

IBM TRIRIGA
Version 10 Release 6.0

IBM TRIRIGA Application Platform
Version 3 Release 6.0

Release Notes



Note

Before using this information and the product it supports, read the information in “Notices” on page 65.

This edition applies to version 10, release 6, modification 0 of IBM® TRIRIGA® and version 3, release 6, modification 0 of IBM TRIRIGA Application Platform and to all subsequent releases and modifications until otherwise indicated in new editions.

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Release Notes

Welcome to the August 2018 release of IBM® TRIRIGA® 10.6.0, IBM TRIRIGA Application Platform 3.6.0, IBM TRIRIGA CAD Integrator/Publisher 12.6.0, and IBM TRIRIGA Connector for BIM 2.6.0.

This release includes the following two installation options:

- A new installation of IBM TRIRIGA Application Platform 3.6.0 and IBM TRIRIGA Applications 10.6.0.
- An IBM TRIRIGA Application Platform-only upgrade installation from 3.0.x or higher to IBM TRIRIGA Application Platform 3.6.0.

The IBM TRIRIGA Applications can be incrementally upgraded to 10.6.0 Applications after the platform upgrade is completed. For more information about specific scenarios, view the [Upgrading](#) page on the IBM TRIRIGA wiki.

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)



Note - To request access to IBM TRIRIGA application upgrade packages or documentation for releases before IBM TRIRIGA 10.2, submit a ticket through the IBM Software Support site at www.ibm.com/support.

What's New in This Release

With IBM TRIRIGA 10.6.0, IBM TRIRIGA Application Platform 3.6.0, IBM TRIRIGA CAD Integrator/Publisher 12.6.0, and the IBM TRIRIGA Connector for BIM 2.6.0, IBM TRIRIGA continues to add valuable functionality, fix defects, and reduce the effort necessary for new and existing customers to implement our products. IBM TRIRIGA 10.6.0 includes the following highlights.

- Introduces a new TRIRIGA Work Task Services perceptive web app for work task execution to provide an advanced user experience for technicians who use TRIRIGA to manage their work tasks. The TRIRIGA Work Task Services app enables technicians to access and update details of their assigned work tasks from multiple devices, including mobile phones, tablets or laptops, with a consistent, mobile-optimized user experience.
- Provides a streamlined, task-based design of the TRIRIGA Work Task Services app that guides a user through their work details. Offline capability, using service worker browser technology, caches data on the device and enables workers to continue to work within the perceptive web app, even when they lose connectivity to the network. Using a new 3D Building Information Modeling (BIM) viewer integrated into the app, maintenance technicians can view the location of their assigned tasks, as well as detailed asset information, through map, floor plan, and 3D BIM views.
- Introduces a new perceptive Locate app as part of the TRIRIGA Workplace Services portal, which enables workplace occupants to locate people and rooms through an intuitive, graphical user interface. 2D and 3D floor plan views assist users in navigating the building and in locating rooms and people.

- Delivers enhancements to the IBM TRIRIGA Connector for BIM that add support for migration of building system and asset data from a Revit model into TRIRIGA, enabling facilities managers to quickly establish a complete registry of building equipment assets in TRIRIGA directly from the BIM. This includes support for models composed of multiple linked files. Additional enhancements add support for defining TRIRIGA spaces by using Autodesk Revit area plans. Enhanced space integration speeds the process of designating TRIRIGA space classification assignments for multiple spaces to be integrated within Revit. BIM models can also be published directly from Revit in a new 3D viewer format for viewing the building model inside multiple perspective apps within TRIRIGA, such as the Work Task Services app and the Locate app.
- Provides a new Data Erasure Utility to enable administrators to respond to data removal requests, such as required by the General Data Protection Regulation (GDPR), to remove personal information (PI) and sensitive personal information (SPI) that your organization may currently store in IBM TRIRIGA.
- Features support from IBM TRIRIGA Application Platform 3.6.0, which includes enhancements to the TRIRIGA UX Framework and enhancements to TRIRIGA Application Builder tools to provide better management of application configurations. The TRIRIGA UX Framework enhancements deliver new web components that support offline interaction via service worker technology, support rendering of 3D BIM models, support display of locations on geographic maps, and support additional capabilities such as the ability to display documents associated to a TRIRIGA record. The enhanced builder tools support streamlined configuration and upgrade processes through improvements to object labeling and enhancements to object metadata revision capabilities.
- IBM TRIRIGA 10.6.0 includes new and enhanced TRIRIGA Lease Accounting features that were introduced in the TRIRIGA 10.5.3.1 and 10.5.3.2 fix packs, including improvements to areas such as the adoption process, index adjustments, incentive schedules for tenant improvements, journal entry support, dismantle cost, disclosure reports, local reporting, and ASC842 GAAP classification changes from Operating to Finance. In addition, TRIRIGA 10.6.0 includes enhancements to incentive schedules that are created after a modification and the ability to include exit or disposal liability carryover. For further details on TRIRIGA Lease Accounting, see the [IBM TRIRIGA Lease Accounting wiki](#).

In addition, IBM TRIRIGA 10.6.0, IBM TRIRIGA Application Platform 3.6.0, IBM TRIRIGA CAD Integrator/Publisher 12.6.0, and IBM TRIRIGA Connector for BIM 2.6.0 include minor enhancements and defect resolutions as defined in the following sections.

IBM TRIRIGA 10.6.0 Enhancements

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

Area of Impact	Description
Lease Asset Lease Real Estate Lease	<p>A new field, Exit or Disposal Liability Carryover, is added to the Accounting tab of Real Estate and Asset Lease form. You use this field to enter costs associated with exit or disposal activities of the lease. Details include:</p> <ul style="list-style-type: none"> • The cost entered is included in the initial ROU Asset Value of the lease. • If the absolute value of 'Exit or Disposal Liability Carryover' is greater than initial ROU Asset value then ROU Asset will be set to 0. • The cost entered is mapped to the Gain (Loss) on revaluation in the first FLI. • A Lease Accountant can enter a value when the initial lease is created. Exit or Disposal Liability Carryover amount will be cleared and hidden once the lease is revised. • Exit or Disposal Liability Carryover amount will be mapped to the history lease once the lease is revised. • Exit or Disposal Liability Carryover must be a negative value. • Lease will be treated as impaired lease and FLI calculations will be same as of impaired lease. • The rent expense will be sum of interest expense and amortization. • Amortization will be ROU Asset divided by total fiscal periods. <p>A new GL code template is added as the classification record that is called 'Gain (Loss) Exit or Disposal Liability Carryover'.</p> <p>Six JE setup template records cover GAAP & IFRS standards and Asset & Real Estate Leases:</p> <ul style="list-style-type: none"> • 842 - Record Finance Lease - Record Asset Exit or Disposal Liability Carryover Component • 842 - Record Operating Lease - Record Asset Exit or Disposal Liability Carryover Component • IFRS 16 - Record Asset Exit or Disposal Liability Carryover Component • 842 - Record Finance Lease - Record Asset Exit or Disposal Liability Carryover Component • 842 - Record Operating Lease - Record Asset Exit or Disposal Liability Carryover Component • IFRS 16 - Record Asset Exit or Disposal Liability Carryover Component <p>The Debit Entry for these Journal Entry setup template records is 'Gain (Loss) Exit or Disposal Liability Carryover'.</p> <p>The Credit Entry is 'ROU Asset'.</p>
Lease Asset Lease Real Estate Lease	<p>Added a Lease Treatment field and an ASC840/IAS17? flag into the journal entry setup template, setup, and journal entry forms. When the ASC840/IAS17? box is checked, the Lease Classification field is hidden, the value is cleared, and the Lease Treatment field becomes visible. Lease Treatment is a list field with possible values of CAPITAL, OPERATING, and FINANCE. The Lease Treatment field is added into all display queries. Many queries and workflows are modified for this enhancement. (Tri-51235-IJ04299)</p>

Area of Impact	Description
Lease Asset Lease Real Estate Lease	<p>Enhancements related to tenant incentives include:</p> <ul style="list-style-type: none"> • Ability to add/adjust Tenant Incentive after initial lease activation <ul style="list-style-type: none"> - Incentive added after initial lease activation will be amortized from modification effective date instead of accounting start date. • Adjustment to upfront incentive amount can be done by adjusting incentive payment schedule and associated payment line item. <ul style="list-style-type: none"> - If payment schedule start date is after today, use “Update or Split Payment Schedules” option to adjust incentive amount. Both payment schedule and payment line item will be adjusted. - If payment schedule start date is before today, then two adjustment should be made, <ol style="list-style-type: none"> 1. Use “Update or Split Payment Schedules” option to adjust the incentive amount on the payment schedule. 2. Use “Update Only Payment Line Items” option to adjust the incentive amount on the payment line item. <p>(Tri-52727-IJ06586-IV99840)</p>
Lease Asset Lease Real Estate Lease	For updated information about the BIRT disclosure reports, please check the IBM TRIRIGA Lease Accounting wiki .
Lease Asset Lease Real Estate Lease	Improved performance for amending a lease. Each time a lease is activated, a copy is created and associated to the lease using a temporary association. The copy is now used during an amendment. (Tri-49619)
Lease Asset Lease	In the Asset Lease form, in the General tab, in the Details section, a new Contract Status field is added. The value of this field now shows in the Expire and Template popup forms and also in the copy of asset lease records. This new field is displayed instead of the Status field on asset lease manager queries and on most of the asset lease portal queries. (Tri-37871)
Lease Asset Lease Real Estate Lease Owned Property (Fee) Agreement	When a payment schedule is voided, you can now see the voided payment line items for the voided payment schedule by running the new related report that displays the voided payment line items on the payment line items section of the payment schedule. (Tri-19580)
Locations	A new Contact Details tab with Contacts section is added to the Installation, Vertical Shaft, Proposed Site, and the Proposed Retail Location Forms. With this new addition, a user will be able to add contact details to Installation, Vertical Shaft, Proposed Site, and the Proposed Retail Location Forms through the Contact Role Manager application for Locations. (Tri-14869)

Area of Impact	Description
Portals Security	<p>In a new TRIRIGA environment, the default portal for system/admin now opens to the new "Home - System Setup Portal" portal. With this change, new installations can quickly access and configure the system, including features like the password rules and the default password, as well as other application settings and setup. The default password in a new TRIRIGA environment is 1Password*.</p> <p>After you update an existing TRIRIGA environment to 10.6.0, you can change the system/admin home portal to "Home - System Setup Portal" by updating the system/admin My Profile record.</p> <p>Any change to the default password does not affect existing users. Only users created after the change have the new default password. (Tri-49918)</p>
Space Assessment	<p>The discrepancy People and Asset searches in Space Assessment and the Assigned To search in Space Management now have a slight delay to prevent unnecessary requests to the server while the user is still typing to prevent premature searches. (Tri-52541-IJ07527)</p>
Workplace Reservation Manager	<p>The currency format for fields on the Reservation Resource Form now displays two decimal places instead of four by revising the display mask of these fields on the Reservation Resource form business object. (Tri-1537)</p>
Workplace Services	<p>In the Workplace Services perceptive application, the news item's sub-headline is now configurable. Please update any existing news item to include sub-headline if necessary. (Tri-48231)</p>

IBM TRIRIGA Application Platform 3.6.0 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	<p>The Administrator Console Platform Logging page now provides a Reserve SMTP category to help debug Exchange to TRIRIGA integration problems. (Tri-270624)</p>
Administrator Console	<p>The look and feel of the Administrator Console were updated to a more modern style. (Tri-173791)</p>
Agents	<p>Enhanced heartbeat and heartbeat event processing so they do not influence each other. At times it has been noted that servers/agents disappear for a time without reason; this should help prevent that. Added enhanced debug logging. (Tri-50314)</p>
Agents	<p>In the Workflow Agent Settings, you can now dedicate a workflow agent to a group that is defined in the Security Manager, in addition to the existing behavior of dedicating to individual users. Please note that this functionality is still being implemented and should not be used in production environments prior to future fix packs that complete full implementation. (Tri-46185)</p>

Area of Impact	Description
Logging	SQL performance logging has been improved. The actual SQL was added to the key and an attempt has been made to indicate what processing initiated the SQL. (Tri-46627)
Object Label Manager	You now can re-label objects that have a non-IBM label applied to them. In prior releases, users were only able to apply object labels that had In Progress label applied. With this enhancement, users can now choose between re-labeling all revisions containing the given object label or only re-labeling the latest version of the object if the latest revision of the object has the given object label applied. (Tri-37056)
Object Labels	The object label is now displayed on the main page of the following builder tools so that you can see each object's label without drilling down into the tools: Report Manager, Form Builder, Workflow Builder, Portal Builder and Navigation Builder. (Tri-49417)
Object Labels and Revisions	The Labeled Objects tab in the Object Label Manager was enhanced to clarify the display of objects. It now displays two sections: one for objects that currently have the label and another for objects that had that label on a previous revision. (Tri-47234)
Time Format	A new time format is introduced to time fields in TRIRIGA applications. In addition to the current military format, there is also standard time. The new mask displays any new time field as "hours:minutes:seconds am/pm." When interacting with a time field in a form, a new time field picker helps the user choose hours, minutes, seconds, or period. The default value for time fields is set to "12:00:00 AM" which represents a day's zero hours. A user can switch between the two formats with the new TRIRIGAWEB.properties named TIME_FIELD_STANDARD_DISPLAY. This property by default is set to true, which displays time fields in standard time format. To switch back to military format, change this property to false. (Tri-279800)
Object Migration	A new field tracks when an object migration package is modified. Now the Property pane in an object migration package displays the created date and the modified date. (Tri-238950)
Object Migration	Object migration export package Object Finder now has a Component Type filter when searching for web components. This comes in the form of two check boxes labeled Non-View and View. Web component Non-View types are Application, Building Block, Core, and Platform. Non-View Type is the default, even when both check boxes are not selected. (Tri-49597)
Object Migration	Object migration import packages now have an option to only import objects that do not have object label conflicts between the source package and the target environment. This feature is only intended to assist with merging changes and is not meant to import a valid working package. This option is available via the Import Non-Conflicting link. After the import, two new packages are created that contain the conflicting objects that were not imported. One package contains the conflicting object definitions from the source package and the other package contains the conflicting object definitions on the target environment. (Tri-39935)

Area of Impact	Description
Object Migration	Object migration import packages now indicate objects that have object label conflicts between the source package and the target environment. The indication shows on initial load of the import package and displays a caution icon next to the object in the Navigation pane and displays the object name in orange text. (Tri-39930)
Object Migration	When viewing object migration import packages within the Object Migration tool, users now can download web view file content by clicking the Download Content For Selected link within either the Web Component or Web View File object pane. The result is a zip file that contains the web view file content from both the target environment and the object migration package. This feature is intended to help users access the web view file content contained in the object migration package prior to importing the package, so the content can be analyzed for differences with the web view file content on the target environment. (Tri-39848)
Security	<p>The TRIRIGA Application Platform is enhanced to make it easier for administrators to manage which reports a group can access. Before this enhancement, TRIRIGA treated all reports as executable by any user unless a group was specified on the Security tab of the report. Since TRIRIGA ships with 13,000+ reports, the burden of setting and managing the appropriate security group access for each report was significant.</p> <p>This enhancement provides levels of report access at the group level. There are two levels: Implicit Access, which is the default, and Explicit Access.</p> <p>Implicit Access: This is the legacy behavior. Consider a hypothetical security group A that by default is configured to have implicit access. Users in group A can view any report in the system that has either of the following configurations: No groups listed on the Security tab, or Group A listed on the Security tab.</p> <p>Explicit Access: This is the new behavior introduced by this enhancement. Consider a hypothetical security group B that is configured to have explicit access. Users in group B can view any report in the system that has the following configuration: Group B listed on the Security tab.</p> <p>To set the report security for a group, in the Access tab, in the Object tree, select Report Viewer, then in the Data Access section, select Implicit Access or Explicit Access. (Tri-49418)</p>
Security	You can now configure TRIRIGA to use the geography and organization from the user's profile in addition to the user's geography and organization from the user's security groups to determine the user's geography and organization access. After connecting to the database as the TRIRIGA user, run and commit the following SQL statement to enable this functionality in the TRIRIGA Application Platform: insert into ENVIRONMENT_PROPERTIES (ENVIRONMENT, PROPERTY, VALUE) VALUES('Security','GEO_ORG_SECURITY_MODEL','1') (Tri-49426)
UX Framework	With the new triplat-document-download component, you can provide users with the option to download documents from the Document Manager. For more information, refer to the UX Framework documentation page. (Tri-49890)

IBM TRIRIGA CAD Integrator/Publisher 12.6.0 Enhancements

This release of IBM TRIRIGA CAD Integrator/Publisher does not include any enhancements.

IBM TRIRIGA Connector for BIM 2.6.0 Enhancements

The following enhancement to the IBM TRIRIGA Connector for BIM is in this release in addition to the enhancements described above:

Area of Impact	Description
IBM TRIRIGA Connector for BIM	Added a new Model Management tool for administering models used by the BIM 3D viewer.

Important Installation and Upgrade Information

Pre-10.3.0 requires modification scripts

If you are upgrading from a previous 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 upgrade

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 upgraded 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 of 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)

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 the IBM TRIRIGA wiki at <https://www.ibm.com/developerworks/community/wikis/home?lang=en#/wiki/IBM+TRIRIGA1/page/Support+Matrix>.

IMPORTANT NOTICE: Effective April 30, 2019, IBM no longer supports IBM Tivoli Directory Integrator. While the TRIRIGA Application Platform version 3.6.0 will work with TDI, TDI is not supported after April 30, 2019. Migrate your TDI assemblies to a supported technology, such as Pentaho. In a future release, the IBM TRIRIGA Application Platform will no longer ship with, support, or execute TDI assemblies.

IBM TRIRIGA 10.6.0

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

Important Information

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

Area of Impact	Description
Graphics	Valid file types for the Location Placeholder icon image field include JPEG, JPG, and PNG. (Tri-51754)
Lease Asset Lease	You must retire the workflow, triAssetLease - triFinalApprovalHidden - Update GUI and Schedule Payments. In 10.5.3, this workflow was replaced by the workflow, triAssetLease - triSubmitAccountingReview - Update GUI and Schedule Payments. (Tri-51500)
Security	A user with primary location set should have geography security access to that location to be able to see Move Requests they have created in the Workplace Services Portal or standalone Move Me Perceptive applications. (Tri-276140)
Work Task Services	After entering a time log manually in the perceptive Work Task Services app, one needs to shift focus out of the Start Time or Stop Time field before the "Done" button becomes enabled. One way to do so is to put focus on the Comment field. (Tri-53024)
Work Task Services	Due to an issue with the Google paper tool tip in iOS, the place holder icon next to the Assigned To field in the Create New Work Task page in the UX Work Task Management app does not display any tool tip in any iOS device. (Tri-52355)
Work Task Services	The Offline feature of the perceptive Work Task Services app is not supported in Edge due to its lack of support in INDEXEDDB compound keys and indexed array values. (Tri-52900)
Work Task Services	The Offline feature of the Work Task Services app is not supported in Chrome running in iOS because of its limited support of the Service Worker API. (Tri-53026)

Known Limitations

The following items are known limitations concerning IBM TRIRIGA and are newly added for this release. For Known Limitations related to previous releases, see the [Release Notes](#) page of the IBM TRIRIGA wiki.

Area of Impact	Description
Lease Asset Lease Real Estate Lease	When the lease classification is changed from Operating to Finance within a lease, the disclosure reports will run that lease with the current classification alone. The reports do not yet support two different classifications for different periods.
Lease Asset Lease Real Estate Lease	<p>The following limitations currently apply to incentive adjustments:</p> <ul style="list-style-type: none"> • Support an adjustment of incentive amount only for incentive schedules added before activation. • After adding new incentive schedule at the modification, any adjustment of existing incentive schedules is not supported. • For incentive schedule adjustment, both payment schedule and payment line item should be adjusted. • New incentive schedule that is added after the modification cannot be same date as existing incentive payment schedule. If this happens, the new incentive amount will not be included. <p>(Tri-52727-IJ06586-IV99840)</p>
Lease Asset Lease Real Estate Lease	TRIRIGA currently supports only two asset types: Asset Lease and Real Estate Lease. (RFE-122010)
Lease Asset Lease Real Estate Lease	TRIRIGA does not currently support non-standard calendars.
Move Requests	The IBM TRIRIGA Group Move perceptive app cannot be used to select people to move when a user is on Oracle 12 and is using a non-English language. The Search page freezes when adding the persons returned from a people search. Oracle interim patch 19509982 must be applied to the database server. (Tri-252447)
Requests	If the user logs into the perceptive Service Request application directly without going through the Workplace Services Portal, sometimes when he creates a new service request for himself after he has created one for someone else, within the same session, the new For Me request may not automatically default to the location he used in his previous For Me request. In that case, user should re-select his location. (Tri-260513)
Requests	In the Perceptive Service Request app running in laptops, the screen reader announces elements from the page behind the "Who is this request for" pop-up if zoomed to 200%. To announce the elements correctly, remain to 100%. (Tri-52943)
Work Task Services	If the user creates and saves a time entry through the time log without actually saving the work task in the classic work task app, the timer in the perceptive work task management app is locked. To prevent the timer from locking in the

Area of Impact	Description
	perceptive app, the user should also save the work task in the classic app and not just the time entry. (Tri-51560)
Work Task Services	When performing a Room Search in the Locate app via the perceptive Work Task Services portal or the Workplace Services portal in the Edge browser, if user closes the question dialogue box when prompted for permission for the web site to use the current location, a loading spinner may be displayed indefinitely. Instead of using the 'x' mark to close the question dialogue box, user should tap the "Yes" or "No" button. If the indefinite spinner is displayed upon closing of the dialogue box, user can log out of the perceptive app and re-log in to avoid. (Tri-52275)
Workplace Reservation Manager	In the perceptive Room Reservation app, adding food items to a food order or adding equipment items to a reservation may take some time to process. It is recommended to allow it to finish before performing another action. (Tri-266622)

IBM TRIRIGA 10.6.0 Changes

The following changes to IBM TRIRIGA are in this release:

Area of Change	Description
Assets	The Find action under Related Documents section on Notes & Documents tab of Key Request Form is not displaying the Document records. Also, the Upload action is missing on the Related Documents section. The issue is resolved by selecting the appropriate query needed for Find action and also a new Upload action is added to the Related Documents section. (Tri-29742-IJ02425)
Assets	The Route Group Assets, created for Component Assets, were not being displayed under the Asset section of Job Plan. The issue has been resolved to display the Route Group Asset created for Component Assets by removing the system filter on the query and also adding a new Parent Asset column to display the Parent Asset name for the Route Group Asset records created for component Assets. Also, the workflow that will be triggered to create the Route Group Asset has been modified. (Tri-49742-IJ00016)
Capital Projects	Records no longer display extra white space when viewed within a portal section. (Tri-50265-IJ01135)
Capital Projects	The "Contains" association with Contact Role Object is not removed from Capital Project even after removing the Contact Role record from Capital Project. The issue was resolved by adding a new custom Remove action on Contacts section of Capital Project. And this action calls a new workflow to delete the selected Contact Role record. Since the record is deleted, it also removes the "Contains" association from Capital Project. (Tri-49632-IV99791)
Capital Projects	The Budget Code Structure on Capital Project is not being updated when the Cost Code value on Capital Project is changed. The issue is resolved by creating a new workflow to update the Budget Code Structure from Cost Center of Capital Project. And this workflow is triggered on clicking the save action of Capital Project. Also,

Area of Change	Description
	the same workflow will update the Cost Center on Project Cost Code record. (Tri-50079-IJ00831)
Capital Projects	The Calculated Start and Calculated End dates on capital project are not updated when the dates on task are updated outside the Gantt section of project. The issue is resolved by modifying the workflows triggered on task and project to update the Calculated Start and Calculated End dates on capital project. (Tri-51483-IJ04842)
Capital Projects	The fields under Vendor Company section of Purchase Order form are not populated with data when the Purchase Order is created from RFQ Response. The issue is resolved by fixing the workflow that creates the Purchase Order record to map the Vendor Company fields from RFQ Response. (Tri-5948-IJ02034)
Capital Projects	You can now import MS Project files to Capital Projects under the Schedule tab. (Tri-51126-IJ04033)
Capital Projects Workflow	For, Capital Project - Project Budget - child Cost Code ID will be updated with Capital Project record's 'Accounting Cost Center' value as prefix, also, child Cost Code record's 'Parent Cost Center' will have Capital Project's 'Accounting Cost Center' value as prefix. (Tri-29765-IJ02267)
Classifications	The root classification on some of the Classification fields across multiple BOs is displaying a "-" symbol with no association string selected. The issue is resolved by selecting the correct root classification along with association string on those classification fields. (Tri-277941-IV99576)
Data Modeler	The Start Date and End Date fields on the Job Scheduler are now correctly marked as relative. (Tri-29804-IJ02526)
Facility Assessment	<p>The names of the Operating Environment classification records are changed to fix the order. Operating Environment classification records are now "2-Some adverse Environmental effects" and "3-Average Adverse environmental effects". The ratings on the Appropriateness classification are changed to use 4, 3, 2, and 1 to match other categories under Condition Assessment. (Tri-51781-IJ05804)</p> <p>Note for upgrading customers: The upgrading OM package will create the Operating Classification records "2-Some adverse Environmental effects", and "3-Average Adverse environmental effects" as new records instead of updating existing records. Therefore, you should remove the old records manually from the environment.</p>
Formula Calculations	Classification fields involved in formula calculations now successfully produce results during the formula calculation process. (Tri-51015-IJ03397)
Globalization	Notifications now correctly attach a translated embedded content report for non-US English-language users. When one is available, the embedded report is retrieved from the non-US English-language notification record instead of from the US English notification record. (Tri-50163-IJ00848)
Globalization	Users of the TRIRIGA UX Workplace Services app now only see news records that have the same value in the Language field as the language in the user's profile. Customers that previously translated news records by using the dictionary translation method now must create separate news records for each language. (Tri-53700-IJ07568)

Area of Change	Description
Lease Asset Lease Real Estate Lease	Added the General ledger code template 'Gain(Loss) Exit or Disposal Liability Carryover' and six Journal Entry Setup Templates for a lease with exit and disposal liability carryover (ASC420). The Journal Entry Setup Templates added include: <ul style="list-style-type: none"> • 842 - Record Finance Lease - Record Asset Exit or Disposal Liability Carryover Component • 842 - Record Operating Lease - Record Asset Exit or Disposal Liability Carryover Component • IFRS 16 - Record Asset Exit or Disposal Liability Carryover Component • 842 - Record Finance Lease - Record Asset Exit or Disposal Liability Carryover Component • 842 - Record Operating Lease - Record Asset Exit or Disposal Liability Carryover Component • IFRS 16 - Record Asset Exit or Disposal Liability Carryover Component (Tri-53354)
Lease Asset Lease Real Estate Lease	Added the lease accounting functionality for a lease with exit or disposal cost obligations. The lease will be treated as an impaired lease. (Tri-52500)
Lease Asset Lease Real Estate Lease Security	Added the state action "Accounting Revise", which is available for the Local Lease Accountant group. On the Accounting tab, if the Local Reporting field is checked and a user in the Local Lease Accountant group selects the Accounting Revise action, then the user can select the value of the Contractual Factors field from the Change Type drop-down list on the contract revise popup form. However, on the Accounting tab, if the Local Reporting field is not checked and a user in the Local Lease Accountant group selects the Accounting Revise action, then the contract revise popup form is read-only and the user cannot perform any action. (Tri-51853)
Lease Asset Lease Real Estate Lease	After an amendment, a lease can now successfully transition to Active status when a new payment schedule has the "Include in Amortization Schedule" box unchecked. (Tri-49622-IV99517)
Lease Asset Lease Real Estate Lease	After an index adjustment is applied, the net rent payment of all the fiscal line items within the specified date range are now updated correctly. (Tri-51276-IJ03959)
Lease Asset Lease Real Estate Lease	After doing a Contract Revise/Data Revise and then a Contract Revise/Amendment, both Options and Clauses are now editable for RE Contract Manager users. (Tri-52902-IJ06801)
Lease Asset Lease Real Estate Lease	After you use the Terminate action to perform an early termination of an operating lease, the accrual liability column now displays the carried-over amount, which is the last period of the FLI that was closed. (Tri-49186)
Lease	Corrected a typographical error on the following Lease Journal Entry Setup templates: Asset - GAAP - 842 - Operating - 00014 and Real Estate - GAAP - 842 -

Area of Change	Description
Asset Lease Real Estate Lease	<p>Operating - 00014. In addition, the Calculation Source of Input02 was renamed to 'Finance/Operating Schedule'.</p> <p>To correct Lease Journal Entry Setup records that were created by using these Lease Journal Entry Setup templates, run the following patch helper workflow: triPatchHelper - triCalculate - 10.5.3.1 - Update Name and Calculation Input of Journal Entry Setup. (Tri-49287)</p>
Lease Asset Lease	<p>Finance lease amortization amount for the last fiscal line item was greater than the other fiscal line items when the likely expiration date greater than accounting end date. Now, all amortization values in the finance schedule are the same. (Tri-49574)</p>
Lease Asset Lease Real Estate Lease	<p>For a short-term lease with the Include In Amortization Schedule field not selected on the Accounting tab, a user can now activate the lease directly without the need to select the Generate Accounting Schedule action. (Tri-51637)</p>
Lease Asset Lease Real Estate Lease	<p>For an IFRS lease, changed the formula used to calculate the Rent Obligation as Percentage of FMV field. With this change, the triPVRentBldgOnlyNU field is calculated as follows: triPVRentBldgOnlyNU = triPVofRentNU - triLandRentPortionNU. (Tri-49533)</p>
Lease Asset Lease Real Estate Lease	<p>For an IFRS lease, when the Lease Treatment is Operating for the Current Standard, but Lease Classification can only be Finance for the new standard (IFRS16), when doing the adoption/transition process, the starting ROU Asset Value is now calculated correctly using the following formula:</p> <p>ROU Asset at transition (IFRS16 - Finance) = New Lease Liability (NPV) + Deferred Rent (Current Standard - Straight Line schedule) + Unamortized IDC (Current Standard - Straight Line schedule) + Unamortized Prepayment (Current Standard Straight Line schedule) - Unamortized TI (Current Standard - Incentive Before and/or Incentive After schedule). (Tri-51155-IJ03960)</p>
Lease Asset Lease Real Estate Lease Security	<p>Group Security for Lease Accountant - Fundamentals is updated to show Calculate Lease Treatment form action on Local Reporting tab of Real Estate Lease and Asset Lease. (Tri-51863)</p>
Lease Asset Lease Real Estate Lease	<p>Improved performance of amending a lease. Every time a lease is activated, a copy is created and associated to the lease using a temporary association. The copy is now used during an amendment. (Tri-49619)</p>
Lease Asset Lease Real Estate Lease	<p>In the Lease Classification section of the Accounting tab, the question "No alternative use of specialized asset to lessor at end of lease term?" was changed to "Is this a specialized asset?" When the Accounting Standard is GAAP (FASB), the Override Lease Classification section action is available at all times on the Accounting tab. When you click the action, if the Lease Classification is set to Operating, it changes to Finance and vice versa.</p> <p>Note: If the Accounting Standard is IFRS (IASB) on the Accounting tab, the Override Lease Classification section action is available at all times on the Local Reporting tab if the Local Reporting Required field is selected on the Accounting tab. (Tri-51600)</p>

Area of Change	Description
Lease Asset Lease Real Estate Lease	In the Schedule Operating Fiscal Line Item form, in the Schedule Operating Values section, the value of the Rent Expense field was corrected. It now matches the value of the Rent Expense field in the Operating Schedule section of a lease. (Tri-42974)
Lease Asset Lease Real Estate Lease	Index Adjustment Calculator records now show the correct base payment amount when prior records are opened after additional updates have been made. (Tri-51339)
Lease Asset Lease Real Estate Lease	Journal entries now correctly create when a lease is impaired. (Tri-53433-IJ07459)
Lease Real Estate Lease	Leases now transition to expired when the contract expiration pop-up form is canceled using the browser "X". Lease status is 'Active' only when the contract expiration pop-up form is canceled using the browser "X". (Tri-49251-IV49251)
Lease Asset Lease Real Estate Lease	Leases where Accounting Type is Accounts Receivable (AR) can now be activated without having to use the Generate Accounting Schedules action. (Tri-52596)
Lease Security	Members of the TRIRIGA RE Contract Manager, TRIRIGA Lease Accountant, and TRIRIGA Local Lease Accountant security groups now have read access to the Lease Reclassification record. (Tri-52177)
Lease Asset Lease Real Estate Lease	Notification subject and content for Index Adjustment will now correctly display the action taken. (Tri-29696)
Lease Asset Lease Real Estate Lease	On the Options form the 'Must Exercise By' date field is now always visible regardless of Option Type. Also, the 'Exercise Notice Date' field is immediately updated on change of the 'Exercise Notice' duration field in the 'Exercise Date Notifications' section. (Tri-52215-IJ06467)
Lease Asset Lease Real Estate Lease	On the Payment Adjustment form, the currency and currency indicator now display correctly in the Minimum Adjustment Amount and Index Adjustment Amount fields. (Tri-50934)
Lease Asset Lease Real Estate Lease	On the Process Lease Journal Entries form, a Correct Segment Errors action was added. This action is visible only when there are invalid segment values. After you correct the invalid values, click the action. (Tri-52776)
Lease Asset Lease Real Estate Lease	On the real estate lease and asset lease Local Reporting tab in the Lease Classification section, the field 'Is this a specialized asset?' is now populated with a default value "No". (Tri-53913)
Lease Asset Lease Real Estate Lease	Options can now be edited when an asset lease is in Draft Returned status. (Tri-50100)

Area of Change	Description
Lease Asset Lease Real Estate Lease	Orphan payment instructions are no longer created when you copy a lease with more than one payment instruction. (Tri-51905-IJ05656)
Lease Asset Lease Real Estate Lease	Partial payment and payment line items are now calculated correctly when the full payment start date is on the 29th, 30th, or 31st of the month. No extra payment is created. This change includes semi-annual, quarterly, and monthly payments. (Tri-51518-IJ04639)
Lease Asset Lease Real Estate Lease Security	Permissions for Group Security for Lease Accountant, Lease Accountant - Fundamentals, Local Lease Accountant are modified. Accounting Review Log is no longer editable and Remove form action is no longer visible for user mapped to Group Security for Lease Accountant, Lease Accountant - Fundamentals, Local Lease Accountant. (Tri-51864)
Lease Asset Lease Real Estate Lease	Process Lease Journal Entries will now display the correct filtered results after clicking Retrieve when the Business Unit is changed. (Tri-52089-IJ05769)
Lease Asset Lease Real Estate Lease	Purchase Price when doing a purchase option and Penalty amount when doing a termination option are now included in the last fiscal line item of the Operating/Finance schedule. (Tri-50967)
Lease Asset Lease Real Estate Lease	Purchase Price when doing a purchase option and Penalty amount when doing a termination option is now included in the last FLI of the Operating/Finance schedule. (Tri-50918)
Lease Asset Lease Real Estate Lease	Recalculate NPV section action no longer does the re-classification. It now only recalculates the NPV value. (Tri-53078-IJ07691)
Lease Real Estate Lease	Resolved a scheduled event issue that involved monthly recurrence, where an unexpected extra recurrence event was scheduled if the task being processed was a single partial month and the recurrence date was the same as the task's end date. (Tri-281415-IV99737)
Lease Asset Lease Real Estate Lease	Running the following patch helper makes read-only all records that are associated to any real estate lease and/or asset lease without the dependent flag enabled when the status of the lease is Draft Accounting In Review. Run the following patch helper workflow: triPatchHelper - triCalculate - 10.5.3.1 - Make Dependent Record Read Only When Draft Accounting In Review. (Tri-52777)
Lease Asset Lease Real Estate Lease	Straight Line Rent and Operating Schedules were showing zero dollar amounts for one-time payments when using a Non-standard calendar for both Actual Day and 30 Day calculation basis. Both schedules now calculate the amounts correctly for Actual Day and 30 Day calculation basis. (Tri-53489-IJ07535)
Lease Asset Lease Real Estate Lease	The Accounting Review Log instruction text no longer displays the incorrect message "Enter the Date and Reported By for this Asset." Instructional text on accounting review log form is corrected to now display "Accounting Review Log Details." (Tri-51849)

Area of Change	Description
Lease Real Estate Lease	The Add button no longer shows in a query or referenced data section if the section or form is read only. The platform checks to make sure the section is not read only before displaying the Add button as defined by the 'Show Add' button set on the section in the form builder. (Tri-53835-IJ07977)
Lease Asset Lease Real Estate Lease	The Amount field under Calculation section of Lease Journal Entry Setup form is displaying a number with decimal values in place of operators. The issue is resolved to display value and operators correctly by modifying the workflow that maps value into Amount field. (Tri-49764-IVIJ00256)
Lease Asset Lease Real Estate Lease	The behavior of the Calculate Lease Treatment action on the Local Reporting tab is now the same as the Calculate Lease Treatment action on the Accounting tab. (Tri-49537)
Lease Asset Lease Real Estate Lease	The first index adjustment calculator populates the base index from the index clause and subsequent calculators now populate from the previous calculators. (Tri-51550)
Lease Asset Lease Real Estate Lease Security	<p>The following groups were updated to correct some actions and editable forms that should have been read only.</p> <ul style="list-style-type: none"> - TRIRIGA Lease Accountant - TRIRIGA Lease Accountant - Fundamentals <p>The TRIRIGA Local Lease Accountant group is new with this release. (Tri-51092-51093)</p>
Lease Asset Lease Real Estate Lease	The following message now appears when you issue an Index Adjustment Calculator record, "When you issue this Index Adjustment Calculator, the payment line items are updated and cannot be reverted. Click Continue to perform the update or Close to cancel." (Tri-52785)
Lease Asset Lease Real Estate Lease	The history record created by the Accounting Revise action was not showing values from original lease under Amortization Summary section on the Local Reporting tab. Configuration is changed to show values from original lease under Amortization Summary section in history record of the Lease. (Tri-53292-IJ07272)
Lease Asset Lease Real Estate Lease	The Incentive Schedule section on the Accounting tab no longer disappears after the incentive payment schedule is adjusted. (Tri-52747)
Lease Asset Lease Real Estate Lease	The Maintenance Expense in the gross index lease is now calculated correctly when there is a Min% or Index Adjustment applies. (Tri-50722-IJ03183)
Lease Asset Lease Real Estate Lease	The new modification date is now used when you perform an initial adoption on only the Local Reporting portion of a lease. (Tri-52163)
Lease	The NPV is now calculated correctly when the Likely Termination End Date is not at the end of month. With this change, the Liability and Asset Value are down to 0 at the end of the lease. (Tri-51033)

Area of Change	Description
Asset Lease Real Estate Lease	
Lease Asset Lease Real Estate Lease	The NPV is now calculated correctly when using the retail calendar. With this change, the Liability and Asset Value are down to 0 at the end of the lease term. (Tri-51229-IJ03849)
Lease Asset Lease Real Estate Lease	The order of the fiscal periods used to calculate the NPV value is changed and the NPV value is now calculated correctly. (Tri-51232)
Lease Asset Lease Real Estate Lease Security	The Other Dates, Lease Notifications, Space Use Agreement, Client Attributes and Related Record sections are no longer editable when the RE Lease record is in 'Draft Accounting In Review' status. (Tri-29838)
Lease Asset Lease Real Estate Lease	The Percent Increase FASB Governed Leases metric report now excludes local reporting fiscal line item records. (Tri-52555)
Lease Real Estate Lease	The percentage rent clause on a real estate lease no longer creates additional incorrect percentage rent reporting records. The formula was corrected for triEndDA on RE Percent Rent Setup. This formula is used to create the events for initiating the percentage rent reporting records. (Tri-50933-IJ01574)
Lease Asset Lease Real Estate Lease	The Remove section action on the Payment Schedule section in Option record now removes Payment Schedule from the Option. (Tri-19345-IJ07079)
Lease Asset Lease Real Estate Lease	The Rent Expense and P & L Impact columns on the Accounting tab of the lease in the Finance Schedule section are removed. The columns are not relevant when it is a finance lease. (Tri-53223-IJ07112)
Lease Asset Lease Real Estate Lease	The Rental Prepayment field on the Accounting tab now includes only amounts from Pending and Scheduled Payment Schedules. Voided Payment Schedules are excluded. (Tri-53172-IJ07109)
Lease Asset Lease Real Estate Lease	The Swap Debit/Credit field was removed from the Lease Journal Entry Setup and Lease Journal Entry Setup Template forms. Now, when Journal Entry amounts are negative, the system automatically sets the Swap Debit/Credit field in the Journal Entry record, swaps the debit and credit values, and sets them to positive. (Tri-51911-IJ05645)
Lease Asset Lease Real Estate Lease	The task "Set Lease Treatment = OPERATING" in the workflow "triContract - Synchronous - Set Lease Treatment from Accounting Standards" no longer fails when the workflow is triggered on a real estate lease because the field being mapped in that task does not exist in Real Estate Contract business object. The workflow now only maps the field for an asset lease. (Tri-50930-IJ02868)

Area of Change	Description
Lease Asset Lease Real Estate Lease	The tax and insurance gross percentages are no longer included as part of rent, so the Net Rent column in 842 schedules now only shows the gross percentage rent. (Tri-52778)
Lease Real Estate Abstract Real Estate Lease	The Total Rentable (Imperial) field on Real Estate Contract displays an incorrect UOM as square-meters. The issue is resolved by removing the UOM Source Attribute set on triTotalRentableImpNU field on triRealEstateContract BO to display the correct UOM as square-feet. (Tri-50297-278592-IV98898)
Lease Asset Lease Real Estate Lease	The UOM currency indicator now displays on the Rent Expense field on the Schedule Operating Fiscal Line Item form. The issue was resolved by checking the "Show Uom" checkbox for triRentSLExpenseNU field on triLikelyTermSLFiscalLineItem form. (Tri-53286)
Lease Asset Lease Real Estate Lease	The updated Gross Lease amount is now updated from the modification fiscal period forward. (Tri-5866-IJ01364)
Lease Asset Lease Real Estate Lease	The value in the Liability column now comes down to \$.00 on the Local Reporting tab when the user performs an initial adoption to the new standard on both schedules and the look back periods are different. (Tri-52132)
Lease Asset Lease Real Estate Lease	The value of NPV on the Local Reporting tab is no longer modified when the user performs an initial adoption to the new standard on only the Accounting tab. (Tri-52131)
Lease Asset Lease Real Estate Lease	To avoid the possibility of a lease being stuck in Processing state when Submit For Accounting Review and there is no Expiration Date, the design is updated to bypass the processing when there is no expiration date when Submit for Accounting to Review. Once the lease accountant enters the accounting end date, it will use that date to calculate the accounting schedules. (Tri-52854-IJ06830)
Lease Asset Lease Real Estate Lease	triExpInclInRentNU is now populated with (Maintenance, Tax, Insurance and Other Expenses). The field is used as part of the Net Rent Payment calculation for Straight Line/Amortization Schedules. A new field, triLeaseTermExpInclInRentNU, is added and populated with the same expenses. The field is used as part of the Net Rent Payment calculation for Operating/Finance Schedules. (Tri-51482-IJ04679)
Lease Asset Lease Real Estate Lease	When a lease is amended, all the fiscal line items before the modification periods now show in the accounting schedules. (Tri-53637)
Lease Asset Lease Real Estate Lease	When a lease is in Draft Returned status, the payment line items are now correctly in read-only mode and the clauses are in editable mode for the contract administrator. (Tri-51833)
Lease Asset Lease Real Estate Lease	When a lease is terminated, a history lease is now created to capture the values before the termination process begins. The journal entry is now created with the correct value. (Tri-29701-IJ02527)

Area of Change	Description
Lease Asset Lease Real Estate Lease	When a lease with Initial Liability Carryover balance is impaired, accrued liability was calculated incorrectly. The new design will compute accrued liability after the rent expense calculations. (Tri-52528-IJ06834)
Lease Asset Lease Real Estate Lease Owned Property (Fee) Agreement	When a payment schedule is voided, you can see the voided payment line items for the voided payment schedule by running the new related report that displays the voided payment line items on the payment line items section of the payment schedule. (Tri-19580)
Lease Asset Lease Real Estate Lease	When amending a GAAP (FASB) Operating Lease with the Local Reporting Option enabled, the Asset Value on the Local Reporting tab is now calculated as expected. Current Asset Value = The difference between the new liability - previous period liability (ending liability) + previous period asset value (ending asset value). (Tri-53671-IJ07723)
Lease Asset Lease Real Estate Lease	When amending and recalculating the accounting schedules of a lease with the Local Reporting Required field checked, now only one fiscal line item per fiscal period is created. (Tri-51604)
Lease Asset Lease Real Estate Lease	When an amendment and payment adjustment was previously performed on a lease, selecting Data Revise and then the Submit for Accounting Review action no longer causes an attention message. (Tri-51078-IJ03354)
Lease Asset Lease Real Estate Lease	When an index lease also contains a payment schedule that is not associated to the index clause, the variable lease payment column is now updated correctly. You must run the following patch helper workflow to update the minimum amount on the PLIs that are associated to an asset lease or a real estate lease: triPatchHelper - Synchronous - Update Minimum Payment on PLIs. This patch helper is called from: triPatchHelper - triCalculate - 10.5.3.1 - Update Index Leases. (Tri-51734)
Lease Asset Lease Real Estate Lease	When doing a modification, the starting right of use asset value is no longer using the unamortized initial direct costs, unamortized prepaid rent, or unamortized incentive before commencement date in calculations. (Tri-50965)
Lease Real Estate Lease	When issue a Percentage Rent Reporting record for the payment period(s) which had been paid already, the one-time payment line item for the catchup payment adjustment is now created and only showing the Total Due Amount. The unpaid payment line items, with the due date that is beyond the start and end dates specified in the Percentage Rent Reporting record, will no longer be adjusted. They will remain with the same as the scheduled amount. (Tri-52497-IJ07249)
Lease Asset Lease Real Estate Lease	When performing a Change in Assessment (renewal option) on a lease that has a dismantle cost, the Total Rent and NPV are now calculated correctly. The dismantle cost is part of the net rent amount of the last fiscal period only. (Tri-53304)

Area of Change	Description
Lease Asset Lease Real Estate Lease	When the Accounting start date is not on the first day of the fiscal period and the Accounting end date is not on the last day of the fiscal period, the incentive amounts for those periods are now prorated. (Tri-49706-IV99711)
Lease Asset Lease Real Estate Lease	When using a retail calendar, net rent of the fiscal line item that covers two partial payments of two payment schedules is now populated correctly with the sum of those two partial payment amounts. (Tri-49490-IV99270)
Lease Asset Lease Real Estate Lease	When you create a payment schedule with the 30-day prorata basis, the partial amount is now calculated using 30 days in a month. (Tri-49707-IJ00175)
Lease Asset Lease Real Estate Lease	<p>You must run the following patch helper workflow to update existing fiscal period start and end dates to the current system time zone: triPatchHelper - triCalculate - 10.5.3.1 - Update Fiscal Periods Dates for Current System TimeZone. This patch helper calls the following patch helper: triPatchHelper - Synchronous - Update Fiscal Period Dates for Current System TimeZone.</p> <p>After you run the 10.5.3.1 patch helper, if you update the system time zone, you can correct affected records by using the "Correct fiscal period start and end dates to system server time zone (milliseconds)" action on the General tab of the Application Settings. (Tri-52788)</p>
Lease Asset Lease Real Estate Lease	You must run the patch helper workflow that sets the value of the Local Standard Adopted field to false on the Local Reporting tab of existing asset leases and real estate leases. Run the following patch helper workflow: triPatchHelper - triCalculate - 10.5.3.1 - Update New Standard Adopted to False on Accounting and Local Reporting Tab. (Tri-51501)
Locations	A new Contact Details tab with Contacts section is added to the Installation, Vertical Shaft, Proposed Site, and the Proposed Retail Location Forms. With this new addition, a user will be able to add contact details to Installation, Vertical Shaft, Proposed Site, and the Proposed Retail Location Forms through the Contact Role Manager application for Locations. (Tri-14869)
Locations	The Comment record under the Notes & Documents tab of the Building record no longer becomes read-only when the parent Building record is activated. (Tri-29823)
Locations	The Planned Tasks related report under Tasks section of Maintenance tab on Location records does not display the expected Task records due to incorrect Status filters. The issue is resolved by removing the Status filter with Value as "Complete". (Tri-49329-IV98902)
Maintenance	The user can add duplicate records when selecting multiple records at a time using Find action under Assets and Locations section on Job Plan. The issue is resolved by modifying the workflow to add the Asset or Location only if it is not already added to the section and display an attention message to the user if the record already exists. (Tri-49328-IV99143)
Move Requests	In the 10.5.3 version of the perceptive Move Me app, the drop-down list on the Floor field is now cleared when the Building, City and Campus fields are all cleared. (Tri-49181)

Area of Change	Description
Move Requests	In the Group Move Perceptive Application, the requested move date will now properly validate that it is at least one day in the future in respect to the current user's time zone preference. As a general note, the requested move date can be changed in the "Where" tab once a location is selected. (Tri-53324)
Move Requests	In the Move Me perceptive application, the requested move date on the summary page will no longer be hidden when using Microsoft Edge.
Move Requests	In the perceptive Group Move app, even if the group move is set up with a service plan which generates multiple work tasks, only one move request should result in the Active tab of the Group Move home page. (Tri-53704-IJ08030)
Move Requests	Safari browser displays, by default, some icons inside an input field. But, these icons visually conflict with the triplat-select-input clear button. The solution for this was to use CSS to hide the default icons. (Tri-262247)
People	A copy of an External Contact record now correctly contains the last name from the copied record. (Tri-51120)
People	In the Credentials tab of an employee or consultant record, the Assigned Procurement Cards section now includes a status column. (Tri-51165)
People	The Card Type and Credit Card fields on the My Profile record no longer flash in Chrome browser due to the auto-filling settings of Chrome and the on-change workflow triggered on Credit Card field. The issue is resolved by changing the Start Row of these fields to display as Credit Card in Row1 and Card Type in Row 2. (Tri-53758)
People	The formula on the triFirstNameTX field and on the triLastNameTX field on My Profile is removed. (Tri-52095)
People	The instruction on the Profile tab of the Employee, Consultant, External Contact, and triAltPeople forms now reflects the new default password of 1Password*. (Tri-52505)
People	The value of System Organization is saved when set in a user's My Profile record and cleared when X-ed in a user's My Profile record. (Tri-261910)
People	The values for procurement card expiration year now range from 2010 to 2030. (Tri-51077)
Perceptive Move Me App	In the Move Me Perceptive application, the legend in the search results list view is now readable when you use Microsoft Edge. (Tri-270008)
PM Schedule	When a user is trying to remove the PM Event from a Draft PM Schedule, the PM Event is not being removed even after clicking on Remove Schedule action on PM Event. The issue is resolved by creating a new state transition action on PM Event BO and a workflow to remove the PM Event from a Draft PM Schedule on click on Remove Schedule action. The user has to click on Save on PM Schedule for the PM Event to be removed completely from PM Schedule. (Tri-50061-IJ00613)

Area of Change	Description
Portals	After a user accepts a lease contract action item in the Action Items portal, the accept task is processed correctly. (Tri-50298-IJ01870)
Portals Security	<p>In a new TRIRIGA environment, the default portal for system/admin now opens to the new "Home - System Setup Portal" portal. With this change, new installations can quickly access and configure the system, including features like the password rules and the default password, as well as other application settings and setup. The default password in a new TRIRIGA environment is 1Password*.</p> <p>After you update an existing TRIRIGA environment to 10.6.0, you can change the system/admin home portal to "Home - System Setup Portal" by updating the system/admin My Profile record.</p> <p>Any change to the default password does not affect existing users. Only users created after the change have the new default password. (Tri-49918)</p>
Portals	<p>Typographical errors corrected for the following navigation items:</p> <p>"Indicator - Maintenance Cost or Area Maintained" corrected to "Indicator - Maintenance Cost per Area Maintained"</p> <p>"Indicator - Move Cost or Person" name corrected to "Indicator - Move Cost per Person".</p> <p>Note: For existing upgrading customers, the OM package creates 2 new navigation items. Therefore, the old navigation items must be manually deleted from navigation builder. These navigation items include:</p> <p>Indicator - Maintenance Cost or Area Maintained</p> <p>Indicator - Move Cost or Person</p> <p>(Tri-40060)</p>
Procurement	When using a different currency, the "Invoiced Subtotal" and "Invoiced Total" fields on Line Item Summary Form were incorrectly calculated. The issue is resolved by selecting the correct UOM Source Attribute on those fields. (Tri-51486-IJ04633)
Projects	Planned Duration is no longer sortable in the Gantt Scheduler. (Tri-49922-IJ00276)
Projects	Tasks (including Schedule, Inspection, Submittal, Punchlist, Contract Review, and Work Tasks) that become summary tasks will have their planned and actual date sections made read only, since they will roll up from their children. (Tri-274860-IV97979)
Projects	The Currency UOM now displays correctly on the Financials tab of the Program record based on the logged in user's currency. Also, the currency UOM on Evaluation tab of a Funding Request now correctly displays based on the currency selected on the Funding Request record. (Tri-50717-IJ02826)
Projects	The Line Number is now displayed on the Line Item Summary records created from Bid Line Items. (Tri-52746-IJ06639)
Projects	The Project Team portal query is not displaying any results due to the incorrect Association Type selected under Association Filters of the query. The issue is

Area of Change	Description
	resolved by selecting the correct Association Type to display the results. (Tri-49734-IVIV99858)
Projects	When an RFQ Response is awarded, the remaining RFQ Response records on the RFQ Document remain in Draft state. The issue is resolved by creating a new workflow to retire the remaining RFQ Response records when one of RFQ Responses is awarded. The same issue is fixed for Bid Response on Bid Document. (Tri-50180-IJ00807)
Reporting	A MID error is no longer displayed when the user runs the "triEmployee - triPeople - Filtered Active Employees are grouped by Organization" report from the Report Manager. The issue was resolved by saving the query and also changing the label for the Status field in System Filter Columns to Status. (Tri-29767)
Reporting	For the queries where in the extended formula of fields under triProperty and triBlanketPurchaseOrder BOs were causing performance issues, the Reverse Association Flag is removed and correct business object and association type have been mapped on the association filter. (Tri-50518-IJ02862)
Reporting	Look at Shadowed By query section. There is PM Schedule record displayed under Shadowed By section now. (Tri-5926)
Reporting	My Team Unassigned Tasks no longer displays tasks in Accepted status. (Tri-52545-IJ06687)
Reporting	The Association Type in the Association Filter of the query "triMaintenanceRepairCost - Filter - triEstimateManage" is changed to use "Cost Group For". (Tri-49227)
Reporting	The Closeout queries "Closeout Checklists - Routing In Progress", "Closeout Checklist - Completed", and "Closeout checklist - Retired" queries now return the results in correct statuses (Tri-29805).
Reporting	The filter and group-by classification records of a metric report now render completely and match all the records found in the report. (Tri-49894-IJ00704)
Reporting	The queries - "triPurchaseOrder - Navigation - Purchase Orders Pending Approval to Current User - All Projects" and "triApproval - Filter - triReviewer is Current User" has the bad reverse association flag set on Advanced tab. The issue is resolved by removing the reverse association on these queries and selecting the correct association type as "Is Approval For" on Advanced tab of query "triPurchaseOrder - Navigation - Purchase Orders Pending Approval to Current User - All Projects" and selecting the association type as "Is Reviewer For" on Advanced tab of query "triApproval - Filter - triReviewer is Current User". (Tri-279081-IV98944)
Reporting	The X axis of the chart report "triComponentRenewal - Graph - Associated to Current Record" shows year values without comma. (Tri-43230)
Reporting System Setup	The Database Server field was added to the General tab in Application Settings. The default value is Oracle. To ensure that correct SQL is used for BIRT reports that differ based on database type, set the value of Database Server to match your TRIRIGA database type. (Tri-52781)

Area of Change	Description
Requests	A duplicate notification is no longer created when the reservation is submitted because of multiple workflows being triggered for the same purpose. The issue is resolved by retiring the synchronous workflows that are creating and sending the notification and making use of the other asynchronous workflows to create and send the notification. (Tri-49896)
Requests	The triRecurrencePatternTX field, which was removed from triReservationResource BO is no longer referenced in the switch task of workflow "triReservationResource - Synchronous - Book - Is Bookable". This removes server log warnings at the time of creating a reservation. (Tri-50252-IJ01074)
Requests	When a reservation is submitted for a requestable space (requires owner approval), the reservation is pending and waiting for approval by Resource Owner. However, the message in notification record received by the user says that the reservation is confirmed. The issue is resolved by creating a new notification content record that will be used for reservations that are pending and waiting for approval by Resource Owner. (Tri-49322-IV99252)
Reserve	The Equipment Reservation is not considering the Task Grouping Rule set on Service Plan for creating the tasks. The issue is resolved by modifying the workflow to create tasks based on the Task Grouping Rule set on Service Plan. (Tri-49476-IV99438)
Security	<p>The Association string that is formed from My Profile to the Group object is now consistent and no longer varies depending on how the records were added. When you are in an employee record and add a group, the association string that is formed from the employee My Profile to Group is now "Associated To". When you are in a group and add an employee, the association string that is formed from the employee My Profile to Group is "Associated To".</p> <p>Note for upgrading customers: This fix does not update the association string in existing records. This fix only applies to new records that are created after upgrade.</p> <p>(Tri-278944-IV98953)</p>
Security	When Query tasks are run by the user with group security defined, the tasks now consider the security setup of the user if the "Query Security Enabled" flag on the query task is checked. (Tri-41293-IJ00803)
Shipping Reports	On the Building and Property business objects, the UOM for the triGrossMAreaNU field is now correct. On the Property business object, the extended formula for the triGrossMAreaNU field is now correct. (Tri-283821-IJ00279)
Space Assessment	Clicking the Verify button rapidly no longer causes an incorrect calculation on the In Progress percentage. (Tri-49197-IV98292)
Space Assessment	The discrepancy People and Asset searches in Space Assessment and the Assigned To search in Space Management now have a slight delay to prevent unnecessary requests to the server while the user is still typing to prevent premature searches. (Tri-52541-IJ07527)
Sustainability - Opportunities - Opportunity Groups	The Total Estimated Repair Cost field now calculates correctly. (Tri-52091-IJ05872)

Area of Change	Description
System Setup	When the Schedule Type on System Job Scheduler is set to Advanced, the Recurrence Pattern link to create a Job Event is no longer missing. The RecurrencePatternType field on System Job Scheduler form is now visible. (Tri-53296-IJ07258)
System Setup	You must run the following patch helper workflow. The patch helper updates Application Settings by copying the value of the GAAP Adoption Fiscal Period field into the IFRS Adoption Fiscal Period field and copying the value of the GAAP Look Back Fiscal Period field into the IFRS Look Back Fiscal Period field. Run the following patch helper workflow: triPatchHelper - triCalculate - 10.5.3.1 - Application Settings Defaults. (Tri-50246)
Tasks	The Events created through "Recurrence Pattern Type" link on Task forms now allow you to create future tasks or other objects. (Tri-49193)
Tools	<p>The UOM in the United Kingdom Pounds UOM Value record was incorrectly populated. The UOM is changed to Pound Sterling.</p> <p>Note for upgrading customers: For existing upgrading customers importing the OM package with this fix, the UOM Value record for Pound Sterling will be created as a new record instead of updating existing record. This new currency value can be used for any records created moving forward. But, existing records using the old value will continue using the old UOM Value record. Deleting the old UOM Value record will break existing data using that currency value. Do not delete the old United Kingdom Pounds UOM Value record. (Tri-51826-IJ05621)</p>
Work Task Services	In Application Settings > Mobile Settings tab, there is a new checkbox field for "Using TRIRIGA Anywhere?". If the TRIRIGA Anywhere product is not used, this checkbox should remain unchecked to improve application performance. If the TRIRIGA Anywhere product is used, then this checkbox should be checked in order to process critical workflows in assets, locations, and work tasks used by TRIRIGA Anywhere. (Tri-49510-IJ00280)
Workflow	Retiring an employee mapped under a secondary location for a space record now removes the record under it and updates the headcount. (Tri-52041-IJ05867)
Workflow	The issue is resolved by fixing the BO State transition action triReadOnlyHidden on BOs under triCostSetup module to check the checkbox for Read Only. (Tri-49681-IJ06696)
Workgroups	The filter in workflow task "Get Parent triOrganizations" now correctly uses the form name triWorkGroup. (Tri-52542-IJ06692)
Workplace Reservation Manager	An incorrect mapping for triLayoutCostNU field on the "Update Details from Space" task of workflow "triReservationManager - Synchronous - Location Resources - Create" no longer causes warnings in server log at the time of creating a reservation. The issue was resolved by removing the mapping for the triLayoutCostNU field from "Update Details from Space" task of workflow "triReservationManager - Synchronous - Location Resources - Create". (Tri-50004-IJ01010)
Workplace Reservation Manager	For non-admin users, the Check In, Check Out, and Early End buttons now show correctly on the Location Reservation form. (Tri-50695-IJ02958)

Area of Change	Description
Workplace Reservation Manager	In Location Reservation, when the subject, date or time of a reservation on a room which requires approval is changed, the new approval notification/e-mail will carry the revised information instead of the original one. (Tri-51354-IJ04637)
Workplace Reservation Manager	In the perceptive Room Reservation app, the icon for the location search now maintains its size when the browser window width is narrowed or on a tablet device. (Tri-269011)
Workplace Reservation Manager	In the Room Reservation perceptive app, the ">" arrows are now mirrored correctly when a bi-directional language is used. They are now displayed as "<" arrows. (Tri-269338)
Workplace Reservation Manager	In the Room Reservation perceptive application, the countdown alert bar will no longer show when there is no countdown. (Tri-49254)
Workplace Reservation Manager	The Reservations data source is now refreshed each time the user changes the month. (Tri-29755)
Workplace Reservation Manager	When reviewing a room reservation with multiple food orders and one or more equipment orders using the perceptive Room Reservation app, if the user reviews the equipment order after he closes the food order pop-ups with the "X" icon, he no longer gets a contact-your-server-administrator error. (Tri-276855)

IBM TRIRIGA 10.6.0 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.

The following patch helper workflows are in this release:

Name	Description
triPatchHelper - Synchronous - 10.6 - Main Patch Helper	This is the main workflow which would start the 10.6 patch helpers. If 10.5.3.1 patch helper had not been executed already, it will also start the 10.5.3.1 patch helpers.
triPatchHelper - triCalculate - 10.6 - Application Data - App Version	This workflow creates an Application Version record for 10.6 fix pack Release.
triPatchHelper - triCalculate - 10.6 - Application Settings Defaults	Sets default values in the Application Settings record.
triPatchHelper - triCalculate - 10.6 - Recalculate triComponentRenewalYrTX Formula on Component Renewal	Change the formulae in the field, so this workflow is to force re-calculate the field using the new formula.
triPatchHelper - triCalculate - 10.6 - Update Procedures for Procedure Rule	Set the default Procedure Rule as “per task” on Procedure records that do not have a Procedure Rule set.
triPatchHelper - Synchronous - Update Minimum Payment on PLIs For Index Lease	The patch helper workflow has been fixed, so that when an index lease had been adjusted with index adjustment, the adjustment amount of the Expected Cash Before Tax is no longer removed. The amount stays the same. (Tri-54831-IJ08961)

IBM TRIRIGA Application Platform 3.6.0

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 and are newly added for this release. For Important Information related to previous releases, see the [Release Notes](#) page of the IBM TRIRIGA wiki.

Area of Impact	Description
Object Migration	When creating object migration export packages, some drop-down lists, such as the Object selector, will show a scroll bar. This is a browser limitation. (Tri-52481)
Security	All users are allowed to add a new calendar given that the user's security groups' access to the triSetup business object is set to either "Read, Update and Create" or "Full Access," but the Default Calendar can only be edited by admin users. (Tri-52214-IJ06013)
UX Framework	There is a limitation with displaying the favicon when adding an UX application home screen shortcut on iOS Safari/macOS Safari or bookmark in Windows Microsoft Edge with an SSO enabled TRIRIGA environment. The TRIRIGA favicon will not be displayed and a default general icon is generated specific to the browser. The shortcut can still be used to launch the UX application. (Tri-53388)
UX Framework	There is an iOS Safari limitation when using UX applications that are launched from the home screen. The home screen shortcuts are added by using the "Add to Home Screen" feature in Safari. The logged in session will not persist if the application is no longer in focus (i.e. pressing the Home button or switching between running applications). Upon returning to the application via the home screen shortcut or running applications view, it will bring you to the login page, losing your previous place in the application. As a workaround, launch the Safari application and then load the application instead. (Tri-52838)
Workplace Reservation Manager Add-in for Outlook Exchange Server	There is an Outlook Add-in issue where if you modify an occurrence of a recurring meeting and change the room resource from RoomA to RoomB, RoomA is still marked as busy in Outlook's Scheduling Assistant. This is due to a limitation in Microsoft Outlook where Outlook fails to send a cancellation message to a removed attendee of one occurrence of a recurring meeting if a Save As operation is done before the Send Update. (Tri-49785-IJ00579)

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 of the IBM TRIRIGA wiki.

Area of Impact	Description
Email	<p>Invalid email addresses in TO or CC lines can impact the acceptance and delivery of the individual email messages.</p> <p>The Incoming Mail Agent will attempt to process all emails sent to the inbox. If an email contains an invalid address, that message may be removed from the inbox, not processed, and the agent will continue processing the other messages in the inbox.</p> <p>For outgoing mails, an invalid email in the TO or CC line may cause that individual message to not be sent, and an error is added to the server.log. Other outgoing notifications in the queue continue to be processed.</p>
Installation	<p>If the application server is running on WebSphere 9, UX applications, such as Move Me, Group Move, Space Assessment, and Space Management, will not load for users who have a non-US English language set in their profile. (Tri-252859)</p>
Installation	<p>When TRIRIGA is installed to a managed node on WebSphere Network Deployment, the TRIRIGA install reports success, yet the JDBC Data Source may not be configured correctly. If TRIRIGA does not start, you need to log into the WebSphere Admin Console. Navigate to Resources -> JDBC ->Data sources. Select the "data" data source. When the data source opens, scroll down to the Security settings section. If the "Component-managed authentication alias" drop-down field is set to "(none)", change it to the appropriate "TRIRIGADData" setting. Save your changes and restart the WebSphere server. This has been reported on TRIRIGA installations involving Microsoft SQL Server databases, but may also affect TRIRIGA installations on Oracle and DB2. TRIRIGA installations to unmanaged nodes on WebSphere do not encounter this issue. (Tri-53031-IJ07701)</p>
Integration Object	<p>You may see FieldNotFoundException errors in the server.log after you upgrade your TRIRIGA Application Platform to 3.6.0. The errors can occur during Integration Object upgrade processing. The Integration Object upgrade package loads successfully; however, what causes the errors is validation logic that runs against existing Integration Object records. It does not find an expected Integration Object field. The validation logic is intended to provide helpful logging; The Integration Object upgrade is not affected. (Tri-54588)</p>
Licensing	<p>The "IBM TRIRIGA Field Services Named" license provides all functionality of the "IBM TRIRIGA Field Services Authorized" license. At a future date, the name of the "IBM TRIRIGA Field Services Named" license will be changed to "IBM TRIRIGA Field Services Authorized". (Tri-54567)</p>
Notifications	<p>In either the classic TRIRIGA app or the perceptive Service Request app, when a service request is raised and the user languages are not the same in the user profiles of the originator, the person the request is for, and the person who completed the request, the notification e-mails sent upon request submission and request completion will most likely contain a mixture of languages. (Tri-273685)</p>

Area of Impact	Description
Object Migration	<p>When using the Object Migration tool to copy a package, the newly created package may take a long time to load, and in some cases the package loading process may time out, if the copied package contains application or web component objects. The newly created package may also take time to export. The workaround is to remove the application and web component objects from the package being copied prior to copying the package. You can then add the application and web components objects back into the newly created package after it loads. (Tri-54577)</p>
Object Migration	<p>You may see errors similar to the following while importing object migration packages containing association objects. These errors can occur if the target environment contains an association that has the same name, source business object, and target business object as an association object contained in the package being imported. It does not affect the overall success of the package being imported.</p> <pre> com.tririga.platform.persistence.PersistenceException: Error executing sql: Sql[SQL= insert into module_association (company_id, source_module, source_bo_id, ass_module, ass_bo_id, association_verb, rev_association_verb, dependent_flag, PROJ_CONTAINMENT_DISABLED, association_type, created_by, created_date, updated_by, updated_date, cascade_read_only, assoc_id) values (208133,17,107324,7,106872,'Has','Has',false,false,0,1,201 8-08-21 19:32:35.021,1,2018-08-21 19:32:35.021,false,46112) ,DB transaction ID=(None),Statement:= insert into module_association (company_id, source_module, source_bo_id, ass_module, ass_bo_id, association_verb, rev_association_verb, dependent_flag, PROJ_CONTAINMENT_DISABLED, association_type, created_by, created_date, updated_by, updated_date, cascade_read_only, assoc_id) values (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)] Caused by: PreparedStatementCallback; SQL [insert into module_association (company_id, source_module, source_bo_id, ass_module, ass_bo_id, association_verb, rev_association_verb, dependent_flag, PROJ_CONTAINMENT_DISABLED, association_type, created_by, created_date, updated_by, updated_date, cascade_read_only, assoc_id) values (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)]; ORA-00001: unique constraint (TRIDATA13.PK_MODULE_ASSOCIATION) violated ; nested exception is java.sql.SQLIntegrityConstraintViolationException: ORA-00001: unique constraint (TRIDATA13.PK_MODULE_ASSOCIATION) violated (Tri-54613) </pre>

Area of Impact	Description
Object Migration	<p>You may see errors such as the following appear several times in the server.log when importing the application upgrade object migration package. The error resolves itself by the time the package completes and does not affect the overall success of the application upgrade.</p> <pre>com.tririga.platform.smartobject.dataaccess.SmartObjectNameConflictException: Another Object with same name exists. Name: 'Lease Journal Entry Setup Template - Input01'. Existing object: SmartObjectImpl[ID=SmartObjectId[ID=128243805,Business Object ID=10033691],Business Object=BoImpl[name=triJournalEntryCalculationVariable,id=10033691,module=ModuleImpl[name=triFinancial,id=25031]]] New object being saved: SmartObjectImpl[ID=SmartObjectId[ID=128243806,Business Object ID=10033691],Business Object=BoImpl[name=triJournalEntryCalculationVariable,id=10033691,module=ModuleImpl[name=triFinancial,id=25031]]]</pre> <p>(Tri-49073)</p>
Record Runtime	<p>There are some known edge cases in Firefox where the cancel workflow can fail to fire when a user closes the browser window. They have been intermittent, rare and difficult to replicate. We continue to investigate this browser-specific issue. (Tri-29692-IJ02866)</p>
Reporting	<p>For non-US English-language users, reports in Report Manager are not sorted on the Title column. (Tri-273899)</p>
UX Framework	<p>In the procedures step, the reading input field's UOM type and UOM are not editable due to a limitation of the UX framework. It will display the UOM that is defined at the procedure step definition. In addition, it will not have a display mask that is matching the UOM value. The display mask will default to "#.####". (Tri-52059)</p>
UX Framework	<p>On an Android phone, when you log into any of the TRIRIGA perceptive applications, such as Workplace Services Portal, Service Request, Room Reservation or Move Request, if the login page is displaced upward either by the user or by the virtual keyboard, the title banner of the subsequent pages may remain outside of the screen until the user swipes the page down, at which point the banner is anchored. (Tri-263275)</p>
UX Framework	<p>The UX triplat-number-input component does not display a zero but instead displays nothing when the number is smaller than the number of decimal places specified in the display mask. For example, 0.001 is shown as blank instead of 0.00 when the display mask is set to two decimal places. You can change the display mask to increase the number of decimal places. One place you may experience this is in the Add Material pop-up in the perceptive Work Task Services application. (Tri-54061)</p>
Workplace Reservation Manager	<p>In a Room Reservation in the perceptive app, you can only make room selections for exceptions that are within the same building as the original room. (Tri-269915)</p>
Workplace Reservation Manager	<p>The Available column of the Availability chart in the Availability tab of a recurring reservation in the perceptive Room Reservation app is not mirrored correctly in a bi-directional language. (Tri-269988)</p>

Area of Impact	Description
UX Service Request Security	In the Security Manager, in the TRIRIGA Request Central group, when the model access permission for Models > triServiceRequest is set to Read and Update, a user cannot update existing service requests. (Tri-48832)
UX Workplace Services Security	Users with read permission to Models > triServiceRequest in the TRIRIGA Request Central group can see existing requests when signed in on /p/web/serviceRequest but cannot see existing requests when signed in on /p/web/workplaceServices. Also, users with read permission to Models > triReservationManager in the TRIRIGA Request Central - Reserve group can see existing reservations when signed in on /p/web/roomReservation but cannot see existing requests when signed in on /p/web/workplaceServices. (Tri-275098)
Administrator Console	If you make changes to the User List (add/delete/restrict/unrestrict) when using multiple workflow agents from the Administrator Console's Workflow Agent Info tab, you must reboot the server after saving the change to make sure the change is propagated properly to the other servers. (Tri-54514)

IBM TRIRIGA Application Platform 3.6.0 Changes

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

Area of Change	Description
Accessibility	A JAWS user can now navigate on related reports lists. (Tri-50154-IJ00798)
Accessibility	<p>Accessibility improvements include:</p> <ul style="list-style-type: none"> • When navigating through radio buttons via keyboard, the user can select the correct radio button without using the up/down key more than once. • User now can focus/trigger form section actions, refresh, and select result size in a query section when navigating via the keyboard. • User now can trigger form actions such as create draft and save via keyboard when a form is displayed in portal sections and as a separate window. • When using a keyboard, when a form section action triggers a pop-up layer, the user can cycle through various elements on the pop-up layer until the pop up is closed. • When using the Chrome browser, user now can navigate an alert message and trigger an action via keyboard. <p>(Tri-278908-IV98949)</p>
Accessibility	Images that have no meaning have the text alternative attribute set to null. (Tri-278910-IV98956)
Accessibility	<p>JAWS now can announce the following descriptions:</p> <ul style="list-style-type: none"> • Collapsible buttons description • Table size and content description • Quick links description • X button description <p>(Tri-278917-IV98960)</p>

Area of Change	Description
Accessibility	The application form in classic TRIRIGA maintains its focus and the user can tab to the next field after selecting a value from the auto complete list. (Tri-50139-IJ00802)
Accessibility	The application form in classic TRIRIGA maintains its focus and the user can tab to the next field after selecting a value from the drop-down list using the keyboard and JAWS 18. (Tri-50138-IJ00797)
Accessibility	The visual presentation of text and images of text has a contrast ratio of 4.5:1 for normal text and a 3:1 ratio for large-scale text. (Level AA). (Tri-49385-IV98962)
Accessibility	To make tables accessible, header cells are marked with <th> and data cells are marked with <td>. (Tri-278909-IV98954)
Administrator Console	In Performance Metrics, the label for 'Workflow Events Queue' and 'Throughput per minute' count was updated to clarify that the number of Events in the queue are counted, not the total number of workflows executed for a given event. (Tri-51830-IJ05156)
Administrator Console	Selecting Admin Summary in the Administrator Console no longer causes an error when using IBM Java 8. (Tri-51572-IJ05149)
Administrator Console	The PlatformMaintenanceScheduler agent no longer runs after the user requests it to stop in the Administrator Console. The agent is now terminated when user requests stop. Also, changed the Administrator Console so that when the user stops the PlatformMaintenanceScheduler agent, the agent status displays as "Stopping" until the agent is terminated, at which time the status changes to "Stopped" and the Start action is available. (Tri-5879-IJ01579)
Administrator Console	When downloading log files from the TRIRIGA Administrator Console, two additional white space (0x0a [\n]) characters are no longer added to the beginning of the file. (Tri-53209-IJ07117)
Administrator Console	When Performance Timings and Query categories are both enabled in Platform Logging, the user no longer sees a MID error and an exception no longer shows in the server.log. (Tri-5884-IJ01542)
Agents	The cleanup agent no longer fails when a user is deleted and the user is set in the SYSKEY_COLUMN. (Tri-5819)
Assets	When a Duration field that contains both weeks and months or contains weeks and years is multiplied in a formula, the resulting value is now correct and no longer ignores the number of weeks. (Tri-52187-IJ05843)
Currency	Various error messages were eliminated by upgrading to Prototype 1.6.1. (Tri-5309; 50992; 51506; 51519; 51607; 51608; 51611; 51687; 51688; 51689; 51690; 51738; 51745; 51844; 51854-IJ02169)
Currency Conversions	Currency is now correctly converted when creating a program and adding a fund. (Tri-51319 -IJ04952)

Area of Change	Description
Data Modeler	In the Data Modeler, the Where Used report for a field now includes instances where the field's business object is a secondary business object in a report. (Tri-29798-IJ02424).
Data Modeler	Resolved a module revision issue, where the initial revision was not being generated for newly created modules. (Tri-52291)
Data Modeler	The values displayed in a field's UOM Source Attribute property now include the section name as a suffix. (Tri-48506)
Document Management	An .html file that is downloaded from the Document Manager no longer contains escaped characters that were not escaped when the file was uploaded. Now all files uploaded to the Document Manager are downloaded in the format in which they were uploaded. (Tri-51785-IJ05364)
Document Management	Document uploads now correctly use the file location chosen by the user. (Tri-53247-IJ07140)
Document Management	<p>The way Document Manager handles the paths of documents that are uploaded to records was changed. Previously any document uploaded to a record would be assigned a path of: Object Attachments/<User name>/<bo name>/<doc_name>.<extension></p> <p>When a given user owned two leases and uploaded two unique documents that had the same name to each lease (one document to each lease), the first uploaded document would be overwritten because both document records shared the exact same path.</p> <p>The way paths are represented for documents that are uploaded to a record was changed from: Object Attachments/<User name>/<bo name>/<doc_name>.<extension> to: Object Attachments/<User name>/<bo name> - <spec_id>/<doc_name>.<extension></p> <p>Now, each record has a unique path for its child documents that does not conflict with other records of the same type owned by the same user. (Tri-49198-IV98101)</p>
Email	When you use an incoming mail agent, email message bodies generated by certain mail clients are no longer added to the email record as an attachment. Also, the notes field in the email message now displays the message in HTML if it is available; otherwise, it displays the plain text version. (Tri-51789-IJ05074)
Form Builder	When you rename a Form and publish it, the triFormNameSY field on the existing records that were created from the form and that have the old form name are now updated to reflect the new form name. A similar update is done for triFormLabelSY field if you modify a Form label and publish the form. (Tri-5868-IJ01980)
Gantt	24-hour calendars can now be used with the Gantt scheduler. (Tri-49549)

Area of Change	Description
Gantt	Added checks when loading Gantt/Availability translation files to make sure they have data and are accessible by the TRIRIGA user. If no data or not accessible, Gantt/Availability uses internal strings and no translations are available. Warnings are logged. (Tri-51231)
Gantt	Gantt scheduler properly handles MS Project Import, where planned start, planned end, planned calculated start, and planned calculated end dates and times now correctly adjust for the project resource time zone. (Tri-279247-IV98929)
Gantt	Gantt section date-time picker now returns the value the user selected in cases where the time zone set on the user profile is different from the browser time zone. (Tri-49008)
Gantt	In the Gantt, Calculated Start/End date now properly calculates in scenarios where the project time zone is ahead of the server time zone. (Tri-49492-IV99291)
Gantt	The Gantt consistently handles umbrella tasks when their dates are recalculated because of child task date changes in the Gantt Scheduler. (Tri-280351)
Gantt	When a project is imported into the Gantt, if the TRIRIGA project has no Planned Start date (or Planned End date based on the Calculate direction), the imported tasks are no longer planned against today's date or 1969 depending upon whether a calendar is used or not. Either the earliest Planned Start date or the latest Planned End date is now used to schedule the imported project. (Tri-49768-IJ00683)
Gantt	When the percentage complete is provided and the ALLOW_GANTT_SCHEDULER_UPDATE_ACTUALS property is set to True, the Total Actual Working Hours now updates correctly. When the percentage complete is provided and the ALLOW_GANTT_SCHEDULER_UPDATE_ACTUALS property is set to False and the Actual Date is set, the Total Actual Working Hours do not update. (Tri-50454-IJ02955)
Gantt	When you open a Gantt task from a Gantt section and edit schedule values such as planned start, end, or total working hours, the Gantt correctly updates when the user's time zone and the system time zone were out of sync, and in some other scenarios that involve different time zones between users and tasks. (Tri-279029-277449-IV98730)
Gantt	Working hours and end dates now properly calculate when the other was updated in the Gantt Scheduler. This also ensures that umbrella task values are also properly calculated and updated. (Tri-280845)
GIS	Resolved an issue in upgraded platform environments where the server.log indicated a NullPointerException on the REP_TRACK_HISTORY column of the REP_TEMPLATE_HDR table when running any TRIRIGA query that existed prior to Platform 3.5.2 and the query was not first saved on the upgraded platform. (Tri-49103-IV97888)

Area of Change	Description
Globalization	In Portfolio > Locations > Property, when a non-US English-language user filters a query and exports the filtered data, the exported Excel file now contains the appropriate data. The exported Excel file also contains the appropriate data when a non-US English-language user does not filter the query before exporting. (Tri-50704-IJ03000)
Graphics	The message "This chart has no data" now displays correctly when a graph report in a form does not contain any data. (Tri-29746-IJ02238)
Graphics	The width of the combo box in a graphic section toolbar for location path was increased. (Tri-51289-IJ04397)
IBM TRIRIGA Workplace Reservation Manager Add-in for Outlook	Resolved an issue in the IBM TRIRIGA Workplace Reservation Manager Add-in for Outlook. When a user changed the meeting time of an occurrence of a recurring meeting, the TRIRIGA room sent a decline message for the new occurrence time even if it was available. The Reservation Coordinator's Calendar view in TRIRIGA also showed duplicate reservations for the room. Now the TRIRIGA room accepts the modified occurrence if available and duplicate reservations are not created. (Tri-283853-IJ00579)
Installation	Made some minor changes to the SetVarcharColsToNumeric_ORCL.sql script, while at the same time enhancing the script to improve performance. (Tri-49395-IV98972, Tri-50027-IJ00484)
Installation	The fix pack installer now runs properly on clients using Windows Server 2016. The TRIRIGA fix pack installer and clean installer are updated to InstallAnywhere 2017 SP1, which is compatible with the latest Windows OS as well as previous versions. A known issue with the clean installer will be addressed in a future release: the detected JVMs on the JVM selection panel are not 64-bit. For this, you must manually select the location of the 64-bit JVM. (Tri-50962-IJ03511)
Installation	The installation documentation was updated to clarify that UTF8 in the context of Oracle means AL32UTF8. (Tri-53239-IJ07164)
Installation	When you do a platform upgrade, an upgrade class no longer writes an error to the server.log if there is a problem with a Hybrid Application/Platform table. (Tri-284837-IJ00434)
Integration	<p>IBM TRIRIGA Connector for Business Applications (CBA) security improvements:</p> <p>If calls to CBA operations now throw unexpected exceptions, check the user's security group access.</p> <p>This includes any unexpected exceptions with all integrations using CBA, Integration Object, and any delivered TRIRIGA integrations, such as but not limited, to Data Load Manager, Esri Connector, and Energy Star.</p> <p>Note that CBA query operations always check record security access regardless of the ENFORCE_GUI_LEVEL_QUERY_SECURITY setting in the TRIRIGAWEB.properties file.</p> <p>See the <i>IBM TRIRIGA Application Platform 3 Connector for Business Applications Technical Specification</i> for details regarding each CBA operation. (Tri-51151-IJ04745)</p>

Area of Change	Description
Integration	The check for valid licenses is refactored to avoid causing a race condition where integrations received an "Insufficient License" message when the server had valid licenses. (Tri-51140-IJ05343)
Integration	When using OSLC with a user that does not have a language set, the server.log no longer contains an entry about trying to determine language. (Tri-49802)
Integration Object	A new checkbox labeled "Resolve Column Label Spaces?" was added to the Outbound Bound Query section of the Database Outbound Scheme for Integration Object records. When selected, spaces are replaced by underscores in the column names for the generated create table and insert SQL of the outbound table. This is necessary because TRIRIGA query column labels are used for generating column names of outbound tables, and TRIRIGA query column labels can have spaces. When selected, this checkbox also resolves an issue for any column names, such as those for UOM fields, which are automatically added to the generated outbound SQL, in that any spaces in those are replaced with an underscore. (Tri-50152-IJ00805)
Integration Object	<p>In the File to DC scheme, blank number fields included in the import file no longer cause SQL errors when the integration runs on either a Microsoft SQL Server database or a DB2 database.</p> <p>Also, the Data Map type column for the Integration Object File to DC scheme no longer defaults to 'Text', for all database types. The type column now shows the actual database field type for the staging table. This change will be applied automatically to existing Integration Object File to DC records the first time the TRIRIGA application server is started after platform upgrade, as long as the Integration Object record has the correct database connectivity configuration. If the database connectivity is not configured correctly on the Integration Object record, you will see warnings in the server.log file the first time the TRIRIGA application server is brought up after platform upgrade. This can be corrected after upgrade, by opening the Integration Object record, correcting the database connectivity configuration, and selecting More> ReMap.</p> <p>When the TRIRIGA application server is brought up the first time after upgrade, the server.log file may indicate warnings related to the validation of Data Maps portion of the Integration Object upgrade. In general, these are OK, as they indicate issues with existing Integration Object records, and these issues are ones that existed with these Integration Object records prior to upgrade. (Tri-5928-IJ02024)</p>
Integration Object	Integration Object File Outbound scheme now correctly exports record field values containing UTF-8 characters. The Integration Object File Outbound scheme now uses UTF-8 encoding for exporting record field values. (Tri-29814-IJ02452)
Integration Object	Integration Object's Apache POI library is upgraded to version 3.17 to keep current with the platform's version of Apache POI. With this change, Data Load Manager's 'Create Data Load Spreadsheet' functionality now uses the latest Apache POI Excel spreadsheet styling functionality. (Tri-54097)

Area of Change	Description
Integration Object	Resolved an Integration Object issue, where the File Inbound scheme was not correctly handling rows in import files when a parent record did exist on the target system. Prior to this fix, if a row in the import file had an invalid parent record name, the child record would be created under the last valid parent record name from a previous row in the file. This issue is fixed in that the child record will not import in this situation. An error message will be logged to both server.log and an Integration Failure record. This failure does not stop the remainder of the import file from being processed. (Tri-51900-IJ05647)
Integration Object	The Integration Object File Outbound scheme has a new checkbox named "Resolve Line Breaks?". When selected, all line breaks detected for field values being exported are replaced with a space in the exported file. (Tri-51903-IJ05781)
Integration Object	When using the Parameter custom task to trigger the Integration Object and the result set is more than 1000 records, the server.log no longer displays an error. The 1000 record limitation is still valid when using the custom task in a workflow; now you no longer see the error. The 1000 record limitation is not present if you execute the integration object directly from the integration object record.
Locations	Resolved a smart section issue with the "Find" action on non-pass through reference single row reference sections, where duplicate non-pass through reference records were being created if the "Find" action was used to select a value more than once. (Tri-49993-IJ00504)
Logging	The following information about the system was added to the server.log: platform version and build number, application version, Java SDK version, database full version, and available memory. (Tri-278790)
Logging	The TRIRIGA server.log no longer logs duplicate messages about false positive and invalid sessions. (Tri-278387)
Navigation Builder	A default report is now required when you create a scorecard navigation item. (Tri-48655)
Notifications	Action buttons in Notification emails are now translated into the language of the TRIRIGA user who is receiving the notification. (Tri-50193-IJ01514)
Notifications	<p>An issue where the Notifications count and the Notifications Portal records count is resolved. The actual records shown to the user in the Notifications Portal now matches the count shown in the Tools menu for Notifications.</p> <p>Also, an upgrade class has been created to resolve an issue with users not receiving notifications. There are two new TRIRIGAWEB parameters called NOTIFICATIONS_RECOVERY_FROM_DATE and NOTIFICATIONS_RECOVERY_AGE_DAYS. The user can enable these parameters to recover notifications based on a specific time. This fix will display all the previously lost notifications for the users. All newly created notifications are displayed as expected.</p> <p>Note: If no specific date is entered for these two parameters, all the missing notifications found in the database will be recovered. This upgrade class should only be run once. (Tri-49649-IV99573)</p>

Area of Change	Description
Notifications	External-email bcc notifications created through workflows in TRIRIGA are now working as expected. (Tri-278598-IV98970)
Notifications	Notification content was displaying '{n}' for a parameter when its mapped field did not have a value. Now, an empty string displays for the parameter in this situation. (Tri-52053-IJ06531)
Notifications	When sending or receiving emails with invalid email addresses or blank emails, the processing continues and no longer fails.
Object Label	During an object label object migration import, when the object label tied to an object exists in the object migration import package and does not exist in the target environment, the first revision of the two revisions that are created for an object during import is no longer given the Revision Suspended object label instead of the object label tied to the object in the import package. (Tri-49933)
Object Label	Resolved an Object Label issue where if the "Generated from" field on an Object Label definition referenced itself, it caused properties not to show for any object that had that object label applied, and it would also give the appearance of hanging threads on the TRIRIGA application server. An example of an object label "Generated from" field referencing itself would be if you have an object label definition named MY_COMPANY:1.0 and its "Generated from" field is set to "MY_COMPANY:1.0. (Tri-50153-IJ02454)
Object Label	The Current Object Label column on the Object Label Manager Labeled Objects tab now correctly indicates the current object label for workflows. (Tri-51758)
Object Label Manager	The Object Label Manager landing page now lists all object label definitions in alphabetical order. Additionally, object labels display in alphabetical order after you click either "Generated From" or "Merged From" within an object label definition. (Tri-51574)
Object Migration	A new field tracks when an object migration package is modified. Now the Property pane in an object migration package displays the created date and the modified date. (Tri-238950)
Object Migration	An export no longer fails when the package contains navigation collections with navigation items that contain group overrides for groups that were deleted. (Tri-52126-IJ06060)
Object Migration	Import packages now can change the encryption type for a password field on the target environment when the encryption type for that field on the target environment is set to Do Not Encrypt prior to import. If the encryption type is set to something other than Do Not Encrypt, then it cannot be changed by an object migration import package. (Tri-276836-IV98495)
Object Migration	Object migration comparison reports and object 'Compare' actions no longer flag 'Allow Delete' on non-Gantt form sections (Tri-53314-IJ07273)
Object Migration	Objects in the Object pane for import packages now show the expected objects after running a compare and then clicking an Object Type node link in the Navigation pane. (Tri-61727)

Area of Change	Description
Object Migration	The Include Dependents check box no longer appears when you create an export package and search for web components. The Include Dependents check box is only relevant for applications. (Tri-52341)
Object Migration	The notification email that is sent after an import completes no longer contains an invalid hyperlink to "Click here to Open Package". (Tri-49548)
Object Migration	UX WebView Metadata cache is now automatically cleared after importing a package. After object migration import, users no longer need to clear Object Metadata cache in the TRIRIGA Administrator Console in order prevent resource not found issues for imported UX WebViewFiles. (Tri-285735-IJ00988)
Object Migration	Warning messages that were caused by workflow issues no longer show in the Object Migration log. (Tri-49720-IV99841)
Object Migration	When an object is selected from the Navigation pane, the new Legend link in the Objects pane shows details about each object migration export icon and an object label conflict matrix. (Tri-52253, Tri-52813)
Object Migration	When creating an object migration export package, a descriptive message to the right of the Include Dependents check box appears after searching for applications in the Object Finder pane. The message is, "It is not recommended to clear this option because removing automatically-included dependent objects, such as workflows, queries, and business objects, might lead to incomplete UX applications. By default, all dependents are included in the export package." (Tri-52342)

Area of Change	Description
Object Migration and Revisions	<p>Improved object migration comparison reports, revision comparison reports, and comparison reports between two objects with different names. The changes include the following:</p> <p>Business Objects</p> <ul style="list-style-type: none"> • Display Mask is only compared for Number and Classification Rollup fields. • Precision and Rounding Rules only compared for Number and Classification Rollup. <p>Business Object State Transitions</p> <ul style="list-style-type: none"> • Sequence and State Sequence are no longer compared as they have no runtime impact. <p>Forms</p> <ul style="list-style-type: none"> • Show Embedded Link Flag only compared for Data Type sections. • Border Flag is no longer compared as it can't be controlled on form. • UI Type only compared for Field Types List and Gui Action fields. • Sub Type is no longer compared as it can't be controlled on form. • Query Bo, Query Module, and Query Name only compared on fields where Smart Section Locator is enabled. • Tab Id is no longer compared as it has no runtime impact. • View Mode is only shown for Availability sections. <p>Queries</p> <ul style="list-style-type: none"> • Graph Type is only compared for Graph reports. • Show in Web Graphics is only compared for Graphic reports. <p>(Tri-49422)</p>
Object Revisions	Resolved a clean install issue with revision tables where they were populated out of the box with unnecessary data for the TRIRIGA environment. (Tri-52015)
Offline	Date and DateTime values populated to Excel using TRIRIGA Offline Forms are now displayed using the Date and DateTime formats defined in the TRIRIGA user's profile and can be used as a part of Excel-based Date calculations. (Tri-49696-IV99863)
People	The date 01/01/1970 can now be entered or reported when the time zone of the system is set to (UTC) Coordinated Universal Time. (Tri-29732-IJ02237)
Performance	Improved the efficiency of queries with geo/org security and that previously used large amounts of database resources. (Tri-273744-IV98506)
Performance	The deletion of users from a very large group is now done immediately. (Tri-49657-IV99556)

Area of Change	Description
Performance	<p>The following provides an alternative way to handle org/geo security on a query. The generated SQL is less expensive and may perform better depending on your org/geo hierarchy structure. To use this method, you must comply with the following limitations:</p> <ul style="list-style-type: none"> . The triPathSY field must be part of the organization and of all geography business objects. . The values of triPathSY fields on organizations and all geography records must be consistent with the hierarchy structure. . The organization and geography used within any security group must contain fewer characters than the size of triPathSY on the organization and geography business objects. <p>By default this functionality is not turned on. It can be enabled by setting the following property in the TRIRIGAWEB.properties file. The values of triPathSY must be in sync before using this in any production system.</p> <p style="padding-left: 20px;">GEO_ORG_SECURITY_CONTRIBUTE_BEHAVIOR=PATH (Tri-29817-IJ03324)</p>
Performance Analyzer	Made a few minor display/filtering improvements with the Performance Analyzer. (Tri-48689)
Performance Analyzer	Performance Analyzer now displays properly on WebLogic and WebSphere Liberty profile servers. (Tri-29804-IJ02526)
Performance Analyzer	Performance Analyzer now properly handles double quotes in export of the Summary page. (Tri-49947)
Performance Analyzer	Performance Logging was updated to properly handle batch SQL logging. (Tri-48603)
Portals	The value of the number of action items that is displayed in a portal is now the same as the number of action items records. (Tri-285871-IJ00986)
Projects	Gantt scheduler properly handles MS Project Import, where planned start, planned end, planned calculated start, and planned calculated end dates and times now correctly adjust for the project resource time zone. (Tri-278415-IV98929)
Projects	MS Project import does not automatically schedule the imported project plan if the server is using GANTT_STRICT_MODE=MINIMAL or FALSE. The Gantt scheduler will do the scheduling. (Tri-51612-IJ06107)
Projects	Project Schedule Tasks no longer result in incorrect values in the Planned Start Date or Planned End Date fields after clearing them. (Tri-273970-IV98028)
Projects	The Apply Record and Apply Template actions no longer have an issue when the project's time zone makes the stored date fall on the previous or next day. The issue occurred when the tasks start dates were calculated when the record or template was applied. (Tri-51309-IJ04278)

Area of Change	Description
Projects	<p>Two new TRIRIGAWEB.properties allow you to better configure your Gantt Scheduler for your specific business needs.</p> <p>GANTT_STRICT_MODE is updated to have an additional value (MINIMAL) - when used, all first tasks (tasks without incoming dependencies) are moved left as little as possible. Planned Task Start Date/End Date are honored and determine where the task instead of the as soon as possible constraint. All next tasks are moved left or right to be as close as possible to their ancestors and to not violate any dependency or constraints.</p> <p>GANTT_LOCK_STARTED_TASKS is added to allow you to tell the Gantt Scheduler to refrain from changing any task that has already started. (Tri-279340)</p>
Record Runtime	<p>An unsafe character ":" (colon) that was passed on the URL when you switched between form tabs that contained queries with runtime filters was replaced with an "_" (underscore). (Tri-51024-IJ03350)</p>
Record Runtime	<p>Gantt and Availability sections now show the twelve-hour clock when set as the user's date time format preference. (Tri-51041-IJ03619)</p>
Record Runtime	<p>Resolved an issue that could result in the cancel workflows not firing when a user closes the browser window before saving state. This is fixed in all the browsers other than Firefox. (Tri-29692-IJ02866)</p>
Record Runtime	<p>The height of query sections within portals no longer grow continuously when a related report is selected and the browser's vertical scrollbar is clicked. (Tri-29776-IJ02530)</p>
Record Runtime	<p>Upgraded MPXJ to 7.0.2 (Tri-29785)</p>
Reporting	<p>A Form Builder issue that caused fields in multi-tab sections to not properly highlight when selected from the navigation pane is resolved. (Tri-51763)</p>
Reporting	<p>A user without access to My Reports no longer gets an unauthorized error when the user views chart reports. (Tri-279218)</p>
Reporting	<p>After exporting reports to Excel, the column widths are appropriate to the column values and the ID field wraps properly. (Tri-50926-IJ01596).</p>
Reporting	<p>All fields that should be editable in editable queries are now working correctly. (Tri-50483-IJ02907)</p>
Reporting	<p>An empty date/datetime value of variables in an extended formula variable no longer cause the calculation of the formula to fail and return default value of the target field. This ensures that the built-in HasValue() function always returns the proper value when the parameter is date or datetime. To check if a date/datetime field has value, use this statement:</p> <pre>if (HasValue (aDate) , ...)</pre> <p>Do not use</p> <pre>if (aDate="", ...)</pre> <p>(Tri-50282-IJ01088)</p>

Area of Change	Description
Reporting	Boolean fields now display in reports as check boxes instead of TRUE/FALSE values. (Tri-50739-IJ02914)
Reporting	Column headers for queries displayed in a portal section now correctly display on the initial page load. (Tri-53732-IJ07878)
Reporting	Column headers now display when a query is rendered in a portal section. (Tri-52180)
Reporting	Currency fields no longer display incorrect values when viewed from within a query. (Tri-51446-IJ04396)
Reporting	Date field values that are part of an associated business object in a multi-business object metric tabular report now display correctly when the report is exported to Excel. Before this change, the date field values in the Excel spreadsheet used the date the spreadsheet was exported. (Tri-52829-IJ07094)
Reporting	Editable query columns now honor the width percentage specified in the report template on the Columns tab. (Tri-280327-IV99331)
Reporting	Extra icons and characters are no longer displayed next to editable fields in editable queries. (Tri-29799-IJ02731)
Reporting	For Query Reports that have filters enabled, a check is added whenever a user attempts to use an invalid filter in a date or date-time field. If an invalid string is used in this filter, then a "No data to display" message is shown to the user in the body of the query results table, and zero results are returned. (Tri-275587-IV97769)
Reporting	If you enter "%%" or some other invalid combination of special characters in a query filter, you no longer see a Java exception. Instead, the page now refreshes. Note: Entering any special characters other than a single "%", "-", "_", or "/" might not properly save, but you do not see an exception or error message. (Tri-281473-IV99523)
Reporting	In group by reports with sums, in which there are multiple groups, the sum of the last sub-group now displays. For example, if a report was to sum the area, and was grouped by building and floor, the final floor in the report for a particular building used to omit the sum for that particular floor and would display only the sum area for the entire building. Now, the sum for that floor is displayed first, followed by the entire building sum. (Tri-277160-IV98399)
Reporting	In the Form Builder, using the Navigation pane under Task tabs to move from one sub-tab to another tab no longer freezes. (Tri-50082-IJ00608)
Reporting	In the Report Manager, when you add a business object, the names of business objects in the module are now sorted in alphabetical order and existing business objects are also displayed in alphabetical order. (Tri-50311)
Reporting	Order buttons in Scorecard queries are now visible in all supported browsers. (Tri-283547-IJ00121)

Area of Change	Description
Reporting	Query sections no longer render under-width or not at all when forms are displayed in a portal section. (Tri-49652-IJ00305, Tri-50114-IJ01316)
Reporting	Query sections no longer render under-width. (Tri-29743-IJ02239)
Reporting	Records now load correctly when you select the 'Inventory' tab in the quick find portal. (Tri-52723)
Reporting	Running a report with a defined Group By no longer causes a platform error. (Tri-5883-IJ01609)
Reporting	System actions and custom actions are now enabled on system reports with group by fields. (Tri-49100-IV97981)
Reporting	The current user's time zone is now displayed in a metric query chart with Group By Day and Group By Hour charts for DateAndTime field groupings. (Tri-50123-IJ00756)
Reporting	The query header height is corrected for reports. (Tri-53517-IJ07689)
Reporting	The sum row in a form query section now displays without a vertical scroll bar when the section contains a small number of query results. (Tri-51003-IJ03596)
Reporting	Triggering an email action from a report no longer causes an error. (Tri-5939)
Reporting	Users can no longer copy a reserve legacy, reserve, or external report to My Reports. (Tri-53622-IJ07704)
Reporting	Users no longer have to scroll to see hierarchical query data after expanding a query row. This issue affected queries that returned fewer results than the default max height of the query section. (Tri-53631-IJ07753)
Reporting	When a record consists of multiple summary report sections, an Excel export from one of the summary reports now exports without error and only contains data from that summary report section. (Tri-281252-IV99462)
Reporting	When a summary report is displayed in a portal section, there is no decimal precision for the count values, and only a decimal precision of 2 for any number values. In addition, date, date time, and time values also display as they would if the report had been run from the Report Manager. (Tri-49299-IJ00580)
Reporting	When a user enters an invalid value for an 'In' query filter or a 'Not In' query filter, the user now sees a message describing the correct input format instead of an error. (Tri-50121-IJ00974)
Reporting	When designing metric reports, filters for the triModifiedSY and triCreatedSY system fields now show operators relevant to date fields. (Tri-52353-IJ06314)
Security	A privilege escalation vulnerability is resolved. (Tri-53087-IJ07018)
Security	Activating or deactivating users no longer causes a failure when the action includes a lookup to a Group Members record that does not exist. (Tri-277538-IV99409)

Area of Change	Description
Security	An SQL injection vulnerability is resolved (Tri-53646-IJ07698)
Security	In response to a reported vulnerability, Apache CXF is updated to version 3.1.14. (Tri-50706)
Security	Intermittent changes of Models group permissions to No Access no longer occur when ENFORCE_GUI_LEVEL_QUERY_SECURITY=Y in the TRIRIGAWEB.properties file and a user signs in to a UX app. (Tri-51553)
Security	Record lookup no longer returns an empty screen when ENFORCE_GUI_LEVEL_QUERY_SECURITY is set to true. (Tri-50951-IJ03143)
Security	Records marked as system records can no longer be deleted with System Delete actions in queries. If you attempt to delete a system record, a message is displayed in the server.log, detailing why the record was not deleted. (Tri-271471)
Security	Security token is no longer exposed on the UX URLs. (Tri-51522)
Security	<p>Support for user-defined HTTP response headers was added to the TRIRIGAWEB.properties file.</p> <p>USER DEFINED HTTP RESPONSE HEADERS</p> <p>This property enables an HTTP response header on ALL HTTP responses that originate from this server. Each header must</p> <ol style="list-style-type: none"> 1. Each header must be placed on its own line. 2. The header name must be prefixed with the value 'httpheader.' 3. The header name and header value must be separated by an '='. <pre> httpheader.<first_header_name>=<first_header_value> httpheader.<second_header_name>=<second_header_value> httpheader.<nth_header_name>=<nth_header_value> </pre> <p>Example 1: To add the "X-Frame-Options: SAMEORIGIN" response header to all TRIRIGA server responses, an admin enters the following value in the TRIRIGAWEB.properties file.</p> <pre>httpheader.X-Frame-Options=SAMEORIGIN</pre> <p>Example 2: To add the "Strict-Transport-Security: max-age=31536000; includeSubDomains" response header to all TRIRIGA server responses, an admin enters the following value in the TRIRIGAWEB.properties file.</p> <pre>httpheader.Strict-Transport-Security= max-age=31536000; includeSubDomains</pre> <p>(Tri-49222, Tri-49223)</p>
Security	System licenses are now also considered when determining whether a user has access to a portal. (Tri-284419)

Area of Change	Description
Security	The IBM TRIRIGA Workplace Services and IBM Facilities and Real Estate Management on Cloud Workplace Services User licenses have full access to the Locate app. (Tri-281416)
Security	To exclude cross-frame scripting, add the following to the TRIRIGAWEB.properties file: <code>httpheader.X-Frame-Options=SAMEORIGIN</code> (Tri-276768-IV98382)
Security	When you delete a group in the Security Manager, the group is also deleted from each user's profile. (Tri-29695)
Security	Workflow query tasks now have a property that enforces security on the records retrieved. It acts the same as if the report/query was run through the application. (Tri-50189)
Security Groups	Added a new confirmation prompt when performing Security Group revision compare and Security Group object compare. The prompt message reads: "This process may take several minutes. Do you want to proceed?" (Tri-49450)
Space Assessment	Autocomplete drop-downs for locator fields no longer display extraneous or repeated columns that are not displayed in the underlying query. (Tri-51161-IJ03836)
SSO	Systems with SSO enabled now honor the hidden USERCOUNT field in My Profile records. (Tri-52540-IJ06414)
Time Settings	A new time format is introduced to time fields in TRIRIGA applications. In addition to the current military format, there is also standard time. The new mask shows for any new time field as "hours:minutes:seconds am/pm." When interacting with a time field in a form, a new time field picker helps the user choose hours, minutes, seconds or period. The default value for time fields is set to "12:00:00 AM", which represents a day's zero hours. A user can switch between these two formats with the new property added in TRIRIGAWEB.properties named TIME_FIELD_STANDARD_DISPLAY. This property by default is set to true, which displays time fields in standard time format. To switch to military format, change this property to false. (Tri-279800)
UX Builders	In the Web View Metadata form, Deleted Files section, a Delete action was added to enable deleting records. Note to upgrading customers: The Deleted Files section will be removed in a future release. Instead, revisioning will be the method to access previous versions of files. (Tri-53564)
UX Framework	Added documentation for triblock-image-info-card and triblock-search-loading-no-matches, both part of triblock-search-popup. (Tri-282764)
UX Framework	Files included in a UX web viewer now use their appropriate MIME type instead of defaulting to text/html. (Tri-29832)
UX Framework	For the triplat-geo component, the disable property now properly enables or disables retrieving coordinates if it is externally set by another component. (Tri-47539)

Area of Change	Description
UX Framework	If you are logged in as a mirrored language user, for example Arabic, the triplat-scroll-container scroll arrows now mirror correctly for Firefox (desktop), Safari (desktop, iOS), Edge (desktop), and Chrome (iOS, Android). (Tri-47281)
UX Framework	In the triplat-datetime-picker component, the underline for hour, minute, second inputs is visible when the component is in a popup dialog. (Tri-48256)
UX Framework	In triplat-select-input, added a padding-right in the input field so the X clear button does not overwrite the text content. For bidi RTL, added a padding-left because the clear button is on left side. (Tri-260502)
UX Framework	<p>The default colors for the triblock-side-nav component now match the header. This change affects the Group Move app.</p> <p>Added a new triblock-tabs-icon mixin to the triblock-tabs component to provide more styling options. (Tri-49725)</p>
UX Framework	The floorplan of certain floors no longer groups several spaces together when viewed in the Space Assessment UX app. (Tri-49307-IJ01596)
UX Framework	<p>The Group Move UX Perceptive application should no longer contain syntax errors and the search feature should work now. Customers who run into this issue on previous app versions can vulcanize the application following the steps outlined on the following wiki page:</p> <p>https://www.ibm.com/developerworks/community/wikis/home/wiki/IBM%20TRIRIGA1/page/How%20to%20vulcanize%20your%20UX%20application</p> <p>(Tri-5886-IJ01969)</p>
UX Framework	The server APIs used by the UX triplat-ds and triplat-login components no longer return detailed error messages that expose internal server structures to the UX applications. (Tri-278800)
UX Framework	The triblock-nav-behavior component that is used in triblock-tabs and triblock-side-nav was modified to navigate to the specified route when the route is not active. This is helpful for multiple levels of routing. (Tri-283606)
UX Framework	<p>The triplat-calendar-times component has new features that show a colon separator, define the placement of the label, enable read only of the input field relying on the counters to change the value, define the number of digits in the hours field, and disable looping of the period counters. See the component doc page for more details.</p> <p>The triplat-increment-input component has new features that show the label under the value (typically used in a vertical layout) and enable the read only of the input field relying on the counters to change the value. The increment and decrement counter icons were updated. The reverse-icon property should be used when the component is in a vertical layout. See the component doc page for more details. (Tri-52285)</p>
UX Framework	The triplat-ds UX component was changed to fix a problem in the refresh method that caused it to return no records if the 'manual' property of the triplat-ds was set to true, and to prevent the triplat-ds from requesting data whenever the query filters change. (Tri-50293)

Area of Change	Description
UX Framework	The triplat-number-input component has a new read-only format that displays the number value in a span instead of in a paper-input component. To enable this, set it to read-only and do not set a label. See the UX component documentation for more information. (Tri-255191)
UX Framework	The UX triplat-query element now supports the client filtering of STRING_WITH_ID fields. (Tri-49807)
UX Framework	There is a known intermittent login issue for UX applications after a restart or clear cache where the user will get a message that the application does not exist. This only happens when ENFORCE_GUI_LEVEL_QUERY_SECURITY=Y in TRIRIGAWEB.properties. (Tri-54409)
UX Framework	UX framework components triplat-image and triplat-file are now case insensitive while checking the extension of the upload file. The triplat-image component now checks the file extension on the client side. (Tri-51852)
UX Framework	When a user connects to a UX application by using an SSO URL, the application now loads without waiting for a browser refresh. (Tri-50714-IJ03340)
UX Framework	With the triplat-ds component, you can now retrieve the total number of results of a multiple-record query data source without retrieving the data. (Tri-51142)
UX Metadata	UX metadata and groups in clean environment installs now correctly indicate with an object label the version that the respective UX metadata or group changed. This is now consistent with all other platform objects that support object labels for clean environment installs. On previous platform versions, the object label for UX metadata and groups on clean environment installs reflected the latest application version. (Tri-48782)
UX Metadata and Revisions	The term 'Snapshot' for UX metadata was replaced with 'Revision', to be consistent with other builder tools. With this change, object migration export packages now show a warning for UX metadata objects (application and web components) that need a revision. The warning is a caution icon in the Navigation pane. The object name is in orange text. A warning on the Object pane also provides more details on the application, model, or web view that needs a revision. The application, model, and web view designer landing pages also have new action buttons that assist in creating revisions for selected UX metadata records, or any UX metadata records needing a revision. (Tri-49474)
Workflow	A new workflow revision is created whenever a workflow is retired or when a retired workflow is published and the retired workflow is the latest revision. Previously both scenarios did not create a new revision, making it challenging to track the history of a workflow via the workflow's revision list. This also resolves an issue where workflows retired from a revised state still had the object label ObjectLabelPending. The object label for this scenario is now In Progress. (Tri-52154)
Workflow	Adding a task to a workflow no longer fails and corrupts the workflow due to a duplicated task ID that can be introduced by an object migration import. (Tri-50726-IJ03123)

Area of Change	Description
Workflow	An implicit conversion issue where a number was converted to a string on a comparison in a Retrieve task in workflow is resolved. (Tri-5816)
Workflow	Clicking a workflow on the Workflow Instance tab now opens only a single window. (Tri-50899-IJ03414)
Workflow	If a workflow agent is marked as restricted to a set of users, after new users or groups are added, those users are no longer marked as non-restricted. They are now marked as restricted and their processing happens exclusively on the current workflow agent. (Tri-52088-IJ05924)
Workplace Reservation Manager	The Available column of the Availability chart in the Availability tab of a recurring reservation in the perceptive Room Reservation app is now sorted correctly as numbers. Previously, for example, the following result might be seen if the Available column was sorted in ascending order -- 13 of 13 followed by 7 of 13, then 8 of 13, then 9 of 13. (Tri-270552)
Workplace Reservation Manager	The perceptive Room Reservation app now displays display the occupant's name on the floor plan when reserving workspace rooms. (Tri-47758)

IBM TRIRIGA Application Platform 3.6.0 Properties Files

The following changes to the TRIRIGAWEB.properties file are in this release. For more information, go to the IBM TRIRIGA Application Platform 3 Knowledge Center and select *Installing IBM TRIRIGA Application Platform>Configuring the platform>Properties files*.

Area of Change	Description
AGENT_STALE_TIME_IN_SECONDS	The TRIRIGAWEB.properties file now includes the new AGENT_STALE_TIME_IN_SECONDS property. The property controls workflow agents. The default and minimum value is 60 seconds. The AGENT_STALE_TIME_IN_SECONDS property determines when an agent is stale or unresponsive and adds extra logging. You can use this property in environments where you notice that a running agent seems down when it is actually very busy and unresponsive. (Tri-49564-IJ00364)
BIRT_ALLOW_XLSX	The TRIRIGAWEB.properties file now includes the new BIRT_ALLOW_XLSX property. When set to false, which is the default, BIRT reports cannot be exported with the .xlsx file extension. When set to true, BIRT reports can be exported as .xlsx files. Only use the .xlsx file extension on BIRT reports that have a direct connection to the database. Export all as-delivered BIRT reports with the .xls file extension. It is a known limitation that some as-delivered BIRT reports do not export to the .xlsx file extension correctly. This is a known third-party limitation. If you experience this issue, export using the .xls file extension. (Tri-50047-IJ01094)

Area of Change	Description
EXPORT_EXCEL_BATCH_PROCESS_SIZE	<p>The TRIRIGAWEB.properties file now includes the EXPORT_EXCEL_BATCH_PROCESS_SIZE property. This property enables you to tune your system to balance memory consumption by controlling the size of the batch of records returned when exporting to Excel. The default is 128000. (Tri-50148-IJ00839)</p>
GEO_ORG_SECURITY_CONTRIBUTE_BEHAVIOR	<p>You can add the new GEO_ORG_SECURITY_CONTRIBUTE_BEHAVIOR property to the TRIRIGAWEB.properties file. The property controls the SQL generated that contributes geography and organization security to queries. Values are the default COALESCE, PATH, or the older OR. OR has degraded performance in Oracle but OK performance in DB2 and Microsoft SQL Server.</p> <p>Setting the property to PATH has been shown to alleviate performance issues for large organizations/geographies that are using org/geo security. Before using PATH, you must make sure the hierarchies are in sync with triPathSY by using the Check Hierarchy functionality in Admin console → Database Info.</p> <p>(Tri-5817-IJ01974)</p>
HTTP Response Headers	<p>You can now control user-defined HTTP response headers in the TRIRIGAWEB.properties file.</p> <p>USER DEFINED HTTP RESPONSE HEADERS</p> <p>This property will enable an http response header on ALL http responses originating from this server.</p> <p>Each desired header should:</p> <ol style="list-style-type: none"> 1. Be placed on its own line 2. Have the header name prefixed with the value: 'httpheader.' 3. Have the header name and header value separated by an '=' <pre>httpheader.<first_header_name>=<first_header_value> httpheader.<second_header_name>=<second_header_value> httpheader.<nth_header_name>=<nth_header_value></pre> <p>Example 1: If an admin wanted to add the "X-Frame-Options: SAMEORIGIN" response header to all TRIRIGA server responses, she would enter the following value below:</p> <pre>httpheader.X-Frame-Options=SAMEORIGIN</pre>

Area of Change	Description
	<p>Example 2: If an admin wanted to add the "Strict-Transport-Security: max-age=31536000; includeSubDomains" response header to all TRIRIGA server responses, she would enter the following value below:</p> <pre>httpheader.Strict-Transport-Security= max-age=31536000; includeSubDomains</pre> <p>(Tri-270641)</p>
<p>NOTIFICATIONS_RECOVERY_FROM_DATE and NOTIFICATIONS_RECOVERY_AGE_DAYS</p>	<p>An upgrade class has been created to resolve an issue with users not receiving notifications. There are two new TRIRIGAWEB parameters called NOTIFICATIONS_RECOVERY_FROM_DATE and NOTIFICATIONS_RECOVERY_AGE_DAYS. The user can enable these parameters to recover notifications based on a specific time. This fix will display all the previously lost notifications for the users. All newly created notifications are displayed as expected.</p> <p>Note: If no specific date is entered for these two parameters, all the missing notifications found in the database will be recovered. This upgrade class should only be run once.</p> <p>(Tri-49649-IV99573)</p>
<p>TIME_FIELD_STANDARD_DISPLAY</p>	<p>A new time format is introduced to time fields in TRIRIGA applications. In addition to the current military format, there is also standard time. The new mask displays any new time field as "hours:minutes:seconds am/pm." When interacting with a time field in a form, a new time field picker helps the user choose hours, minutes, seconds, or period. The default value for time fields is set to "12:00:00 AM" which represents a day's zero hours. A user can switch between the two formats with the new TRIRIGAWEB.properties named TIME_FIELD_STANDARD_DISPLAY. This property by default is set to true, which displays time fields in standard time format. To switch back to military format, change this property to false. (Tri-279800)</p>
<p>WEB_DEV_CONFIG_ENABLED</p>	<p>A new property called WEB_DEV_CONFIG_ENABLED is added to TRIRIGAWEB.properties. This property enables access to UX Developer Console when set to true. The default value for this property is false. (Tri-51004)</p>

IBM TRIRIGA CAD Integrator/Publisher 12.6.0

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

Important Information

The following important information concerning IBM TRIRIGA CAD Integrator/Publisher is added for this release. For important information related to previous releases, see the [Release Notes](#) page of the IBM TRIRIGA wiki.

Area of Change	Description
Requirements	<p>In CAD Integrator for MicroStation, it is recommended that the user has 16 GB of memory available for large drawings. Otherwise, the application will crash and close suddenly due to not enough resource to handle all the processes with a small amount of memory. Refer to this link for information on the minimum requirements:</p> <p>https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/IBM%20TRIRIGA1/page/IBM%20TRIRIGA%20CAD%20Integrator%20Publisher</p> <p>(Tri-50520-IJ02772)</p>
Space Assessment	<p>The IBM TRIRIGA Application Platform currently allows one type of CAD mapping per business object (BO). If you have multiple mappings associated to a particular BO, then only one of them will be selected in a Batch Association process. For more detailed information, see the IBM TRIRIGA wiki information at https://ibm.co/2vOoyTo. (Tri-53811-IJ03212)</p>

Known Limitations

There are no new known limitations concerning IBM TRIRIGA CAD Integrator/Publisher added for this release. For known limitations related to previous releases, see the [Release Notes](#) page of the IBM TRIRIGA wiki.

IBM TRIRIGA CAD Integrator/Publisher 12.6.0 Changes

The following changes to IBM TRIRIGA CAD Integrator/Publisher are in this release:

Area of Change	Description
CAD Integrator	<p>CAD Integrator users will now see an error when spaces that share the same name are being uploaded. This will be presented as a Text Error type in CI. CI will not prevent the upload of spaces that share the same label names. The user will have to update those duplicate names manually. (Tri-5865-IJ01594)</p>

IBM TRIRIGA CAD Integrator/Publisher 12.6.0

Properties Files

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

IBM TRIRIGA Connector for BIM 2.6.0

This release includes important information, known limitations, changes, and property file changes to IBM TRIRIGA Connector for BIM.

Important Information

The following important information concerning IBM TRIRIGA Connector for BIM is added for this release. For important information related to previous releases, see the [Release Notes](#) page of the IBM TRIRIGA wiki.

Area of Change	Description
BIM Viewer	In iPhones running either Safari or Chrome, the BIM Viewer is not supported via the "Request Desktop Site" or "Desktop Site" option of the browser menu. The BIM Viewer is only available when those options are not used, or you may encounter a black screen in the BIM tab in the perceptive Locate app or the perceptive Work Task Services app. (Tri-53902)
BIM Viewer	On iPhone in landscape mode, the BIM image in the perceptive Locate app or the perceptive Work Task Services app may appear very compressed. Use the Full Screen icon in the BIM tab to view the image in full screen instead. You also have the option to view the image in portrait mode. (Tri-53703)
BIM Viewer	The BIM Viewer search feature may find many items that match the search criteria. No tools are provided to cycle through or otherwise manage the results set. (Tri-53828)
BIM Viewer	To avoid duplicated items in BIM Viewer, the Markup name should be given with the combination of "Work Task" and "Building Model/Name." For example, if the building name is "Administration Building" and the work task number is "12345." Name the Markup as "Administration Building -12345." This can be used to avoid confusion with Markup names in different locations. (Tri-53873)
BIM Viewer	Within the BIM tab of the perceptive Work Task Service app running on tablets or phones, if one wants to change the font size or the color after entering Markup mode, if the font size is increased beyond 25 pt, Bold & Italic options are hidden. Try selecting the Bold & Italic option before changing the font size. (Tri-53780)
Upgrade	If you upgrade only the IBM TRIRIGA Application Platform to version 3.6.0 and do not upgrade the IBM TRIRIGA applications to version 10.6.0, then BIM Model Management is not available in the menus or portals. Your IBM TRIRIGA administrator or application developer can add the BIM Model Management menu option by using the Navigation Builder to add the delivered navigation item "BIM Model Management" to the "triTools - Quick Links - Utilities" navigation collection or to any desired navigation collection. (Tri-54059)
Model Management	Internet Explorer 11 is not supported for BIM Model Management. This prevents the loading of Tools > BIM Model Management. (Tri-54131)
Work Task Services	The BIM tab in the perceptive Locate app or the perceptive Work Task app when displayed in portrait mode may not display all the tool button due to the width of the screen. To see the rest of the buttons, user may try the landscape mode. (Tri-53520)

Known Limitations

The following are known limitations concerning IBM TRIRIGA Connector for BIM that are found in this release. For known limitations related to previous releases, see the [Release Notes](#) page of the IBM TRIRIGA wiki.

Area of Change	Description
BIM Integrator	After the asset is Integrated to TRIRIGA, the name should not be changed manually in Revit. If name is changed and Integrated, then it will not update in TRIRIGA. To update the asset name in TRIRIGA, change the bar code along with name then the asset record will be created in TRIRIGA along with changed name. (Tri-53057)
BIM Integrator	Avoid using multiple versions of Revit, such as 2016, 2017, 2018, 2019, in a workstation as the connector is common to all the Revit versions. It cannot be configured to one Revit version separately, therefore only use one version of Revit in one workstation at a time. (Tri-53952)
BIM Integrator	If a linked model is detached, it cannot be properly re-integrated. TRIRIGA records created before it was detached are orphaned and cannot be updated from the BIM Connector.
BIM Integrator	If the Revit application is open and the BIM Integrator is being updated from a previous build of version 2.6.0 to a later build of the same version, the existing revitintegrator.dll file will not be overwritten. As a result, version 2.6.0 will not reflect the later build of the BIM Integration in the Revit application. To upgrade to the later build, user should close the Revit application, delete the AR integrator folder inside C:// > ProgramData > IBM > TRIRIGA and install the later build. (Tri-53540)
BIM Viewer	On iPhone in landscape mode, the BIM image in the perceptive Locate app or the perceptive Work Task Services app may appear very compressed. Use the Full Screen icon in the BIM tab to view the image in full screen instead. You also have the option to view the image in portrait mode. (Tri-53703)
BIM Viewer	Opening multiple dialogue boxes from within the BIM tab in the perceptive Work Task Services app can cause them to overlap. To avoid this, close the previous dialogue box such as "Model Browser" manually before opening the next dialogue box such as "Mark up". (Tri-53878)
BIM Viewer	Within the BIM tab of the perceptive Work Task Service app running on tablets or phones, if one wants to change the font size or the color after entering Markup mode, if the font size is increased beyond 25 pt, Bold & Italic options are hidden. Try selecting the Bold & Italic option before changing the font size. (Tri-53780)
Work Task Services	In an iPhone or iPad, the BIM image in the Asset Details or the Location Details page of the perceptive Work Task Services app may overlap with the Procedure section at the bottom of the page. The user may notice only the drill-down arrow in the Procedure section as a result. However, the Procedure section can still be reached by tapping the arrow. Alternatively, user can reach the Procedure section via the Work Task Details page. (Tri-53294)
Work Task Services	When viewing the BIM image returned from a Room Search in the perceptive Locate app on iPhone in portrait mode, the Full Screen and the First Person icons in the BIM tab may be covered by the Person and the Room buttons at the footer

Area of Change	Description
	of the page. In order to have full view of the icons, user should swipe the page up. (Tri-53705)

IBM TRIRIGA Connector for BIM 2.6.0 Changes

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

Area of Change	Description
Buildings	Building GUID is now unique. (Tri-51360)
Connectivity	IBM TRIRIGA Connector for BIM is now able to communicate with the TRIRIGA server over TLS 1.2 protocol. (Tri-51443-IJ05597)
Installation	The JAXRS-1.1 feature has been added to the server.xml for new installs using the bundled Liberty Server. (Tri-51771)

Related Documentation

You will find the documentation for this release in the IBM TRIRIGA 10 Knowledge Center at http://www.ibm.com/support/knowledgecenter/SSFCZ3_10.6.0/com.ibm.tri.doc/product_landing.html and in the IBM TRIRIGA Application Platform 3 Knowledge Center at http://www.ibm.com/support/knowledgecenter/SSHEB3_3.6.0/com.ibm.tap.doc/product_landing.html. The documentation can be found in online IBM Knowledge Center topics, or in PDF files, or both.

Additional documentation is available in the [IBM TRIRIGA wiki](#).

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