IBM TRIRIGA
Version 10 Release 7.0

IBM TRIRIGA Application Platform
Version 3 Release 7.0

Release Notes

IBM ®

Note
Before using this information and the product it supports, read the information in "Notices" on page 53.

This edition applies to version 10, release 7, modification 0 of IBM® TRIRIGA® and version 3, release 7, modification 0 of IBM TRIRIGA Application Platform and to all subsequent releases and modifications until otherwise indicated in new editions.

Contents

Release Notes

Welcome to the June 2020 release of IBM® TRIRIGA® 10.7.0, IBM TRIRIGA Application Platform 3.7.0, IBM TRIRIGA CAD Integrator/Publisher 12.7.0, and IBM TRIRIGA Connector for BIM 3.7.0.

This release includes the following two installation options:

- A new installation of IBM TRIRIGA Application Platform 3.7.0 and IBM TRIRIGA Applications 10.7.0.
- An IBM TRIRIGA Application Platform-only upgrade installation from 3.0.x or higher to IBM TRIRIGA Application Platform 3.7.0.

The IBM TRIRIGA Applications can be incrementally upgraded to 10.7.0 Applications after the platform upgrade is completed. For more information about specific scenarios, view the Upgrading information on the IBM TRIRIGA Application Platform 3.7 Knowledge Center.

> **Note** – The IBM TRIRIGA wiki information, formerly located on DeveloperWorks, is migrated to the IBM TRIRIGA Application Platform 3.7 Knowledge Center. For more information, see the IBM TRIRIGA Release Information page on IBM Support.

These release notes include the following:

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

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

- The enhancements, important information, known limitations, changes, and property file changes for this release are included in spreadsheet form in an XLS file. You can use the column filters to view only the information you need.
- A separate version of the release notes that is specific to Lease Accounting includes documentation of Lease-related new functions. This document also compiles the release notes related to Lease Accounting from version 10.5.3 to the present.

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

What's New in This Release

With IBM TRIRIGA 10.7.0, IBM TRIRIGA Application Platform 3.7.0, IBM TRIRIGA CAD Integrator/Publisher 12.7.0, and the IBM TRIRIGA Connector for BIM 3.7.0, 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 10.7.0 includes the following highlights.

- Lease Accounting improvements enable the creation of journal entries by asset class and support the reversal of impairment losses recognized previously on leases per IFRS accounting standards guidance.
- Work Task Services Perceptive app introduces the ability to link an asset to an existing work task by scanning a barcode or QR code.
- Stacking Perceptive app enhancements improve the process of optimizing workspace allocations.
- Advanced Room Search Outlook add-in adds SSO support for streamlined user authentication.

IBM TRIRIGA Application Platform 3.7.0 includes the following highlights.

- New Module Level Associations architecture optimizes how records are linked and retrieved.
- Enhanced query and report rendering technology enhances user experience for hierarchy and summary reports.
- Centralized Single Sign-On (SSO) support simplifies SSO configuration and enables SSO authentication support for client add-ins and plug-ins using corporate SAML or OAuth authentication mechanisms.
- Performance logging enhancements provide ability to set millisecond thresholds for which entries are logged.
- Support for Microsoft Exchange Modern Authentication enables secure authentication for Exchange Online environments.
- TRIRIGA Reporting add-on delivers user experience refinements, expanded administrative capabilities, and more granular security access controls.

IBM TRIRIGA CAD Integrator/Publisher 12.7.0 includes the following highlight.

- CAD Integrator adds support for Bentley MicroStation CONNECT Edition.

IBM TRIRIGA Connector for BIM 3.7.0 includes the following highlights to enable improved workflows.

- A simplified ribbon interface allows for limited setup.
- A new validation tool consolidates multiple model validation tests.
- A new property sheet defines Space Use Class for the current selection set.

IBM TRIRIGA 10.7.0 Enhancements

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

Area of Impact	Description
Tasks	You can now trigger a dynamic workflow for the creation of task records through service template helper workflow. The 'triServiceTemplateHelper - Synchronous - Create Tasks' workflow was modified to call a dynamic workflow through the new triWorkflowNameTX field that was added to the triTask business object. To use this new field, it must be added to the corresponding business object and form in the triTask module. And the workflow name must be set as the value of this new field on the record. (Tri-65038)
UX Contacts App	The new UX Contacts app mirrors the Contacts tab in the Stack Plan form for space management. (Tri-63752)
UX Framework	The UX Login page and the triplat-theme used by UX applications have a new look and feel. (Tri-64086)
UX Framework Security	UX Room Search add-in for Microsoft Outlook can now be used when TRIRIGA is configured with service initiated SSO. (Tri-63637)
UX Group Move App	In the UX Group Move app, the list view now displays occupants of the space when a space is returned from a location. (Tri-64071)
UX Stacking App	In the UX Stacking app, in an existing stack plan, you can now add buildings and floors. (Tri-63751)
UX Stacking App	In the UX Stacking app, you can now add and remove people as contacts in a stack plan. (Tri-63619)
UX Work Task App	In the UX Work Task app, users can now scan an asset and link it to an existing work task. (Tri-64386)

IBM TRIRIGA Application Platform 3.7.0 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
Look and Feel	IBM TRIRIGA Application Platform version 3.7.0 has a new look and feel that is included with a clean install. To update the look and feel during an upgrade, follow the instructions at https://github.com/IBM/tri-carbon-style-pack. (Tri-64181, Tri-62194)

Area of Impact	Description
Module Level Associations	Module Level Associations (MLA) is introduced to help alleviate contention on the IBS_SPEC_ASSIGNMENTS table in the database. There is a converter to migrate your database to use MLA. The Module Level Associations conversion tool is only compatible with Oracle and DB2 database server environments. More information is available in the installation directory at <ServerRoot>\tools\MLA-Conversion\README.txt (Tri-64639)
Reporting	Using the enhanced report renderer, reports with Group By columns that are rendered through the enhanced query grid now have expand and collapse buttons for each grouping on group columns. A grouping row toggle appears in the action bar. When selected, a grouping row appears above the report header, with which users can add and remove group columns. (Tri-62334)
Reporting	The Excel file downloaded from query export to Excel functionality now displays images stored in query result image fields. The supported image types are TIFF, BMP, PNG, JPG, JPEG, and GIF. The path to the image is stored in the Excel spreadsheet cell, but the text is hidden. During the download process, an attempt is made to display images not in these formats. If a failure occurs, a warning is logged and the remainder of the Excel spreadsheet continues to download. For any failed image, the image path is displayed in the Excel spreadsheet cell and the text is not hidden. (Tri-62913)
Reporting	Using the enhanced report renderer, summary reports now render the same as reports with Group By columns when displayed through the enhanced query grid. They now have expand and collapse buttons for each grouping on group columns. A grouping row toggle appears in the action bar. When selected, a grouping row appears above the report header, with which users can add and remove group columns. (Tri-62947)
Reporting	Using the enhanced report renderer, hierarchy queries that are not editable now render through the enhanced query grid. (Tri-63418)
Reporting	Audit queries in the Administrator Console have been updated to version 4 and now include a query to find ALL queries with Reverse Associations filters. (Tri-65899)
Reservations	The triOAuthClientSecret field of the triMSOAuth business object is now encrypted in the database. (Tri-64430)
Security	The USER_CREDENTIALS table was removed from the system. The T_MYPROFILE table is now used for all authentication and authorization processing. (Tri-62261)
Security	The TRIRIGA Application Platform now supports service initiated SSO using SAML or OpenID Connect. (Tri-64280)

IBM TRIRIGA CAD Integrator/Publisher 12.7.0 Enhancements

The following enhancement to the IBM TRIRIGA CAD Integrator/Publisher is in this release in addition to the enhancements described above:

Area of Impact	Description
Installation	Version 12.7.0 of IBM TRIRIGA CAD Integrator is built on a .NET 4.6.2 Framework. It delivers two installers. The installer for Autodesk AutoCAD is named install_ci_v12.7.0.0_ACAD.exe and the installer for Bentley CONNECT is named install_ci_v12.7.0.0_MSConnect.exe. You need to use the installer that corresponds to your CAD software. TRIRIGA no longer supports Bentley Select SERIES 4 and Select SERIES 10. TRIRIGA currently supports Bentley CONNECT and AutoCAD 2018, 2019, 2020, 2021. (Tri-64686, Tri-64690)

IBM TRIRIGA Connector for BIM 3.7.0 Enhancements

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

Area of Impact	Description
Connector for BIM	The Map Areas to Rooms tool UI was reworked to improve usability. (Tri-63440)
Import from CAD Integrator	The new Validate tool reports errors in IBM parameters like IBM.Name, IBM.UseClassification, IBM.Barcode on a unified property panel. (Tri-61332)
Integrate Areas	The Connector for BIM now supports creation of TRIRIGA office equipment specifications and assets. (Tri-59362)
Mapping Areas to Rooms	The Launch Portal tool can now be used without a building being integrated. (Tri-63104)
Office Equipment	The Connector for BIM now includes a simplified ribbon option that only includes tools that do not require a TRIRIGA login. You enable this option in the TRIRIGA_AR.properties file in the connector workstation. (Tri-61333)
Parameters	The new Connector for BIM model validation tool can be used without logging in to TRIRIGA. (Tri-60878)
Parameters	The new Import from CAD Integrator button on the Servers tool imports TRIRIGA server environments from CAD Integrator into the BIM connector. (Tri-64126)
Security	Improved the user interface of Areas tool to allow easier import of areas in large buildings. (Tri-63106)
Security	There are now two options for space use class, one for bulk and one for individual spaces from the model. Individual rooms/spaces from the model can be selected and assigned a space use class from the new Property panel. (Tri-62857)
Space Use Class	Populate parameters no longer fails to set IBM parameter values for some Revit elements. (Tri-63132)

Important Installation and Upgrade Information

Pre-10.3.0 requires modification scripts

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

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

For Oracle, run SetVarcharColsToNumeric_ORCL.sql.

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

Do not delete OM packages for pre-10.5.0 application upgrades

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

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

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

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

Pre-10.4.0 localization changes require republish of business objects

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

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

NEVER do either option after upgrading to 3.5.0 or higher.

Option 1: To republish all 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)

Java Development Kit

See information specific to Windows and Linux below.

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

Windows:

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

Linux:

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

IBM TRIRIGA Supported Versions and IBM TRIRIGA Application Platform Compatibility Matrix

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

IMPORTANT NOTICES: Effective April 30, 2019, IBM no longer supports IBM Tivoli Directory Integrator. Migrate your TDI assemblies to a supported technology, such as Pentaho. As of version 3.7.0, the IBM TRIRIGA Application Platform no longer ships with or supports TDI assemblies.

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

IBM TRIRIGA 10.7.0

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 on IBM Support.

Area of Impact	Description
Lease - Asset and Real Estate Reporting System Setup	A clean installation of IBM TRIRIGA 10.7.0 will clear the Database Server field that is found at Tools > System Setup > General > Application Settings > General tab > TRIRIGA Server Details section. You must enter the value manually in order to run BIRT disclosure reports for lease accounting. (Tri-59574)
Lease Accounting – GAAP and IFRS	When creating a new lease, it is recommended that the duration be set to a maximum of 99 years to ensure that lease calculations work as expected. An update to this guidance will be issued in a future version of the product.
Lease Accounting – GAAP and IFRS	Although amounts associated with pre-commencement payments and receipts for Initial Direct Costs, Prepayments, and Tenant Incentives are correctly included in the calculation of Rent Expense, the unamortized carrying amounts associated with these three items are not currently included in the Accrued Liability balances in the Accounting Schedule nor are associated amounts included in the periodic Accrual column. The unamortized carrying amounts for Initial Direct Costs, Prepayments and Tenant Incentive at the end of each period are however visible in the Accounting Tab in the two sections called Straight Line Rent Schedule and Incentive Schedule Before Lease Commencement.
Lease Accounting – GAAP and IFRS	If a lease starts mid-month with a partial month payment made, TRIRIGA calculates the NPV of the future lease payments by initially calculating the NPV based on a full-month payment as if the lease commenced on the first day of the month. TRIRIGA then adjusts this NPV by an amount equal to the imputed interest derived for a full first month multiplied by the number of days in the pre-commencement period of the first month as a fraction of the total number of days in the first month of the lease.
Lease Accounting – GAAP and IFRS	In lease scenarios containing the Payment in Advance provision, the sum of short-term liability and long-term liability amounts do not equal the total liability, as a portion of short-term liability is segregated into the accrued interest balance. Therefore, total liability will equal the summation of short-term liability, accrued interest balance, and long-term liability. In lease scenarios containing the Payment in Arrears provision, the sum of short-term liability and long-term liability amounts equals the total liability.
Lease Accounting – GAAP and IFRS	Information pertaining to leases that have not yet commenced but that create significant rights and obligations for the lessee, including the nature of any involvement with the construction or design of the underlying asset, has to be obtained from outside of TRIRIGA.

Area of Impact	Description
Lease Accounting – GAAP and IFRS	Sale and leaseback transaction functionality is not currently available in TRIRIGA.
Lease Accounting – GAAP and IFRS	When processing modifications or impairments and selecting a fiscal period (i.e. month) to indicate the effective date of the event, the system does not currently support the ability to choose a specific date within the fiscal period and therefore TRIRIGA defaults to: • Modifications being processed as of the 1st day of the fiscal period selected • Impairments being processed as of the last day of the fiscal period selected
UX Framework	The UX triplat-number-input displays correctly when the number is smaller than the number of decimal places specified in the display mask. For example, in the Add Material pop-up in Work Task Services Perceptive App, 0.001 will be shown as .00 when the display mask is set to two decimal places if the field's value is less than .005. Previously, a blank was displayed. (Tri-54061)
UX Work Task App	When using the UX Work Task app on Windows tablets, Android tablets, and some Android phones in landscape mode, the End Time field and the Comments field in the Time Entry dialogue may be hidden by the virtual keyboard. As an alternative, the user should switch to portrait mode. (Tri-52469)

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 on IBM Support.

Area of Impact	Description
Globalization	A user with RTL enabled may experience issues when trying to view a Gantt schedule, an Availability chart, or the Availability tab in the Reserve UX app. (Tri-66232)

Lease Accounting - GAAP	Currently in TRIRIGA, there are two tabs:
	
	1. The Clauses, Options & Terms tab allows you to enter the purchase, renewal, break / terminations options details like effective date, likely or not likely, and the amounts associated with the options.
	
	2. The Accounting tab allows you to select yes or no for the following two questions for lease classification under the GAAP Classification section.
	
	  - Does property transfer ownership at end of lease?
	
	  - Is it reasonably certain at commencement date that the purchase option will be exercised at the end of the lease?
	
	Currently, the two tabs function independently of each other. Therefore, you must ensure that information entered on the tabs is not contradictory.
	
	If the question "Is it reasonably certain at commencement date that the purchase option will be exercised at the end of the lease?" in the GAAP Classification section of the Accounting tab is "Yes," even though there is no purchase option created in the Options tab or a purchase option is created but

Area of Impact	Description
	"not reasonably certain" at commencement, there is no attention message to inform user.
	For more information on this functionality, see the description of Tri-65972 below.
Lease Accounting - GAAP	TRIRIGA does not support cases where modification results in lease reclassification from Finance lease to Operating lease.
Lease Accounting – GAAP and IFRS	Adjustments to an upfront incentive amount can be carried out by adjusting the incentive payment schedule and associated payment line item.

	1. If the payment schedule start date is **after today**, use the Update or Split Payment Schedules option to adjust incentive amount. Both the payment schedule and payment line item will be adjusted.
	2. If the payment schedule start date is **before today,** then two adjustments should be made:
	    Step 1. Use the Update or Split Payment Schedules option to adjust the incentive amount on the payment schedule.
	    Step 2. Use the Update Only Payment Line Items option to adjust the incentive amount on the payment line item.
	3. If the payment schedule start date is **today** and the payment line item is **not paid** yet, use step 1 from above. If the payment schedule start date is **today** and the payment line item is **already paid**, use step 2 from above.

Lease Accounting – GAAP and IFRS (Limitation known since 10.5.3.1)	All BIRT disclosure reports, except for one report, are designed to retrieve data directly from the database using SQL statements. As a result, the column name that is referenced may not be the same in your TRIRIGA database. Since these reports retrieve data directly from the database, the different SQL statements are written separately, one for Oracle/DB2 and another for Microsoft SQL Server. TRIRIGA 10.5.3.1 currently supports three database servers: Oracle, DB2, and Microsoft SQL Server.
Lease Accounting – GAAP and IFRS (Limitation known since 10.5.3.1)	For BIRT disclosure reports, 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 Accounting – GAAP and IFRS	For separation of current and non-current assets and liabilities, segregation between short-term and long-term liability is available in the respective accounting schedules in TRIRIGA. However, the disclosure reports do not provide the segregation between short-term and long-term liability.
Lease Accounting – GAAP and IFRS	In scenarios where a change is made to the lease which results in a recalculation of the lease schedule, the Gross Asset Value in the revised lease schedule is larger than the Current Asset Value, which is unexpected from an accounting perspective.
	This value should correspond to the total amount of amortization that will be calculated over the lease schedule subsequent to the change. The values currently stored in the schedule are working in TRIRIGA as currently designed.
Lease Accounting – GAAP and IFRS	Partial calculations of index adjustments are not currently supported.

Area of Impact	Description
(Limitation known since 10.5.3.1)	
Lease Accounting – GAAP and IFRS (Limitation known since 10.5.3.1)	The currency conversion for BIRT disclosure reports only supports the Default currency conversion group.
Lease Accounting – GAAP and IFRS (Limitation known since 10.6.0)	The following limitations currently apply to incentive adjustments: • Support for an adjustment of incentive amount is available 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 an incentive schedule adjustment, both payment schedules and payment line items should be separately adjusted. • A new incentive schedule that is added after the modification cannot have the same date as an existing incentive payment schedule. If this happens, the new incentive amount will not be included. (Tri-52727-IJ06586-IV99840)
Lease Accounting – GAAP and IFRS (Limitation known since 10.6.0)	TRIRIGA currently supports only two asset types: Asset Lease and Real Estate Lease.
Lease Accounting – GAAP and IFRS	When attempting to carry out short-term lease accounting (straight-lining in ASC 842 and IFRS 16), if the Include in Amortization checkbox is cleared, TRIRIGA currently does not generate a straight-line schedule.
Lease Accounting – GAAP and IFRS (Limitation known since 10.5.3.1)	When doing an amendment to adjust payments that are based on an index lease, a user can only adjust payments using **Update Action = Update or Split Payment Schedules** on the Payment Adjustment form to cause the variable that results from the index to become a fixed payment.
Lease Accounting – GAAP and IFRS (Limitation known since 10.5.3.1)	When processing a payment adjustment, the Update or Split Payment Schedules option is not supported for one-time payment schedules.
Lease Accounting – GAAP and IFRS (Limitation known since 10.5.3.1)	When setting up an index lease with multiple index clauses, the system uses the clause type to group the index clauses. This is for the purpose of calculation comparison.
Lease Accounting – GAAP and IFRS (Limitation known since 10.5.3.1)	When transitioning a lease previously classified as an Operating lease under IAS17 to IFRS16 with the modified retrospective approach, TRIRIGA measures the ROU Asset using Option 2, referencing the KPMG guidance (https://www.in.kpmg.com/ifrs/files/Leases-Transition-Options-Nov-2016.pdf page 19). Option 2 measures the ROU asset at an amount equal to the lease liability (subject to certain adjustments).

Area of Impact	Description
Lease Accounting – GAAP and IFRS	You cannot currently use TRIRIGA to modify a lease mid-month.
Lease Accounting – IFRS	TRIRIGA is not currently able to apply the recognition exemption under IFRS 16 associated with low value underlying assets, i.e. assets with a value of $5,000 or less when new. Currently, TRIRIGA will recognize and measure every lease irrespective of the value.
UX Perceptive Apps	A user with read-only access to the UX Stacking app cannot save any changes to the stack plan to the server. The user can create a new stack plan in his local machine. The user can drag and drop organization allocation bars but cannot save the newly created or revised stack plan. The Restore button restores the user's local copy of the stack plan from the server. (Tri-57491, Tri-57408)
UX Perceptive Apps	In the UX Stacking app, a non-English user may receive an error message asking the user to contact the server administrator when submitting the stack plan. However, the stack plan is actually submitted successfully, and the error message may be dismissed. (Tri-66632)
UX Perceptive Apps	In the UX Stacking app, horizontal scrolling during drag-and-drop of a stack bar may not be triggered when the bar is dragged to either end of the stacking chart. You can trigger it by dragging the bar to the left or right arrow area of the horizontal scroll bar. (Tri-58767)

IBM TRIRIGA 10.7.0 Changes

The following changes to IBM TRIRIGA are in this release:

Area of Change	Description
Approvals Requests	A requester can now see the correct user message when using Request Clarification on Approval Record. (Tri-62990)
Capital Project	For every new submittal task that is created, only one submittal intermediate record is created and associated to a Submittal Package. (Tri-63054)
Capital Project	In a capital project, in the Schedule tab, in the Project Tasks section, when you add a work task, in the Responsible Organization section, the Auto-Assign action now assigns the correct organization. (Tri-62994-IJ23091)
Capital Project	In a punch list, in the General Tab, in the Items section, duplicate task items are no longer created if the item was previously selected in the Items section. (Tri-65779)
Capital Project	In the Design Change Notice form, General tab, To section, fields are now populated from the People record selected in the To Look Up field. (Tri-65887)
Capital Project	In the Receiving form, Line Items tab, Line Items section, after you add a line item, the new line item now displays in the Line Items section. (Tri-63780)

Area of Change	Description
Capital Project	In the Road Construction Permit form, Inspections tab, Inspection Requirement section, inspection task records are no longer displayed by default. Now, only the records added or associated to the Road Construction Permit Form are displayed in the Inspection Requirement section. (Tri-65872)
Capital Project	The Copy action on the Design Change Notice Form now copies all of the necessary field data to the copy record. (Tri-65446)
ENERGY STAR	Removed test data from fields on the Test Server tab of Energy Star Settings. (Tri-62890)
Globalization	The UOM Delimiters, the UOM Decimals and UOM Display masks in the UOM Values were updated for Brazilian Real, Euro, Hungarian Forint, Korea Won, Norwegian Krone, Polish Zloty, Russian Ruble, South African Rand, Swedish Krona and Switzerland Francs. (Tri-29533)
Globalization	To avoid data consistency issues in a globalized environment, when you use a text field as a dynamic field type in the Form Builder, the field should not have the localizable checkbox selected in the Data Modeler. The issue is resolved for the triCTQDesiredTX field in the triCTQItem business object. (Tri-65748)
Lease - Asset	For an asset lease, when doing a modification, the lease treatment is no longer changed on the History lease. (Tri-61771)
Lease - Asset and Real Estate	A contract revision change type 'Non-Lease-Accounting Amendment' for Lease Administrators is now introduced to support a change to the lease that does not affect the lease accounting. Currently, it only allows an update or a creation of a Payment Schedule with the Summary Type that is not Rent. (Tri-62305-IJ21339)
Lease - Asset and Real Estate	A new section 'Bypass Approval' is added on Application Settings > Lease Accounting Settings tab, where a Bypass Approval Intermediate record can be added with a 'Contract Revision Change Type' to Bypass all approval on activation of a Real Estate/Asset Lease when it is Revised with the above Contract Revision Change Type. (Tri-65455)
Lease - Asset and Real Estate	A user message to remind a user to review the lease is shown when you click on "Activate". It will only show when you click on the action first time. Clicking it again, the message will no longer show. (Tri-61399-IJ20918)
Lease - Asset and Real Estate	After applying an index adjustment calculator, the Residual Value Guarantee is no longer missing in the Net Rent Payment of the last fiscal line item. (Tri-65046)
Lease - Asset and Real Estate	Attention message displays when recalculating the accounting schedules and on issuing Index Adjustment. (Tri-63038-IJ21631)
Lease - Asset and Real Estate	Calculate Lease Treatment and Recalculate NPV section actions now only update values in the respective 840 and 842 sections. (Tri-61195)
Lease - Asset and Real Estate	Contract Attribute values are now mapped to the History Lease Contract attribute. (Tri-64565-IJ24783)

Area of Change	Description
Lease - Asset and Real Estate	Dismantle cost is now included in the calculation of the Current Asset Value only for IFRS 16 and not in the calculation of the Current NPV and lease liability. (Tri-62916-IJ21594)
Lease - Asset and Real Estate	Error messages related to the extended formula of the below fields no longer appear in the server log: - triPVofRentCompoundNU (Module = triCostEstimate, BO = triAmortizationSummary) - triFasbPVRentBldgOnlyNU (Module = triActionForm, BO = triLeaseLocalReporting). (Tri-62824)
Lease - Asset and Real Estate	For an initial lease, the NPV of ASC 842 and IFRS 16 within the same lease are now calculated and show the same amount when the Accounting Start Date is not on the first day of the fiscal period with the Incentive received in the first period. (Tri-65693-IJ24598)
Lease - Asset and Real Estate	For real estate and asset lease records, on the Accounting tab, in the Schedule Summary section, the "Straight Line Rent per Year" field is no longer visible. (Tri-64701)
Lease - Asset and Real Estate	If there is a change in the Accounting Start Date or Accounting End Date and you click on Calculate Lease Treatment or Calculate Lease Classification, an attention message will display asking you to either Save or Save & Close the record to have the NPV re-calculated. The lease will be in processing state. Once processing is completed, the lease will be editable again. (Tri-59494-IJ17283)
Lease - Asset and Real Estate	IFRS Classification section in both Accounting Tab & Local Reporting tab is now hidden and Lease Classification defaulted to Finance. This is applicable to All the IFRS leases and GAAP leases with local Reporting as IFRS. (Tri-63658)
Lease - Asset and Real Estate Reporting	Issues such as blank parameters for dates and currency, no longer occur when running a report on a BIRT process server. (Tri-62211)
Lease - Asset and Real Estate	Net Asset Value is now reduced to zero for a lease with Non-Standard Calendar - 30 Day Basis - IFRS Accounting. (Tri-61222)
Lease - Asset and Real Estate	Net Asset Value now reduces to zero for leases with Application Settings > Accounting Standards different from the Lease Accounting standard. (Tri-61287)
Lease - Asset and Real Estate	No section actions are visible on new GAAP and IFRS Classification sections when doing Data Revise. (Tri-61125)
Lease - Asset and Real Estate	On a modified Lease, when closing the record by clicking 'X', the IFRS Liability Carryover Balance and the IFRS Asset Carryover Balance fields are no longer displayed. (Tri-62760)
Lease - Asset and Real Estate	On activation of a lease with a clause where the 'Payment Auditable' checkbox not enabled, a "Could not create TASK_RECURRENCE" error is no longer generated in the log. (Tri-64483-IJ23855)
Lease - Asset and Real Estate	On Adjust Payments, the Cost Codes can be modified without the need to update any other values. (Tri-62979-IJ21574)

Area of Change	Description
Lease - Asset and Real Estate	On an IFRS accounting schedule, when an Index Adjustment Calculator has the Start of the Adjustment prior to the Accounting Start Date, the NPV is now calculated from the Accounting Start Date with the correct amount and the liability is coming down to zero. (Tri-61446)
Lease - Asset and Real Estate	On an index lease, the catch-up amount when applying the first Index Adjustment Calculator is no longer cleared and now calculates correctly when the second Index Adjustment Calculator is applied. (Tri-63910-IJ22941)
Lease - Asset and Real Estate	On an Index lease, the minimum amount on the payment line items that are after the Index Adjustment End Date is no longer cleared when the base payments are adjusted. (Tri-61224)
Lease - Asset and Real Estate	On the Index Adjustment Calculator. when there are multiple payment schedules associated to an Index Adjustment Calculator, a user can now update the index adjustment for each payment schedule by selecting a record on the "Adjust Payment Schedule" section and then Calculate the adjustment. The Percent Used will be updated and stored on each Payment Schedule Intermediate record.
	If the user does not select any payment schedule to update, upon calculation, the Percent Used will be updated for all of the Payment Schedule Intermediate records.
	A patch helper workflow is "triPatchHelper - triCalculate - 10.7 - Set Percent Used on Payment Schedule Intermediate". This is to set the Percent Used from Index Adjustment Calculator to its associated Payment Schedule Intermediate records. This will only be done for the Index Adjustment Calculator records that have the status of Issued or Completed. (Tri-61385-IJ20006)
Lease - Asset and Real Estate	Performance for Lease Abstract > Create Draft is improved through systemic platform changes along with the application. (Tri-53416-IJ22808)
Lease - Asset and Real Estate	Prepayments are now included as part of the NPV classification test for ASC 842 and NPV treatment test for ASC 840/IAS 17. Also, at modification, the unamortized prepayment is included in the classification tests.
	For ASC 840, Classification Test PV is added on the FASB Treatment section of both RE Lease and Asset Lease.
	For IAS 17, Classification Test PV is added on the IFRS Treatment section of both RE Lease and Asset Lease.
	For ASC 842, Classification Test PV is added on the Schedule Summary section of the Accounting tab and on Amortization Summary section of the Local Reporting tab of both RE Lease and Asset Lease. (Tri-61285-IJ19887)
Lease - Asset and Real Estate	Purchase option:
	1. For GAAP, on the initial lease, when there is a purchase option and only if the purchase option is reasonably certain, the Short-Term field is now set to No. However, if the question "Is it reasonably certain at commencement date that the purchase option will be exercised at the end of the lease?" is still set to No in the GAAP Classification section and you click on the Calculate Lease Classification action, an attention message below will be shown. This will NOT show when the lease is modified.

Area of Change	Description
	The question, "Is it reasonably certain at commencement date that the purchase option will be exercised at the end of the lease?" in the GAAP Classification section is set to "No", but the purchase option is already reasonably certain. If you want to update the answer, change the selection and then click "Calculate Lease Classification" again. 2. For IFRS, on the initial lease, as long as there is a purchase option, the Short-Term field is now set to No. Transfer of Ownership For GAAP, on the initial lease, if the question, "Does Property Transfer Ownership at End of Lease?" on the GAAP Classification section is set to Yes, the Short-Term field is now set to No. (Tri-65972)
Lease - Asset and Real Estate	Records of type triCalculationHelper are no longer persisted to the database for many of the workflows in Real Estate Lease Calculations. There are combinations of the use of "In Memory Smart Objects" or deleting the records created at the end of the workflow process. (Tri-63792-IJ22572)
Lease - Asset and Real Estate	Replaced Control Number with Record ID in lease related workflows where control number is used in Retrieve Record task to get least on greatest record. (Tri-64117-IJ23183)
Lease - Asset and Real Estate	Tenant incentives before commencement date are now included as part of the NPV classification test for ASC 842. For ASC 840/IAS 17, both Incentives before and after commencement dates are included as part of the NPV treatment test. Also, at modification, the unamortized incentives are included in these classification tests. For ASC 840, Classification Test PV is added on the FASB Treatment section of both RE Lease and Asset Lease. For IAS 17, Classification Test PV is added on the IFRS Treatment section of both RE Lease and Asset Lease. For ASC 842, Classification Test PV is added on the Schedule Summary section of the Accounting tab and on Amortization Summary section of the Local Reporting tab of both RE Lease and Asset Lease. (Tri-61294-IJ19874)
Lease - Asset and Real Estate	The accounting schedules are now calculated correctly when a lease is amended on the first fiscal period of the lease. (Tri-62066-IJ20977)
Lease - Asset and Real Estate	The Accounting Start Date no longer updates when performing a data revision or issuing an index adjustment. (Tri-62835-IJ21337)
Lease - Asset and Real Estate	The Business Unit value for Operating Lease Cash Flow is no longer truncated after exporting to PDF. (Tri-60959)
Lease - Asset and Real Estate	The Dismantle Cost is now available in the Net Rent Payment of the last fiscal payment line item after applying an Index Adjustment Calculator. (Tri-65424)
Lease - Asset and Real Estate	The End Date is now updated on the Payment Line Items for leases with an annual frequency payment schedule and where the payment schedule Start Date is greater than the 28th day of the month. (Tri-60966-IJ19632)

Area of Change	Description
Lease - Asset and Real Estate	The Expiration JEs are no longer created when the lease is terminated. (Tri-61586-IJ20229)
Lease - Asset and Real Estate	The Fiscal Period on the Contract Revision (when doing a modification) is now updated to Start from Accounting Start Date. (Tri-61804)
Lease - Asset and Real Estate	The Impairment Reserve on the IFRS accounting schedule does not accumulate with the same loss amount when re-calculating the accounting schedule multiple times. (Tri-63471)
Lease - Asset and Real Estate	The Initial Direct Cost on a lease can be entered on the initial lease only. After the first activation, the Initial Direct Cost is read-only. (Tri-62294-IJ21116)
Lease - Asset and Real Estate	The Journal Entry amount is now calculated correctly when any of the subsequent Calculation input(s) do not fetch a FLI to get a value of a field. For example, out of two Calculation Inputs, if the Calculation Input 2 does not fetch any FLI, it is now updated to 0, instead of copying the value from the Calculation Input 1. (Tri-63280)
Lease - Asset and Real Estate	The lease treatment updates automatically when you close the lease window. The history leases now also retain the correct lease treatment value. (Tri-64887)
Lease - Asset and Real Estate	The Likely Term Boolean field on the option record is now updated when the option is selected/de-selected in the Likely Term Option section. (Tri-61073)
Lease - Asset and Real Estate	The Net Asset Value is now calculated correctly for an IFRS lease with Local Reporting as GAAP and now includes any Initial Direct Costs or Prepayments or Incentives paid or received before the commencement date. (Tri-65270)
Lease - Asset and Real Estate	The new lease classification section fields on the accounting tab of the lease now display the same UOM value as mapped in the lease currency UOM on the General tab. (Tri-63194)
Lease - Asset and Real Estate	The Payment timing field which affects the Accounting Schedules is no longer editable on Data Revise. (Tri-62838-IJ21452)
Lease - Asset and Real Estate	The Process AR Receipts now fetch the Account Receivable (AR) PLIs instead of the Account Payable (AP) PLIs. Also, when generating an invoice, the Account Receivable (AR) PLIs are included. (Tri-61932-IJ21451)
Lease - Asset and Real Estate	The Rental Prepayment no longer includes the tax amount. It is calculated using the Expected Cash Before Tax of a Rental Prepayment Payment Schedule. (Tri-61454-IJ19992)
Lease - Asset and Real Estate	The start date of the re-classification record is now set to be prior to the end date. It is no longer set to modification effective date. (Tri-63321)
Lease - Asset and Real Estate	To add an expiration related document on Active Lease, Lease Administrator would perform Contract Revise > Non-Lease accounting amendment to upload documents. Activate and then expire the lease. (Tri-62843-IJ21624)
Lease - Asset and Real Estate	TriNameTX and TriIdTX field size is updated to 700 for Real Estate Lease, Journal Entry and Journal Entry DTO. (Tri-62252-IJ21115)

Area of Change	Description
Lease - Asset and Real Estate	When a lease accountant performs the Accounting Revise > Data Revise action on a GAAP/IFRS lease, the Lease Type Details, GAAP Classification (for GAAP lease only), and Term Assumption sections are now read-only. (Tri-66033)
Lease - Asset and Real Estate	When a lease is impaired after an index adjustment has been applied, the Current NPV is now updated to be the amount at the impairment modification period. The liability of the Operating schedule now comes down to 0. (Tri-61124)
Lease - Asset and Real Estate	When a lease is modified, the clause, option, and payment schedule records of the history lease now contain the status updated correctly. The record state is triHistory. (Tri-61712-IJ20526)
Lease - Asset and Real Estate	When a lease is terminated using the Termination Effective Date = <future date>, the lease should be re-measured, not terminated. Clicking on the "Terminate" action and selecting the future Termination Effective Date on the Contract Terminate pop-up form displays the following attention message: "The Termination Effective Date is a future date. It is not considered Termination, rather a modification; therefore, you must perform a Contract Revise > Amendment to update the expiration date and payments accordingly. Also, if a Termination Fee/Termination Penalty is required, the one-time Termination Fee payment schedule must be created." To determine if the date that is selected is a future date or not, there are two scenarios: 1. If a lease has a business unit and that business unit has an Open Period specified, TRIRIGA will compare the date with the current Open Period. If the selected date is after the end date of the open period, it will consider as a future termination. For example, Open Period is 03 – 2020 and the end date of the period is 3/31/2020. Then, on the Contract Terminate, if selecting the Termination Effective Date = 4/1/2020 (or anything after), the attention message will display. 2. If a lease does not have a business unit specified, TRIRIGA will compare the date with the fiscal period of the calendar specified on the lease, the period that today's date is falling into. Then, if the selected date is after the end date of the today's period, it will consider as a future termination. For example, the today's fiscal period is 03 – 2020 and the end date of this period is 3/31/2020. Then, on the Contract Terminate, if selecting Termination Effective Date = 4/1/2020 (or anything after), the attention message will display. (Tri-58987)
Lease - Asset and Real Estate	When a lease is terminated using the Termination Effective Date = End of Period <past date>, the Interest Reduction, Accrued Interest Reduction, Principal Reduction, Short-Term Liability and Long-Term Liability are no longer updated. The values are the same as the values that appear on the history lease before the termination. (Tri-65370)
Lease - Asset and Real Estate	When a lease is terminated using the Termination Effective Date = <past date> with Termination Penalty, the penalty amount (triTerminationFeeNU) is now populated to last Fiscal Line Item so that a Journal Entry setup can point to the value if needed. However, the amount will not show in any of the accounting schedules. (Tri-65371)

Area of Change	Description
Lease - Asset and Real Estate	When a Purchase Option is reasonably certain, the lease treatment is now set to Capital. (Tri-62097)
Lease - Asset and Real Estate	When a Renewal option on a short-term lease is exercised, it is no longer classified as a Short-Term lease. The Short-Term field on the lease is now set to No. (Tri-61238)
Lease - Asset and Real Estate	When adjusting payments that have the Past Due Date prior to issuing an Index Adjustment Calculator, the catchup payment is no longer added twice on the accounting schedule. (Tri-61223)
Lease - Asset and Real Estate	When adjusting payments through an Index Adjustment on a lease with Initial Liability Carryover (ILCB) and the first Index Adjustment is prior or on the Accounting start date, the ILCB is now included as part of the Asset Value. (Tri-61648)
Lease - Asset and Real Estate	When an index adjustment is applied, the Prior Modification Effective date is now populated. (Tri-63670-IJ22875)
Lease - Asset and Real Estate	When applying an Index Adjustment to the payment schedules that have previously been adjusted, the FLIs for future dates are now updated with the variable amount. (Tri-63757-IJ22662)
Lease - Asset and Real Estate	When applying an Index after applying the first Index Adjustment Calculators, the payment amount is now calculated with the correct amount. This is happening when setting up multiple Index Clauses and multiple payment schedules with the same time periods. (Tri-61044-IJ19053)
Lease - Asset and Real Estate	When copying a lease with an incentive payment schedule with the Include In Incentive Schedule checkbox selected, the Include In Incentive Schedule checkbox is now also selected on the copied payment schedule on the copied lease. (Tri-63320)
Lease - Asset and Real Estate	When doing an amendment and the accounting start date is the last day of a fiscal period, the fiscal period of the accounting start date is now available to select. (Tri-64420-IJ23215)
Lease - Asset and Real Estate	When modifying a lease where the new gross asset is calculated to a negative value, the Gross Asset and Accumulated Amortization now both show as 0, instead of showing a negative Gross Asset amount and the Accumulated Amortization amount from the period prior to the modification. (Tri-63773)
Lease - Asset and Real Estate	When recording AR Receipts, the precision of the value of the sum amount under the Expected Amount column and under the Delta Amount column are now the same. The storage precision for triARReceiptDeltaNU field is updated to 6. (Tri-61604-IJ21626)
Lease - Asset and Real Estate	When splitting a payment schedule using the dates 29th, 30th, or 31st of the month, the Current Period Start Date on the payment schedule is now updated with the correct date. The attention message is no longer displayed. (Tri-61440-IJ19891)

Area of Change	Description
Lease - Asset and Real Estate	When Termination option is selected to be Reasonably Certain, the Operating/Finance schedule is no longer restored after the lease has been re-measured as a Modification. (Tri-60566-IJ20490)
Lease - Asset and Real Estate	When the Accounting Start Date is in the middle of a fiscal period and it is after the commencement date, on Amendment with the first period selected, the Accounting Start Date is no longer updated. (Tri-64946-IJ24239)
Lease - Asset and Real Estate	When the lease name is changed, the Approval record name is now updated and the latest linked record name is displayed on an Approval Action Item. (Tri-62057-IJ20975)
Lease - Asset and Real Estate	When the lease treatment of ASC 840/IAS 17 is Capital/Finance, the Liability on the Amortization Schedule now comes down to 0. The Interest Expense is now calculated with the correct amount, causing the liability to also come down to 0. (Tri-60667-IJ19726)
Lease - Asset and Real Estate	When the termination option is reasonably certain or exercised prior to a modification, the FLIs are no longer restored to replace the modification calculations that have been done. (Tri-63977)
Lease - Asset and Real Estate	When using Adjust Payments to break a payment schedule that is associated to an Index Adjustment clause, the new payment schedule(s) are now also associated to the Index Adjustment Calculator(s) that has not been issued. In addition, the association between History Payment Schedules and Index Adjustment Calculator is removed. (Tri-61805-IJ21268)
Lease - Asset and Real Estate	When using Adjust Payments to break a payment schedule that is associated to an Index Adjustment clause, the new payment schedule that has the old amount is now updated with the "Last Adjusted Amount" (triAdjustedTotalNU). (Tri-61806)
Lease - Asset and Real Estate	When using Adjust Payments to break a payment schedule, the missing partial Payment Line Item from the previous Payment Schedule (after the break) is now created. (Tri-61808)
Lease - Asset and Real Estate	While reactivating a lease after a data revision, when the lease has an associated payment schedule that is void and the application setting to update PLIs to zero on void, terminated or removed schedules is enabled, the lease is now activated. (Tri-64710-IJ23886)
Lease – Asset and Real Estate Reporting	Running a Financial Summary report on a BIRT process server no longer causes errors. (Tri-61950)
Lease - Real Estate	On an RE Invoice, when clicking the "Quick Add" section action of the One Time Payment - To Process section, a Temporary association is now created from One-Time Payment to Contract so that Cost Codes can be selected. Also, a validation is added to show an attention message if the selected Contract is changed on the RE Invoice. (Tri-64127-IJ22907)

Area of Change	Description
Lease - Real Estate	The Incentive schedule is now being calculated correctly for partial fiscal periods. Note that the Accounting End Date will be updated with the Renewal Expiration Date of the Renewal option record if the renewal option is reasonably certain. (Tri-60483-IJ18419)
Lease - Real Estate	The Lease Rate Used (Calculated) field is now hidden in FASB treatment section when Lease type is selected as Partial building. (Tri-65310)
Locations	In the Space form, in the Allocation tab, the People - Secondary Location section now displays all people records, not just employee records. (Tri-64376-IJ23212)
Outlook UX Framework	Fixed an issue on the UX Room Search add-in for Microsoft Outlook that caused the capacity label to be truncated for non-English users. (Tri-63652)
Outlook UX Framework	In the UX Room Search add-in for Microsoft Outlook, all buildings selected on the filters page now appear on the results page. (Tri-65057)
Outlook UX Framework	In the UX Room Search add-in for Microsoft Outlook, non-English users can now remove the primary location filter. (Tri-63008)
People	After a retired people template is unretired, the status of the template is now Template. (Tri-63331-IJ22257)
Portals	Add and Delete actions now display on the query for the "All Facilities Projects" navigation item available under Projects > Facilities > Related Links - Facilities. (Tri-63355)
Portals	In the 'Home - Space Manager Planner Portal - Fundamentals' home page, Home tab, Quick Links section, when the user clicks the new Stack Plans navigation item, the UX Stacking app opens. (Tri-58945)
Portals	When the supervisor of the responsible organization is logged in, the query "triRequest - Navigation - Active Requests for My Team - Filtered By Org Manager" now displays all requests associated to active work tasks. (Tri-63671-IJ22498)
Projects	The "XXX - Read Only Dependent" and "XXX - Editable Dependent" workflows used to make the dependent records under triProject Module read-only or editable are retired. The cascade read-only flag has been enabled in the BOs under triProject module to set the dependent records as read-only or editable based on the parent. (Tri-54959-IJ24746)
Projects	The Revise, Retired, and Copy actions are now hidden on RFQ Response, Bid Response and RFP Response records that are in Completed status. Also, the Unretire and Copy actions are hidden on RFQ Response, Bid Response, and RFP Response records that are in Retired state. (Tri-54083)
Real Estate Project	RE Cash Flow records are now displayed correctly in the Cash Flow, P&L, and Side by Side Comparison sections on the Executive Summary tab of all RE Project forms: Acquisition, Disposition, Expiration, Termination, Lease, Sublease, and Current Terms. (Tri-65787)

Area of Change	Description
Record Runtime	In a work task, in the Resources tab, work time is now calculated correctly. The issue was resolved by using the new MilliSecondsFromDuration system formula to calculate the milliseconds of duration. The MilliSecondsFromDuration system formula is introduced in IBM TRIRIGA Application Platform 3.7.0. To use this new system formula, you must upgrade your platform version. (Tri-65374-IJ22014)
Reporting	BIRT reports that include a Note field are now working correctly. (Tri-59941-IJ20985)
Reporting	Event records transitioned to Unscheduled state can now be transitioned out to another state. (Tri-61660-IJ20706)
Reporting	The Training square feet values now show up correctly in the Space Classification Summary report. (Tri-64399-IJ23385)
Reporting	TIME_SNAPSHOT is now always the first column to return on license BIRT reports. (Tri-63825)
Reporting	When downloading the Option Master Report, the file name created by the naming convention is now correct. (Tri-60960)
Security	Security groups are now copied to the new copied employee record when you copy an employee record that includes the TRIRIGA Password Change group. (Tri-61788-IJ21159)
Space Assessment	In a Space Use Agreement record, the on change Workflow available at the List Field Chargeback Tracking Type is now working Properly. When Chargeback Tracking Type = Space Management, it hides the fields triRESeats, triREHeadcountIntNU, and triREHeadcountExtNU. When Chargeback Tracking Type = Real Estate or Blank, then these fields are displayed. (Tri-64557)
Space Assessment	On an existing Space Use Agreement, removing all the Space or Area Level Allocation now sets the Chargeback Tracking Type to 'Real Estate'. (Tri-64411-IJ23765)
Stacking	In the Stacking app, the last stack you dragged and dropped between floors no longer appears at the top left corner of the screen. (Tri-58886)
Strategic Facilities Planning	The pop-up query displayed for the Planning Period Config locator field on the Planning Environment form now filters out records in retired status. (Tri-63480)
Strategic Facilities Planning	The query displayed for Worker Type classification field on the Headcount Demand Driver form now excludes the Assignment Type parent classification record. (Tri-62935)
Tasks	Assets in retired status are no longer shown in the Work Task form. (Tri-64623-IJ23611)
Tasks	Opportunity and Task records are now associated in both directions. (Tri-63508-IJ22712)
Tasks	When adding punch list items for a task, duplicate line items are no longer created on the Punchlist form. (Tri-63301 IJ21990)

Area of Change	Description
Tasks	When the service matrix includes a priority, a work task's priority is now mapped from the service matrix. (Tri-62903-IJ22436)
Tasks	When using the Editable query on Work Task to change the quantity of Parts, the quantity returned values are now calculated correctly. (Tri-64361-IJ23386)
UX Framework	Resolved an issue on Polymer 1 UX apps that caused an excessive time to load the UX app when a non-English user opens it for the first time. (Tri-63145)
UX Framework	The UX Work Task app now displays the priority icons for non-English users. (Tri-62184)
UX Group Move App	In the UX Group Move app, when creating a new request, clicking on the move icon no longer erroneously triggers the warning pop-up "The move date is no longer valid." (Tri-65744)
UX Group Move App	On the UX Group Move app on the Where tab when you selected a large number of rooms, the issue that caused the app to freeze is fixed. (Tri-57893-IJ17228)
UX Locate App	In the UX Locate app, the person search now displays the correct results when the user makes multiple searches consecutively within a short time span. (Tri-64549-IJ23583)
UX Locate App	The UX Locate app now displays a pin on the floor plan when you search for and select a person. (Tri-65764-IJ24812)
UX Stacking App	In the UX Stacking app, the Linked Form field on Stack Plan Contact Role Setup record is populated with a value "Stack Plan" using the patch helper workflow triPatchHelper - triCalculate - 10.7 - Update Linked Form on Stack Plan Contact Role Setup. (Tri-64924)
UX Stacking App	You can now export a change list from the UX Stacking app without using foundation TRIRIGA. (Tri-58939)
UX Work Planner App	When you use the UX Work Planner app on an iOS device, the capacity bar is now visible. (Tri-65827)
UX Work Task App	In the UX Work Task app in offline mode, changes made to priority or status on the work task details page are now updated in the list view. (Tri-65851)
UX Work Task App	In the UX Work Task app, on the asset detail page, the assign date and return due date fields now show the date time value instead of only the date value to be consistent with the foundation product. (Tri-65713)
UX Work Task App	In the UX Work Task app, the asset details in service date field will display correctly if a user in an earlier time zone enters a date value viewed by another user viewing in a later time zone, especially when the time difference puts the two users in two different days. (Tri-65391)
UX Work Task App	In the UX Work Task app, when a work task is submitted, the toast message now displays correctly. (Tri-62855)

Area of Change	Description
Workflow	A server log error related to incorrectly formatted dates no longer appears. (Tri-63270-IJ23557)

IBM TRIRIGA 10.7.0 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.

Note: Many of the patch helpers included in this release have already been included in earlier fix packs, as shown in the patch helper name. When you run the main 10.7.0 patch helper workflow, it determines which of the other patch helper workflows have already been applied and does not re-run any that are already applied to your system.

The following patch helper workflows are in this release:

Name	Description
triPatchHelper - Synchronous - 10.7 - Main Patch Helper	Main patch helper, workflow attached with OM package to start patch helper after OM import.
triPatchHelper - Synchronous - 10.7 MAKE DEPENDENTS EDITABLE - Main Patch Helper	Called by main patch helper to Make Dependent records editable or non-editable. This patch helper was created as part of an APAR; if you ran this patch helper with the string "10.7 MAKE DEPENDENTS EDITABLE," then it will not trigger automatically.
triPatchHelper - triCalculate - 10.7 - Application Data - App Version	Updates application version record with upgraded date if application version exists, otherwise, creates application version record.
triPatchHelper - triCalculate - 10.7 - Create Reverse Association between Task and Opportunity	Creates reverse association between Tasks and Opportunity records.
triPatchHelper - triCalculate - 10.7 - Hide IFRS section in Asset & RE Leases	As per ASC 842 standard, IFRS leases do not require IFRS classification section; this patch helper hides the classification section for RE and Asset leases.
triPatchHelper - triCalculate - 10.7 - Hide Lease Rate Used (Calculated) field in FASB treatment	Updates the rate used in the Incremental Borrowing Rate field and hides the field in the FASB treatment section of RE GAAP Leases.
triPatchHelper - triCalculate - 10.7 - Remove Additional Contract Attribute	Temporary history lease creation process caused duplication contract attribute records. Duplicate contract attribute records will be deleted from the leases when this patch helper runs. There should only be one contract attribute associated to a lease.

Name	Description
triPatchHelper - triCalculate - 10.7 - Removing association between Lease Clause and Payment Audit	Removes association between Lease Clause and RE Payment Audit Setup where Blank RE Payment Audit Setup records created by error. **Note:** Although the patch helper name includes version 10.7, you must use the "IJ23855" patch helper string to run this workflow.
triPatchHelper - triCalculate - 10.7 - Set Percent Used on Payment Schedule Intermediate	Updates existing payment schedule intermediate with percent used from issued or completed index adjustment calculator records.
triPatchHelper - triCalculate - 10.7 - Show Classification Test PV on FASB Treatment Section	Shows new field created to store NPV to calculate classification test for FASB treatment section for RE leases.
triPatchHelper - triCalculate - 10.7 - Show/Hide Classification Test PV on Schedule Summary Section	Shows new field created to store NPV to calculate classification test for schedule summary section for RE and Asset leases.
triPatchHelper - triCalculate - 10.7 - Update Linked Form on Stack Plan Contact Role Setup	Updates linked form field on stack plan contact role setup record.
triPatchHelper - triCalculate - 10.7 - Update Theoretical Depreciation and Theoretical Asset	Only for IFRS leases or GAAP leases with IFRS used for local reporting. This patch helper calculates and updates the theoretical depreciation and theoretical asset fields for the history leases of the current leases that are in Active, Review In Progress, Routing In Progress, Revision In Progress, and Revision Accounting In Review. For current leases that are in Active, Review In Progress and Routing In Progress, those fields will be updated on the current leases as well. For the current leases that are in Revision In Progress and Revision Accounting In Review, you need to click on the Re-calculate Accounting Schedule action on each lease to have the fields updated.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - Capital Project - Make Comments Editable	Cascade read-only has been enabled for Capital projects. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the comments dependent records on capital projects editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - Capital Project - Make Contact Roles Editable	Cascade read-only has been enabled for Capital projects. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the contact roles dependent records on capital projects editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - Facilities Project - Make Addresses Editable	Cascade read-only has been enabled for Facilities projects. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the addresses dependent records on Facilities Projects editable.

Name	Description
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - Facilities Project - Make Comments Editable	Cascade read-only has been enabled for Facilities Projects. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the comments dependent records on Facilities Projects editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - Facilities Project - Make Contact Roles Editable	Cascade read-only has been enabled for Facilities Projects. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the contact roles dependent records on Facilities Projects editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - Program - Make Comments Editable	Cascade read-only has been enabled for Program. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the comments dependent records on Program editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - Program - Make Contact Roles Editable	Cascade read-only has been enabled for Program. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the contact roles dependent records on Program editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - Program - Make Risk Items Editable	Cascade read-only has been enabled for Program. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the Risk Items dependent records on Program editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - Program - Make Strategic Initiatives Editable	Cascade read-only has been enabled for Program. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the Strategic Initiatives dependent records on Program editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - RE Implementation Plan - Make Comments Editable	Cascade read-only has been enabled for RE Implementation Plan. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the comments dependent records on RE Implementation Plan editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - RE Implementation Plan - Make Contact Roles Editable	Cascade read-only has been enabled for RE Implementation Plan. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the contact roles dependent records on RE Implementation Plan editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - RE Project - Make Comments Editable	Cascade read-only has been enabled for RE Project. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the comments dependent records on RE Project editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - RE Project - Make Contact Roles Editable	Cascade read-only has been enabled for RE Project. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the contact roles dependent records on RE Project editable.

Name	Description
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - RE Project - Make CTQ Assessments Editable	Cascade read-only has been enabled for RE Project. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the CTQ Assessments dependent records on RE Project editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - RE Project - Make Payment Schedule Editable	Cascade read-only has been enabled for RE Project. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the Payment Schedule dependent records on RE Project editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - RE Project - Make RE Transaction Terms Editable	Cascade read-only has been enabled for RE Project. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the RE Transaction Terms dependent records on RE Project editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - RE Project - Make Revenue Forecast Editable	Cascade read-only has been enabled for RE Project. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the Revenue Forecast dependent records on RE Project editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - RE Project - Make Savings Detail Editable	Cascade read-only has been enabled for RE Project. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the Savings Details dependent records on RE Project editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - RE Transaction Plan - Make Comments Editable	Cascade read-only has been enabled for RE Transaction Plan. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the comments dependent records on RE Transaction Plan editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - RE Transaction Plan - Make RE Transaction Scenarios Editable	Cascade read-only has been enabled for RE Transaction Plan. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the RE Transaction Scenarios dependent records on RE Transaction Plan editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - RE Transaction Plans - Make Business Participants Editable	Cascade read-only has been enabled for RE Transaction Plan. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the Business Participants dependent records on RE Transaction Plan editable.
triPatchHelper - triCalculate - 10.7 MAKE DEPENDENTS EDITABLE - RE Transaction Plans - Make Contact Roles Editable	Cascade read-only has been enabled for RE Transaction Plan. The old process of making the dependent records editable/read-only through workflow is retired. This workflow makes the contact roles dependent records on RE Transaction Plan editable.

IBM TRIRIGA Application Platform 3.7.0

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 on IBM Support.

Area of Impact	Description
Lease - Asset and Real Estate Reporting System Setup	A clean installation of IBM TRIRIGA 10.7.0 will clear the Database Server field that is found at Tools > System Setup > General > Application Settings > General tab > TRIRIGA Server Details section. You must enter the value manually in order to run BIRT disclosure reports for lease accounting. (Tri-59574)
Lease - Real Estate Performance	As noted in the TRIRIGA Best Practices document, adding the following index significantly improves the performance of the Get Payments process. As with any index, you must analyze whether the index will help with your database and data composition. The index is as follows: CREATE INDEX PERF_GETPAYMENTS ON T_TRIPAYMENTLINEITEM (TRIPROCESSPERIODCL, TRISTATUSCL, TRIACCOUNTINGTYPELI, TRIPAYPROCESSEDMODELI, SYS_GUIID, SYS_OBJECTID, TRIDUEDA) (Tri-51949-IJ08317)
Reporting	Added documentation clarifying the purpose of the Random Result Count. This option in the Report Manager is for use with workflows only, and is not meant to be used for record runtime or for exporting reports. In the *Application Building for the IBM TRIRIGA Application Platform 3* user guide: The following note is added in the Query task section. Note: The random result count may remove sorting and may or may not return the same results in the subset from run to run. This feature is to limit the number of records returned in the Query task. In the *IBM TRIRIGA Application Platform 3 Reporting User Guide*: The following note is added in the Creating Reports section about the Random Result Count section. Note: The value in Random Result Set limits the number of records the query returns if this query is used in a workflow. The random result count may remove sorting and may or may not return the same results in the subset from run to run. This feature is to limit the number of records returned in the Query task. This random result set should not be expected to work with other features of reporting, for example it will not be adhered to when exporting to Excel. (Tri-61327-IJ20921)

Area of Impact	Description
Record Runtime	If a database server is slow and you try to create a large number of hierarchy records with the help of the Data Integrator and asynchronous workflow, there is a possibility that the hierarchy path (triPathSY) of some records will not map properly. To resolve this, you can either delete incorrect records and recreate them or you can create a patch helper to fix those records. (Tri-58454-IJ21094)
Security	Effective April 2020, Microsoft will continue to disable Basic Authentication for newly created tenants by default. Starting October 2020, Microsoft will begin to disable Basic Authentication in tenants that have no recorded usage. However, Microsoft decided to postpone the disabling of Basic Authentication with Microsoft 365/Exchange Online services for those tenants still actively using it until the second half of 2021. As an alternative, Microsoft will support the OAuth open standard to connect to Exchange Online services. https://techcommunity.microsoft.com/t5/exchange-team-blog/basic-authentication-and-exchange-online-april-2020-update/ba-p/1275508
Security	There was a change on Traditional WAS 9.0.0.11 and Liberty 19.0.0.4 that added a new configuration property named *trustedSensitiveHeaderOrigin*, as described in https://www.ibm.com/support/pages/potential-websphere-application-server-problems-when-deployed-behind-websphere-aware-proxy-server On WebSphere Liberty, *trustedSensitiveHeaderOrigin* is configured as an *HttpDispatcher* custom property, and on traditional WebSphere the property is configured as an HTTP channel custom property. This property has a default value of "none", which means that a subset of WebSphere-specific HTTP headers will not be trusted from any host. The property also accepts value a of "*" (all), or a comma-separated list of IP addresses. For a secure deployment in which proxy servers are used, the *trustedSensitiveHeaderOrigin* property should be configured with a comma-separated list of IP addresses corresponding to those of any WebSphere-aware proxy servers in front of the WebSphere server. Alternatively, to enable the original insecure behavior, set *trustedSensitiveHeaderOrigin*="*", which will direct the WebSphere server to trust all headers sent from any host or proxy. This value must only be used for testing, or if the WebSphere server is isolated from external connections. *For Liberty servers add this line to the server.xml:* *<httpDispatcher trustedSensitiveHeaderOrigin="<TRUSTED_PROXY_IP_ADDRESS>"/>* *replace <TRUSTED_PROXY_IP_ADDRESS> by the IP of the web server machine where the WebSphere Plugin is installed.* Reference: https://www.ibm.com/support/knowledgecenter/SSEQTP_liberty/com.ibm.websphere.liberty.autogen.base.doc/ae/rwlp_config_httpDispatcher.html *For Traditional WAS set trustedSensitiveHeaderOrigin as a custom property of HTTP channel:* Reference: https://www.ibm.com/support/knowledgecenter/en/SSAW57_9.0.5/com.ibm.w

Area of Impact	Description
	ebsphere.nd.multiplatform.doc/ae/rrun_chain_httpcustom.html#trustedSensitiveHeaderOrigin (Tri-65334-IJ24173)
Upgrade	IBM TRIRIGA Application Platform version 3.7.0 has a new look and feel that is included with a clean install. To update the look and feel during an upgrade, follow the instructions at https://github.com/IBM/tri-carbon-style-pack. (Tri-64181, Tri-62194)

Known Limitations

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

Area of Impact	Description
Administrator Console	Deep Clean does not delete obsolete records when using Microsoft SQL Server. (Tri-66453)
Administrator Console	The Platform Maintenance Scheduler - TRI_REORGCHK_TABLE_AND_INDEX on DB2 may fail in certain environments with an SqlDataException. Contact IBM Support for a workaround. (Tri-66524)
Form Builder	In the Form Builder, if you modify section actions in a query section or a smart section, you may see an error for a possible XSS threat. This is not a real threat. The error only impacts design-time in the Form Builder. The workaround is to modify the form in a lower platform version and migrate to the current platform version with an OM package.
Installation	A clean installation of IBM TRIRIGA Application Platform version 3.7.0 on a Windows environment may result in an error on the server startup log related to nothing.txt could not be read or has zero length, not uploading. Check the file's permissions, or if it is zero length, delete it. It is safe to ignore this error. (Tri-66732)
Navigation	If the "Render in a new window" checkbox is selected when a navigation item is created with a valid dynamic label, the label is not currently updated. (Tri-64068-IJ26209)
Reporting	For Group By type reports displayed in the enhanced report renderer grid view, the actual group value columns appear deselected in the column context selection menu that is available all on column headers in the query results. By default, actual group value columns are hidden in favor of displaying the expand/collapse group column in the query results. If you want to see the actual group value column in the query results, you can select the column from the column selection context menu. The expand/collapse group column does not support aggregations or filters. If the group column is a sum column, then the actual group value column displays along with the expand/collapse group column so the sum values and aggregations can be viewed. If the query has a runtime

Area of Impact	Description
	filter on the group column, you need to select the actual group value column from the column selection context menu in order to see the filter. (Tri-64426)
Reporting	For reports that have a user-defined column width specified on a group column, the specified column width may not take effect on the group column but instead affect the adjoining column when rendered through the enhanced report renderer query grid. (Tri-66609)
Reporting	Hierarchy queries displayed through the enhanced report renderer grid view may not get sized correctly if they have a group report as a child. Extra whitespace might be seen on the child query. (Tri-66121)
Reporting	If a large number of query actions are defined in certain scenarios on a maximized portal section that is rendering a query with the enhanced report renderer query grid view, the overflow menu may not display all the actions. (Tri-66167)
Reporting	If you convert your database to use Module Level Associations, several BIRT reports should be updated to use the module-level tables instead of IBS_SPEC_ASSIGNMENTS. (Tri-66627)
Reporting	In some scenarios where a column label is too large in the enhanced report renderer query grid view, the far-right column context menu may appear clipped. Users can see the entire the context menu by dragging the column size larger. (Tri-66166)
Reporting	On some pop-up queries, such as locator pop-ups that display with the enhanced query rendering grid, an unnecessary horizontal scroll bar may display. (Tri-66387)
Reporting	On some query sections displaying the enhanced report renderer query grid, if no data is in the results, the no data to display text may overlap the query header. (Tri-66391)
Reporting	Some pop-up dialogs, such as "Find" lookup dialogs that render with the enhanced report renderer query grid, may appear to have their footer cropped off if launched from a smaller form. The dialog can be dragged up to make the footer visible by clicking and dragging in the white border of the dialog. After you drag the dialog to the appropriate position, you may need to double-click in the white border to release dragging mode. (Tri-66477)
Reporting	User-defined column widths defined in a prompt before query report that is rendered with the enhanced report renderer may not be honored after the display is refreshed. Initially, the custom column size shows, but after a refresh, the customized sizing may be replaced by sizing that maximizes the data displayed in the grid. (Tri-66608)
Reporting	When pie charts are displayed in TRIRIGA components with limited space, such as portal sections and navigation items, the chart labels are hidden. You should rely on pie chart tooltips for the chart details when the labels are hidden. This addresses a limitation with AnyChart that results in labels being overlapped or chopped off. Chart legends may also have display issues in smaller components. You can turn off the legend display by using the Display Legend checkbox in the Options tab of the report. (Tri-61781-IJ21008)

Area of Impact	Description
Reservations	If a recurring reservation is initiated through a UX or Foundation application, the space selected on the recurring reservation will be on hold for that reservation for the duration selected on Meeting Space Hold Time Duration field under the Reservation Settings tab of the Application Settings record. If another user is trying to create a recurring reservation for the same space and time through Outlook without using the TRIRIGA Reserve Add-In, it does not recognize the hold times of the space initiated from UX or classic application. The reservation being created through Outlook without using the TRIRIGA Reserve Add-In will overwrite the other one and will be accepted and the reservation initiated through UX or Foundation will be cancelled even if the space is on hold. (Tri-59427)

System Setup	In Oracle, you may notice invalid objects in the Administrator Console. Recompile the noted invalid objects in an SQL tool. For example, if the warning shows DM_APPEND is invalid, run the following in SQL Developer (or like tool).
	`ALTER PROCEDURE DM_APPEND COMPILE;`
	`If the invalid object is a package body`
	`ALTER PACKAGE PKG_ERROR_LOG compile body;`
	(Tri-65361)

Unit of Measure	Number fields that do not have the Use Custom UOM Precision and Mask property selected do not correctly use the display mask to handle precision. This can have unexpected results on a value's precision, and it also can give the appearance of inconsistent value rounding when compared with other fields that do not have the Use Custom UOM Precision and Mask property selected. Until this issue is resolved, the workaround is to select the Use Custom UOM Precision and Mask property and set the desired display mask. (Tri-65647-IJ25123)

IBM TRIRIGA Application Platform 3.7.0 Changes

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

Area of Change	Description
Administrator Console	In a new TRIRIGA install, in the System Info object, in the Date Field Processing Options section, the fields by default are set to FALSE (not checked). This is the recommended setting for each field unless your business processes require the fields to be set to use the foundation behavior. (Tri-63884)
Administrator Console	In the Database Info page, Database Admin Tasks section, the Deep Cleanup process now removes invalid L_ table entries and invalid referenced smart section rows. (Tri-66321)
Administrator Console	In the Database Info page, Database Admin Tasks section, the new Truncate Workflow Instances link enables you to truncate (or clear out) instances. It clears out all instance tables except for currently running workflows, workflows waiting for a user response, or suspended workflows. Only use this link on a quiet system. Using it on an active system may result in deadlocks and potential data loss. (Tri-55688)
Administrator Console	In the Must Gather Tool page, the EcuRep Email field is no longer disabled when SSO=Y. Now the EcuRep Email field is enabled when SSO=Y or SSO=N. (Tri-64428-IJ23762)

Area of Change	Description
Administrator Console	In the Workflows Executing section, stopping a running instance now works as expected. (Tri-63831-IJ23016)
Administrator Console	New metrics were added to the system metrics log and to the Performance Monitor page, Key Metrics section. The metrics show the total number of actual workflows started, completed, and failed, and the total number of steps processed. Now, along with the initiating/spawning workflow event counts, the actual workflows executed from those events and the total number of steps executed by the running application/process server are recorded to the log. These new metrics are different from other workflow counts previously recorded in the system metrics log. Those metrics were renamed WF Event Count and WF Event Throughput. The WF Event correlates to a state change action or a trigger action in a workflow. The action puts an event in the queue, and it is possible for many workflows to be executed by that one event. (Tri-55544)
Administrator Console	On the Performance Monitor page, Performance Monitoring section, the Speed Throughput Test was updated to use the IBS_SPEC table as a reference instead of the IBS_SPEC_ASSIGNMENTS table. (Tri-55574, Tri-65537)
Administrator Console	On the Users Logged In page, in the Locked User Accounts section, for each Connector for Business Applications user the user count shown now includes unsuccessful attempts. The count of unsuccessful attempts is also updated in the database. (Tri-61651-IJ21163, Tri-65935)
Administrator Console	The fix pack installer now updates the Build Number tab, Patch History section in the Administrator Console when using Microsoft SQL Server. (Tri-64272)
Administrator Console	The vmstat.jsp page was removed from the Performance Monitor object. This page was used to show the CPU info from Unix systems via the vmstat command. However, since the vast majority of performance issues are due to database and SQL inefficiencies, the jsp provided no value. Newer and better tools can be used to see actual CPU usage on the application servers. (Tri-52816)
Administrator Console	Users no longer see error messages when using the Performance Monitor from the Administrator Console. (Tri-62132-IJ22457)
Bookmarks	Bookmarks are no longer corrupted when you try to create a bookmark with an existing bookmark name. A warning displays and you can create a new bookmark with a different name. (Tri-62245-IJ21437)
Compatibility	IBM WebSphere Application Server Liberty profile 20.0.0.2 is supported and bundled with TRIRIGA. This is the recommended application server to use as a best practice in any environment. (Tri-64491)
Compatibility	Oracle WebLogic Server is no longer supported. (Tri-64492)
Compatibility	The ENERGY STAR Portfolio Manager version is upgraded from 13.0 to 14. (Tri-64920)
Compatibility	The TRIRIGA Application Platform now supports Microsoft SQL Server 2019. (Tri-64490)

Area of Change	Description
Compatibility	The TRIRIGA Application Platform now supports Mozilla Firefox version 77.0. (Tri-64680)
Connector for Business Applications	BusinessConnect API call getTargetRecords no longer fails on a DB2 database. (Tri-57571)
Connector for Business Applications	The Connector for Business Applications operations runNamedQueryMultiBo, runNamedQueryMultiBoLocalized, and runNamedQueryMultiBoContinue now provide a raw value property in the response that contains unformatted values where applicable. (Tri-61867-IJ21762)
Connector for Business Applications	You can now use the saveRecord API to create a triPeople record as described in the *IBM TRIRIGA Connector for Business Applications* user guide. (Tri-62933-IJ23763)
Data Modeler	In the Association Properties section, when you select the Is Parent Of association, you no longer see an error message and the correct value in the Associate Business Object field is mapped. (Tri-62858-IJ21929)
GIS	TRIRIGA's Esri solution now supports ArcGIS API for JavaScript 4.15. Esri made significant API changes in this release, which may affect any custom widgets written for the ArcGIS API for JavaScript version 3.x and earlier. Note that not all TRIRIGA Sample Esri Widgets were upgraded to ArcGIS API for JavaScript 4.15. Only the Sample Print widget, the Sample Editor widget, and the Sample Geocoder widget were upgraded. The code for the Sample Drive Time widget, the Sample Service Area, and the Sample Overview Map widgets was commented out for reference purposes. The code for those widgets is not supported in the ArcGIS API for JavaScript 4.15. Note, the Sample Editor Widget no longer contains the Show All Features checkbox. (Tri-55986)
Globalization	For many languages, the Gantt translation property files now load correctly and contain translations for the currently supported version of TreeGrid. (Tri-62895)
Graphics	In the Layer Configuration menu, turning off specific layers works as intended and the graphic does not display the turned-off layers during rendering. (Tri-57950-IJ14961)
Installation	The installer now validates the context path. The context path must either contain a / or a / followed by a single word. (Tri-57346)
Installation	The TRIRIGA Application Platform installer is updated to InstallAnywere version 2018 SP1, which adds installer support for Windows Server 2019. See the InstallAnywere 2018 SP1 release notes for more details regarding supported operating systems at https://helpnet.flexerasoftware.com/installanywhere2018sp1/rn/IAReleaseNotes_en.htm. (Tri-55669)
Integration Object	When you export data into a flat/XML/JSON file, if the Align UOM checkbox is selected, UOM values display next to the UOM fields. (Tri-62067-IJ22019)

Area of Change	Description
Lease - Asset and Real Estate	A duration calculation between a start date and an end date now handles Daylight Saving Time (DST) dates correctly. An example of this calculation is when working with a lease. The lease term is a duration that is calculated between the Commencement Date and the Base Lease Expiration Date. Previously, the resulting duration would be incorrect by one hour due to miscalculating DST. Now the duration of a lease is calculated correctly. (Tri-61235-IJ20917)
Lease - Asset and Real Estate	The TRIRIGA date picker selects correct dates in Brazilian time zones now that Brazil no longer has Daylight Saving Time. (Tri-62288-IJ23389)
Licensing	A user with a Request Central license can now provide clarification comments in the approval process. (Tri-61960-IJ21250)
Licensing	All licenses now have at least Read access to the licensed triGraphic module Business Objects. (Tri-62976-IJ21696)
Licensing	License files deployed by the TRIRIGA installer are now readable in non-US-English languages. (Tri-64749)
Licensing	The following licenses now have Read access to triSetup > triNews business object (Tools > System Setup > General > News): IBM Facilities and Real Estate Management on Cloud Approvals and Reporting IBM Facilities and Real Estate Management on Cloud Field Services Concurrent IBM Facilities and Real Estate Management on Cloud Field Services Authorized IBM TRIRIGA Field Services Concurrent IBM TRIRIGA Field Services Authorized. (Tri-62254)
Licensing	Users with the new Wipro TRIRIGA HSE Enterprise License have access to the Wipro Health, Safety, and Environment (HSE) application. (Tri-63489)
Object Migration	Messages in the server.log that did not provide useful information no longer appear during an application upgrade import. (Tri-54613)
Object Migration	Only ZIP files can be imported via Object Migration. (Tri-64338)
Object Migration	When you copy a package, the values in the workflow property are now copied correctly. (Tri-60112)
Offline	The font of the offline form date field now matches the rest of the template. (Tri-62783-IJ22847)
Outgoing Mail	Bid request email notifications are now sent to all email addresses in the External Mail CC section of the notification record. (Tri-63025-IJ23390)
Outlook	Since multiple licenses now provide access to the triReservation module, warnings in the outlook.log file about not having a license are now more generic. (Tri-61727)
Outlook	When in debug mode, authentication error messages no longer appear in the outlook.log file when the user has authenticated. (Tri-57652)

Area of Change	Description
Outlook Reservations	In the Reservation Outlook add-in, Food Order/Equipment Order menus are displayed correctly when you add a Food Order/Equipment Order to a room reservation. (Tri-60626)
Performance	Performance Analyzer logging no longer causes an error if an object label is not available. (Tri-62142-IJ22452)
Performance	When there are a large number of records in a hierarchy, a smaller set of statements is used to build the tree in the background when a large change has occurred. In addition, a new property in TRIRIGAWEB.properties can be used for a Comma delimited list of tree types to exclude from hierarchy cache events. The property is EXCLUDED_TREE_HIERARCHY_CACHE_TYPES This will prevent hierarchy types from being synchronized across servers. For example, EXCLUDED_TREE_HIERARCHY_CACHE_TYPES=triCostCode (Tri-65710-IJ24801)
Portals	The URL in a portal section can now be changed. (Tri-63455-IJ22909)
Portals	When a portal section displays the result of a locator field, all of the records are now displayed and records are no longer hidden by the portal section border. (Tri-65086-IJ24716)
Projects	TRIRIGA Gantt implementation now assumes the default calendar of the project when interfacing with the JavaScript Gantt library. If the task calendar is not the project calendar it will be part of the row data sent to the Gantt library. This will significantly improve loading and performance especially on projects where the project calendar is the same as the task calendar. (Tri-58755-IJ16991)
Reporting	A context menu now displays when you right-click an enhanced report renderer query rendering grid. The context menu contains a Copy menu item. If you select this menu item, the system copies to your clipboard the value of the cell that currently has focus. For query results that that have radio buttons, this feature can copy the selected row to your clipboard. For query results that have checkboxes, this feature can copy all selected rows to your clipboard. (Tri-65961)
Reporting	A metric report now displays accurate data when you switch from one show by value, to a different show by value, and then back to the original show by value. (Tri-63812-IJ23388)
Reporting	A query defined with a system filter with a filter token, such as $$PARENT to filter off of a record reference field such as a locator field, now returns results if the operator of the filter is something other than EQUALS or NOT_EQUALS. (Tri-64719)
Reporting	A report being saved in the Report Manager can have special characters in field names. The Report Manager will correctly display the field in the columns view. (Tri-59968-IJ17587)

Area of Change	Description
Reporting	During enhanced report rendering, if the containing window is maximized before the query fully loads, the grid is now correctly sized for the maximized window. (Tri-66131)
Reporting	Filters that were not responding in certain situations now respond to user input for reports run through the enhanced report renderer query grid. (Tri-66244-IJ25039)
Reporting	When running enhanced report renderer hierarchy queries that have the 'Suppress headers and align columns' feature selected in the report design, the enhanced movable column feature is not supported. Additionally, if the column field names in the child query do not match up with the column field names of the parent query, the results can be unpredictable. (Tri-64669)
Reporting	For non-US English-language users, master detail actions no longer display the word "null". (Tri-64154-IJ23593)
Reporting	For queries designed with group columns, the enhanced report renderer query rendering grids display the group columns before non-group columns and in the order specified by the group section in the report design. This behavior is regardless of how those same columns are ordered in the Display Columns section of the report design. (Tri-66024)
Reporting	Hierarchy queries displayed through enhanced report rendering grids do not support column pinning. (Tri-65982)
Reporting	If your database is converted to enable Module Level Assignments (MLA), the ALLOW_REVERSE_ASSOCIATION property in TRIRIGAWEB.properties is ignored. The Reverse Association flag in queries and reports is ignored, and only forward associations are allowed for association filtering in reports and queries. (Tri-65900)
Reporting	In previous versions of the enhanced report renderer, action buttons were above and below the report renderer. The lower action button bar was removed, and action buttons now only appear at the top of the report. (Tri-63153)
Reporting	In previous versions of the enhanced report renderer, record links in report results were underlined to indicate that the user had permission to access the record. Now, the first column of each row that a user can drill into is highlighted in blue. Note that if the first column for a row has no data, then no blue highlight will appear, yet the user will still be able to drill into the row. (Tri-63122)
Reporting	In previous versions of the enhanced report renderer, report action buttons stacked vertically if there was not enough horizontal space to render all of them. Now you will see an overflow menu that renders a vertical menu with all available actions when there is not enough space to display all of the actions on one row. (Tri-63644)
Reporting	In previous versions of the enhanced report renderer, the current date displayed when you ran a report from the Report Manager. This feature was removed from the enhanced report renderer runtime. Excel exports continue to display the date of the export. (Tri-63159)

Area of Change	Description
Reporting	In the enhanced report renderer grid, linked query sections on forms, such as graphic query sections, now correctly load. (Tri-63863-IJ22653)
Reporting	In the enhanced report renderer query grids, filter values no longer disappear after you scroll the grid horizontally. (Tri-65303-IJ24252)
Reporting	In the enhanced report rendering grid, portal sections that display queries no longer display checkboxes if the query has no actions. (Tri-66164)
Reporting	In the enhanced report renderer, column headers now contain a context menu that appears when you mouse over the right side of the header. The context menu provides the option to perform column operations such as pinning columns. (Tri-64424)
Reporting	In the enhanced report renderer, copied and duplicate filters now appear in the Show More Filters section. (Tri-64310-IJ23223)
Reporting	In the enhanced report renderer, In and Not In filters no longer produce zero results or cause JavaScript errors. Now, any use of the single quote uri encoding %27 within a filter on the Enhanced Report Renderer resolves to a single quote. (Tri-64298-IJ23764)
Reporting	In the enhanced report renderer, reports no longer fail with a system error if the report does not contain columns. (Tri-65502)
Reporting	In the enhanced report renderer, when you right-click a group report or a summary report, you expose an Export to Excel context menu. When you download the report to Excel, the result matches the grouping and columns displayed on the screen. The download icon supported for group and summary reports in the previous platform version is still exposed, and the resulting Excel is in the grouped format of the previous release. Since summary reports now render in a grouped format, the downloaded Excel displays the grouped data and not just the data for the group header rows. (Tri-64296)
Reporting	In the Location hierarchy, if the user has read-only access, the Cut option no longer appears. (Tri-64291-IJ23185)
Reporting	On the enhanced report rendering grid, for queries with group columns, the precision for group total values of non-currency number fields now matches the precision for the underlying individual cell values for the same field. (Tri-65839)
Reporting	Report column filters no longer fail if the filter label in the report template contains special characters. (Tri-65299-IJ24450)
Reporting	Several color style changes were made to support the updated report design. You can manage these new colors by using the Style Manager import export process. (Tri-64069)
Reporting	Several enhanced report renderer features that only displayed in US English now are globalized. (Tri-62285)

Area of Change	Description
Reporting	The Add to Bookmarks button in the Enhanced Report Renderer is now an icon button that displays a star icon. (Tri-63221)
Reporting	The Close button in the report renderer is now an icon button that displays an X. (Tri-63222)
Reporting	The enhanced report renderer pagination bar now displays on a single row. (Tri-63120)
Reporting	The enhanced report renderer was updated to support formatted data display for dynamic string fields when the format field is one of the following field types: date, date time, time, or duration. (Tri-59712-IJ17544)
Reporting	The Track History feature now works as expected with reports that are run on the enhanced report renderer. (Tri-63353)
Reporting	When a Boolean field is used as a user filter, the user must enter either TRUE or FALSE (case insensitive). This applies to users of all languages supported by TRIRIGA. (Tri-64583-IJ24312)
Reporting	When a query is rendered, null date fields now display as an empty string. (Tri-63897-IJ22874)
Reporting	When a user tries to save a report that has the same name, same module, same business object, and same form as a system report, the system blocks that action and alerts the user that "a report with the name already exists". (Tri-63282-IJ22255)
Reporting	When designing a metric report, the only allowed operators are displayed in the drop-down selector. Such operator options are dependent on the field type and might vary from field to field. (Tri-62819-IJ21691)
Reporting	When you copy a hierarchy report, the copy now has the correct associated query in the General tab, Options tab. (Tri-63708-IJ23227)
Reporting	When you export a report of type Chart as a JPG or PNG file, the image is complete and does not have truncated data. (Tri-64586-IJ24251)
Reservations	In all browsers except Safari, the reservation calendar event pop-up now displays aligned with the record that was selected. (Tri-63947-IJ22927)
Security	A GET request that caused a stack trace now responds with an error message. (Tri-65718)
Security	A POST request that caused a stack trace now responds with an error message. (Tri-65719)
Security	Apache CXF is updated to version 3.2.13. (Tri-65321)
Security	TRIRIGA Reserve now supports OAuth for Microsoft 365/Exchange Online services. (Tri-58806)

Area of Change	Description
Security	When a user has groups with different access permissions for the Report Manager, the user now receives the highest access. (Tri-62831-IJ21584)
Stacking	In the Stacking applet, the stacking section and all of its dependencies are removed from TRIRIGA. If an existing form includes a stacking section, a message displays that indicates the section is no longer supported. This is for foundation forms and stacking sections, NOT to be confused with the UX Stacking app. (Tri-58166)
Style Manager	In the Style Manager, you can now modify the font size of State Transition Action buttons and the Section Action buttons. (Tri-64362-IJ23584)
Style Manager	The Style Manager style import now runs without error for clean installs. (Tri-62755)
Unit of Measure	You can now create a Unit of Measure value record with the UOM abbreviation field containing more than 10 characters. (Tri-60647-IJ22681)
UX Framework	The documentation for the Office 365 UX components is now available on the UX component's documentation page (/p/web/doc?polymerVersion=3). (Tri-64385)
UX Framework	The Polymer 3 version of the triblock-app-layout component now renders the home button when the home button is added after the triblock-app-layout is attached. (Tri-62229)
UX Framework	The triplat-ds UX component has a new method named queryMetadata. This method returns the query metadata for a query data source. See the UX component documentation for more information. (Tri-63740)
UX Framework	The UX component triplat-number-input now considers the currency symbol in the allowed pattern if the UOM is defined and there is a currency symbol. As a result, in the UX Work Task app, you can now back space to edit the Cost Per Unit field for materials after you input a value by pressing the Enter key. (Tri-64308)
UX Service Request App	In the UX Service Request app, if you select a room in the floor plan and submit a request and then immediately make a second request using the same floor plan, the floor plan does not lock up and the rooms on the floor plan remains selectable. (Tri-63712-IJ22930)
Workflow	If a record ID contains more than 10 digits, it can now be used to update metadata fields such as UPDATED_BY or CREATED_BY without causing an SQL exception. (Tri-55265-IJ10952)
Workflow	The description of the Workflow Future Agent was updated in the *IBM TRIRIGA Tuning* article and the *IBM TRIRIGA Application Platform 3 Installation and Implementation Guide*. The text now indicates that the Workflow Future Agent is a lightweight agent that processes actions from a workflow that have set up to trigger at a future date, it should always be turned on, and it is used by many applications including, but not limited to, BIM, Job Scheduling, Reserve and Lease. (Tri-61865-IJ20959)

Area of Change	Description
Workflow	The new MilliSecondsFromDuration system formula that can be called from an extended formula returns the accurate milliseconds for a duration. (Tri-62149-IJ22014)

IBM TRIRIGA Application Platform 3.7.0 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
EXCLUDED_TREE_HIERARCHY_CACHE_TYPES	When there are a large number of records in a hierarchy, a smaller set of statements is used to build the tree in the background when a large change has occurred. The new EXCLUDED_TREE_HIERARCHY_CACHE_TYPES property in TRIRIGAWEB.properties can be used for a Comma delimited list of tree types to exclude from hierarchy cache events.
	This property prevents hierarchy types from being synchronized across servers. For example:
	EXCLUDED_TREE_HIERARCHY_CACHE_TYPES=triCostCode
	(Tri-65710-IJ24801)
PERFORMANCE_LOGGING_THRESHOLD	Performance logging now only logs state transition, SQL, report, and extended formula operations that are longer than X, where X is defined by the PERFORMANCE_LOGGING_THRESHOLD property in the TRIRIGAWEB.properties file. The default value is 100 milliseconds. If the property is invalid or missing, performance logging logs everything. (Tri-56739)
WF_INSTANCE_SAVE_24HR_THRESHOLD	The new WF_INSTANCE_SAVE_24HR_THRESHOLD property in the TRIRIGAWEB.properties file indicates when the platform should stop saving workflow instances.
	When workflow instances are saved, the platform stops saving if the number of saved instances exceeds a certain threshold. Administrators can use this feature to set an upper bound for how many workflow instances are saved in a 24-hour period. This setting prevents the Platform Maintenance Scheduler (Cleanup Agent) from being impacted by excessive workflow instance data.
	The default value is 1000. To override the default value, set WF_INSTANCE_SAVE_24HR_THRESHOLD=#### where #### is a positive integer,and restart the server. This must be set on each server in the environment. Do not set this value to a number larger than 10000 or the Platform Maintenance Scheduler (Cleanup Agent) might take a long time to remove the debugging records.
	Default value = 1000
	Maximum value = 10000
	WARNING: The point of saving workflow instances is to debug workflows in development mode. It is not to be used for auditing or debugging in production. Saving large numbers of workflow instances has severe performance, storage, and

Area of Change	Description
	cleanup issues, as you would expect with collecting such a large volume of metadata.

(Tri-64195-IJ23090) |

IBM TRIRIGA CAD Integrator/Publisher 12.7.0

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 on IBM Support.

Area of Change	Description
Installation	The CAD Integrator installer for Bentley MicroStation CONNECT does not support multiple installations of the application. CAD Integrator can only be installed once in the system. This is because there can only be one TririgaCIBridge.cfg configuration file in the Bentley directory. If you decide to have multiple CAD Integrator installations, then you must manually update the tririga.cfg to point to the desired installation directory. (Tri-63648)
Moving Drawings	To move a drawing from one TRIRIGA system to another, the best practice is to first detach the drawing from the original server. This clears the information from the database as well as from the drawing and prevents orphan records in the TRIRIGA server. Next, connect the drawing to the other server and attach the drawing there. (Tri-64276)

Known Limitations

The following new known limitation concerning IBM TRIRIGA CAD Integrator/Publisher is added for this release. For known limitations related to previous releases, see the Release Notes page on IBM Support.

Area of Change	Description
Smart Attach	CAD drawings that present boundary errors during smart attach need to observe the placement of the space label. For more information see, https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/IBM%20TRIRIGA1/page/Label%20Positioning%20in%20CAD%20Drawings. (Tri-59361-IJ16724)

IBM TRIRIGA CAD Integrator/Publisher 12.7.0 Changes

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

Area of Change	Description
CAD Integrator	CAD Integrator for MicroStation CONNECT supports the upgrade of v8i to CONNECT type of drawings. Users can now use previously attached drawings in 32-bit to 64-bit applications through a new upgrade process. (Tri-66068-IJ24989)

IBM TRIRIGA CAD Integrator/Publisher 12.7.0 Properties Files

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

IBM TRIRIGA Connector for BIM 3.7.0

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

Important Information

The following new 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 on IBM Support.

Area of Change	Description
Rooms	If you are using Connector for BIM 3.6 on a model that was integrated with Connector for BIM 3.7, the Room tool may display an error. To resolve the error, open the Level tool and accept the form. This reestablishes the 3.6 data format. The model can still be used with the 3.7 connector, but if you use either the Level tool or the Room tool in the 3.7 connector, it will be necessary to repeat this process. (Tri-63215)
Security	The Connector for BIM includes a technology preview for integration with TRIRIGA Application Platform single sign-on. This includes both existing SAML configurations and the WebSphere plug-in SSO added in this release. For SSO details, see the IBM Knowledge Center at https://www.ibm.com/support/knowledgecenter/SSHEB3_3.7/com.ibm.tap.doc/sso_topics/t_ctr_authenticate.html. To enable, uncomment the SSO.Types property in the TRIRIGA_AR.properties file on the Connector for BIM workstation. (Tri-65671)

Known Limitations

There are no new 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 on IBM Support.

IBM TRIRIGA Connector for BIM 3.7.0 Changes

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

Area of Impact	Description
Areas	The title of the area form is now correct. (Tri-62847)
Areas from Rooms	When the Connector for BIM determines the area type to assign to an area cloned from a room by the Areas from Rooms tool, it now trims leading and trailing spaces from the space use class proration type before mapping it to an area type. (Tri-65544-IJ25251, Tri-65975)
Asset Locations	Assets of types other than Building Equipment now have a location assigned when they are created. (Tri-63130)
Asset Locations	The Asset Location filter now properly handles asset in rooms that are not in the current phase. (Tri-63322)

Area of Impact	Description
Detach	The IsTRIRIGA flag for Rooms and Spaces is now cleared when Detach is used with the "Detach from TRIRIGA" option. (Tri-62955, Tri-62986)
Parameters	In the Revit Type to TRIRIGA Specification naming rules, type shared parameters are now correctly displayed instead of component shared parameters. (Tri-65105)
Parameters	The Parameter Mapping tool now opens correctly when the model has families within the same category with the same name. (Tri-64188)
Parameters	The Populate Parameters function now works correctly when the building type for energy analysis is not set. (Tri-63068-IJ21749)
Parameters	The value of the IBM.Name parameter is now updated with the value of the TRIRIGA space name when a reattach or link action is performed in the Area tool. (Tri-62861)
Platform Version	The Connector for BIM now correctly processes the supported platform version. (Tri-64082)
Publishing Area Plans	Publishing an area plan with duplicate area tags no longer causes an application error. (Tri-63394)
Publishing Models	The Publish Model tool no longer crashes when it is open and no buckets are defined in the Autodesk Forge service. (Tri-62799-IJ21494)
Retired Floors and Spaces	The Level tool no longer displays Floors in the Retired state. The Room and Spaces tools no longer display Spaces in the Retired state. (Tri-59359)
Security	The Connector for BIM now uses OAuth login, which times out when a session is inactive. To indicate that the session has timed out, all of the tools of the connector that interact with TRIRIGA display a session timeout error when opened and the connector is reset to a logged-out state. (Tri-64858)
Space Associations	Revit Space to TRIRIGA Space associations in linked models are now properly cleared by Detach. (Tri-63441)
Spaces	When a Revit space is used to create a TRIRIGA space, the Sync tool no longer shows the TRIRIGA space in the list of spaces not in the model that can be deleted by Sync. (Tri-62287)
TRIRIGA Server	A model can now be published when the context root of the TRIRIGA server is /. (Tri-62798-IJ21504)
Unassigned Space	Total Unassigned Space for TRIRIGA floor records is now properly updated when a room layout is altered in a Revit model and the model is synced to TRIRIGA. (Tri-65675-IJ24821, Tri-66154-IJ24906)
Upgrading Models	The Model upgrade process now gracefully handles models when the triBIMModel record is missing in TRIRIGA. (Tri-66213, Tri-66214)

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_10.7/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_3.7/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, previously available in the IBM TRIRIGA wiki, is available in the IBM TRIRIGA Application Platform 3.7 Knowledge Center. For more information, see the IBM TRIRIGA Release Information page on IBM Support.

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