

IBM TRIRIGA Application Platform  
Version 3 Release 8.0.4

*Readme*



**Note**

Before using this information and the product it supports, read the information in “Notices” on page 11.

This edition applies to version 3, release 8, modification 0.4 of IBM TRIRIGA Application Platform and to all subsequent releases and modifications until otherwise indicated in new editions.

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# Contents

<b>README FILE FOR IBM TRIRIGA APPLICATION PLATFORM 3.8.0.4 FIX PACK ..</b>	<b>2</b>
What's New in This Release .....	3
Prerequisites and Supported Products .....	3
IBM TRIRIGA Supported Versions and IBM TRIRIGA Application Platform Compatibility Matrix.....	3
Installing the IBM TRIRIGA Application Platform 3.8.0.4 Fix Pack .....	4
Important Information .....	6
Known Limitations.....	6
Changes .....	7
<b>RELATED DOCUMENTATION .....</b>	<b>10</b>
<b>SUPPORT .....</b>	<b>10</b>
<b>NOTICES.....</b>	<b>11</b>
Privacy Policy Considerations.....	12
Trademarks .....	12

# Readme File for IBM TRIRIGA Application Platform 3.8.0.4 Fix Pack

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This fix pack updates the IBM® TRIRIGA® Application Platform product.

These release notes include the following:

- An overview of changes
- Many of the descriptions include an internal reference number (Tri-nnnnnn, IJnnnnn, IVnnnnn, and/or RFE-nnnnnn)



**Note** - The IBM TRIRIGA wiki information, formerly located on DeveloperWorks, is migrated to [IBM Docs for IBM TRIRIGA Application Platform 3.8](#). For more information, see the [IBM TRIRIGA Release Information](#) page on IBM Support.

## What's New in This Release

IBM TRIRIGA Application Platform 3.8.0.4 continues to add valuable functionality, fix defects, and reduce the effort necessary for new and existing customers to implement our products.

## Prerequisites and Supported Products

To install this fix pack, you must have IBM TRIRIGA Application Platform 3.8 installed.

## IBM TRIRIGA Supported Versions and IBM TRIRIGA Application Platform Compatibility Matrix

The *IBM TRIRIGA Supported Versions* lists information related to IBM TRIRIGA's supported products and platform and relays information about end-of-life plans for such software. The *IBM TRIRIGA Application Platform Compatibility Matrix* lists supported operating systems, databases, and related details for and about the IBM TRIRIGA Application Platform and relays information about end-of-life plans for such software. The *IBM TRIRIGA Supported Versions* and the *IBM TRIRIGA Application Platform Compatibility Matrix* may change over time. The *IBM TRIRIGA Supported Versions* and the *IBM TRIRIGA Application Platform Compatibility Matrix* can be found on IBM Support at <https://www.ibm.com/support/pages/node/1283650>.

**IMPORTANT NOTICES:** IBM no longer supports IBM Tivoli Directory Integrator. Migrate your TDI assemblies to a supported technology, such as Pentaho. As of version 3.6.1.2, the IBM TRIRIGA Application Platform no longer ships with or supports TDI assemblies.

As communicated in the IBM TRIRIGA Application Platform 3.6.1.2 Compatibility Matrix, IBM does not support Oracle WebLogic with IBM TRIRIGA Application Platform version 3.6.1.2 and later. Please see the Compatibility Matrix for the full listing of compatible products and versions.

# Installing the IBM TRIRIGA Application Platform 3.8.0.4 Fix Pack

To install the TRIRIGA Application Platform 3.8.0.4 fix pack, refer to the following general instructions.

## Procedure

1. Ensure that no database configuration changes are pending and there are no entries in the WF\_EVENT or EF\_QUEUE tables. You can check the status of these tables by running the following SQL statements: `select count(*) from WF_EVENT` and `select count(*) from EF_QUEUE`.
2. For IBM WebSphere® Application Server Liberty Core profile, stop all application servers before continuing the installation.
3. For IBM WebSphere Application Server, confirm that this server is started and stop all other application servers.
4. Take a backup of the database and the existing TRIRIGA install directory for each server. If necessary, you can use the backups to revert the system.
5. Download the 3.8.0-TIV-TAP-FP004 file.
6. Extract the file. You can extract the fix pack file into any directory.
7. Run one of following patch executable files: `fixpack_tririga_v3.8.0.4_Windows.exe`, `fixpack_tririga_v3.8.0.4_Linux.bin`, or `fixpack_tririga_v3.8.0.4_AIX.bin`.
8. In the Introduction pane, select **Next** or **Enter**.
9. In the license agreement, accept the terms and select **Next** or **Enter**.
10. Choose the directory where IBM TRIRIGA is installed. For example, the following directories:  
`c:\ibm\tririga\` or `/opt/ibm/tririga/`.
11. Review the information and select **Next** or **Enter**.
12. The fix pack process patches the WAR file and runs any platform database fix pack scripts.



**Note** - In the patch folder for the 3.8.0.4 fix pack, when the fix pack installer backs up the `ibm-tririga.war` file, the backup `.war` file appears as the `ibs-tririga.war.bak` file.

13. For WebSphere Application Server Liberty Core profile, the WAR file deploys and the cache directories are removed. You must restart Liberty.
14. For WebSphere Application Server, the WAR file redeploys and starts automatically. If it fails, you need to manually redeploy the WAR file. The WAR file is located in one of the following TRIRIGA install root directories: `c:\ibm\tririga\ibm-tririga.war` or `/opt/ibm/tririga/ibm-tririga.war`. Refer to IBM's instructions for deploying a `.war` application.
15. For WebSphere Application Server only, a manual update might be needed to the WebSphere JVM arguments to enable the log4j2 feature logging. When you go to the TRIRIGA Administration Console and click the Error Logs tab, if the logs are not displayed correctly, you must complete the following steps to manually update the WebSphere JVM arguments:
  - a. Stop the TRIRIGA WebSphere Enterprise Application.
  - b. Manually update the Generic JVM arguments to include the following line:

```
-Dlog4j2.configurationFile=file:<INSTALLATION  
PATH>/config/log4j2.xml
```

where `<INSTALLATION PATH>` is the full path where TRIRIGA is installed.

The path to access the Generic JVM arguments is as follows:

**Enterprise Applications** > `<IBM-TRIRIGA application name>` > **Target specific**

**application status** > <server name> > **Java and Process Management** > **Process definition** > **Java Virtual Machine**  
where <IBM-TRIRIGA application name> is the TRIRIGA WebSphere Enterprise Application name and <server name> is the server name.

- c. Apply and Start the TRIRIGA WebSphere Enterprise Application.

**Note:** If you don't update the WebSphere JVM arguments correctly, the TRIRIGA logging might not work properly. To verify this, go to **TRIRIGA Administration Console** > **Error Logging**. If you don't see any logs, the manual update has not been done properly.

16. After upgrading to log4j2, the config/log4j.xml file is no longer used to configure log4j. Use the new log4j2.xml file in the config directory. If you have custom log4j settings, you can review and update the settings accordingly. For more information, see the [log4j documentation](#).
17. Delete the log4j-boot.jar file manually from the lib directory as it is no longer used by the TRIRIGA platform.
18. To ensure tooltips in TreeGrid (Gantt) are properly translated for non-English users, copy the contents from the /userfiles/Translations/TreeGrid/3.6.1 folder to the /userfiles/Translations/TreeGrid/4.1 folder.

#### What to Do Next

After the fix pack install completes, check the platform release in the IBM TRIRIGA Administrator Console. Verify that the fix pack you just installed is listed.

## Important Information

The following item is an important information concerning this release.

Area of Impact	Description
Hierarchy Objects	The new <code>CACHE_LOAD_SIZE_FOR_ORACLE</code> property must be added in <code>TRIRIGAWEB.properties</code> and must be set to the value of <code>TREE_PAGING_SIZE</code> . It must be consistent across all your servers. After all servers are upgraded with the fix pack, the <code>CACHE_LOAD_SIZE_FOR_ORACLE</code> property can be changed but must always be the same across all your servers and must be larger than the <code>TREE_PAGING_SIZE</code> . (Tri-94520)

## Known Limitations

The following known limitation concerning the IBM TRIRIGA Application Platform is in this release.

Area of Impact	Description
Logging	<p>There is a known issue with shipping TRIRIGA log4j2 configuration file that resides in the <code>&lt;ServerRoot&gt;/config</code> directory of every TRIRIGA application server. This is for any TRIRIGA release that has log4j2 and not log4j, which includes 3.6.1.4 and later versions, 3.7.0.1 and later versions, 3.8.0.1 and later versions, 4.0.2 and later versions, and any new releases. The planned fix should be available in version 4.6.</p> <p>Known limitation: If a log file rolls automatically because of the size, which by default now is set to 10 MB, there is a potential for the log file to be overwritten instead of creating a new file. This can be resolved by updating the <code>log4j2.xml</code> on every application server.</p> <p>For every <code>RollingRandomAccessFile</code> in the <code>log4j2.xml</code> (as shipping there are 12)</p> <ol style="list-style-type: none"><li>1. Add <code>_HH-mm</code> to the <code>filePattern</code>, this ensures the file will not be overwritten.</li><li>2. Change the Policies -&gt; <code>SizeBasedTriggeringPolicy</code> update the size to 100 MB, this increases the file size.</li></ol> <p>For example, update to the "SERVER" Rolling Random Access File entry would look as follows:</p> <pre>&lt;RollingRandomAccessFile name="SERVER"   filename: "c:/TRIRIGA/log/server.log"   filePattern="c:/TRIRIGA/log/server-%d{yyyy-MM-dd_HH-mm}.log"&gt; &lt;PatternLayout&gt; &lt;pattern&gt;%d %-5p [%c] (%t) %m%n&lt;/pattern&gt; &lt;/PatternLayout&gt; &lt;Policies&gt; &lt;TimeBasedTriggeringPolicy interval="1440" modulate="true" /&gt; &lt;SizeBasedTriggeringPolicy size="100 MB"/&gt; &lt;/Policies&gt; &lt;/RollingRandomAccessFile&gt;</pre> <p>(TRI-91799-IJ47591)</p>



# Changes

The following changes to the IBM TRIRIGA Application Platform are in this release:



**Note** - The issues related to Hierarchy Objects that are listed in the following table have been resolved for Oracle environments only. DB2 and SQL Server environments are not affected by these issues.

Area of Change	Description
Hierarchy Objects	Users can see child records under the Includes tab for parent records that are beyond the tree paging size. (Tri-92276-IJ46706)
Hierarchy Objects	Improvements have been made in terms of minimizing hierarchy rebuilds after creating or updating hierarchy nodes. (Tri-92590-IJ46321)
Hierarchy Objects	In multi-server environment, while performing cut and paste operation on hierarchy records which is in cache of one server but not on other servers, no warning is now displayed in the server logs and operation is successful. (Tri-92626)
Hierarchy Objects	Users can now perform cut and paste operation under Document Manager for the nodes that are not in cache. This issue was observed only in the Oracle environments. (Tri-93903)
Hierarchy Objects	Non-admin users are now able to access all records including the records that are not present in the hierarchy tree. (Tri-92270-IJ46403)
Hierarchy Objects	Users can now perform the copy-paste operation under Document Manager irrespective of whether the node or parents are in a cache or not. (Tri-93737)
Hierarchy Objects	When a user creates a hierarchy record under a parent record which is not in cache, the parent-child relationship should be created for the new record. (Tri-93537)
Hierarchy Objects	In a multi-server environment, on the System tab, while updating the Geography/Organization value of a hierarchy record that is in cache of one server but not in the cache of other servers, the warning to rebuild the tree is no longer displayed in the server logs and the operation is successful. (Tri-94133)
Hierarchy Objects	Users can now perform the reparenting operation irrespective of records in the IBS_SPEC_TREE table. (Tri-93772)
Hierarchy Objects	The document hierarchy cache for Oracle will not make database calls to get child document nodes because there are no child documents. (Tri-92493-IJ47128)

Area of Change	Description
Hierarchy Objects	When reparenting a record in a server, a warning to rebuild the cache will not be displayed in the logs of the other servers where the record is not in cache. (Tri-92620)
Integration Object	Any invalid API request will return HTTP 404 response and will not cause StackOverflowException. (Tri-89345-IJ34683)
Locations	In Location Hierarchy - Graphics Section, now you can read Menu Buttons by using NVDA, JAWS without reading Blank. (Tri-90726-IJ29384)
Login	TRIRIGA will now handle permission errors caused due to OS level directory permissions at runtime for UX view files that are in the userfiles/ux directory in filesystem. (Tri-89371-IJ44457)
Login Page	An issue where a delay might occur when loading the username and password fields on the login page has been fixed. (Tri-89364-IJ44251)
Object Migration	The processing of the object label cache has been modified to no longer use the sub-query of the My Profile table. This was causing Object Migration issues in environments with many users. (TRI-91670)
Perceptive Apps	Only one 'JSESSIONID' is created while attempting to log in the request through OSLC sign-on. (Tri-92908-IJ45523)
Query and forms	Resolved an issue where modal pop-up windows on smaller forms were unusable due to scroll and sizing limitations. Note: Users might have to drag the modal pop-up window to completely see the footer pagination controls on certain queries. (Tri-92913-IJ45129)
Record Runtime	You can now switch between tab sections in a Multi Tab window. (Tri-92919-IJ44389)
Reporting	Resolved an issue with exporting the query in Excel format. Now, the "One moment please." message will be displayed until the Excel document is downloaded. (Tri-90573-IJ40349)
Reporting	After applying Secondary group by properties, you will be able to run the reports successfully. (Tri-91257-IJ40289)
Reporting	Radio buttons will no longer be displayed on the sum footer in the form query and modals. (Tri-90253-IJ41196)
UX Framework	In the Reserve Perceptive App, if a selected building has more than 50 spaces, then, on clicking search, it will load the first 50 spaces of the building. On clicking "Check More", the next 50 spaces will be loaded. (Tri-90562)

Area of Change	Description
Security	server.xml has been updated to use servlet-3.1 for the WebSphere Liberty profile. (Tri-89418)
Security	Platform has been upgraded to the latest available version of the Spring framework. (Tri - 89220)
Security	cxf-core and its child jar files have been upgraded. (Tri-93317)
Workflow Builder	Resolved an issue where occasionally the expected tree structure in a workflow modify metadata task named 'Reset Meta-data' was not displayed after clicking the binocular icon. (Tri-93745-IJ39071)
Workflow Runtime	Action items are now generated even if the 'workflow instance save threshold' is exceeded or 'workflow instances' is set to Never Save. (Tri-89337-IJ32259)

## Related Documentation

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The IBM TRIRIGA documentation is at <https://www.ibm.com/docs/en/tririga> and the IBM TRIRIGA Application Platform documentation is at <https://www.ibm.com/docs/en/tap>. The documentation is available online in topics or as downloadable PDF files.

Additional documentation, previously available in the IBM TRIRIGA wiki, is available on [IBM TRIRIGA Application Platform 3.8](#). For more information, see the [IBM TRIRIGA Release Information](#) page on IBM Support.

## Support

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IBM Software Support provides assistance with product defects, answering FAQs, and performing rediscovery. View the IBM Software Support site at [www.ibm.com/support](http://www.ibm.com/support).

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