

IBM TRIRIGA Application Platform
Version 4 Release 3.1

Readme



Note

Before using this information and the product it supports, read the information in “Notices” on page 8.

This edition applies to version 4, release 3, modification 1 of IBM TRIRIGA Application Platform and to all subsequent releases and modifications until otherwise indicated in new editions.

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Readme File for IBM TRIRIGA Application Platform 4.3.1 Fix Pack

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

These release notes include the following:

- An overview of changes
- Technology preview
- 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 4.3.1 continues to add valuable functionality, fix defects, and reduce the effort necessary for new and existing customers to implement our products.

Technology Preview

Technology previews allow customers early access to new capabilities. These optional features can be enabled even in a production system if required. While running the system with a technology preview enabled, most issues will follow the standard support process. Any issue related specifically to a technology preview feature should be submitted as ideas in Aha rather than standard support tickets. <https://www.ibm.com/support/pages/node/6438917>

IBM TRIRIGA Application Platform 4.3.1 includes a technology preview of updated carbon styling for TRIRIGA Foundation Forms. This feature applies new CSS overrides to all foundation forms in the system and provides the following updates:

- Form page title and state actions
- New page spinner
- Updated tabs
- Section header and section actions
- Styling updates for all field types
- New field action icons
- New box shadow for dialog pop-ups
- New label and field alignment
- Field labels wrap and ellipses
- Side-by-side sections collapse to a single column
- At smaller breakpoints, fields within sections stack to a single column

You can enable this feature by turning ON the 'Runtime UX Enhancement' flag on the Admin Console > System Info tab. You can also enable the feature by adding the following line to TRIRIGAWEB.properties: ENHANCED_RECORD_RENDER_MODE=TRUE.

To customize the Enhanced Form CSS, click Tools > Administration > Platform CSS Configuration. Under the application triPlatformRecord, download the file /css/custom.css. Edit or add CSS rules to the file and then, upload the edited file to the same record.



Note - Ensure that you back up the original file before making any changes.

Known technology preview limitations

1. The Enhanced Form Rendering technology preview uses the css :has() pseudo-class in some selectors. This CSS feature is supported in Firefox versions 103-111 by enabling the layout.css.has-selector.enabled flag.
2. When uploading a new custom.css under the application triPlatformRecord, the following attention message is displayed: "A change was saved. A revision needs to be created for the Web View." This is expected behavior and no additional action is needed.
3. The Form CSS builds on the color pallet of the tri-carbon-style-pack that has been the default pallet for new installations of TRIRIGA since version 3.8. For the CSS overrides to harmonize with the rest of the TRIRIGA pallet, you must follow the instructions for applying the tri-cabon-style-pack: <https://github.com/IBM/tri-carbon-style-pack>.

Prerequisites and Supported Products

To install this fix pack, you must have IBM TRIRIGA Application Platform 4.3 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 4.3.1 Fix Pack

To install the TRIRIGA Application Platform 4.3.1 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 4.3-TIV-TAP-FP001 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_v4.3.1_Windows.exe`, `fixpack_tririga_v4.3.1_Linux.bin`, or `fixpack_tririga_v4.3.1_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 4.3.1 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](#).

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.

Known Limitations

The following known limitation concerning the IBM TRIRIGA Application Platform is newly added for this release.

Area of Impact	Description
Configurable Platform CSS	On the 'Configurable Platform CSS View Files' page, there is an entry for TASCatalog. This entry has no impact, and you can ignore it. If you want, you can hide this entry by editing the 'triWebViewFileMeta - Display - Configurable Platform CSS Files' report to add a filter 'triNameTX Not Equals TasCatalog'.

Changes

The following change to the IBM TRIRIGA Application Platform is in this release:

Area of Change	Description
Security	The apache-commons-text jar has been upgraded. You must manually remove the common-text-1.9.jar file at the following location: {INSTALL_DIR}/tools/apache-ant-1.9.4/lib/dependency-check-ant/lib/commons-text-1.9.jar file. It might be flagged as a vulnerability; TRIRIGA platform does not use it. Tri-87008

Related Documentation

The IBM TRIRIGA Application Suite documentation is at <https://www.ibm.com/docs/en/tas>, 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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