IBM TRIRIGA Application Suite
Version 11 Release 5

IBM TRIRIGA
Version 11 Release 5

IBM TRIRIGA Application Platform
Version 4 Release 5

Release Notes

IBM.

Note

Before using this information and the product it supports, read the information in "Notices" on page 54.

This edition applies to version 11, release 5 of IBM® TRIRIGA® Application Suite; version 11, release 5 of IBM TRIRIGA; and version 4, release 5 of IBM TRIRIGA Application Platform and to all subsequent releases and modifications until otherwise indicated in new editions.

Contents

Release Notes

Welcome to the July 2023 release of IBM® TRIRIGA® Application Suite 11.5, IBM TRIRIGA 11.5, IBM TRIRIGA Application Platform 4.5, IBM TRIRIGA CAD Integrator/Publisher 13.5, and IBM TRIRIGA Connector for BIM 4.5.

This release includes the following installation options:

For TRIRIGA Application Suite (TAS) customers, a new installation of TAS is deployed from within Red Hat OpenShift by using the IBM TRIRIGA Application Suite operator.

- For TAS customers, the TRIRIGA Application Platform can be upgraded from within Red Hat OpenShift by using the IBM TRIRIGA Application Suite operator.
- For non-TAS customers, a new installation of IBM TRIRIGA Application Platform 4.5 and IBM TRIRIGA Applications 11.5 by using the TRIRIGA installer.
- For non-TAS customers, an IBM TRIRIGA Application Platform-only upgrade installation from 3.0.x or later to IBM TRIRIGA Application Platform 4.5 using the TRIRIGA installer.

The IBM TRIRIGA Applications can be incrementally upgraded to 11.5 Applications after the platform upgrade is completed. For more information about specific scenarios, view the Upgrading information on IBM Documentation for IBM TRIRIGA Application Platform 4.5.

> **(i)** **Note** – The IBM TRIRIGA wiki information, formerly located on developerWorks, is migrated to the IBM Docs for IBM TRIRIGA Application Platform 3.8. As this wiki content is gradually converted and merged into ongoing releases of the 4.x platform and 11.x application content, you can access this link to 3.8.
>
> For more information, see the IBM TRIRIGA Release Information page on IBM Support.

These release notes include the following:

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

In addition to this document, this release includes the following files, available from the Release Notes page on IBM Support:

- The enhancements, important information, known limitations, changes, and property file changes for this release are included in spreadsheet form in an XLS file. You can use the column filters to view only the information you need.

- A separate version of the release notes that is specific to Lease Accounting includes documentation of Lease-related new functions. This document also compiles the release notes related to Lease Accounting from version 10.5.3 to the present.

> **[X]** Warning – CUSTOMERS SHOULD CONSULT WITH THEIR ACCOUNTING ADVISORS AND IMPLEMENTATION PARTNERS TO DETERMINE WHAT IMPACT, IF ANY, MAY RESULT FROM THE CHANGES IN THIS RELEASE/FIX PACK/OM PACKAGE. THIS RELEASE/FIX PACK/OM PACKAGE MAY CONTAIN CHANGES TO CERTAIN CALCULATION MODELS WHICH MAY AFFECT PREVIOUSLY PUBLISHED FINANCIAL RECORDS AND HOW FUTURE RECORDS ARE CALCULATED.

What's New in This Release

With IBM TRIRIGA Application Suite 11.5, IBM TRIRIGA Portfolio Data Manager 11.5, IBM TRIRIGA Application Platform 4.5, IBM TRIRIGA CAD Integrator/Publisher 13.5, and IBM TRIRIGA Connector for BIM 4.5, IBM TRIRIGA continues to add valuable functionality, fix defects, and reduce the effort necessary for new and existing customers to implement our products.

As with the previous release, TRIRIGA Application Suite, TRIRIGA Portfolio Data Manager, TRIRIGA Application Platform, TRIRIGA CAD Integrator/Publisher, and TRIRIGA Connector for BIM are released as a Continuous-Delivery (CD) offering with regular update packages. For additional information about the CD support lifecycle policy for TRIRIGA Application Suite, see the [Supported Versions for IBM TRIRIGA Products](#) page.

IBM TRIRIGA Application Suite (TAS) 11.5 is an integrated workplace management system that enables access to a full set of real estate and facilities applications, with flexibility to start with any real estate or facilities discipline and expand into other areas. TAS offers:

- Increased visibility into underperforming facilities, resources, and process
- Improved control of facility occupancy and operating costs
- Engaging workplace services for building occupants
- Automated activities that are designed to increase efficiency and organizational effectiveness of real estate, facility management, and environmental sustainability functions within midsized and large-sized commercial and public enterprises

New in TRIRIGA Application Suite 11.5

- TRIRIGA Application Suite operator, which streamlines installation of TRIRIGA Application Suite components through Ansible automation to include required component dependencies.
- The updates provided in the stand-alone delivery of TRIRIGA Portfolio Data Manager 11.5, TRIRIGA Application Platform 4.5, and TRIRIGA CAD Integrator/Publisher 13.5.

For additional information on the TRIRIGA Application Suite, see [IBM Documentation](#).

New in TRIRIGA Portfolio Data Manager 11.5

- Reserve enhancements that enable users to identify the locations of desks and meeting rooms reserved by their colleagues to find and reserve desks near their colleagues.
- Reserve Outlook Room Search add-in that enables users to book a workspace through a link to the perceptive Reserve app.
- Lease accounting enhancements that enable lease accounting staff to account for rent paid in advance of the due date and automatically offset the prepayment against the Lease Liability Balance.
- Lease accounting enhancements that enable state and local government lease accounting staff to achieve compliance with the GASB Statement 87 lease accounting standards for both lessee and lessor leasing activity.
- Lease administration enhancements that enable Lease Administrators to process periodic updates in bulk for rent escalation clauses tied to the Consumer Price Index (CPI).
- Minor enhancements and fixes.

> **Note** – The TRIRIGA 11.5 release is a cumulative release and contains 11.3, 11.4, and 11.5 release changes. For information related to 11.3 and 11.4 releases, go to the [Release Notes](#) page on IBM Support and download the release notes for 11.3 and 11.4.

New in TRIRIGA Application Platform 4.5

1. Enhanced form design that heightens the user experience through improved section action behavior.
2. Enhanced user management that streamlines and hardens user password management and password resets.
3. TRIRIGA Reporting add-on enhancements that feature new visualizations through the introduction of a combo chart that enables users to compare multiple data sets on a graph. New graph settings, pivot functionality, and new function provide users flexibility to display graph totals, align axis, and to easily return to the start date of the week.
4. Minor enhancements and fixes.

New in TRIRIGA CAD Integrator/Publisher 13.5

- Minor enhancements and fixes

Technology Preview

Technology previews allow customers early access to new capabilities. These optional features can be enabled even in a production system if desired. 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 first introduced 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

New changes to this technology preview in the 4.5 platform include:

- Enhanced handling of form section headers so that section actions no longer scroll horizontally with section content.

- Improved responsiveness for side-by-side sections with more than 2 sections side by side to allow sections to flow more intuitively as the browser width shrinks.

- Improved handling of pop-up dialogs so users no longer need to scroll to the top of long forms to fully interact with modal dialogs.

- Resolved an issue where when forms are embedded in a portal section, the state actions will no longer disappear after the user initially executes a state action.

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.
>
> The 4.5 version of the platform introduces changes to the Form HTML for section headers. Any previously customized CSS override files must be updated to account for these structural changes, or the section headers will not render correctly.

Known technology preview limitations:

5. 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.
6. 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.
7. 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.
8. Form section actions in Firefox might be displayed in gray color instead of blue.
9. When forms are accessed as a navigation item or from a bookmark, the state actions will be displayed in line with the tabs.

TRIRIGA React Components

TRIRIGA React Components version 1.5.0 was used in the development of TRIRIGA UX web applications. For more information about TRIRIGA React Components, see https://www.npmjs.com/package/@tririga/tririga-react-components.

IBM TRIRIGA Application Suite 11.5 Enhancements

The following enhancements apply to IBM TRIRIGA Application Suite 11.5 unless otherwise noted.

IBM TRIRIGA 11.5 Enhancements

The following specific enhancements to IBM TRIRIGA are in this release in addition to the enhancements described above:

Area of Impact	Description
Drawing Manager	Drawing Manager now includes an Open Record Window Location menu, which enables you to open the selected record in TRIRIGA. (Tri-88170)
Drawing Manager	Drawing Manager now includes a tabular legend with rollup values and totals. Note: Graphic reports with multiple subsections and subtotals are not supported. (Tri-86195)
Drawing Manager	Drawing Manager now supports graphic themes. Known limitation: Display of hatch patterns or more than one color in a space is not supported. (Tri-86807)
Lease - Asset and Real Estate	The Prepayment solution is now available in TRIRIGA. To identify a prepayment lease, select the Prepaid Lease checkbox on the General tab of an Asset Lease, Real Estate Lease, or Subscription Based IT Arrangement (SBITA). For more information, see IBM TRIRIGA Version 11.5 Lease and Owned Property Contract Management User Guide. (Tri-78420-IJ38009)
Outlook	Pagination has been implemented for room search results. Additionally, the ability to select a floor from the location search has been implemented. (Tri-86371)
Reserve	A new "Share Reservations?" option has been added to the Preferences section under the Profile tab of all People and My Profile Forms. By default, users do not share any of their reservations. Users now have the option to change that from their profile. After users set their preferences to allow reservations to be shared, all their reservations will become visible and other users will be able to search them. (Tri-89820)
Reserve Perceptive App	Accessibility support is added to the user workflow of creating or editing a meeting reservation for the Adding or editing catering orders feature. (Tri-84529)
Reserve Perceptive App	Accessibility support has been added to the Description page with an information icon that opens a Modal with the information of command controls

Area of Impact	Description
	to access the TinyMCE Editor while creating or updating a meeting reservation. (Tri-69103)
Reserve Perceptive App	Accessibility support is added to the Cost Summary page, which is displayed after creating or updating a reservation with cost. (Tri-84530)
Reserve Perceptive App	Accessibility support has been added to the user workflow that involves adding and removing room equipment while creating or updating a meeting reservation. (Tri-69105)
Reserve Perceptive App	Accessibility was added for the following components: • The QR and bar code icon on the workspace page. • Refs were added to get focus back to icons after closing the code scanner component. • To the page title, error text, and footer buttons on the QR and bar code scan pages. Accessibility was not added for the third-party components (quagga & jsqr) that are used to scan QR and bar code for room search in workspace. (Tri-85982)
Reserve Perceptive App	Accessibility support has been added to the user flow that resolves exceptions while creating or editing meeting reservations. (Tri-84528)
Reserve Perceptive App	Disabled the Delivery date on the Catering page. (Tri-87880)
Room Panel	While using the Colour Contrast Analyser (CCA) tool, Reservation, date and time lables will pass on the Room Panel page. (Tri-90508)
Room Panel	The Room Panel app is merged into Core TRIRIGA. (Tri-75045)
Workplace Services Perceptive App	The toolbar design has been enhanced and it is now accessible. (Tri-88149)

IBM TRIRIGA Application Platform 4.5 Enhancements

The following enhancements to the IBM TRIRIGA Application Platform are in this release in addition to the enhancements described above:

Area of Impact	Description
Administrator Console	In TAS, TRIRIGA CR is updated with a new optional value spec.db.maxconnpoolsize. maxconnpoolsize: Description: 'Maximum number of physical connections for the connection pool.' Type: integer Default: 100 Minimum: 100 (Tri-90198)

Area of Impact	Description
Administrator Console	Added a new functionality to the Admin Console and Database Info tabs. The Check Association action will check for missing associations whereas the Check and Restore Association action will check and restore missing associations. The missing associations are usually the result of an integration or workflow that deletes the association for a record in a smart section instead of deleting the reference. The Check and Restore Association action was once part of Record Data cleanup in the Platform Maintenance agent. Instead, now it is a separate step in the Platform Maintenance agent and is available to run on demand.
	Updated Platform Maintenance agent to be a more efficient agent, picking up at the last interrupted and running all that it can before timeout. Added ability in the Admin Console to manually reset the last-run step to the first step, and an action to see which step full cleanup is currently going on. (Tri-88972, Tri-88973)
Administrator Console	In TAS, when using DB2, the database can be setup with a Schema name that is different from the TRIRIGA Username and DB name. (Tri-82148)
Exchange Integration	A new Microsoft Graph custom task com.tririga.platform.msgraph.action.GraphListRecurringInstancesCustomTask is added. (Tri-90703)
Exchange Integration	A new Microsoft Graph custom task com.tririga.platform.msgraph.action.GraphLogCalendarEventCustomTask is added. (Tri-88742)
Exchange Integration	The following two new custom tasks to manage reservation recurrence patterns are included: - Task to parse a recurrence pattern string - Task to log the System->triRecurrencePattern BO (Tri-86916)
Exchange Integration	A new Microsoft Graph custom task com.tririga.platform.msgraph.action.GraphReadCalendarEventCustomTask is added. (Tri-88624)
Exchange Integration	The ReadAppointmentAndAttendees custom task now sets meeting and attendee status. (Tri-88623)
Exchange Integration	Exchange subscription event consolidation now combines events with different event types. (Tri-90049)
Exchange Integration	Exchange subscriptions now allow events to be consolidated based on the meeting iCal UID. This allows events from different mailboxes but for the same meeting to be consolidated. (Tri-89731)
Exchange Integration	The Graph Callback URL that is used while adding a subscription is now displayed in the Subscription section of the form. (Tri-90612)

Area of Impact	Description
Hierarchy Objects	As an optimization, the document hierarchy cache for Oracle will not make database calls to get children for documents. Documents do not have children. (Tri-90969-IJ47128)
Installation	Added the provision to update the email ID of the system user while installing the platform. (Tri-88583)
Integration Object	In the Object Migration tool, while viewing the objects of an export or import Object Migration package, in the Objects pane, a new Object Label column is displayed. This column indicates the object label to which the object belongs. The column is ordered by names of object labels with all in-progress objects at the top. (Tri-88852)
Licensing	Added the ability to export the License Summary usage from the License Manager for both TAS and Traditional Licenses. (Tri-88468)
Licensing	In the License Manger, users will now be able to see the License Usage Metric details for TAS. (Tri-88467; Tri-85759)
Licensing	UX Model triRoomPanel is included in the following licenses: IBM TRIRIGA Application Suite - Configure IBM TRIRIGA Application Suite - Room Panel IBM Facilities and Real Estate Management on Cloud Self Service IBM Facilities and Real Estate Management on Cloud Approvals and Reporting IBM Facilities and Real Estate Management on Cloud Enterprise IBM Facilities and Real Estate Management on Cloud Occasional Enterprise User IBM Facilities and Real Estate Management on Cloud Field Services Concurrent IBM Facilities and Real Estate Management on Cloud Field Services Authorized IBM TRIRIGA Workplace Reservation Manager IBM TRIRIGA Workplace Reservation Manager for Small Installations IBM TRIRIGA Workplace Reservation Coordinator (Tri-89795)
Login	The Forgot Password link has been added to the TRIRIGA login screen. When clicked, users are prompted to enter their email address to reset their password. A Reset Password email is sent to the TRIRIGA user associated with that email address. If no TRIRIGA user is associated with that email address, or if multiple TRIRIGA users are associated with the same email address, no email will be sent. The TRIRIGA environment must be configured to send emails for an email to be sent. A password visibility icon has also been added to the password field on the login page. (Tri-87829)
Login	The New Password and Confirm Password fields have been moved to the System tab on the My Profile form, including the password attention message. Additionally, the Password Reset checkbox is now displayed under the System tab. Any visibility modifications made to these fields on the My Profile form will be overwritten when the TRIRIGA AppServer starts up. (Tri-86479)

Area of Impact	Description
Login	Starting with this release, changes to the following objects will be handled by the platform during platform upgrades. ⓘ **Note -** Any customizations made to the following objects will be overwritten with the platform upgrade. Any future customizations will be detected and overwritten during AppServer startup. Business Objects: - Module: trisetup; Business Object: triPasswordSetup Forms: - Module: triActionForm; Form: triPasswordAdmin - Module: triActionForm; Form: triPasswordChange - Module: triActionForm; Form: triPasswordReset - Module: trisetup; Form: triPasswordSetup Queries: - Module: trisetup; Query: triPasswordSetup - Navigation - Manager Query Workflows: - Module: triActionForm; Workflow: triPasswordAdmin - Synchronous - Reset Password - Module: triActionForm; Workflow: triPasswordAdmin - Synchronous - Send Temporary Password - Module: triActionForm; Workflow: triPasswordChange - Synchronous - onClick - Change My Password Button - Module: triPeople; Workflow My Profile - Synchronous - Forgot Password and Reset - Module: triPeople; Workflow: My Profile - Synchronous - Validate Password Rules - Module: triPeople; Workflow: My Profile - SCHEVENTSTART - Reminder/Reset People Record - Module: triPeople; Workflow: My Profile - Synchronous - Require Password Change Portal Update - Module: triSetup; Workflow: triPasswordSetup - Synchronous - onChange - Prohibit Password Recycling - Module: triSetup; Workflow: triPasswordSetup - Synchronous - Pre Load - Prohibit Password Recycling Lists: - List: triPasswordHistoryCount Records: - Module: triSetup; Business Object: triNotificationContent; Record: triPasswordChange001-US English This is required for the platform support of the new password reset functionality and enforcement of password rules. This support is applicable to TRIRIGA Application 10.5.0 or later.

Area of Impact	Description
	Note: The Default Password field is no longer available on the Password Setup page. Users must now use the Forgot Password link on the main login screen prior to their initial login. With this change, a fix is provided to prevent identical CldFromOMXML warnings in server.log indicating that an element is not found. These warnings are typically encountered in the Object Migration workflow compare functionality and the download workflow text functionality. Due to Object Migration workflow compare processing, when the TRIRIGA AppServer starts up, it is expected that these types of warnings will be logged in to server.log every time the TRIRIGA AppServer starts up. (Tri-84487)
Login	The session timeout login now works with the Platform OAuth login. (Tri-89310)
Login	A new Send Temporary Password link is added to the Force Password Reset page (Tools > System Setup > System > Force Password Reset). On clicking the link, users with a valid email address that are placed in the Reset Password Query section will receive an email to reset their password. TRIRIGA will allow only 3 attempts to send the temporary password email to an individual user within the timeout period of the original temporary password. If this limit is exceeded, an error will be logged in to server.log. No error indicating this situation will be displayed on the Force Password Reset page. To send an email in TRIRIGA, the environment must be configured for email communication. (Tri-87527)
MLA Conversion	For TAS only, when creating a fresh empty TRIRIGA database, the MLA Conversion code will be run on Oracle and DB2. (Tri-85848)
Notifications	When a new user account is activated, TRIRIGA will now send a notification to the new user with instructions on how to set the initial password by using the Forgot Password link. (Tri-89591)
Password Setup	TRIRIGA will now allow only three attempts to reset a password by using the Forgot Password functionality within the timeout period of the original temporary password. (Tri-88584)
Password Setup	The Password Setup page now includes the "Restore Default Rules" link. Clicking on the link will restore all the default password rules delivered by TRIRIGA. (Tri-88336)
Password Setup	The Forgot Password functionality has now been enhanced. Therefore, the following fields are removed from the My Profile form as they are no longer used in our shipping applications: Password Question, Password Hint, Reset Password for Handheld, and Password Expiration. (Tri-88337)
Password Setup	The release includes Platform support for the Password Reset functionality and the enforcement of password rules. An initial setup of default password rules will be applied to the Password Setup page, which will overwrite any previously

Area of Impact	Description
	established password rules on the prior Platform versions. However, you can modify the default password rules.
	Your password must:
	• have minimum 6 to maximum 20 characters
	• not match previous 6 passwords
	• include at least one lowercase
	• include at least one uppercase
	Your password must also include any 1 of the following:
	• at least one numeric character
	• at least one special character
	Additionally, the Password Expires checkbox on the Password Setup page is selected by default, and the password expiration duration is set to 1 month.
	(Tri-88252)
Platform REST API	A REST API is now available for finding spaces that are geometrically close to a reference space. (Tri-87971)
Reporting	While exporting the system report, data will render properly without any error. (Tri-88850-IJ46472)
Reporting	BIRT Reports have been updated to include the license usage of the following licenses: 1. IBM TRIRIGA Application Suite - Intelligence per Install. 2. IBM TRIRIGA Application Suite - Intelligence per Area Pack. (Tri-88587)
Reserve	Added additional logging to iCal processing. (Tri-86915)
Security	You will now be able to reset your password if you forget it. To reset the password, you will receive an email containing the temporary password with a link to create a new password. Ensure that either the FRONT_END_SERVER property or the EXTERNAL_FRONT_END_SERVER property is set in the TRIRIGAWEB.properties file to generate a valid link. The My Profile - Synchronous - Forgot Password and Reset workflow is now upgraded by Platform for enhanced Forgot Password functionality, and any customizations to it will be overwritten. (Tri-87273)
Security	TRIRIGA administrators will now be able to control the temporary password timeout duration. (Tri-88230)
Security	The Platform OAuth login now supports Google as an identity provider. (Tri-89056)

Area of Impact	Description
Security	The "Change Password" feature has been redesigned with a new UI that is now available for all users. (Tri-85900)
Security - OAuth login	The OAuth login has been enhanced to simplify the login URL and to allow a single OAuth profile to be used to log in to multiple UX applications. The new OAuth login URL is: \<tririga base url>/p/oauth/\<profile name>/\<app name> where, the \<app name> for the portal is "tririga". Use * to use the target application URL in the profile. For example, to log in to the portal by using the OAuth profile named "login", the URL will be: https://tririga.my-company.com/p/oauth/login/tririga And to log in to the Drawing Manager UX app by using the same profile, the URL will be: https://tririga.my-company.com/p/oauth/login/drawing-manager This works for any UX app that has a path of the form /app/app-name. For older UX app, add the query parameter webapp=true to use the path/p/web https://tririga.my-company.com/p/oauth/login/triForgeAdmin?webapp=true To use OAuth to log in to the admin console, use * and specify the admin console URL as the target application in the OAuth profile. (Tri-86766)

IBM TRIRIGA CAD Integrator/Publisher 13.5 Enhancements

No new enhancements concerning IBM TRIRIGA CAD Integrator/Publisher are in this release.

IBM TRIRIGA Connector for BIM 4.5 Enhancements

The following enhancements to the IBM TRIRIGA Connector for BIM are in this release:

Area of Impact	Description
Connector for BIM	The Connector for BIM can now delete previously published Floor Plans. (Tri-78129)

Area of Impact	Description
Connector for BIM	'As Designed Space Use Class' is now set when a new space is created by the Connector for BIM. (Tri-86204)
Connector for BIM	Uninstall for the Connector for BIM is now available. (Tri-24142)
Connector for BIM	The building details form now displays the path to the building. (Tri-84008)
Connector for BIM	The BIM Connector now supports Revit 2024. (Tri-90118)

Important Installation and Upgrade Information

Upgrading to IBM TRIRIGA 11.5

Lease customers must perform a pre-upgrade process before the application upgrade and a post-upgrade process after the upgrade. For more information, see the IBM TRIRIGA Application Object Migration Packages section.

Pre-10.3.0 requires modification scripts

If you are upgrading from a pre-10.3.0 version of the application and have not previously done so, apply the SQL script to update the system fields with sub-attribute type of CreatedDateTime to CreatedDateTime (Number) and ModifiedDateTime to ModifiedDateTime (Number). Scripts for Oracle and Microsoft SQL Server are located on the upgrade disk in the \Scripts folder. Instructions are within the scripts.

You can apply the script regardless of the platform version, but you **MUST** apply the script before upgrading the Application.

For Oracle, run SetVarcharColsToNumeric_ORCL.sql.

There are two scripts for MSSQL, SetVarcharColsToNumeric_MSSS.sql and SetVarcharColsToNumeric_MSSS_Publish_BO.sql. Run SetVarcharColsToNumeric_MSSS.sql first. When it completes, run SetVarcharColsToNumeric_MSSS_Publish_BO.sql.

Do not delete OM packages for pre-10.5.0 application upgrades

If you imported pre-10.5.0 application upgrade packages into an environment on platform version 3.5.0 or 3.5.0.1, please do not delete the packages from the Object Migration tool. Additionally, do not delete the notifications related to the import of these packages.

Object Label cleanup will run the first time the AppServer is started on platform version 3.5.2 and higher to ensure that the Root object label is applied appropriately to modules, business objects, forms, queries, and workflows. Packages and notifications are used for tracking purposes to clean object labels for modules, business objects, forms, queries, and workflows that are incorrectly given the In Progress or ObjectLabelInProgress object label when you did not modify them.

If notifications related to the imports have been deleted, the object label cleanup will still run, but any in progress labels given to an object by a manual modification will be changed to the Root object label, if the manual change happened on the same day as the pre-10.5.0 application upgrade on platform version 3.5.0 or 3.5.0.1, and by the same user who applied the upgrade.

If application upgrade packages have been deleted from the Object Migration tool, the object label cleanup will not be able to ensure that the Root object label is applied appropriately to objects imported by those deleted packages.

Pre-10.4.0 localization changes require republish of business objects

If version 3.5.x or higher is your first version of TRIRIGA Application Platform, please disregard this release note. If you are upgrading from 3.4.x/10.4.x please read this release note. If you upgrade**d** the platform to 3.4.x but did not also upgrade the application to 10.4.x, many business objects must be republished to support localization changes.

You can do one of the two options. Make sure you do either option **BEFORE** the installation of TRIRIGA Application Platform 3.5.0 or higher.

NEVER do either option after upgrading to 3.5.0 or higher.

Option 1: To republish all the business objects, you can follow the instructions given in the Publish_all_BOs_For_localization_MSSS.sql or Publish_all_BOs_For_localization_ORCL.sql scripts, which are found in the scripts directory of the Application Upgrade disk. You use the ORCL script for DB2.

Option 2: You can choose to manually republish the business objects. The following business objects, listed with business object name first and module name in parentheses, need to be republished:

Classification (Classification)

Cost Code Container (triCostCode)

Data Utilities (Data Utilities)

Document Container (Document)

Geography (Geography)

Group (Group)

Group Member (Group)

Holidays (System)

Location (Location)

Organization (Organization)

Permission Line Item (triPeople)

Polylining Standard (Polylining Standard)

Project Group Container (Group)

ROOT (Document)

triAnalyticEvent (triAnalyticEvent)

triAnalyticItem (triAnalyticItem)

triAnalyticProcess (triAnalyticProcess)

triAnalyticRule (triAnalyticRule)

triApplicationSettings (triSetup)

triApproval (triRouting)

triApprovalRule (triSetup)

triAssetEvent (triAnalyticEvent)

triAssetLink (triAsset)

triBidResponse (triProposal)

triBuildingSystem (triBuildingSystem)

triBuildingSystemLink (triBuildingSystem)

triCatalog (triCatalog)

triCatalogLink (triCatalog)

triCiApplicationDefinition (triCiApplicationManager)

triCiAssociatedObject (triCiApplicationManager)

triCiHierarchyNode (triCiHierarchyNode)

triContactRole (triIntermediate)

triContract (triContract)

triContractLink (triContract)

triCostCode (triCostCode)

triCostItemLink (triCostItem)

triCTQAssessment (triIntermediate)

triDataAttributeItemIntermediate (triIntermediate)

triDesignLink (triDesign)

triEnergyRatingErrorLog (triLog)

triEnergyStarValidationItem (triIntermediate)

triExternalMailServer (System)

triGeographyLink (Geography)

triInspectionLink (triInspection)

triInventoryLocation (triInventoryLocation)

triInventoryLocationLink (triInventoryLocation)

triItemLink (triItem)

triKeySecurity (triKeySecurity)

triLeaseAbstract (triContract)

triLeaseAbstractAction (triActionForm)

triLocationEnergySpace (triIntermediate)

triLocationLink (Location)

triNotificationDetails (triRouting)

triOSCREUtil (Data Utilities)

triPeopleLink (triPeople)

triPermitLink (triPermit)

triPlan (triPlanning)

triPlannedSpace (Location)

triPlanning (triPlanning)

triPlanningConflictItem (triPlanningItem)

triPlanningEnvironment (triPlanning)

triPlanningPeriodItem (triPlanningItem)

triPlanningScopeItem (triPlanningItem)

triProductsAndServicesLink (triProductsAndServices)

triProjectCalcItem (triCalculationItem)

triProjectLink (triProject)

triProjectReport (triProgressReport)

triProjectUpdater (triActionForm)

triREContractLocations (triIntermediate)

triRequest (triRequest)

triRequestLink (triRequest)

triReservationGroup (triSetup)

triResource (triIntermediate)

triRetailCompany (triIntermediate)

triReview (triActionForm)

triReviewer (triIntermediate)

triScheduleTask (triTask)

triSpaceForecastItem (triPlanningItem)

triSpaceForecastSurvey (triPlanning)

triSpacePlan (triPlanning)

triSpaceScenario (triPlanning)

triSpecificationLink (triSpecification)

triSurveyQuestionResponse (triIntermediate)

triTaskLink (triTask)

triTaskResourceAllocation (triTaskAllocation)

Working Hours (System)

(Tri-128841, Tri-128369)

Java Development Kit

See information specific to Windows and Linux below.

Restriction: GNU OpenJDK is not supported and will not work with IBM TRIRIGA and the IBM TRIRIGA Application Platform installation program. The OpenJDK package should be completely uninstalled from the server.

Windows:

The IBM TRIRIGA installer for Windows runs on an internally bundled JVM (IBM JDK 8). The IBM TRIRIGA installer for Windows also allows you to install this bundled JVM on your local machine to use with the TRIRIGA runtime.

Linux:

The Java Development Kit (JDK) must be installed before you run the IBM TRIRIGA Application Platform installer. The JDK must be installed before you run the IBM TRIRIGA application. This can be downloaded at https://developer.ibm.com/javasdk/downloads/sdk8/ and is licensed and appropriate for production use on Linux and AIX. Java must be running during an IBM TRIRIGA Application Platform installation. You must set the JAVA_HOME environment variable to the path of the JDK before you start the IBM TRIRIGA Application Platform installation program.

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.

IMPORTANT NOTICES: IBM no longer supports IBM Tivoli Directory Integrator. Migrate your TDI assemblies to a supported technology, such as Pentaho. As of version 3.7.0, the IBM TRIRIGA Application Platform no longer ships with or supports TDI assemblies.

As communicated in the IBM TRIRIGA Application Platform 3.7.0 Compatibility Matrix, IBM does not support Oracle WebLogic with IBM TRIRIGA Application Platform version 3.7.0 and later. Please see the Compatibility Matrix for the full listing of compatible products and versions.

IBM TRIRIGA Application Object Migration Packages

The application upgrade process involves the following steps. Complete the following steps carefully.

The 11.5 OM package is cumulative after 11.2, which includes 11.3, 11.4, and 11.5. Customers can upgrade directly from 11.2 to 11.5 by using this OM package. If you have already upgraded to 11.3 or 11.4, you will have the option to delete objects based on the newly added object label column of the Object Migration tool.

For Customers (other than Lease Accounting) upgrading from 11.2/11.3/11.4 to 11.5:

Import the **TRIRIGA_11_5_CumulativeAfter_11_2_202307051000.zip** OM package. 11.5 patch helper will automatically execute 11.3, 11.4 and 11.5 patch helpers.

For Lease Accounting Customers upgrading from 11.4 to 11.5:

1. Import **TRIRIGA_11_5_CumulativeAfter_11_2_202307051000.zip** OM package. 11.5 patch helper will automatically execute 11.3, 11.4 and 11.5 patch helpers. If 11.3 and 11.4 patch helper records already exist, only 11.5 patch helper will be executed.
2. Import TRIRIGA_11_5_CumuAfter_11_2_SetupData_202307051000.zip OM package. After import, apply patch helper string "11.5RetireOldJE".

For Lease Accounting Customers upgrading from 11.2/11.3 to 11.5:

Customers upgrading (from version 11.2/11.3 to 11.5) for the first time must import the Pre-Process OM package by completing the following steps. Do not create any lease payments until the following steps are completed.

1. Import the Pre-Process OM package, TRIRIGA_11_4_Lease_Pre_Process_202302150930v2.zip and run patch helper string "11.4LeasePreProcess". This patch helper will copy the values of the fields under the Expected Payment section to the Temp Expected Payment section of the Payment Line Item.

> **ⓘ** **Note** – A newer version of the patch helper workflows with improved performance is now available. To get the object migration package "TRIRIGA_11_4_1_Lease_Pre_Process_202406041430.zip", contact IBM TRIRIGA customer support. This is not applicable if step 1 was completed with the original object migration package.

2. Verify whether the Temp Expected Payment section has field values populated correctly.
3. Import **TRIRIGA_11_5_CumulativeAfter_11_2_202307051000.zip** OM package. 11.5 patch helper will automatically execute 11.3, 11.4, and 11.5 patch helpers. If 11.3 and 11.4 patch helpers already ran, then those will not be executed again.
4. This step requires a database administrator to create an index on **TRIPLIRECORDIDTX**, **TRIPAYMENTBREAKDOWNTYP**, **SYS_PROJECTID**, **SYS_GUIID**, **SYS_OBJECTID**, and **TRIRETROACTIVEBL** in ascending order for the **T_TRIPAYMENTBREAKDOWN ITEMS** table.
5. Apply patch helper string "11.4LeasePostProcess". This patch helper will create Payment Breakdown Items for each Payment Line Item using the values from the Temp Expected Payment section (This section can be found in System tab). This is a one-time process.

> **ⓘ** **Note** – If you don't perform this step, the amounts on the payments will be wiped out.
>
> A newer version of the patch helper workflows with improved performance is now available. To get the object migration package "TRIRIGA_11_4_1_LAIFP00_202406031530.zip", contact IBM TRIRIGA customer support. This is not applicable if the post-upgrade process was completed with the original object migration package.

6. Import the TRIRIGA_11_5_CumuAfter_11_2_SetupData_202307051000.zip OM package. After importing the package, apply patch helper string "11.5RetireOldJE".

IBM TRIRIGA Application Suite 11.5 Important Information, Known Limitations, and Changes

The following important information, known limitations, and changes apply to IBM TRIRIGA Application Suite 11.5 unless otherwise noted.

IBM TRIRIGA 11.5

This release includes important information, known limitations, and changes to IBM TRIRIGA.

Important Information

The following item is important information concerning IBM TRIRIGA that is newly added for this release. For Important Information related to previous releases, see the [Release Notes](#) page on IBM Support.

Area of Impact	Description
Exchange Integration	Exchange Resource Admin is deprecated and will be removed from the product in the future. It is replaced by Exchange Integration Manager. (Tri-90275)
Lease-Asset and Real Estate Lease-SBITA	The attention message is no longer displayed because users are required to enter the Expiration Date on Lease. (Tri-90981-IJ47254)
Lease-SBITA Lease - Asset and Real Estate	The attention message is no longer displayed because it is mandatory for users to enter the Expiration Date for a Lease. (Tri-90925-IJ47057)
Reserve	Add the Workspace tab with the Reserve a workspace button that opens the Reserve a Workspace page from the Microsoft Outlook add-in. (Tri-73733)
Reserve	When you use TRIRIGA Reserve, it is not recommended to use the "all-day" option especially when Reserve is integrated with Microsoft Exchange. Microsoft Exchange treats "all-day" meetings as floating meetings with variable start and end times that are based on user's time zone. In general, TRIRIGA treats "all-day" meetings as 24-hour meetings based on organizer's time zone. However, it is not a best practice to reserve shared resource for 24-hour increments. (Tri-90017)
Reserve Perceptive App	When you create a series of reservations without resolving exceptions for unavailable occurrences, the declined tag for those unresolved exception occurrences will not be displayed. However, the declined tag will be displayed after you refresh the page. (Tri-81733)
Reserve Perceptive App	When you update the catering order for a series of reservations, it overrides catering orders of the exception occurrences of the series. If you

Area of Impact	Description
	want to add or modify catering orders for any of the occurrences, you must update the catering items of that particular occurrence. (Tri-83336)
Reserve Perceptive App	If you create a workspace reservation for a room that has a room usage fee associated with it, the reservation cost summary will not be displayed in the Reserve Perceptive app. It will be displayed in the email notification that you receive after reserving the room. (Tri-81477)
Reserve Perceptive App	When you update multiple room reservations by removing one or more rooms, the removed rooms will be displayed as crossed out. However, the removed rooms will not be displayed after you refresh the page. (Tri-82113)
Reserve Perceptive App	Similar to the Foundation app, when you create a series of reservations for a room without resolving exceptions, the unresolved instance do not display the status as declined immediately after being created. It will take some time to process the instances. Refreshing the Reserve Perceptive app after the instances are processed will display the room status correctly. (Tri-81742)
Reserve Perceptive App	In the Single Sign-On (SSO) environment, when you use the Reserve Perceptive App, both the meeting and workspace information, when used as the primary location, are displayed after you refresh the browser or app. (Tri-73132-IJ33391)
Reserve Perceptive App	When you open a floor plan or room card in the Room search add-in, two buttons, Room and Workspace, are displayed. Do not switch between Room and Workspace in the Floorplan window and the Room card window. To add rooms, click the Add Room button on the Room page. (Tri-91804; 91805)
Room Panel	The Room Panel app does not support Requestable rooms. If you are upgrading to the latest IBM TRIRIGA Application version and previously had the Room Panel app installed, the new Room Panel app available with the latest TRIRIGA Application version will not merge with the older Room Panel app. (Tri-87090)
Room Panel	The Room Panel App has been upgraded from Polymer 1 to Polymer 3. (Tri-89180)

Known Limitations

The following items are known limitations concerning IBM TRIRIGA that are newly added for this release. For Known Limitations related to previous releases, see the Release Notes page on IBM Support.

Area of Impact	Description
Building Records	The UOM type of Remaining Life field available on the Assessment tab of the Property and Retail Center record is changed to 'Percentage'. Now, the Calculated End Of Useful Life field is calculating correctly according to the Remaining Life percentage field. Limitation: If you have data in the Remaining Life field for the existing Property and Retail Center records, then you must update data in the Remaining Life field according to the 'Percent' UOM. (Tri-89890-IJ46648)
Lease - Asset and Real Estate	The Lease Liability Roll Forward report for Prepaid solution is reconciling to the Gross Lease Liability instead of the Net Lease Liability. (Tri-90486)
Lease - Asset and Real Estate	For a retrospective lease modification with Payment in Arrears, TRIRIGA needs to create a separate set of journal entries than those created for a Payment in Advance lease. (Tri-90485)
Outlook	While canceling the reservation from Microsoft Outlook, you might get an additional notification. You can ignore the notification, and no action is required. (Tri-90814)
Outlook Reserve	When you create a series reservation with an exception from the Reserve Perceptive app and then try to resolve it from Outlook by clicking the "Remove room" button in the Room Search add-in, the room is not fully eliminated from the Location field. The workaround is to manually remove the room by clicking the cross (x) icon next to the room in the Location field. You can then add another available room for that particular day. (Tri-84224)
People	When activating a user with newly assigned licenses, the system will verify the availability of sufficient points to carry out the operation. If there are an insufficient number of license points, the user activation will be declined, and an email will be sent to notify the user about the failed activation. (Tri-74304)
Reserve	The new Microsoft Outlook desktop client version does not show TRIRIGA Room Reservation Outlook add-in when in read-only mode. Users must edit the event to see the add-in. (Tri-79689)
Reserve Perceptive App	When users update online meeting info for reservations that are already created, attendees will not receive the updated info. (Tri-82440)
Reserve Perceptive App	Users are not able to access the rooms listed in the dropdown list after scrolling down. To avoid this third-party issue on Safari in iOS, users must narrow down their room search criteria to return a much more targeted result. (Tri-87211)
Reserve Perceptive App	While finding an available room by using Voice Over on iOS, number of rooms checked and total number of rooms are not read together. (Tri-86137)

Area of Impact	Description
Reserve Perceptive App	Accessibility issue: On a mobile device, the menu does not close if you swipe right or left. You must double-tap on the mobile screen to close the menu. (Tri-88151)
Reserve Perceptive App	In the React-based Reserve Perceptive App, due to a third-party limitation, the tooltip of the List icon might overlap and obscure that of the Floor Plan icon. (Tri-69433)
Reserve Perceptive App	On a mobile device, the menu does not close if you swipe right or left. You must double-tap on the mobile screen to close the menu. (Tri-88151)
Reserve Perceptive App	If you add TRIRIGA rooms in Outlook, the agenda or event details page of the Reserve Perceptive app might not immediately display the rooms due to processing workflows. As a workaround, use the Refresh icon on the Agenda page to display the rooms. (Tri-81033)
Reserve Perceptive App	For all-day events (single/recurrence) created by using the Foundation app, no error notification is displayed after you click "Sync with Exchange" in the Reserve Perceptive app. However, the room calendar shows as Tentative for all-day reservations. It is recommended to avoid all-day reservation, instead use actual date and time to create reservations. (Tri-81257)
Reserve Perceptive App	While creating a room reservation, if the reservation time intersects two dates, then the "View available time" button is disabled while choosing date and time. (Tri-79588).
Reserve Perceptive App	For the non-exchange reservations created from Reserve Perceptive app, the description added to the reservation is not displayed in the mail notifications for both organizer and attendees. However, the added description still exists in the Foundation app for the organizer. To view the description, go to Requests > Manage Reservations > My Calendar and then Open the reservation. (Tri-82047)
Reserve Perceptive App	When a TRIRIGA reservation is created in any way that does not involve the Room Reservation Perceptive app or the Room Search add-in for Microsoft Outlook, TRIRIGA sends an email notification to the reservation owner with an attached .ics calendar event invitation that represents the reservation in TRIRIGA. This invitation initially shows as "Tentative" in the user's Outlook Calendar until the user chooses to "Accept" or "Decline" the invitation. From the Perceptive app, the user can see the reservation from TRIRIGA and has the option to sync this reservation with Microsoft Exchange by selecting "Sync with Exchange", which displays a similar entry in the user's Outlook Calendar for that reservation. At this point, the reservation owner sees two different Outlook Calendar entries for the same event: (1) one "Tentative" entry from the .ics invitation that the owner did not create in Exchange, and (2) one "Busy" entry that the owner created in Exchange from the Perceptive app. The reservation owner

Area of Impact	Description
	should "Decline" the .ics invitation. This does not affect the other entry. (Tri-82997)
Reserve Perceptive App	While using voice over on iPad for Workspace and Meeting Room, several issues related to focusing and reading out elements on the page have been observed. (Tri-85547)
Reserve Perceptive App	If you add catering items from separate menus, Purchase Orders will be generated by the system for each menu's vendor. The app only displays the ID of the first Purchase Order generated. This will be fixed in a future release. However, you can view the Purchase Orders generated by using the Foundation Reserve app. (Tri-83558)
Reserve Perceptive App	You cannot open the catering order on the Review page. To view the catering order details, click Edit and view the details on the Edit page. Alternatively, you can complete the reservation creation, open the reservation from agenda, and view the catering details on the Event details page of the reservation. (Tri-82514)
Reserve Perceptive App	For delegate user's recurring reservation, the added online meeting and additional location information will not be displayed for the exception occurrences in the Reserve Perceptive app. However, the information still exists for the exception occurrences in Microsoft Exchange (Outlook). (Tri-81042)
Reserve Perceptive App	When you add catering items with a different currency to the catering order, the order total will directly add up the costs of the items. It will not convert the different currency to the default currency. It is recommended to add catering items with the default currency. (Tri-82489)
Reserve Perceptive App	When a reservation where check-in is required and auto-cancellation is enabled has an end time 12 am or later, checking for one day will not update the other day(s), but you are checked into the reservation. Use the Refresh icon on the Agenda page to update the view. (Tri-79590)
Space Assessment	Fixed the "Id attribute value must be unique" accessibility issue in the Space Assessment Perceptive App. Updated the following icon names for Polymer 3 triplat-icon. After updating these icon names in the Perceptive App code, you must bundle the affected apps to run in the non-development mode. Icon Set (prefix): ibm 'bookmark-icon','attachment-icon','cloud-icon','code-icon', 'dashboard-icon','folder-icon','forward-icon','help-icon', 'home-icon','print-icon','report-icon','restore-icon','save-icon', 'search-icon','settings-icon','sort-icon','spellcheck-icon','warning-icon',

Area of Impact	Description
	'buildings-icon','camera-icon','edit-icon','details-icon','forum-icon','email-icon','filter-icon','forward-icon','rss-feed-icon' Icon Set (prefix): ibm-glyphs 'add-new-glyph','assets-glyph','backward-glyph','calendar-glyph','accessibility-glyph', 'close-cancel-error-glyph','details-glyph','edit-glyph','equipment-glyph', 'filter-glyph','floorplan-glyph','forward-glyph','home-glyph','location-glyph','mail-glyph','maximize-glyph', 'menu-glyph','minimize-glyph','pan-zoom-glyph','phone-call-glyph','remove-glyph','room-function-glyph', 'search-glyph','select-area-glyph','sign-out-glyph','tile-view-glyph','user-glyph','video-glyph', 'warning-glyph','watson-globe-glyph' Known Limitation: There are some violations regarding the triplat-graphic component when a floorplan view is selected, which might change based on floorplan selected. (Tri-68833-IJ38866)
Space Assessment	Graphic reports for Space Class Current also return an as-designed space class. Therefore, spaces might display 2 space class colors. (Tri-90941)
Stacking Perceptive App	Users with read-only access to the Stacking Perceptive app cannot save any changes to the stack plan on the server. Users can create a new stack plan on their local machine. Also, users can drag and drop organization allocation bars but cannot save the newly created or revised stack plan. The Restore button restores a user's local copy of the stack plan from the server. (Tri-57491, Tri-57408)
Work Task Perceptive App	In the Work Task Perceptive app, after a task is created, the browser must be refreshed to display the updated status of the task. (Tri-81782)
Work Task Perceptive App	In the Work Task Perceptive App, sorting does not work while using the table view. Alternatively, you can use the card view for sorting the work tasks. (Tri-84583)

IBM TRIRIGA 11.5 Changes

The following changes to IBM TRIRIGA are in this release:

Area of Change	Description
Approvals Lease - Asset and Real Estate	If the Bypass Approval record is removed for the Non-Lease-Accounting Amendment, then during approval, on returning the record from the approver, the Contract will hide the "Submit for Accounting Review" action. (Tri-90176-IJ46772)
Capital Project	The 'Task Number' field is added to the 'Project Tasks Gantt' section, which is available on the 'Schedule' tab of the Capital Project Template record. (Tri-89058)
Data Modeler	The size of triHiddenPathTX is changed to 1000 characters in the following BOs. - Geography - triState - triCity - triCountry - triCounty - triMetropolitanArea - triRegion - triWorldRegion (Tri-88016)
Dynamic Space Planning	The feature of filtering People by Organization, Building, Name, and so on now works properly. (Tri-85562-IJ46452)
Facilities Projects	On completion of a Work Task of a Facility Project, the project is also completed automatically. If the Actual End date is not entered, the system will update it with the greatest value of the Actual End date of the project's completed tasks upon the completion of the last task. (Tri-88457-IJ46203)
Facilities Projects	On completion of the last work task of a facility project for a move request, the Facility Project status will now be displayed as "Completed" without displaying the message that all the Work Tasks, related MLIs and related Requests are completed. (Tri-89107-IJ44495)
Lease - Asset	The AR Receipt Processes section is now visible on the AR Asset Leases. (Tri-88652)
Lease - Asset and Real Estate	If no local reporting is enabled for an IFRS lease and an IFRS Reversal Impairment is performed, the 'Current NPV of Rent' and 'Total Rent Expenses' fields in the 'Schedule Summary' section of the Accounting tab will no longer be recalculated and will remain the same. (Tri-88004)
Lease - Asset and Real Estate	For an IFRS lease with Dismantle Cost, the journal entry is now created for the Dismantle Cost amount that is entered while activating the lease. Also, when the lease is modified, the changed amount journal entry is now created for the changed Dismantle Cost. (Tri-89825)

Area of Change	Description
Lease - Asset and Real Estate	If an Approval has been returned and then resubmitted for approval, it will "only be re-reviewed by the person who returned it and any subsequent reviewers". The Approval will be routed back to the reviewer who returned it. However, if the reviewer who returned the Approval is no longer associated with that role in the record, then the Approval will be routed to the current assignee. After the Approval is approved by that approver, the Approval routing will resume with the next reviewer. (Tri-86056-IJ44946)
Lease - Asset and Real Estate	For GASB Leases, the values for "Likely Term Unamortized Initial Direct Cost" and "Likely Term Unamortized Prepaid Rent" on accounting schedules are now calculated correctly. (Tri - 89121)
Lease - Asset and Real Estate	When the previous Capital Lease is updated to the new standard, an updated instruction message will be displayed on the Accounting tab for GASB Classification. (Tri-85405)
Lease - Asset and Real Estate	For GASB standard Short Term Leases, Rent Expenses are now calculated as monthly payments instead of straight-line calculations. (Tri-88648)
Lease - Asset and Real Estate	For the GASB 87 Lessee, Short Term Lease modifications are not allowed. Hence, the following JE Event Setup Templates are removed from the system: 1. GASB - Short Term - Lease Event - Modification - Catch Up 2. GASB - Finance - Lease Event - Modification Short Term to Long Term 3. GASB - Finance - Lease Event - Modification Short Term To Long Term - Catch Up (Tri-88930)
Lease - Asset and Real Estate	For GASB Leases, the Accounting End Date will be revised based on the Base Lease Expiration Date. For Short Term Leases, the Current Asset Value will be set to 0. (Tri-85273).
Lease - Asset and Real Estate	The patch helper workflow for APAR IJ44216 will fix the existing Payment Schedule records if Payment Schedule IDs are missing. (Tri-86900-IJ46432)
Lease - Asset and Real Estate	On the 'Accounting' tab, the 'Accounting Calendar' field for lease is now read-only for all lease revisions. (Tri-89621)
Lease - Asset and Real Estate	In Lease Local Reporting Utility, users will be able to select only GAAP and IFRS Leases. (Tri-89362)
Lease - Asset and Real Estate Lease-SBITA	For GASB standard leases, if the Purchase option is made reasonably certain or uncertain, then the value of the "Does Property transfer ownership at the End of Lease?" field will not be changed automatically. (Tri-90214)

Area of Change	Description
Lease - Asset and Real Estate Lease-SBITA	The formulas in the following three columns are updated in the Operating/Finance schedule: 1. Liability Value - It is calculated by doing the sum of Current Period Change in Liability and Previous Period Liability Value. 2. Long-Term Liability - It is calculated by Short-Term Liability, Liability Value, and Accrued Interest Balance. 3. Change in Liability - It is calculated from the Interest Expense, Interest Reduction, and Principal Reduction. (Tri-85587-IJ44436)
Lease - Asset and Real Estate Lease-SBITA	The lease termination and expiration review logs now get created and are displayed in the Accounting Review Log section on the Notifications tab. (Tri-90766)
Lease - Asset and Real Estate Lease-SBITA	Accounting Calculations are now correctly calculated for users who uses a different date format. (Tri-90015-IJ46651)
Lease - Asset and Real Estate Lease-SBITA	On Termination of a Lease, Financial values such as Liability, Interest Expense, Net Asset Value, etc. are correctly calculated for accounting schedule residing in the Termination Effective Period. (Tri-85303-IJ44405)
Lease - Asset and Real Estate Lease-SBITA	When a partial payment is generated using a pro rata basis of 30 days, the Rent Expense for the Operating lease during the partial fiscal period will now be the same amount of the partial payment that falls within the partial period. (Tri-58309-IJ15506)
Lease - Asset and Real Estate Lease-SBITA	The Invoice Total is calculated on the basis of the Invoice Type selected in the Invoice record. (Tri-89269-IJ46375)
Lease - Asset and Real Estate Lease-SBITA	For GASB 87 lessee and GASB 96 short-term leases, the Data Revise and Non-Lease Accounting Amendment change types are allowed to revise the leases. For other change types, users will receive an attention message to terminate the current short-term lease. After the short-term lease is terminated, users need to create a new lease with a Commencement Date that corresponds to the expected Modification Date of the terminated short-term lease. (Tri-87134)
Lease - Asset and Real Estate Lease-SBITA	The Details and Expected Payment sections on the General tab of the Payment Line Item record will be read-only. Users can use the Adjust Payment action available on the Payments tab of the Real Estate Lease record and the Asset Lease record to modify the Payment Line Item record. (Tri-88067-IJ45655)

Area of Change	Description
Lease - Asset and Real Estate Lease-SBITA	When upgrading multiple versions of JE Setup templates, only the latest version of records are now present in the JE Setup templates. (Tri-87868)
Lease - Asset and Real Estate Owned Property (Fee) Agreement	The 'Remove' action in the 'Premise Locations' section of the following records will delete the selected premise locations: Lease Abstract, RE Project Current Terms, RE Project Lease, and RE Project Sub Lease. The 'Save' action will permanently remove the deleted 'Premise Locations' records. (Tri-87907)
Lease-Asset and Real Estate	Tax Rate values are correctly created while generating an RE Lease with PS from a Lease Abstract. (Tri-88851)
Lease-Asset and Real Estate	Existing payment records are displayed in the Payment Schedule section of the Rent clause record. (Tri-88888)
Lease-Asset and Real Estate Lease-SBITA	Users will be able to remove the associated Payment Schedules from the Clause form in the Draft state of a Lease. (Tri-86710)
Lease-SBITA	As the GASB 96 Short Term Lease modifications are not allowed, the following JE Event Setup Templates are removed from the system: 1. GASB 96 - Short Term - Lease Event - Modification - Catch Up 2. GASB 96 - Finance - Lease Event - Modification Short Term to Long Term 3. GASB 96 - Finance - Lease Event - Modification Short Term To Long Term - Catch Up (Tri-88932)
Lease-SBITA	For the GASB 96 Short Term Leases, the Rent Expense is calculated based on monthly payments made on a month-to-month basis instead of using straight-line calculations. (Tri-88649)
Licensing	The following BIRT reports have been updated to provide license usage of two new TAS licenses: 1. Daily TAS License Usage Report for Selected Month. 2. Daily TAS User Load Report for Selected Month. 3. Hourly TAS License Usage Report for Selected Day. 4. Hourly TAS User Load Report for Selected Day. 5. Monthly TAS License Usage Report for Selected Year. 6. Monthly TAS User Load Report for Selected Year. (Tri-84325)
Locations	When a Location record is retired, the corresponding Building System Items records will be retired and removed from the Building System Items section in the Location record. (Tri87122-IJ45014)

Area of Change	Description
Login	The system lock message is reverted to "The application is currently locked and is preventing any further logins from occurring. Contact your TRIRIGA administrator for assistance." (Tri-90977)
Maintenance	The 'Planned Start' and 'Record Form' columns will now be displayed by default in the 'Show Schedule' section on the 'Tasks and Projects' tab of the 'Maintenance Manager' form. (Tri-87125)
Navigation	Removed the following two menu groups: - The Unit of Measure menu group that navigated to Currency Conversion - The Graphics menu group that navigated to Style Manager (Tri-85552)
Outlook	Pagination and the ability to select a floor filter are now implemented for Room Search. (Tri-84906-IJ45836)
Outlook	The Rooms tab of the Room Search Add-in now takes the rooms per page value for pagination from the Search Room Page Size field in the Perceptive Reserve App Settings section. The default value of the Search Room Page Size field is set to 20 (consistent with the Reserve Perceptive App). (Tri-89545)
Owned Property (Fee) Agreement Lease - Real Estate	The Remove action in the Premise Locations section of the Real Estate Lease record will remove the selected premise locations. The Save action will then delete the removed premise location records permanently. Also, the Remove action in the Contract Locations section of the Owned Property record will remove the selected contract locations. The Save action will then delete the removed contract locations records permanently. (Tri-86745-IJ44978)
People	When new Employee, Consultant, or External contacts are added, the Prefix field no longer populates "Mr." as a default option. (Tri-89283)
People	The label of the "triEnableBidiBL" field displayed under the Preferences section of the Profile tab of the Employee and My Profile Forms has been changed to "Enable Bidi Support?". (Tri-89863)
People	When a new building is created, the value of the "Length Units" field in the "Units" section of the "General" tab is populated with the value set in the logged-in user's profile. (Tri-89304-IJ46359)
Real Estate Abstract	In a Lease Abstract, while creating a Rent Clause with Index Adjustment option, the following fields will be reflected in the Index Adjustments section from the Rent Clause section: - Compare to Previous? - Year of Adjustment (Tri-88938)

Area of Change	Description
Reporting	The Short Term leases will now be included in the Residual Value Guarantee disclosure report. (Tri-88740)
Reporting	The 'Process Contract Disclosure Reports - Draft' query will display the Draft records and the 'Process Contract Disclosure Reports - Processed' query will display the Processed records on the 'Process Contract Disclosure Reports' page. (Tri-88128)
Reporting	For GASB Leases, the "CTA Principal" and "CTA Interest" columns are no longer displayed in the "Lease Liability Roll Forward Report", and the "CTA Gross Asset" column is no longer displayed in the "ROU Asset Roll Forward Report". (Tri-89062)
Reporting	The "New Lease Liability Additions" column is updated for the Adoption scenario in the "Lease Liability Roll Forward" report. (Tri-88906)
Reserve	The "Use Microsoft Graph API" checkbox displayed under the Exchange Settings section of the Application Settings record is now read-only and selected by default. Note: If you are upgrading to TRIRIGA 11.5, the patch helper workflow "triPatchHelper - triCalculate - 11.5 - Application Settings Defaults" will automatically select the "Use Microsoft Graph API" checkbox. (Tri-89827)
Reserve	When you create an exception reservation, the option to add the original room is included. However, when you resolve the exceptions by name or ID, the available room is not displayed. (Tri-88059)
Reserve	In the Reserve Perceptive App, the label "Less options" on the Create and Review page has been changed to "Fewer options". (Tri-87795)
Reserve	The selected date is now highlighted in dark blue color (ibm-blue-70) and current date is highlighted in light blue (ibm-blue-30). (Tri-89974-IJ46803)
Reserve	In the Reserve Perceptive App, if the selected building has more than 50 spaces, clicking Search will load the first 50 spaces of the building. Clicking Check More will load the next 50 spaces. (Tri-68922-IJ29988)
Reserve	The selected spaces on the floor plan are being highlighted properly regardless of the units used in the drawing. (Tri-85194-IJ46160)
Reserve	In case of series reservation with Requestable rooms, when you add catering services to a particular occurrence, the food order will be created for that occurrence. (Tri-85799 - IJ44648)

Area of Change	Description
Reserve	When you change the Name and Date of a reservation, a new Purchase Order (PO) is generated with history status and revision set to zero, and the old PO revision number will be updated by 1 (Tri-86467-IJ45635).
Reserve	On the "Application Settings" record, in the "Exchange Settings" section of the "Reservation Settings" tab, when you select the "Auto-decline all-day meetings" checkbox, the All-day reservations created from Microsoft Outlook will always be declined. (Tri-87098)
Reserve	If you delete multiple food orders from a reservation, it now removes all the deleted food orders. Also, the deleted food orders are no longer displayed in the reservation. (Tri-88303)
Reserve	When a user has a primary building set and has no spaces while reserving a workspace or a meeting room, no rooms will be displayed. (Tri-90876-IJ47253).
Reserve Perceptive App	The Date and Time components of the Reserve Perceptive App are now properly aligned for other languages. (Tri-86028-IJ44920)
Reserve Perceptive App	If you click the Release room early button of a reservation, the room will now be released without any error. (Tri-90028-IJ46586)
Reserve Perceptive App	When you click the Release room early button for a reservation, the room is now released immediately without displaying the loading page. (Tri-87710)
Reserve Perceptive App	After you refresh the browser, the time in the Reserve Perceptive App now correctly reflects the Windows Time Zone that has been changed. (Tri-85713- IJ45039)
Reserve Perceptive App	The triplat-query-reserve-context component is added to Polymer V1 to support room search pagination in the Foundation Reserve app. (Tri-89559)
Reserve Perceptive App	The instructions that are entered while adding a food order for a reservation are now displayed correctly after creating the reservation. (Tri-82058)
Reserve Perceptive App	After creating or updating a reservation with a room cost associated with it, if you click the room link on the Cost Summary page, the Room Details window will now open. (Tri-87604)
Reserve Perceptive App	The Account code field will only be read once when focused. Users can enter the account code after that. (Tri-88138)

Area of Change	Description
Reserve Perceptive App	For reservations with check-in functionality, after auto-cancellation of the reservation, the system will not allow the user to check in. (Tri-89203-IJ46691)
Reserve Perceptive App	The System will not allow users to enter negative values in the Search Rooms Page Size field. (Tri-84097)
Reserve Perceptive App	Metadata in the triReservation - UX - Get Occurrence Exceptions workflow has changed. The new Update Reservation Occurrence model is added. The model is mapped to VarOccurrenc.eExceptions and mapped from VarRooms to get resourceId mapped to VarOccurrenceExceptions model. (Tri-90846)
Security	Some of the state action metadata items have been corrected. (Tri-85661)
Space Assessment	Space Assessments will be autosaved only if additional text is not added to the Additional Comments section within 1000 milliseconds. (Tri-90640-IJ47072).
Space Assessment	The highlight color of the selected space after creating a Space Assessment is changed to ibm-gray-40. (Tri-90593-IJ47237)
Tasks	Added the "Create tasks in the past?" checkbox to the Detail section of the General tab on the PM Schedule page. If the checkbox is selected, the system will create tasks for both past and future dates. If the checkbox is cleared, the system will only create tasks for future dates. (Tri-86664-IJ44921)
UX Framework	Enhanced paper-input-behavior, paper-input, triplat-datetime-picker, and ibm-icons Polymer 3 components with additional accessibility support. (Tri-89574)
Workflow	The following workflows have been retired: 1. Organization - triRetire - Dependant Record Update 2. Organization - triRetireHidden - Dependant Record Update The following bad task has been removed: triReservationInstance - Synchronous - Resource Instances - Service - Revise PO (Tri-89511)
Workflow	The triHiddenPathTX size is adjusted to 1000 characters in the following BOs: - Location - triFloor - triBuilding

Area of Change	Description
	- triProperty - triSpace (Tri-87218-IJ45061)

IBM TRIRIGA 11.5 Patch Helper Workflows

Patch helper workflows correct the record data in your IBM TRIRIGA application. A patch helper workflow can revise and update, bring new data records for a release, and recalculate records. The patch helper makes necessary changes to your IBM TRIRIGA database. You apply the patch helper workflows for a release after you install or upgrade to that release. Wait for one patch helper workflow to complete before you begin the next. Some patch helper workflows can take a long time to complete.

Note: Many of the patch helpers included in this release have already been included in earlier fix packs, as shown in the patch helper name. When you run the main 11.5 patch helper workflow, it determines which of the other patch helper workflows have already been applied and does not re-run any that are already applied to your system.

The following patch helper workflows are in this release:

Name	Description
triPatchHelper - Synchronous - 11.5 - Main Patch Helper	The 11.5 patch helper workflows will be triggered automatically after the 11.5 OM package is finished importing. This will also trigger 11.3 and 11.4 patch helpers if they are not already executed.
triPatchHelper - triCalculate - 11.5 - Application Data - App Version	This patch helper updates the application version record with the upgraded date if an application version exists, otherwise, it creates an application version record.
triPatchHelper - triCalculate - 11.5 - Application Settings Defaults	Patch helper sets default value as TRUE to Auto Decline All Day Meetings.
triPatchHelper - triCalculate - 11.5 - Hide Attention Message from Facilities Projects	Patch helper hides attention section for all completed facility projects.
triPatchHelper - triCalculate - 11.5 - Map Index Process Date on Contract Attribute	Patch helper updates Last Index process date on contract attribute.
triPatchHelper - triCalculate - 11.5 - Remove GASB Short Term Modification JE Event Setup Templates	Patch helper removes GASB Short term modification JE Event Setups.
triPatchHelper - triCalculate - 11.5 - Restore FLI Values on Partial Termination	Patch helper restores FLI values for the leases are terminated without partial FLIs.
triPatchHelper - triCalculate - 11.5 - Set GASB Lessor Accounting Yes on LSB for AR Contracts	Patch helper sets GASB lessor Accounting flag to yes on lease summary balance records for accounts receivable contracts.

Name	Description
triPatchHelper - triCalculate - 11.5 - Update Income Lease on JE Event Setups and JE Event Setup Templates	Patch helper sets Income lease flag based on accounting type on JE Setup and Event Templates
triPatchHelper - triCalculate - 11.5 - Update GASB Lessor Accounting to False on Contract	Patch helper sets default value to false for GASB Lessor Accounting.
triPatchHelper - triCalculate - 11.5 - Update Journal Entry Setup	Patch helper sets default values for JE Setup Templates.
triPatchHelper - triCalculate - 11.5 - Update Payment Schedule ID	Patch helper updates payment schedule id for payment schedules records with blank id.
triPatchHelper - triCalculate - 11.5 - Update Publish Name on Functional Accounts	Patch helper updates published name on Functional Accounts.
triPatchHelper - triCalculate - 11.5RetireOldJE - Retire Duplicate JE Setup Templates	Retire older template version of the JE Event Setup Templates. The patchhelper string "11.5RetireOldJE" needs to be triggered separately after importing JE setup data OM package.

IBM TRIRIGA Application Platform 4.5

This release includes important information, known limitations, changes, and property file changes to the IBM TRIRIGA Application Platform.

Important Information

The following items are important information concerning the IBM TRIRIGA Application Platform that is newly added for this release. For Important Information related to previous releases, see the Release Notes page on IBM Support.

Area of Impact	Description
Lease-Asset and Real Estate Lease-SBITA	While doing lease modifications, if Fiscal line items are missing before the modification effective period, contact TRIRIGA customer support. This issue has been fixed for new customers. (Tri-91094)
Login page	An issue where the masterformat.com link on the TRIRIGA login screens was running into a browser privacy error has been resolved. (Tri-85124)
Operator	OpenShift 4.12 must not be used with TAS 11.4 or earlier. If a client upgrades to OpenShift 4.12, then they must upgrade the TAS Operator to 11.5. (Tri-89173)

Area of Impact	Description
People	When system users reset their password via the Forgot Password link, a temporary System triPeople record is created and associated with the system user's My Profile record. The description of this record is "Created via Forgot Password". When a system user logs in for the first time and resets the password, this record is automatically deleted. Mostly, this record is not visible. However, if this record is still visible, do not delete it. (Tri-88777)
Reserve	When you use TRIRIGA Reserve, it is not recommended to use the "all-day" option especially when Reserve is integrated with Microsoft Exchange. Microsoft Exchange treats "all-day" meetings as floating meetings with variable start and end times that are based on user's time zone. In general, TRIRIGA treats "all-day" meetings as 24-hour meetings based on organizer's time zone. However, it is not a best practice to reserve shared resource for 24-hour increments. (Tri-83270)
Security	The initial system user password has been enhanced and can be found as an OpenShift Secret object: <tas-instance-name>-tas-system-user. (Tri-80216)
Single Sign On	If you are using WebSphere Liberty Profile versions later than 20.0.0.11 (wlp-nd-all-20.0.0.11.jar), you might encounter errors while configuring OpenID Connect (OIDC) SSO. Complete the following steps to resolve this issue and configure the OIDC SSO: 1. Open the server.xml file located at : /home/tririga/<install folder>/wlp/usr/server/tririgaServer/server.xml. 2. Add the following "webAppSecurity" property to the server.xml file: <webAppSecurity wasReqURLRedirectDomainNames="<external dns>|<internal dns>"/> For example, <webAppSecurity wasReqURLRedirectDomainNames="external.mycompany1.com|internal.mycompany2.com"/> 3. Restart the environment. (Tri-83650)

Known Limitations

The following items are known limitations concerning the IBM TRIRIGA Application Platform and are newly added for this release. For Known Limitations related to previous releases, see the Release Notes page on IBM Support.

Area of Impact	Description
Forms	If a "Form" link is defined on a master detail query, the form might open to a blank screen when clicked at runtime. (Tri-86826)

Area of Impact	Description
Hierarchy Objects	Cutting and pasting a hierarchical record where the record is in the cache, but it its children are not (based on default cache sizes), might trigger the following error: "There was a problem retrieving the XML Data: Internal Server Error". The cut-and-paste operation occurs as designed and the popup window displaying the error can be closed and ignored. (Tri-91613)
Hierarchy Objects	If a user moves a hierarchal record to another parent record or deletes a hierarchical record, the following warning message might be displayed in the secondary application server's server log: "Must Rebuild Entire Tree Structure". This occurs when the record is not in the cache. This does not indicate that the record operation was not correctly performed. (Tri-91848)
Login	There is a Chrome and Edge browser limitation where user auto-filled usernames and passwords are not automatically enabling the continue button on the login screen. (Tri-72065)
Login Page	For the Safari browser, the login page responsive design might distort while decreasing or increasing the window size and screen sizes 865 and above. (Tri-75537)
Navigation	The hamburger icon in the menu header displays when company level is disabled. The hamburger icon is not needed in this scenario. (Tri-70419)
Navigation	The side navigation menu option visible only on the sitemap page is not being honored at runtime. (Tri-76285)
Navigation	If no action is performed after logging into TRIRIGA and the session expires while on the home page, after logging back in via the login dialog displayed, when the user refreshes the home page, the TRIRIGA user session might be destroyed. (Tri-74036)
Navigation	Navigating to the login page in the same browser session where other windows are open while still accessing TRIRIGA, might result in the TRIRIGA user session being destroyed for those open windows. (Tri-73831)
Navigation	On the Safari browser for RTL users, the button in the lower left of the multi-session logout dialog might appear truncated. (Tri-76034)
Navigation	For best results with user profile images and enhanced navigation, the images should have a square aspect ratio and be sized to 96 x 96 pixels. Other sizes are supported, but the recommended size will provide the best results. (Tri-70209)
Navigation	The Select Project link might still appear for users after the project license is removed. (Tri-72300)
Navigation	Clicking the home link after its session is terminated due to a multi-session logout from another device, might result in a 'loading please wait' message and a spinner, instead of a session expired message. (Tri-74439)

Area of Impact	Description
Navigation	In navigation builder, group override changes are saved when clicking "No" on the warning popup asking yes or no for whether to save those changes. (Tri-86288)
Navigation	When you click the page title after clicking a portal section link, the breadcrumb might go back to home instead of the correct navigation path in some scenarios. (Tri-76222)
Navigation	The tooltip for the hamburger icon in the menu header is not translated. (Tri-69877)
Navigation	After logging in via the session timeout login prompt, other browser windows, and/or tabs still open, you might encounter a session timeout page if the next user action after the login is on one of those pages. Most TRIRIGA pages will not encounter this issue. Following is a list of product areas where the session timeout might occur in the above scenario on some but not all of their respective pages. There might be other areas that are not listed here. Admin Console Alternate Form builder Budget Currency Business Object properties and State Transition pages Document Management Flat Hierarchy Hierarchy Tree Label Manager Object Label Manager Performance Manager Reserve Scorecard Security Groups Style Manager Workflow Mapping (Tri-75057)
Platform Upgrade	"After upgrading to IBM TRIRIGA Application Platform 4.4 or 4.5 from the earlier versions, when you open the application, a blank page is displayed as the application is not able to find the correct ESAPI.properties file. Also, the following exception is displayed in the server.log file: Caused by: org.owasp.esapi.errors.ConfigurationException: java.lang.ClassNotFoundException: org.owasp.esapi.reference.JavaLogFactory LogFactory class (org.owasp.esapi.reference.JavaLogFactory) must be in class path. To ensure that the application picks up the correct ESAPI.properties file, the workaround is to set a new JVM property for the WebSphere Application Serve (WAS). To add the new JVM property, complete the following steps:

Area of Impact	Description
	1. Go to Application Servers > Server > Server Infrastructure > Java and Process Management > Process Definition > Java Virtual Machine > Custom properties. 2. Add the following property: Name: org.owasp.esapi.resources Value: \<Path to ibm-tririga.war>/ibm-tririga.war/WEB-INF/lib/ibm-tririga.jar (This path is for the uncompressed JAR file) (Tri-89120-IJ46402)
Portals	Reports displayed in portal sections may show defined query actions even though the show query actions checkbox is not selected in the portal section definition. (Tri-86282)
Portals	"Home – Application Administrator Portal" appears in the project switch manager on new TRIRIGA installs. (Tri-83771)
Portals	Portal sections that are defined with 'user' scope might be still displayed for all users across the company. (Tri-86283)
Record Runtime	The currency field will not be initialized to 0 if SHOW_ZEROS_IN_NUMBER_FIELDS=N is set in TRIRIGAWEB.properties. (Tri-81171-IJ40703)
Reporting	For users with a Date and Time format that includes a ZZZ timezone token, Data and Time query filters might not display accurate results in certain scenarios if the timezone part is entered into the filter value. (Tri-77134)
Reporting	Text fields with Type field set to DateTime or Date type incorrectly show data in milliseconds on the editable query results page. (Tri-54627-IJ08888)
Reporting	The wrap text feature on reports displayed via the enhanced query grid will visually make grid row height slightly smaller if the row height has been set to 64px. (Tri-74584)
Reporting	In Safari, for the enhanced render query grid, the blue focus is displayed by default on the first element in the row size drop-down menu when the menu is selected. (Tri-74334)
Reporting	The ellipses of the overflow menu for manager queries might appear truncated when a record is open in the inline view from that manager query. (Tri-74402)
Reporting	On reports rendered through an enhanced grid, a horizontal scroll appears at the bottom of pinned columns even though visually a horizontal scroll is not necessary. (Tri-71983)
Reporting	Result size and page number query parameters in the Get Query Data platform API may not work for "Group By" queries. (Tri-86644)

Area of Impact	Description
Reporting	For the Safari browser, entering values in the more filter feature on reports run through the enhanced query grid might have a false positive of returning no results. (Tri-77022)
Reporting	For queries displayed in portal sections, the Apply and Clear filter links might display in scenarios where there are no filters. (Tri-75024)
Reporting	When filtering a Date and Time field on a TRIRIGA query, users might get unexpected results if their user profile date-time format is: MMMMM dd, yyyy hh:mm a zzz, and they leave off the timezone part in their filter value. (Tri-74890)
Reporting	The prompt before query message is not getting displayed for hierarchy queries even though the Prompt before query checkbox is selected. (Tri-80195)
Reporting	Result size and page number query parameters in the Get Query Data platform API might not work for "Group By" queries. (Tri-86644)
Reporting	The first revision for a TRIRIGA query might indicate "System System" in the "Modified By" field and not the actual user who did the modification. (Tri-86847)
Reserve	For an all-day reservation (single/recurrence) created from Microsoft Outlook, the room calendar shows as free. However, all-day events from Outlook are reaching TRIRIGA successfully. For an all-day reservation (single/recurrence) created from TRIRIGA, the room calendar shows as free. After synching the calendar with Microsoft Exchange from the Reserve Perceptive app, the room calendar shows as Tentative. However, the room is still reserved, the time is blocked, and Outlook user's calendar shows the event properly for both cases. It is recommended to use actual date and time to create reservations, instead of using all-day reservation. (Tri-84485)
Reserve	If you first update an occurrence of a series reservation and then update the reservation time for the complete series, the occurrence that was updated earlier is declined. (Tri-90955)
Reserve	The Microsoft Exchange Web Services (EWS) API is no longer supported for communication between IBM TRIRIGA and Microsoft 365 or Exchange Server (on-premises). Only the Microsoft Graph API is supported. Customers who use EWS must migrate to the Graph API. For requirements on using the Microsoft API, see Microsoft documentation.
Security	After a TRIRIGA user session timeout, SSO users who click the Renew session button might see an SSO authentication popup window automatically open and close immediately before the session renews. (Tri-73614)
Style Manager	If configured, the Custom CSS might fail to change the background color of the about and help icons. (Tri-86761)

IBM TRIRIGA Application Platform 4.5 Changes

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

Area of Change	Description
Accessibility	In System Reports, the screen reader will now announce the contents correctly to open the report with the column header name. [Tri-89675]
Accessibility	In Reports, now the screen reader will announce or read the checkboxes with column "Name" values. (Tri-88696-IJ46145).
Accessibility	Screen reader users can navigate through all navigation links by using the Tab key. (Tri-87822-IJ46157)
Accessibility	In the Location Hierarchy - Graphics Section - the menu buttons can now be read by using NVDA or JAWS without reading Blank. (Tri-68195-IJ29384)
Administrator Console	Resolved an issue where the Object Migration workflow compare logic was logging non-descriptive warnings related to ObjectLabelName and UpdatedBy elements. The warnings were similar to the following warnings and will no longer be displayed: WARNING: [com.tririga.platform.workflow.textformat.cldconvert.CldFromOMXML](Default Executor-thread-1702) Element <ObjectLabelName> not handled. Current scope: <--ROOT--><Workflow><Header> WARNING: [com.tririga.platform.workflow.textformat.cldconvert.CldFromOMXML](Default Executor-thread-1702) Element <UpdatedBy> not handled. Current scope: <--ROOT--><Workflow><Header> (Tri-88810)
Administrator Console	Resolved an issue where the alternate login index.html did not honor the DEFAULT_TITLE setting in TRIRIGAWEB.properties. Note: As with previous releases, for this to work, the alternate index.html file needs to be manually modified to remove the setTitles function from the body tag. For example, change this: <body onload="setTitles()"> to this: <body>. (Tri-87550-IJ45172)
Administrator Console	The Must Gather Tool now includes SQL queries when performance auditing is enabled. (Tri-85371-IJ44968)
Administrator Console	The following property is now added to the TRIRIGAWEB.properties file, and is defaulted to FALSE: ENHANCED_RECORD_RENDER_MODE=FALSE. (Tri-90290)

Area of Change	Description
Administrator Console	Resolved an issue where the TRIRIGA AppServer was failing to start if an invalid number value was set for the TRIRIGAWEB property mail.smtp.port. If an invalid number is detected for the property, the mail.smtp.port property defaults to 25. (Tri-90230)
Administrator Console	Resolved an issue where Object Migration Query comparisons were failing on the Tag Identifier attribute where the difference reported was [null] being different from []. This query Tag Identifier difference will no longer show up in an Object Migration Query comparison. (Tri-90660)
Administrator Console	The error logs present in the Admin Console are now sorted based on dates. (Tri-87564-IJ45290)
Administrator Console	In the TRIRIGAWEB.properties file, description text for the SHOW_PREFERENCES_LINK, property has been updated. (Tri-91317)
Bookmark	The pop-up message that is displayed when you try to create an empty bookmark can now be closed successfully. (Tri-88621-IJ46303)
Data Integrator	When a Data Integrator file is uploaded to load Building Equipment that has one or more Locator fields such as triPrimaryOrganizationTX and triPrimaryLocationTX, all data is now populated correctly in Business Equipment. (Tri-85832-IJ45528)
Exchange Integration	Updated the 'com.tririga.platform.ews.action.ReadAppointmentAndAttendees CustomTask' task to prevent the organizer email from being written to the mailbox field on the Exchange Appointment record. (Tri-86762)
Form Builder	The HTML document in the Report section is now rendered correctly in HTML format. (Tri-87582-IJ45412)
Form Builder	If a single-line field has reached its maximum character limit, a warning pop-up message will be displayed. (Tri-87623-IJ45487)
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-86983-IJ45129)
Globalization	Changes to localized fields by a non-English user will not be reflected for other language users. Also, when non-English user changes localizable fields in their language, data will be displayed in the same language. (Tri-86213)
Hierarchy Objects	Users can see child records under the Includes tab for parent records that are beyond TREE_PAGING_SIZE (defined in TRIRIGAWEB.properties). This was an Oracle-only issue and has been resolved. (Tri-89563-IJ46706)

Area of Change	Description
Hierarchy Objects	If non-admin users have data and security access, they can now access records including the records that are not present in the hierarchy cache. This was an Oracle-only issue and has been resolved. (Tri-79080-IJ46403)
Hierarchy Objects	The frequent rebuild on Oracle environments of hierarchy data will not happen when any hierarchy record exceeds x`the TREE_PAGING_SIZE as defined in TRIRIGAWEB.properties. A new TRIRIGAWEB.properties setting has been added to decouple the cache size on Oracle from the TREE_PAGING_SIZE in the UI widgets. (Tri-86435-IJ47283)
Integration Object	After MLA conversion, the IntegrationObject upgrade package will no longer run after each restart. (Tri-83381-IJ45734)
Licensing	The name "TAS Insights" has been changed to "TAS Intelligence". (Tri-88339)
Licensing	In TAS, the License Manager has been updated to prevent adding users to the following licenses: - IBM TRIRIGA Application Suite - Room Panel - IBM TRIRIGA Application Suite - Intelligence per Install - IBM TRIRIGA Application Suite - Intelligence per Area Pack (Tri-85138)
Licensing	Licensing is updated to allow access to Microsoft OAuth functionality without any requirement of Reserve licenses. (Tri-91135-IJ47320)
Locations	In the Location Hierarchy - Graphics Section, menu buttons can be read by using NVDA and JAWS without any blank read. (Tri- 68782-IJ29449)
Login	In SSO environments, if the context user changes during an SSO session renew, the session will now correctly reload to reflect the new user. (Tri-89558)
Login	When system users are required to change their passwords, the password rules for the new password will follow the configuration that is set on the Password Setup page. (Tri-88162)
Login with OAuth	The Platform SSO feature now allows users to log in without checking if their (unused) password is set or has expired. (Tri-89025)
Login with OAuth	Platform OAuth login now works correctly when the user has an active session and attempts to login again. (Tri-89458)
My profile	The 'New Password' and 'Confirm Password' fields, including the password attention message, have been moved to the 'System' tab on the My Profile form. The 'Reset Password' checkbox is now displayed under the 'System' tab. Any visibility modifications made to these fields on the My Profile form will be overwritten when the TRIRIGA AppServer starts up. (Tri-89202)

Area of Change	Description
Navigation	The triPlatformNavigation custom.css file now includes CSS variables for colors. (Tri-87970)
Notifications	Error overlays containing the following text will no longer appear on the TRIRIGA login page as they are now being handled by enhanced password reset functionality: "Failed to reset password!", "Failed to update password!", "Your password has been updated.", and "Password Change Needed". (Tri-90459)
OAuth Login	The automatic login from the Profile query when only one profile exists is deprecated in favor of the new login URLs. (Tri-91328)
Object Migration	The Object Migration compare tool will no longer indicate an encryption type difference for Business Object password fields if the target environment password field being compared is of type non-reversible encryption. Password field encryption types are not overwritten during Object Migration import if the encryption type on the target environment for the field is non-reversible. (Tri-88959)
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 a large number of users. (Tri-89492)
Object Migration	The modified dates on application-delivered business objects that are modified by Platform during upgrade will no longer reflect the upgrade date. These objects will retain the modified date prior to upgrade. (Tri-89024)
OSLC	The associated child records are now not being deleted while passing an empty array. (Tri-83112-J44697)
Password Setup	The 'Initial Password Reset' field on the Employees, Consultants, and External Contacts forms is no longer supported, and its display has been removed. Initial password reset will now always occur for new TRIRIGA users, and it is not optional. Any visibility modifications to this field on the previously mentioned forms will be overwritten when the TRIRIGA AppServer starts up. (Tri-88814)
People	The "Generate the header!" message will no longer be displayed on the employee form while adding groups and licenses. (Tri-86594)
People Security	Password rule validation features are rebuilt as Platform Code rather than workflow. (Tri-83928)
Perceptive Apps	Only one 'JSESSIONID' is created while attempting to log in the request through OSLC sign-on. (Tri-87407-IJ45523)
Performance	A workflow that has a retrieve task with more than 1000 results and different operators in the filter will no longer throw an SQL error. (Tri-66742)

Area of Change	Description
Platform Upgrade	Resolved an issue related to the following message that was displayed in server.log during TRIRIGA App Server startup: [com.tririga.util.startup.upgrade.systemobject.AbstractPlatformSystemObjectStartupUpgrade](server.startup): [PlatformObjectLabelManagerUpgrade] did not upgrade properly. (Tri-87559-IJ45401)
Record Runtime	The TRIRIGA HTML Notification report is now displayed in user-specific language. (Tri-81420- IJ44591)
Record Runtime	The Classification field with lookup query does not accept any invalid input and clears the field. (Tri-83654-IJ44549)
Reporting	Resolved an issue where non-currency number fields defined as sum columns on a query were not displaying the correct decimal precision defined in the BO field's display mask. Decimal precision from the BO field's display mask will correctly be displayed on sum columns. Correct precision will also be displayed in the group header row if the sum column is also defined as a "Group By" field in the report design. This fix is specific to queries running through the enhanced rendering grids. (Tri-76100-IJ35594)
Reporting	An editable query allows users to edit a record, but no auditing was taking place even when configured to track data and 'action' changes. This has been fixed by auditing data changes and adding a new 'Editable Save' action audit if action auditing is enabled. (Tri-75320- IJ35299)
Reporting	The "Single Select" Radio button will no longer be displayed on the sum footer in the form query and modal. (Tri-82321-IJ41196)
Reporting	The user is now able to view the pop-up window properly while running or exporting the report. (Tri-88306-IJ46149)
Reporting	Resolved an issue related to queries run through the enhanced rendering grids where when the Show more filter row was expanded or collapsed, the values were disappearing. (Tri-89022-IJ46401)
Reporting	Resolved an issue where truncated data appeared on queries while scrolling to the end of a horizontal scroll bar. (Tri-58665-IJ15743)
Reporting	Users will now be able to view system reports that have fields from an associated BO. (Tri-83447-IJ43113)
Reporting	The data sorting in a query will now provide accented insensitive sorting [AaÀà-ZzŽž] for DB2 and ORACLE while using the following two TRIRIGAWEB.properties settings: - REPORT_CASE_SENSITIVE=FORCE_CASE_INSENSITIVE and the new - ENABLE_ACCENT_INSENSITIVE=Y. (Tri-71844-IJ32100)

Area of Change	Description
Reporting	After applying Secondary group by properties, you will be able to run the reports successfully. (Tri-79383-IJ40289)
Reserve	On the Manage External Event Subscriptions page, the workflow assignee is now properly set. (Tri-90273)
Reserve	The Graph Read Appointment recurrence rule now conforms to the iCal standard. (Tri-86914)
Reserve	The Date/Time format in the user profile is now used in the My Calendar and Reservation Calendar of a space. (Tri-87001)
Reserve	Resolved the issue with Geo and Org security in OAuth profiles. (Tri-88941-IJ46290)
Reserve	The Export functionality is working correctly with respect to the Reserve Calendar for all the calendar types. (Tri-86630-IJ45081)
Reserve	Users will now be able to see an accurate time frame on the Availability tab. (Tri-85651-IJ45494).
Reserve	The Exchange Settings test now correctly uses the Default Reserve User Email for the test. (Tri-90076)
Reserve	Attendee count is now correctly set while using the readAppointmentAndAttendees custom task. (Tri-87963)
Reserve	After creating a reservation in the Location Reservation module by booking a room, details of the booked room are now displayed in the notification email sent to the user. (Tri-87812-IJ45616)
Reserve	Exchange custom tasks now set an error code property in addition to a translated error message. (Tri-81025)
Reserve	This release introduces enhancements made to recurrence rules generated by GraphReadAppointment to match with iCal rules. (Tri-89715)
Reserve	Daylight Saving Time (DST) will not apply to America/Mexico_City TimeZone. (Tri-90223-IJ46856)
Reset Password	Resolved an issue on the Force Reset Password page where an attention message was displayed indicating that selected users have had their passwords reset even though no users were added to the Reset Password Query section before the Reset Password link was clicked. (Tri-85230)
Security	Security improvements have been made to the Database Query Tool in the Admin Console. (Tri-86604-IJ45028; Tri-87209)

Area of Change	Description
Security	The BCEL JAR file is upgraded. (Tri-88057)
Security	Upgraded org.apache.xmlgraphics:fop to the latest non-vulnerable version. (Tri-86972)
Security	The tools/apache-ant-1.9.4/lib/dependency-check-ant directory will no longer be part of the TRIRIGA footprint. This change will be applicable for both clean install and upgrade scenarios but not for a fix pack. (Tri-86454)
Security	The mxpj jar file is upgraded. (Tri-86316)
Security	The jquery-ui.min.js file has been upgraded. (Tri-82202)
Security	Users can now add cache control headers for GetDocServlet and getCompanyFile.jsp?fileLoc=//Company-1/file1582061383577.svg. (Tri-87621)
Security	Security improvements have been updated. (Tri-87140-IJ45028)
Security	The commons-net JAR file is upgraded. (Tri-86315)
Security	The commons-file upload JAR file is upgraded. (Tri-88243)
Security	The xmlgraphics-commons.jar file has been upgraded. (Tri-79955)
Security	The xmlbeans.jar file has been upgraded. (Tri-88058)
Security	The apache-ant JAR file has been upgraded. (Tri-76067)
Security	PII information is removed from the source code. (Tri-83224)
Security	The xercesImpl.jar file has been upgraded. (Tri-84752)
Security	The Zip4j.jar file has been upgraded. (Tri-79954)
Security	The httpclient-cache library is upgraded. (Tri-81895)
Security	The httpclient-win JAR file has been removed from the Platform. (Tri-81894)
Security	Some HTTP response headers are now removed to ensure increased data security. (Tri-83243)
Security	The commons-httpclient JAR file is removed from the platform. (Tri-84986)
Server logs	Additional business object publish server.log warning messages have been added with accompanying stack trace if issues with password field encryption type changes are encountered during publish processing. (Tri-90998)

Area of Change	Description
Session timeout	A session timeout message will be displayed if you click the Home button when the user session is no longer active. (Tri-81821)
Single Sign On	The Force Password Reset page can no longer be accessed in SSO environments. Additionally, values entered in the 'New Password, Confirm Password, and Reset Password fields on the 'My Profile System' tab will be ignored in SSO environments. In this case, an error message will be displayed on the page indicating that the password entered is invalid. (Tri-89353)
Single Sign On	The Password Setup page can no longer be accessed on SSO environments. Z (Tri-89589)
Workflow Runtime	Workflow Agent starts up even if there are more than 1000 rows in the WF_EVENT with non-existing Agent ID sets. (Tri-90008)

IBM TRIRIGA Application Platform 4.5 Properties Files

The following changes in the TRIRIGAWEB.properties file are in this release. For more information, go to IBM TRIRIGA Application Platform 4.5 documentation and select *Installing IBM TRIRIGA Application Platform>Configuring the platform>Properties files*.

Area of Change	Description
Administrator Console	The CLEANUP_AGENT_ADD_MISSING_ASSOCIATIONS_FOR_SMART_SECTIONS code has been refactored for better reliability. The new functionality might take longer but is more reliable to finish. This new functionality is ON by default. If you desire to use the legacy functionality, add the TRIRIGAWEB.property setting USE_LEGACY_RESTORE_SMART_SECTION_ASSOCIATIONS=Y to any server where the Platform Maintenance scheduler is run or where the operation will be triggered manually from the Admin console. (Tri-88970)
Administrator Console	A new property DEFAULT_SYSTEM_USER_EMAIL_FOR_FORGOT_PASSWORD has been added to TRIRIGAWEB.properties. This property allows you to specify a default system user email address to use for the Forgot Password functionality. If no email address is specified in the system user's My Profile record, the password reset information for the system user is sent to the default system user email address. In this case, this email address will be saved to the system user's My Profile record. (Tri-88707)
Administrator Console	Added the ability to set the ENVIRONMENT_PROPERTIES setting for GEO_ORG_SECURITY_MODEL through the admin console. This property adds the geography and organization of the user to its security profile without the need for the geography or organization to be in one of the user's security groups. (Tri-89648)
Hierarchy Objects	Improvements have been made in terms of minimizing hierarchy rebuild after creating or updating the hierarchy node.

Area of Change	Description
	The CACHE_LOAD_SIZE_FOR_ORACLE property is specifically for Oracle only. The default for upgrades will be the TREE_PAGING_SIZE and this new setting decouples the initial cache size on Oracle from the TREE_PAGING_SIZE in the UI widgets. They can be different. Default value of this property is 1000.
	Initially, the number of nodes in cache at each level will depend on the following two properties:
	1. If CACHE_LOAD_SIZE_FOR_ORACLE is less than or equal to TREE_PAGING_SIZE, then the number of nodes in cache at each level will be equal to TREE_PAGING_SIZE+1.
	2. If CACHE_LOAD_SIZE_FOR_ORACLE is greater than or equal to TREE_PAGING_SIZE+1, then the number of nodes in cache at each level will be equal to CACHE_LOAD_SIZE_FOR_ORACLE value.
	Best practice is to keep the value of this property greater than or equal to TREE_PAGING_SIZE. In addition, the CACHE_LOAD_SIZE_FOR_ORACLE must be the same across all TRIRIGA servers.
	(Tri-85768-IJ46321)
Notifications	Images will now be displayed in TRIRIGA notification emails by using the IMAGE_URL property. Use the property to specify the URL of the server including the context path of the image.
	This URL will be different for each server and is server specific.
	(TRI-86864-IJ46373)
Security	The required security headers were implemented. (Tri-83253)

IBM TRIRIGA CAD Integrator/Publisher 13.5

This release includes important information, known limitations, and changes to IBM TRIRIGA CAD Integrator/Publisher.

Important Information

The following important information concerning IBM TRIRIGA CAD Integrator/Publisher is added for this release.

Area of Impact	Description
CAD Integrator	Silent installer file is merged and updated with version number 13.5.0.0 for both AutoCAD and MicroStation. (Tri-91588)
CAD Integrator	Upgraded log4Net.dll for MicroStation 13.5.0.0. (Tri-91586)
CAD Integrator	Upgraded log4Net.dll for AutoCAD 13.5.0.0. (Tri-90888-IJ47223)

Area of Impact	Description
CAD Integrator	Platform documentation is updated to reflect an additional Liberty property that you might need to set based on the environment configuration. (Tri-87593-IJ45893)

Known Limitations

The following known limitations concerning IBM TRIRIGA CAD Integrator/Publisher are found in this release. For known limitations related to previous releases, see the [Release Notes](#) page on IBM Support.

Area of Impact	Description
CAD Integrator	Hatch Patterns using ANSI31 only will render in CAD Integrator. (Tri-71929-IJ31806)
CAD Integrator	Graphics don't get associated with the spaces with two regions. (Tri-84831-IJ44599)
CAD Integrator	For the XRef drawings, in the Graphics section, the layers are will not load if you click the checkboxes only once. To load the layers, double-click to select the checkboxes. (Tri-86111-IJ44518)
CAD Integrator	CAD Integrator does not provide audits for triFloor business objects. This will be supported in future releases. (Tri-72170-IJ32342)
CAD Integrator	When a drawing is attached from the MicroStation, the font size of the labels displayed on the Graphics tab is larger. This is being optimized to display properly. (Tri-81845-IJ40905)
CAD Integrator	Only for TRIRIGA MicroStation, the Server page is not added to the TRIRIGA ribbon yet. To add environments to connect, you must add entries to the preferences.properties file. After you add the entries, you can modify them through the login process. For more information, see the README.txt provided in the TRIRIGA CI install directory. (Tri-88720)
CAD Integrator	CAD Integrator does not remove user sessions when logout action is clicked in CI. On the Admin Console page, the session is still visible. (Tri-84655-IJ43729)
CAD Integrator	Detaching the floor that has a space area with an integer value does not trigger properly in Attach Events or Workflows. (Tri-90137-IJ46975)
CAD Integrator	TRIRIGA does not support AutoCAD 2024 yet. The support will be added in a future release. (Tri-91127)

IBM TRIRIGA CAD Integrator/Publisher 13.5 Changes

The following change concerning IBM TRIRIGA CAD Integrator/Publisher is in this release.

Area of Impact	Description
CAD Integrator	A CAD Integrator user can now successfully log in through Platform SSO when a single OAuth profile is available for login. (Tri-88977)

IBM TRIRIGA CAD Integrator/Publisher 13.5 Properties Files

The ci.properties file did not change in this release.

IBM TRIRIGA Connector for BIM 4.5

This release includes a change to IBM TRIRIGA Connector for BIM.

Note that only one version of the TRIRIGA Connector for BIM can be installed on one workstation, even if you are using more than one version of Revit. The BIM Connector installer can perform a new install, or it will override any previous version of the BIM Connector that had previously been installed. When the BIM Connector installer runs, it detects the versions of Revit that are installed on the workstation. If you have ever installed BIM Connector as an add-in to that version of Revit, it will be overridden by the new install.

Important Information

The following important information concerning IBM TRIRIGA Connector for BIM is found in this release. For important information related to previous releases, see the Release Notes page on IBM Support.

Area of Impact	Description
Connector for BIM	Upgraded log4Net.dll for BIM 4.5.0.0. (Tri-91585)

Known Limitations

No new known limitations concerning IBM TRIRIGA Connector for BIM are found in this release. For known limitations related to previous releases, see the Release Notes page on IBM Support.

IBM TRIRIGA Connector for BIM 4.5 Changes

The following change to IBM TRIRIGA Connector for BIM is in this release.

Area of Impact	Description
Connector for BIM	The Connector for BIM user can now successfully log in through Platform SSO when a single OAuth profile is available for login. (Tri-88975)

Related Documentation

You will find the documentation for this release in IBM Documentation. Documentation for the IBM TRIRIGA Application Suite is at https://www.ibm.com/docs/en/tas. The IBM TRIRIGA documentation is located at https://www.ibm.com/docs/en/tririga and IBM TRIRIGA Application Platform documentation is located 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 in the IBM TRIRIGA Application Platform 3.8 Knowledge Center under "Additional documentation" in the table of contents. For more information, see the IBM TRIRIGA Release Information page on IBM Support.

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