	March 2023	Not Available	Indefinite
20 (non-LTS)***	March 2023	September 2023	Not Available	Indefinite
21 (LTS)***	September 2023	September 2028	September 2031	Indefinite

Q1. Does a perpetual Oracle Forms license that requires Java SE either on server and client (FSAL) side covers using Java SE for the purpose of running ISV application built with Oracle Forms ?

A1. Any customer using a properly licensed and supported product version of an Oracle product that requires Java (either on the client or server) is entitled to use Java while all of the following remain true:

- Own proper licensing for the dependent technology (e.g. Oracle Forms).
- The dependent product is still entitled to Error Correction support.
- Customer (license owner) poses a current support agreement for the product with the dependency.

It is important to note that these entitlements only extend to the use of the Oracle products license with the dependency. The Java entitlements included as part of this dependency entitlement to do not extend to it use for any other purposes. For such purposes, an separate Java license and Support may be required.

This is explained in My Oracle Support Note 1557737.1 - Support Entitlement for Java SE When Used As Part of Another Oracle Product

Q2. If the licensed product is currently supported product and if the customer is no longer entitled to get updates for the Oracle Forms product, he is also no longer entitled to get the Java updates for it?

A2. Correct - see my comment in **A1.** above.

Q3. If the customer is willing to continue using this out-of-support Forms product without applying further updates does this mean the customer is entitled (perpetually) to use Java SE in one of the versions released before the dependent product came out of support ?

A3. Once support ends for the dependent product, entitlements to use Java in this manner also end.

This is explained in My Oracle Support Note 1557737.1 - Support Entitlement for Java SE When Used As Part of Another Oracle Product

Q4. Is the ISV allowed to pack the FSAL launcher and the client side Java SE in a self-extracting archive and to publish such an installation package on a web server (internet/intranet) or a file-server for the sole purpose of simplifying the distribution and the installation of the client-side FSAL and Java SE on client computer machines ?

A4. Yes, as long as that download is only for the purpose of being used against the ISV's own licensed and supported installation of Forms. As mentioned, Java (client or server) can only be used for the purpose of running the Forms applications and the server processes that host it.

Q5. Does it change something in relation to previously asked questions if the Weblogic Forms server is running in OCI inside an IaaS compute ?

A5. No. Same restrictions apply.

Q6. Does it change something in relation to previously asked questions if the Weblogic Forms server is running in OCI inside an IaaS compute ?

A6. No. Same restrictions apply.

Q7. If the Forms application contains non Oracle Java Beans (PJC) and run on Java SE does it change something or still hold true that the licensed dependent product covers for using the Java SE on client side ?

A7. The running/use of the Java Beans are supported while run within a Forms application. However, the development of them is separate and not covered under these terms, as far as I know.

Q8. Are there any plans to change this dependent product Java SE coverage policy in the near future ? After 2025 ?

A8. No, not at this time.

Q9. Please confirm and clarify the following scenario:

When the Oracle Forms licence is purchased for the first time, every customer is obliged to purchase at least a 1-year support agreement for the dependent Forms product, and this support agreement can be afterwards renewed on a yearly basis.

A9. During the period the support is active the customer is entitled to download, use and upgrade both Forms and Java SE certified with the dependent product.

Q10. If the customer later on decides not to renew the support contract once it expires is the customer allowed to continue using the Java SE with the dependent product ?

In that case both the dependent Forms product and the Java SE would remain frozen with Java autoupdate feature disabled at one of the release version that were released before the last payed support contract expired ?

A10. Licensing relates to the entitlements to "use" the software. Support relates to the entitlements to:

- Request assistance from Oracle Support.
- Report product defects.
- Download new, install, or upgrade software.
- Download product patches, including Security Updates.

Technically, once Support has ended it is possible to continue running the software.

At that time, downloading any newer version would be a violation of the terms of use. Further, eventually the software will stop working or at least stop working in a reliable manner for one of numerous reasons (e.g. not compatible on a particular new operating system).

Doing this is extremely risky both because of potential security issues it may expose or the risk of instability.

If you have a contract that allows you to use EBS you can download, without needing a separate Java SE Subscription, the version of the JDK or JRE needed by the version of EBS that you are covered by your contract. This entitlement allows you to use that version of the JDK or JRE ONLY for running the licensed version of EBS. You cannot use that Java Runtime to run other third party or home-grown applications.

If you have support for EBS you can get updates to EBS and updates to the Java Runtime that EBS needs. The Java SE Runtime upgrades are subject to the same restriction. Only to be used to run EBS.

If you let your support contract with EBS expire, then you won't be able to receive updates to EBS nor would you be entitled to download future updates of the Java Runtime. Since EBS allows you to continue using the last EBS version that you downloaded you can continue using the corresponding last update of the JDK or JRE that you downloaded only for the purpose of running that version of EBS. You should, at this point disable auto-update of the JRE. The system will not disable auto-update for you. It is up to the user to do so.

Using an out-of-date Java Runtime (or an out-of-date EBS version) is strongly discouraged as you would now be running unpatched versions that will contain security vulnerabilities fixed in later updates. You can expect malicious users to try to reverse engineer security vulnerabilities by studying

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Sutra...

Forms 12.2.1.19

Release date at the end of 2022.

Software upgrade is only expected to be supported from 12.2.1.3 or 12.2.1.4

12.2.1.19 will be an update release to the 12c family. A "minor" release. Update releases focus on bug fixes although may contain some new features. 14c is a new product family; a new "major" release. Major releases typically contain significant enhancements and new features

Fusion Middleware Statement of Direction

The next planned release of Oracle Fusion Middleware is Oracle Fusion Middleware 14.1.2, which will be built on updated versions of WebLogic Server and Coherence 14.1.2, with features and enhancements in areas such as:

- the latest Java technologies -JDK 11 & 17 runtime, Jakarta EE 8 and GraalVM;
- cloud native application development and deployment, including alignment with Cloud Native Computing Foundation (CNCF) recommended technologies;
- security and compliance enhancements to address modern security and regulatory requirements; and
- interoperability in hybrid cloud and multi-cloud environments

Middleware products planned for inclusion in 14.1.2 are:

WebLogic Server, Coherence and Oracle HTTP Server, JDeveloper and ADF, SOA Suite and BPM Suite, WebCenter Portal, WebCenter Content, and WebCenter Sites, **Forms and Reports**, Oracle Data Integrator and Enterprise Data Quality, GoldenGate Foundation Suite

As Fusion Middleware 14.1.2 is a major release for the suite, Oracle intends that customers will be able to upgrade to 14.1.2 when it is released and have the standard five (5) years of Premier Support and three (3) years of Extended Support.

Forms 14.1.2

Release date at the end of 2023.

Oracle Forms Statement of Direction

New releases are planned to include some of the following enhancements, as well as others. Which new features may be included will vary depending on market demand, feasibility to deliver, and Oracle business decisions. Here are a few examples of possible improvements:

- REST support for accessing data
- New user interface (UI) improvements
- Design-time productivity improvements
- Performance improvements
- New and enhanced object properties
- Forms Standalone Launcher improvements
- Administration improvements (Fusion Middleware Control)
- New and improved integration with various Oracle products and technologies
- Enhanced security features
- New configuration options
- Support for new Java versions
- Support for new operating systems
- Improved provisioning options of Forms in Oracle Cloud

Share your ideas:

<https://community.oracle.com/tech/developers/discussion/4336803/oracle-forms-new-feature-ideas>

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