

IBM TRIRIGA
Version 10 Release 5.3

IBM TRIRIGA Application Platform
Version 3 Release 5.3

Release Notes



Note

Before using this information and the product it supports, read the information in “Notices” on page 68.

This edition applies to version 10, release 5, modification 3 of IBM® TRIRIGA® and version 3, release 5, modification 3 of IBM TRIRIGA Application Platform and to all subsequent releases and modifications until otherwise indicated in new editions.

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Release Notes

Welcome to the July 2017 release of IBM® TRIRIGA® 10.5.3, IBM TRIRIGA Application Platform 3.5.3, and IBM TRIRIGA CAD Integrator/Publisher 12.1.6.

This release includes the following two installation options:

A new installation of IBM TRIRIGA Application Platform 3.5.3 and IBM TRIRIGA Applications 10.5.3.

An IBM TRIRIGA Application Platform-only upgrade installation from 3.0.x or higher to IBM TRIRIGA Application Platform 3.5.3.

The IBM TRIRIGA Applications can be incrementally upgraded to 10.5.3 Applications after the platform upgrade is completed. For more information about specific scenarios, view the [Upgrading](#) page on the IBM TRIRIGA wiki.

These release notes include the following:

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



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

What's New in This Release

With IBM TRIRIGA 10.5.3, IBM TRIRIGA Application Platform 3.5.3, and IBM TRIRIGA CAD Integrator/Publisher 12.1.6, 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 10.5.3, IBM TRIRIGA Application Platform 3.5.3, and IBM TRIRIGA CAD Integrator/Publisher 12.1.6 include the following highlights.

Lease Accounting

IBM TRIRIGA 10.5.3 continues to enhance IBM TRIRIGA Real Estate Manager lease accounting processes to accelerate and ensure compliance with existing lease accounting guidelines (ASC 840 and IAS 17) as well as new accounting standards (ASC 842 and IFRS 16).

New and enhanced features include:

- Journal entry configuration framework
- Period end closing capabilities
- Disclosure handling (quantitative metrics) templates
- Reporting templates
- Added segregation of duties between lease administrator and lease accountant

UX Framework

The vulcanization of UX applications is simplified by consolidating both development and vulcanized view files into a one view metadata record. Two fields were added to the view metadata record. The fields are the Development Filename field and the Production Filename field. You can now switch views during run time. To switch the view, go to the Development Mode page, which is available if the `WEB_DEV_CONFIG_ENABLED=true` hidden property is set in the `TRIRIGAWEB.properties` file. To set a system-wide mode for the environment, you can set the new `UX_DEV_MODE` hidden property in the `TRIRIGAWEB.properties` file. By default, the `UX_DEV_MODE` value is set to false. For example, the system uses the production view file if the value is not set. If the value is set to true, the system uses the development view files. You can overwrite this on the user Development Mode page. [For more information, review the SMC Vulcanization wiki page.](#)

The triplat-search-location component returns the closest location or locations within a proximity according to the user's GPS coordinates. It evaluates the closest locations based on a defined set of locations. The proximity is defined by the threshold.

The triblock-scroll-container component is a new building block that collects records that display horizontally. You can use scroll buttons to scroll from left to right and right to left. You can also swipe. The component supports scrolling pagination by using the triplat-query-scroll-page component.

The triblock-carousel component is a building block that automatically cycles through each child element with a sliding animation. You can browse through the content by using the circle icons or the back and next arrows if enabled.

The triblock-responsive-layout component is a building block that you can use to handle responsive behavior on a large screen or a small screen device. By default, the elements lay out horizontally. On the small screen mode, the elements stack vertically. Certain elements can be hidden in small screen mode when you enable the switch view option.

The triblock-popup component is a building block that you can use to display a responsive pop-up window to handle large and small screen modes. For small screen mode, the pop-up window covers the entire page of the application. There is also a new component called the triblock-search-popup, which extends the triblock-popup by adding a search component to provide filtering.

The tricore-lazy-loading-behavior component allows view file resources to be lazy loaded during application runtime. It is compatible with both development mode and production mode, where the files are vulcanized.

The triplat-auth-check component is used to determine which licenses and permissions (via security groups) are held by a user when accessing UX applications.

Workplace Services Perceptive Apps

IBM TRIRIGA 10.5.3 introduces a new Workplace Services offering that engages every-day employees through new web-based perceptive applications that provide mobile access to services managed by IBM TRIRIGA. A new Service Request app enables users to quickly submit work requests for issues they encounter wherever they might be in the workplace, from whatever device they might be using. A new mobile perceptive Reservation app enables TRIRIGA Workplace Reservation Manager users to quickly create reservations for individual workspaces or multi-attendee meeting rooms. A new location-aware Workplace Services Portal provides a single, unified access point from which users can launch these apps and track status of their requests.

Availability Section

Several enhancements are available in the JavaScript based DHTML component version of the IBM TRIRIGA Availability section, which was introduced in the previous release.

Single select of resources is supported. Application developers can restrict users to selection of a single resource in the Availability section of their applications. When the Enable resource select property is selected, the Enable resource single select property is visible and can be selected. When the Enable resource single select property is not selected, the user can select multiple resources.

Support for BiDi. When users select Enable Bidi Support in their user profiles, the Availability user interface now reflects this setting. For information on enabling the bidirectional feature, see Setting language preferences in profiles.

For more information, see [Availability section](#) on the [IBM TRIRIGA wiki](#).

Gantt

Your application administrator can now enable and disable the ability for users to delete tasks from the Gantt scheduler. The Form Builder now contains an Allow Delete property on the Gantt section that controls whether users can delete tasks in the Gantt section. The property is enabled by default.

For more information, see [Gantt Scheduler](#) on the [IBM TRIRIGA wiki](#).

Performance

Performance Analyzer

A new Performance Analyzer tool is available in the TRIRIGA Application Platform. The Performance Analyzer provides a streamlined approach to troubleshooting performance issues than the traditional performance log analysis. The Performance Analyzer can help you to better isolate and analyze the causes of performance issues. You access the Performance Analyzer in IBM TRIRIGA under **Tools**.

You can generate a log from the Performance Analyzer that is more targeted at the problem areas. When you select the performance timings that you want and click **Start**, the analyzer writes to the performance log while you do the process or actions that cause the slowness.

When you stop the performance run, the analyzer automatically loads the performance data and does high-level analysis that shows the most time-consuming events of each category type in the performance run. A result summary of the performance run shows the top events that took the longest time to run. You can further analyze the data by reviewing the result details. You can also upload an existing performance log to the analyzer and the analyzer does the same analysis of the data.

For more information, see [Performance Analyzer](#) on the [IBM TRIRIGA wiki](#).

Performance Best Practices

The Performance Best Practices has been converted to a wiki to help with usability and to provide up-to-date information in a timelier manner. See [Best Practices for System Performance](#) on the IBM TRIRIGA wiki.

In addition, a new tool called the Performance Problem Decision Tree helps you to progressively narrow the focus of your issue and provides targeted information for troubleshooting the issue. The decision tree indicates which tools can help you analyze performance issues and drives you to the most appropriate areas of the Best Practices for System Performance wiki.

Workflow Analysis Utility

The Workflow Analysis Utility is updated to support Java 8. To obtain the utility, see [Workflow Analysis Utility](#) on the [IBM TRIRIGA wiki](#).

Administrator Console

The Network Speed Throughput test is enhanced with a modern UX look and contains more information about the overall speed of the system. Information about upload and download speeds, speed to generate the data, and speed to upload and download to the database are now included.

The Must Gather Tool captures more troubleshooting data, which can help IBM Support to diagnose issues. The tool automatically gathers key information such as log files, configuration files, and system data. The data is saved in .txt and .csv files and the files are compressed into a file bundle. You can upload the file bundle directly to your Problem Management Record (PMR) or choose to send it to an email address that you want.

The Database Manager generates an Oracle Database Automatic Workload Repository (AWR) report for the two most recent snapshots of the Oracle Database. You can view the AWR report directly in the Admin Console. The AWR report is included in the file bundle that is created when you run the Must Gather Tool.

Upgrade

The object labeling and revisioning capabilities are extended in IBM TRIRIGA 10.5.3 and 3.5.3. The tracking of object changes with these capabilities in TRIRIGA will aid in upgrading your IBM TRIRIGA applications. The following paragraphs highlight the new features.

Object Revisions

This version introduces the ability to change the current revision of an object to a previous revision. When you revert the current revision to a different revision, the data for the revision that you select becomes the current data. The objects that you can revert to a previous revision are as follows: Business Objects, Forms, and Queries

Object Labeling

Enhancements to the Object Label Manager include the option to choose only the specific In Progress objects to which you want to apply a custom object label. In the previous version, the only option is to apply the custom label to all In Progress objects.

For documentation on these enhancements, see [Object Labels and Revisions](#) on the [IBM TRIRIGA wiki](#).

IBM TRIRIGA 10.5.3 Enhancements

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

Area of Impact	Description
Lease Accounting Asset Lease Real Estate Lease	For GAAP (FASB) Lease, Net Rent Payment column of Straight-Line/Amortization schedules, Operating/Finance Schedules is now applied with the min% (floor) in addition to its base Rent payment. The min% is set in the Index Adjustment Rent Clause. When an Index Adjustment Calculator is issued with a new percentage, the extra % after deducting the min% is showing in Variable Lease Payment column of Operating/Finance schedules. The sum of total net rent payment and total variable lease payment is equal to total cash payment. (Tri-269943)

Area of Impact	Description
Lease Accounting Asset Lease Real Estate Lease	For IFRS (IASB) Lease, Finance Schedules (ASC842) is now applied with the min% (floor), plus the extra % after deducting the min%, in addition to its base Rent payment. The total Net Rent will be higher than when the min% is applied, as well as the liability and right-of-use asset values. The Variable Lease Payment doesn't have anything populated. Total Net Rent Payment will be equal to total cash payment. (Tri-269942)
Lease Accounting Asset Lease Real Estate Lease	Min % (floor) is applied to the cash payments after the PLIs are generated (clicking on Submit For Accounting Review). The Min % is also applied to cash payment after issue a CPI adjustment through an Index Adjustment Calculator. On a Payment Line Item, Minimum Adjustment Amount shows the Min% amount that is applied. Index Adjustment Amount shows the extra % amount after deducting it from Min%. (Tri-269944)
Lease Accounting Asset Lease Real Estate Lease	The Interest Method field is added to the Application Settings, Lease Accounting Settings tab. It can either be set to Simple Interest or Compound Interest. This will be used to calculate the Lease Accounting Schedules. By default, the field will be set to Simple Interest. The triPatchHelper - triCalculate - 10.5.3 - Application Settings Defaults workflow sets the default to Simple Interest. (Tri-269935)

IBM TRIRIGA Application Platform 3.5.3 Enhancements

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

Area of Impact	Description
Administrator Console	The ability to view comments corresponding to a property directly is added to the Administrator Console. (Tri-221897; RFE-42752)
Administrator Console	The IBM TRIRIGA Application Platform lock system feature within the Administration Console has been enhanced to allow an administrator to customize the message being show to the end users. The message can be updated in the Administration Console System tab, by selecting the Lock System option. A new text field will appear where the custom message can be modified and saved. (Tri-267785)
Administrator Console	The Speed Test Results page in the Administrator Console under Performance Monitoring > Network Speed Throughput now has a modern UX look. It also has more information about the overall speed of the system. Information about upload and download speeds, speed to generate the data, and speed to upload and download to the database are now included. (Tri-224794)
Business Connect	TRIRIGA Connector for Business Applications (CBA) has been updated to use Apache CXF 3.1.10. (Tri-269689; Tri-259963)

Area of Impact	Description
Gantt	Gantt sections now allow the capability to disable the deletion of rows in the Gantt Scheduler by using a configuration check box in the Form Builder. (Tri-253263)
Gantt	There is now a TRIRIGAWEB.properties setting that will skip Actual field updates in the Gantt Scheduler if the Actual Start date is set. (Tri-264015)
Installation	Added support for WebLogic 12.2.1.2 (Tri-214437)
Installation	Permgen prompts have been removed from the TRIRIGA Installer. It is a property that is no longer supported by Java 8. (Tri-250738)
Installation	<p>The TRIRIGA installer no longer installs IBM Tivoli Directory Integrator. All panels related to IBM Tivoli Directory Integrator Installation have been removed from the TRIRIGA installer.</p> <p>To configure TRIRIGA to use TDI as its ETL runtime engine to run ETLJobItems, you must install TDI on all TRIRIGA systems that could run a TDI ETL Jobitem. You must then perform a set of documented configuration steps to configure TRIRIGA for TDI.</p> <p>This change gives you greater control over when you install and configure TDI for TRIRIGA. You no longer have to perform a TRIRIGA upgrade or install just to install TDI.</p> <p>This change also simplifies upgrade of TRIRIGA when TDI is being used. You no longer have to uninstall TDI before doing a TRIRIGA upgrade. (Tri-215177)</p>
Logging	Security logging has been enhanced to include detailed data about session credentials generation when the Verbose Security Logging option is enabled in the Platform Logging Manager in the Admin Console. (Tri-264134)
Logging	The number of active connections to the database from WebSphere Liberty can now be viewed in the TRIRIGA Admin Console. These connections can also be logged to the system metrics log, if enabled. (Tri-255034)
Metric Reports	Filters in metric query will correctly return results for non-English user. (Tri-270332-IV96809)
Object Labels and Revisions	A processing wheel will now display when Navigation Collections are created, opened, or saved. The Save, Save and Close, and Cancel buttons will be hidden while the processing wheel is displayed.
Object Labels and Revisions	Added functionality for publishing prior revisions of Business Objects, Forms, and Queries.
Object Labels and Revisions	There is a new Object Label called Revision Suspended. This Object Label will appear in the object revision list, for any revision of the object that was previously labeled In Progress, and either an imported Object Migration package overwrote the In Progress object with a new labeled version of that object or the object was reverted to previous labeled revision of the object.

Area of Impact	Description
	Note for workflows, Revision Suspended also applies for any objects with the ObjectLabelPending Object Label. (Tri-261708)
Object Labels and Revisions	When clicking the Publish link on a Form, the Publish link will now become disabled until the Form publish process is complete.
Performance	An option has been added to TRIRIGAWEB.properties to turn off forced Case Insensitive Order by on query results. Turning off Case Insensitive Order By may result in better database performance, however it should be noted that the results may be ordered in a different manner. (Tri-263764)
Performance	SQL performance logging has been improved to make more sense. The actual sql has been added to the key and an attempt has been made to indicate what processing initiated the SQL. (Tri-257254)
Properties Files	In preparation for removal of reverse associations in the 2h2017 release, we have introduced a hidden property in TRIRIGAWEB.properties called CREATE_MISSING_REVERSE_ASSOCIATION By default this is set to false, which performs the legacy behavior, i.e., only create the reverse association if it is defined in the AssociationManager. If you set CREATE_MISSING_REVERSE_ASSOCIATION=true when an association is made, and the reverse association is not defined in the Association Manager, then the platform will create a reverse association with the same string as the forward association. An Info message will also be displayed in the server log. Note: This property does not exist in the as-shipped property file, if you wish to test your applications with this setting, then you will have to add it manually. (Tri-239215)
Reporting	A new system list type has been created named triExternalQueryReport. It will return all the report, query and external report type(s) for any given module. (Tri-268662)
Reporting	Table column headers cells are now frozen in place for standard queries and will stay fixed when scrolling through the query results. (Tri-253262; RFE-172635)
Security Logging	Security logging error messages have been updated to show the System Geographies and System Organizations access from each security group of the current user. This new information appears when the Verbose Security Logging option is enabled in the Platform Logging Manager in the Administrator Console. (Tri-248668)
Sign-on	If a user session times out, the message on the Portal will now allow the user to click on a link and sign in again. (Tri-239875)
Upgrade	A Detail column is added to the revision list and snapshot list screens. Values are displayed in this column to indicate if a revision or snapshot is OM imported or published/applied from a previous revision or snapshot.
UX Framework	A new component called triplat-auth-check is available. By using it, an application developer can check current user's licenses and permissions at runtime. This way, controlling application access became a much easier task.

Area of Impact	Description
UX Framework	A new component called TRIPLAT-SEARCH-LOCATION has been created. It searches for the closest location according to the user's current position (Global positioning system coordinates).
UX Framework	A new note is added for triplat-geo component explaining issues that may be found when running TRIRIGA without SSL enabled. (Tri-260003)
UX Framework	Add support for passing in multiple record IDs into the context for a multiple record BUSINESS_OBJECT data source type. (Tri-242264)
UX Framework	The following icons are added to the IBM icon set: buildings, popup-close, and popup-close-filled. (Tri-260649)
UX Framework	The home button is now at the beginning of the banner instead of next to the sign out button. (Tri-255708)
UX Framework	The TRIBLOCK-APP-LAYOUT component will now have the content centered, a max width of 1100px (which can be changed via a mix-in) and a default background color set to --tri-body-background-color. (Tri-255056)
UX Framework	The triblock-carousel is a new component that will automatically cycle through each child element with a sliding animation. The content can be navigated to directly by using the circle icons below or the back and next arrows if enabled. (Tri-259106)
UX Framework	The triblock-responsive-layout is a new UX triblock component that can be used to handle responsive behavior on a large screen as well as a small screen device. By default the elements will lay out horizontally. On small screen mode, the elements will stack vertically instead. Certain elements can be hidden in small screen mode by enabling switch view option. See the triblock-responsive-layout documentation page for more details. (Tri-255377)
UX Framework	The triplat-ds 'ds-get-error' event error messages are now improved when there are missing or invalid record IDs. (Tri-251595)
UX Framework	The triplat-select-input component now has a property called loading that is used to control when to display a loading indicator inside the dropdown list. (Tri-259710)
UX Framework	The triplat-select-input now has a margin-bottom of 10px instead of 60px by default so that the drop-down dialog can display more items. The margin-bottom is now configurable via a mix-in. (Tri-252492)
UX Framework	There is a new building block called triblock-scroll-container which allows us to have a collection of records displayed horizontally. There are scroll buttons that make it possible to scroll from left to right and also supports swiping. The component also supports scrolling pagination using the triplat-query-scroll-page component (Tri-254984)
UX Framework	Vulcanization of UX applications is simplified by consolidating both development and vulcanized view files into one view metadata record. Two new fields have been added to the view metadata record, 'Development

Area of Impact	Description
	<p>Filename' and 'Production Filename'. Additionally, there is now a mechanism to switch between the views during runtime. This option is found on the Development Mode page, which is available if the hidden property 'WEB_DEV_CONFIG_ENABLED=true' is set in the TRIRIGAWEB.properties file. A new hidden property called UX_DEV_MODE can be set in the TRIRIGAWEB.properties file to set the system-wide mode for the environment. By default, the UX_DEV_MODE value is false (i.e. the system will use the production view file if this is not set; if set to true, the system will use the development view files). This can be overwritten from the user Development Mode page.</p>
UX Workplace Services	<p>When you post an image in the comments section, the supported image file types are defined by the values of COMPANY_FILE_UPLOAD_EXCLUDE_EXTENSIONS and COMPANY_FILE_UPLOAD_INCLUDE_EXTENSION in the TRIRIGAWEB.properties file. (Tri-256996)</p>
Workflow	<p>In Workflow Builder, the revision list for a workflow has a new link called Publish With Object Label. When clicked, the Object Label, Modified Date, and Modified By values of the newly published workflow, will be the same values of the selected revision reverting to. (Tri-261718)</p>
Workflow Runtime	<p>Workflow can now dynamically retrieve values from a TRIRIGA record using a custom task.</p> <p>This is accomplished by creating a new CustomTask, which is passed a workflow parameter named triDynamicFieldValueHelpers. The class name called is: com.tririga.platform.util.customtasks.DynamicFieldValueCustomTask\$ProcessFieldValue.</p> <p>The workflow parameter can contain one or more helper records built from the triDynamicFieldValueHelper business object in the System module. The triRecordIdNU field should contain the record id of the TRIRIGA record you are retrieving the value from. The triFieldNameTX field should contain the field name for the value being retrieved. When the CustomTask completes processing the triFieldValueTX and the triFieldDisplayValueTX fields on each triDynamicFieldValueHelper record will contain the non-formatted value and the translated display value respectively for the value being retrieved. (Tri-261470)</p>

IBM TRIRIGA CAD Integrator/Publisher 12.1.6 Enhancements

This release of IBM TRIRIGA CAD Integrator/Publisher adds installer support for AutoCAD 2018 and AutoCAD 2018 Architecture. The release also removes installer support for AutoCAD 2015 and AutoCAD 2015 Architecture.

Important Installation and Upgrade Information

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

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

For Oracle, run SetVarcharColsToNumeric_ORCL.sql.

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

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 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.

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

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

NEVER do either option after upgrading to 3.5.0.

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

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

Classification (Classification)
Cost Code Container (triCostCode)
Data Utilities (Data Utilities)
Document Container (Document)
Geography (Geography)

Group (Group)
Group Member (Group)
Holidays (System)
Location (Location)
Organization (Organization)
Permission Line Item (triPeople)
Polylining Standard (Polylining Standard)
Project Group Container (Group)
ROOT (Document)
triAnalyticEvent (triAnalyticEvent)
triAnalyticItem (triAnalyticItem)
triAnalyticProcess (triAnalyticProcess)
triAnalyticRule (triAnalyticRule)
triApplicationSettings (triSetup)
triApproval (triRouting)
triApprovalRule (triSetup)
triAssetEvent (triAnalyticEvent)
triAssetLink (triAsset)
triBidResponse (triProposal)
triBuildingSystem (triBuildingSystem)
triBuildingSystemLink (triBuildingSystem)
triCatalog (triCatalog)
triCatalogLink (triCatalog)
triCiApplicationDefinition (triCiApplicationManager)
triCiAssociatedObject (triCiApplicationManager)
triCiHierarchyNode (triCiHierarchyNode)
triContactRole (triIntermediate)
triContract (triContract)
triContractLink (triContract)
triCostCode (triCostCode)
triCostItemLink (triCostItem)
triCTQAssessment (triIntermediate)
triDataAttributeItemIntermediate (triIntermediate)
triDesignLink (triDesign)
triEnergyRatingErrorLog (triLog)
triEnergyStarValidationItem (triIntermediate)
triExternalMailServer (System)
triGeographyLink (Geography)
triInspectionLink (triInspection)
triInventoryLocation (triInventoryLocation)
triInventoryLocationLink (triInventoryLocation)
triItemLink (triItem)
triKeySecurity (triKeySecurity)
triLeaseAbstract (triContract)
triLeaseAbstractAction (triActionForm)
triLocationEnergySpace (triIntermediate)
triLocationLink (Location)
triNotificationDetails (triRouting)
triOSCREUtil (Data Utilities)
triPeopleLink (triPeople)
triPermitLink (triPermit)
triPlan (triPlanning)
triPlannedSpace (Location)
triPlanning (triPlanning)
triPlanningConflictItem (triPlanningItem)

triPlanningEnvironment (triPlanning)
triPlanningPeriodItem (triPlanningItem)
triPlanningScopeItem (triPlanningItem)
triProductsAndServicesLink (triProductsAndServices)
triProjectCalcItem (triCalculationItem)
triProjectLink (triProject)
triProjectReport (triProgressReport)
triProjectUpdater (triActionForm)
triREContractLocations (triIntermediate)
triRequest (triRequest)
triRequestLink (triRequest)
triReservationGroup (triSetup)
triResource (triIntermediate)
triRetailCompany (triIntermediate)
triReview (triActionForm)
triReviewer (triIntermediate)
triScheduleTask (triTask)
triSpaceForecastItem (triPlanningItem)
triSpaceForecastSurvey (triPlanning)
triSpacePlan (triPlanning)
triSpaceScenario (triPlanning)
triSpecificationLink (triSpecification)
triSurveyQuestionResponse (triIntermediate)
triTaskLink (triTask)
triTaskResourceAllocation (triTaskAllocation)
Working Hours (System)

(Tri-128841, Tri-128369)

IBM TRIRIGA Supported Versions and IBM TRIRIGA Application Platform Compatibility Matrix

The *IBM TRIRIGA Supported Versions* lists information related to IBM TRIRIGA's supported products and platform and relays information about end-of-life plans for such software. The *IBM TRIRIGA Application Platform Compatibility Matrix* lists supported operating systems, databases, and related details for and about the IBM TRIRIGA Application Platform and relays information about end-of-life plans for such software. The *IBM TRIRIGA Supported Versions* and the *IBM TRIRIGA Application Platform Compatibility Matrix* may change over time. The *IBM TRIRIGA Supported Versions* and the *IBM TRIRIGA Application Platform Compatibility Matrix* can be found on the IBM TRIRIGA wiki at <https://www.ibm.com/developerworks/community/wikis/home?lang=en#/wiki/IBM+TRIRIGA1/page/Support+Matrix>.

IBM TRIRIGA 10.5.3

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

Important Information

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

Area of Impact	Description
Lease Accounting Journal Entries	<p>If you plan to use journal entries for Lease Accounting, see the Implementation Guide for required setup steps.</p> <p>Information about journal entries and all changes in TRIRIGA 10.5.3 related to Lease Accounting are found in the implementation guide that is available from the IBM TRIRIGA Lease Accounting wiki.</p>
Workplace Services Applications	<p>A user with primary location set should have geography security access to that location to be able to see Move Requests they have created in the Workplace Services Portal or standalone Move Me Perceptive applications. (Tri-276140)</p>
Workplace Services Applications	<p>In the Workplace Services portal, the news carousel text 'Learn the latest news about' is not configurable. It can be configured in the view files for the application. (Tri-269451)</p>
Workplace Services Applications	<p>The location detection functionality that is in the Workplace Services Applications' change locations section will detect buildings within 100 meters.</p>

Known Limitations

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

Area of Impact	Description
Lease Accounting	<p>Non-standard calendars are not supported in version 10.5.3.</p> <p>An Object Migration package to support non-standard calendars is available for IBM TRIRIGA version 10.5.3.1. See question 13 in the FAQs on the IBM TRIRIGA Lease Accounting wiki for more information on how to request the OM package.</p>
Lease Accounting Purchase Option and Termination Option	<p>For Purchase Option, Purchase Price is not included in the lease liability. The same applies to Termination Option; if a Penalty fee is specified, the amount is not included in the lease liability.</p>
Lease Accounting Index Lease	<p>IBM TRIRIGA does not support when an index lease is modified/amended.</p>
Lease Accounting	<p>The amount of Incentive, Initial Direct Cost and Rental Prepayment per period are not prorated when the accounting start date is not on the first day of the period or the accounting end date is not on the last day of the period.</p>
Lease Accounting Incentive Schedule	<p>When a lease with a known incentive amount is amend and extended, the incentive schedule does not re-calculate the amount from the effective period.</p>
Lease Accounting	<p>When an incentive becomes known in the middle of the lease term, the amount is not amortized over the remaining lease term. The straight-line is taken back to the Commencement Date, not from the Effective Date.</p>
Move Requests	<p>In both IBM TRIRIGA Group Move and Move Me, a page may not load after session time-out and a loading spinner may be displayed indefinitely. If this occurs, the user should log out and sign in again. (Tri-250858)</p>
Move Requests	<p>In IBM TRIRIGA Group Move, if one selects multiple floors as Move To locations when moving Rooms, Assets or Equipment and if these floors lack floor plans, space assignment is possible only on one floor, but it is not possible in subsequent floors. A workaround is to refresh the page, or select floors from the Search drop-down one at a time, i.e. when one needs to work on a different floor, select another floor from the Search drop-down. Additionally, if one selects a single floor with no floor plan as Move To locations when moving Assets, Equipment or Rooms, and if there is a preceding space assignment to move a Person, space cannot be assigned to these subsequent moves on Assets, Equipment or Rooms, unless one refreshes the page first. (Tri-252457)</p>

Area of Impact	Description
Move Requests	The IBM TRIRIGA Group Move perceptive app cannot be used to select people to move when a user is on Oracle and is using a non-English language. The Search page freezes when adding the persons returned from a people search. (Tri-252447)
Move Requests	The user may notice a flash-by of the Search page when a submitted request is clicked on the Landing page in IBM TRIRIGA Group Move. (Tri-251070)
Perceptive Applications	In the Group Move Perceptive application, the Where tab may take a bit longer to load due to the functional role entitlement data being retrieved. (Tri-263788)
Perceptive Applications	When logging into any of the TRIRIGA perceptive applications on an Android phone such as Workplace Services Portal, Service Request, Room Reservation or Move Request, if the login page has been displaced upward either by the user or by the virtual keyboard, the title banner of the subsequent pages may remain outside of the screen until the user swipes the page down, at which point the banner will be anchored. (Tri-263275)
UX Framework	For the triplat-geo component, the disable property to disable the detection of the location is currently not functional. (Tri-265405)
UX Framework	For the triplat-select-input, if the input text is too long, the X clear button will overlap the text, making it slightly difficult to see part of the text. (Tri-260502)
UX Framework	If you are logged in as a mirrored language user, i.e. Arabic, the triplat-scroll-container scroll arrows may show up incorrectly on the opposite side for Firefox (desktop), Safari (desktop, iOS), Edge (desktop), Chrome (iOS, Android) (Tri-264012)
UX Framework	The triplat-select-input may be confusing to users since it is an input field that is also a drop down, since there is no icon to indicate this. Click on the field to open the drop down. (Tri-265045)
Workflow	The workflow "triOrganization - Synchronous - Update Child Organizations" that updates the Organization Hierarchy is currently working as designed. As per the shipping Application, this workflow will check up to four Organization levels. The performance issues will be addressed in future release. (Tri-244650-IV89938)
Workplace Reservation Manager	When booking or removing a room from a reservation using the perceptive Room Reservation app in a language other than English, you may encounter "Room Added", "Room Removed", "Food Order cancelled" or "Reservation Saved" toast messages in English. (Tri-272097)

Area of Impact	Description
Workplace Services Applications	After one has changed the search criteria and performed available room searches multiple times to come up with a suitable room or rooms in the perceptive Room Reservation app, backtracking via the browser back button will put one into a new reservation page or the Workplace Services portal page. It will not redisplay the previous search criteria and search results. (Tri-273893)
Workplace Services Applications	If the user logs into the perceptive Service Request application directly without going through the Workplace Services Portal, sometimes when he creates a new service request for himself after he has created one for someone else, within the same session, the new For Me request may not automatically default to the location he used in his previous For Me request. In that case, user should re-select his location. (Tri-260513)
Workplace Services Applications	In perceptive applications such as Room Reservation, Service Request and Move Me, tapping the browser back button or the device back button such as the one on an Android phone or tablet may not bring you back to the immediate, preceding page. Instead you should use the "<" icon in the app, the Done button, the "X" icon, or the "Cancel" button most appropriate to your context at the time. In addition, the user may not be warned there are unsaved changes on the page such as food added to his room reservation when he taps the Home icon or the Sign-out icon. (Tri-273201)
Workplace Services Applications	In Room Reservation, if the user is only using the keyboard to navigate, you may not be able to tab within the room details, recurrence, room amenities, and exceptions pop-ups. (Tri-272128)
Workplace Services Applications	In Room Reservation, if you are using only the keyboard to navigate, the focus may shift to the subject field when selecting food items to add in a food order. (Tri-272703)
Workplace Services Applications	In Room Reservation, there is currently no restriction on the Start and End datetime pickers that restricts the user from selecting dates in the past for the search criteria. (Tri-274720)
Workplace Services Applications	In Room Reservation, using the browser or device back button may not bring you to the previous page. Use the buttons displayed in the application to navigate from page to page. (Tri-265375)
Workplace Services Applications	In Room Reservation, you can only make room selections for exceptions that are within the same building as the original room. (Tri-269915)
Workplace Services Applications	In Room Reservation, you may see the unsaved changes pop-up even if there were no changes made to the search criteria and hit the home or back button. (Tri-275555)
Workplace Services Applications	In the 10.5.3 version of the perceptive Move Me app, the drop-down list on the Floor field is not cleared when the Building, City and Campus fields are all cleared. However, once a value from the Building drop-down has been selected, the Floor will be refreshed with a valid drop-down list. (Tri-276144)

Area of Impact	Description
Workplace Services Applications	In the perceptive Room Reservation app, the Food Order name cannot be longer than 50 characters. Otherwise, it may be truncated or blanked out. (Tri-269919)
Workplace Services Applications	In the perceptive Room Reservation app, the icon for the location search does not maintain its size when the browser window width is small or on a tablet device. (Tri-269011)
Workplace Services Applications	In the perceptive Room Reservation app, weekly recurrences may display the recurrence text incorrectly if a weekday is not selected when the recurrence is saved. (Tri-270054)
Workplace Services Applications	In the Room Reservation perceptive app, some of the ">" arrows are mirrored incorrectly when a bi-directional language is used. They should be "<" arrows instead. (Tri-269338)
Workplace Services Applications	In the Security Manager, in the TRIRIGA Request Central group, when the model access permission for Models > triServiceRequest is set to Read and Update, a user cannot update existing service requests. (Tri-273439)
Workplace Services Applications	Reservation confirmation emails show certain text in blue which may cause users to believe they are clickable hyperlinks. (Tri-269679)
Workplace Services Applications	The Available column of the Availability chart in the Availability tab of a recurring reservation in the perceptive Room Reservation app is not mirrored correctly in a bi-directional locale. (Tri-269988)
Workplace Services Applications	The Available column of the Availability chart in the Availability tab of a recurring reservation in the perceptive Room Reservation app is sorted as characters instead of numbers. For example, the following result may be seen if the Available column sorted in ascending order -- 13 of 13 followed by 7 of 13, then 8 of 13, then 9 of 13. (Tri-270552)
Workplace Services Applications	Users with read permission to Models > triServiceRequest in the TRIRIGA Request Central group can see existing requests when signed in on /p/web/serviceRequest but cannot see existing requests when signed in on /p/web/workplaceServices. Also, users with read permission to Models > triReservationManager in the TRIRIGA Request Central - Reserve group can see existing reservations when signed in on /p/web/roomReservation but cannot see existing requests when signed in on /p/web/workplaceServices. (Tri-275098)
Workplace Services Applications	When a service request is raised for someone else, if the person who raises the request has a different language in his user profile from the person whom the request is for, and/or the resulting work task from the service request is completed by yet another person who also has a different language in his profile, regardless of whether the request is raised using the classic TRIRIGA app or the perceptive Service Request app, the notification e-mails sent upon request submission and request completion will most likely contain a mixture of different languages. (Tri-273685)

Area of Impact	Description
Workplace Services Applications	When clicking the browser back button from the perceptive Move Me new request page, if there is no existing move request, the Move Me list page may be displayed briefly with a message stating there is no request pending before the Workplace Services portal page is displayed. If there are existing move requests, an error dialog may appear briefly before the portal page is displayed. (Tri-269899)
Workplace Services Applications	When creating a new room reservation with food order or updating an existing reservation with food order via the perceptive Room Reservation app or the Workplace Services portal, if the user modifies the food order by adding more food items and/or adding additional food orders, the food item quantities in the food orders at times may not reflect what the user has just changed them to. Users are advised to check his food order details are correct after he has submitted or updated his room reservations (Tri-276812)
Workplace Services Applications	When reviewing a room reservation with multiple food orders and one or more equipment orders using the perceptive Room Reservation app, if the user reviews the equipment order after he closes the food order pop-ups with the "X" icon, he may get a contact-your-server-administrator error. Users are advised to use the Done button to close the pop-ups. (Tri-276855)
Workplace Services Applications	When used on a mobile phone in landscape mode, the perceptive Room Reservation app may display pop-ups with oversized characters. Portrait mode may be used as a work-around. (Tri-269922)
Workplace Services Applications	When using an Android tablet in portrait mode in some languages, the Reservation Summary page may not display the Subject label or the Meeting Space label in full. Please rotate to Landscape mode to see the full extent of them. (Tri-265539)
Workplace Services Applications	When using the perceptive Room Reservation app on an Android phone, when one drills down into the room details of an available room or a booked room and further drills down from there to the floor plan via Show Location, if one tries to go back to the room details from the floor plan using the device back button, it will instead bring one back to the available room or booked room page. One should instead use the Close or Previous or Done button to navigate back. (Tri-273208)

IBM TRIRIGA 10.5.3 Changes

The following changes to IBM TRIRIGA are in this release:

Area of Change	Description
Application	The Location - Navigation - GIS - Buildings, Structures, and Retail Locations - Project Manager Query was configured with an incorrect forward association string, that prevented capital project locations from displaying on a GIS Map. The Advanced tab, Geography Module, triCity Business Object association filter

Area of Change	Description
	had it's forward association string updated to 'Geography Contains' from 'Geography Belongs To'. (Tri-272678-IV97332)
Assets	Closing an asset record with the record close action 'X' no longer hides the Assigned To field. (Tri-25800-IV93399)
BIM	BIM now handles Space and Floor values for a Metric Building/Model. (Tri-260705-IV94517)
Bulk Security Utility	The Update Records action on the Grant Security Access form no longer creates a duplicate of groups and licenses on People and My Profile records if the groups and licenses that are selected are the same as the ones currently present on the People and My Profile records. The issue was resolved by modifying the workflow "Grant Security Access - MASSUPDATE". Adding new groups to People and My Profile records now works when the "Clear Existing Security?" check box is checked. (Tri-275027-IV97599)
Capital Projects	Fixed cost code values are now cleared when standard contract or prime contracts are retired. (Tri-263327-IV94704)
Capital Projects	When revising and re-issuing a completed Standard Contract the cost amount no longer becomes cumulative against the budget. (Tri-269581-IV96536)
Contract Cost Breakdown Items	The properties of triCostItem > triContractCostBreakDownItems business object were updated to set triConversionGroupLI for the conversion group, and triExchangeDT as the exchange date. (Tri-265571-IV95311)
Facility Assessment	Improved performance for the Recalc Component Renewals process in the Facility Assessment Analysis. In addition, made the process asynchronous so the user does not need to wait for the Component Renewals. The Facility Assessment Analysis record now closes when the Recalc Component Renewals action is selected, and the record also goes into a Processing status. The user can now see the status of the record in the Facility Assessment Analysis list view. Finally, the Recalc Component Renewals section action was moved to be a state action. (Tri-254569-IV94514)
Form Builder	The Change Order query section, which never had a defined query, is removed from the triContract form. (Tri-265187-IV94945)
Form Builder	The triAdministrator Tab on the triltem form will no longer throw a MID exception. (Tri-265491-IV94906)
Job Plan	The performance of creating a schedule for a Job Plan is significantly improved. The scheduled events are now created asynchronously, which allows the form to render without requiring the end user to wait for the scheduled events to be fully generated. (Tri-261551-IV94615)
Lease Accounting Real Estate Lease	A lease with a payment schedule that has no current period start date can now be activated. (Tri-276148)

Area of Change	Description
Lease Accounting Real Estate Lease	Approval history for retired reviewers (users) were incorrectly updated when a lease is revised and then re-issued for approval. The historical approval data will remain unchanged now, even when a past reviewer is retired. (Tri-266086-IV95493)
Lease Accounting Real Estate Lease	Corrected an issue where the Accounting Type for payment schedules were automatically set to Accounts Payable even after the user selected Accounts Receivable. (Tri-268238-IV96297)
Lease Accounting Real Estate Lease	Fixed the issue when capital leases start and end in the middle of a monthly/Quarterly/Semi-Annually/Annually payment period. The first and last period amortization in the FLI is now prorated properly. (Tri-267098-IV95963)
Lease Accounting Asset Lease Real Estate Lease	For ASC 842 Operating/Finance schedules, the Initial Liability Carryover Balance will be taken in account only when it's a new lease that starts on or after the look back period that is set in the Application Settings. (Tri-275246)
Lease Accounting Asset Lease Real Estate Lease	For both RE Lease and Asset Lease, ASC 840 and ASC 842 standards, if the implicit rate is known, the rate would be used instead of using incremental borrowing rate. When clicking on Calculate Lease Treatment, the value will be updated to the incremental borrowing rate in the Borrow Rate & % Growth Assumptions section. (Tri-268616)
Lease Accounting Asset Lease Real Estate Lease	For Operating/Finance Schedules (New Standard - 842), FLIs are now re-calculated from the modification date onward, not from the current calendar period. (Tri-273704)
Lease Accounting Real Estate Lease	<p>For the retail (4-4-5) calendar, the First Partial Amount for the Net Rent Payment in accounting schedules is now calculated based on predominant days of the month. If more than 50% of the days of the month fall within the period, then the full monthly amount will applied. For example: Fiscal Period = 02/28/2016 - 03/26/2016 for a total of 27 days in the period. Payment line item is for 03/01/2016 - 03/31/2016. So, the payment line item covers 26 days (3/1/2016 - 3/26/2016) in the fiscal period. It is more than 50% of days in the period, so the full month's amount is used for the first partial. (Tri-264084-IV94719)</p> <p>Note: Non-standard calendars are not supported in version 10.5.3. See the Known Limitations section above for more information.</p>
Lease Accounting Real Estate Lease	Irrespective of the Accounting Type defined on the lease, an OPEX/CAM payment short fall (Positive value in "s. Final Amount to Process (Due or Credit)") will now create a payment line item of Accounting Type = Accounts Payable (AP). If there is over payment (Negative value in "s. Final Amount to Process (Due or Credit)", the system now creates a payment line item of Accounting Type = Accounts Receivable (AR). (Tri-255634-IV93373).
Lease Accounting Asset Lease Real Estate Lease	Lease Rate Used (Calculated) field is now hidden in both FASB Treatment and IFRS Treatment sections on both RE Lease and Asset Lease. This is field is no longer used, either use Incremental Borrowing Rate or Implicit Rate if the rate is known. (Tri-273282)

Area of Change	Description
Lease Accounting Asset Lease Real Estate Lease	P & L Impact, Net Change P & L Expense, and Net Equity fields on Lease Term Fiscal Line Item form show the respective currency defined on the General tab of the lease, not US Dollars. (Tri-275074)
Lease Accounting Asset Lease Real Estate Lease	Review Assumptions functionality moved to lease revision Change in Assessment process. (Tri-267372-IV96534)
Lease Accounting Asset Lease Real Estate Lease	Starting Right Of Use Asset Value based on the Modification Effective Date is now calculated correctly when there is an amendment happening for an Operating lease. (Tri-274205-IV97319)
Lease Accounting Asset Lease Real Estate Lease	The Generate Payment Schedules process was slowed by multiple calls of the workflow "triGeneratePaySchedule - Synchronous - Calculate Payment Schedule Term Amounts" in a loop. Removed the workflow call from workflow "triGeneratePaySchedule - Synchronous - Create Payment Schedule From ScheduleTerms" and instead called the workflow outside of loop (above iterator) of workflow "triGeneratePaySchedule - Synchronous - Create Payment Schedule From ScheduleTerms". (Tri-257063-IV92958)
Lease Accounting Asset Lease Real Estate Lease	The Initial Carryover Balance was not being applied to new accounting schedules, if lease the lease was created on or after the look back period. Now initial carryover balance will be applied to Operating/Finance schedules. (Tri-268765-IV96316)
Lease Accounting Asset Lease Real Estate Lease	The Interest Amount base field was not populating on Lease Fiscal Line item, A fix was made to populate the field correctly. (Tri-275733)
Lease Accounting Asset Lease Real Estate Lease	The lease approving contact role changed from Contract Administrator to Lease Accountant on both the Real Estate Lease and Asset Lease. (Tri-269878)
Lease Accounting Asset Lease Real Estate Lease	The Lease Expiration (Intl) Option is now correct. Use the following patch helper workflows to populate the Residual Value Guarantee field on the Accounting tab of a Real Estate Lease or an Asset Lease: triPatchHelper - triCalculate - 10.5.3 - Real Estate Lease - Set Lease RVG and Create Fiscal Payment Summary triPatchHelper - triCalculate - 10.5.3 - Asset Lease - Set Lease RVG and Create Fiscal Payment Summary
Lease Accounting Real Estate Lease	The Must Exercise By Date on the Option was being incorrectly calculated due to an error in the formula. The correct formula should subtract Must Notify Within from the Effective Date and then subtract 1 more day. Formula is changed to: Must Exercise By = (Effective Date - Must Notify Within) - 86400000 to fix the issue. (Tri-256404-IV92935)

Area of Change	Description
Lease Accounting Real Estate Lease	The reverse association flag to improve performance for the triTaxRate - Display - Associated to Current Record query if removed. This query is used on the Payment Schedule, Generate Payment Schedule, and Payment Line Item forms. (Tri-257255)
Lease Accounting Asset Lease Real Estate Lease	The status of the lease will be in Active even when a lease is being reassessed/remeasured with periods between accounting start date and accounting end date that have been closed, earlier than today's date. (Tri-269068-IV96830)
Lease Accounting Asset Lease Real Estate Lease	When a Capital or Finance lease is modified, the new right-of-use asset balance is now calculated correctly. The amount of change in the liability balance is added to (or subtracted from) the prior period right-of-use asset balance immediately preceding the modification. (Tri-268889-IV96394)
Lease Accounting Asset Lease Real Estate Lease	When a Capital or Finance lease is modified, the new right-of-use asset balance is now calculated correctly. The amount of change in the liability balance is added to (or subtracted from) the prior period right-of-use asset balance immediately preceding the modification. (Tri-270833)
Lease Accounting Asset Lease Real Estate Lease	When a lease is impaired the following should happen in the system for ASC840 (Capital leases) or ASC842 (Operating/Finance leases): 1. The period in which the impairment occurs, the ending Asset Value of the Fiscal line item should be updated with new Fair Market Value. 2. The Gain/Loss calculation is : FMV - (Previous Asset Value - Depreciation). 3. Gain/Loss calculated for the period where the lease is impaired. 4. The Rent expense (Straight line expense) after impairment should be Interest Expense + Depreciation (Tri-257183-IV93003)
Lease Accounting Asset Lease Real Estate Lease	When an Asset Lease or Real Estate Lease is copied, the currency of the lease is now correctly set in the Schedule Summary section on Accounting and Local Report tabs. (Tri-271360)
Lease Accounting Asset Lease Real Estate Lease	When an index adjustment applies to quarterly fiscal line items, the adjustment amount now only applies to the periods that have payments. (Tri-262494-IV93003)
Lease Accounting Asset Lease Real Estate Lease	When doing the Review Assumptions, a user selects the Review Type of Initial Adoption of New Standard and the look back period is applied to the future accounting schedule, the capital and finance lease schedules are now the same. (Tri-269588-IV96465)
Lease Accounting Asset Lease Real Estate Lease	When generating a payment schedule using 360 Day Basis, the partial first and partial last now calculate by assuming that each month has 30 days, instead of using the actual month day. The fix is done for monthly, quarterly, semi-annually and annually frequencies. (Tri-269435-IV96498)
Lease Accounting Asset Lease Real Estate Lease	When modifying a lease with a residual value guarantee by extending it, the original residual value guarantee amount is now cleared from the FLI that first included it. (Tri-276157)

Area of Change	Description
Lease Accounting Real Estate Lease	When the lease is activated the Net Rent Payment are no longer zero when using retail (4-4-5/4.5.4) calendars. (Tri-262631-IV94651) Note: Non-standard calendars are not supported in version 10.5.3. See the Known Limitations section above for more information.
Lease Accounting Real Estate Lease	When the Standard Calendar is checked in the Fiscal Period and the SL is calculated Actual Day Basis, both Straight-Line Rent and Operating schedules are now correctly calculating the Rent Expense (SL) using Actual Day Basis on the lease. (Tri-267064-IV95556)
Lease Accounting Asset Lease Real Estate Lease	When there is an amendment on a lease, for the current standard (ASC 840), schedules now re-calculate the rent expense based on the new Accounting Start Date (start date of the modification period). No catch-up rent expense is captured in the current calendar period. (Tri-273940)
Locations	The Add and Delete actions on the Program Utilization Manager query are not needed because the Program Utilization record created through manager query cannot be associated to Space record. The issue has been resolved by removing the Add and Delete actions from Space Utilization Manager Query. Also fixed the "Space Utilization - Draft" Related Report query to show up on all other Space Utilization Related Reports. (Tri-251032-IV90857)
Locations	The Location hierarchy query displays all business objects and forms in the Location module. When the Name value on a location record was changed by a non-US English-language user, the Property and Building columns on the Location hierarchy query did not display the localized values correctly. This was because these fields were not marked as Localizable on most of the business objects in the Location module. With this update, the triParentPropertyTX, triParentBuildingTX, and triParentFloorTX fields in all business objects in the Location module are now marked as Localizable. (Tri-252631-IV91564)
Maintenance	Tasks are now displayed on the Location record based on the Task Grouping Rule set on Service Plan. When the Task Grouping Rule is set as "Create Task For Each Asset/Location" and the "Primary Location for Service Assignment Search" field on Job Plan is selected, then the tasks are displayed on this Location record. And if the "Primary Location for Service Assignment Search" is not selected on Job Plan, then the tasks are displayed on the Location from Location Subtab of Job Plan. (Tri-274871-IV97698)
Maintenance	The PM Schedules created using the Add action under Shadowed By section are not displayed on the Shadowed By section of PM Schedule. The issue has been resolved by fixing the association filter on the query. (Tri-271318-IV97092)
Maintenance	The Reading Based PM Schedule functionality has been enhanced. The "Reset on Action" boolean field has been hidden on PM Schedule Form. This field is always checked for Reading Based PM Schedule and applicable only for Reset Total field. A new list field "Reading Type" has been added to PM Reading Class Classification BO/Form. And the value for this field is selected as "Reset" or "Continuous" on shipping PM Reading Class records. The same field is added to PM Reading Location/Asset Form and it is populated when the Reading Class is selected. And the values for Cumulative Total and Reset Total fields on PM

Area of Change	Description
	Reading Log are calculated based on the Reading Type value on the PM Reading Location/Asset. Also, "Air Flow" PM Reading Class Classification record is no longer used and has been removed from shipping application. This record will not be removed through OM Package. It has to be manually removed from customer environments if it is not being used anywhere. (Tri-269417-IV97374)
Maintenance	The Reading Based PM Schedules were not working as expected when the Action Occurrence was set to One Time Only. The issue has been resolved by modifying the workflow for One Time Only selection. Work tasks are now created only one time when the condition is met. (Tri-270034-IV96647)
Maintenance	The user should not be able to add duplicate records using Find action under Assets and Locations section on Job Plan. The issue has been resolved by modifying the workflow to validate if the Asset or Location record selected through Find action already exists in the Job Plan and display an Attention Message to the user if the record already exists. (Tri-274865-IV97648)
Maintenance	When a PM schedule is retired, there will be no work task created even when the PM reading log goes over the threshold reading. (Tri-269179-IV96523)
Metric Reports	Metric reports now handle the exception and prompt user to fix the report if the groupBy columns are not matching. For this APAR defect, user need to modify the metric report "triCapitalProjectFact - GUI Metric - Current Program Filter - Change Order to Budget" and match the default groupBy column same as in Primary Report. (Tri-259883-IV93632)
Move Requests	In creating a new move request in IBM TRIRIGA Group Move, if a space is assigned to a person or an asset but is later unassigned before the request is submitted, previously a misleading dialogue box "select a required move line item, such as a person or an asset" would pop up upon the space unassignment. The dialogue box is now removed. (Tri-255337)
Move Requests	In IBM TRIRIGA Group Move, previously the "Show only unassigned" counter at the bottom of the Move Line Item panel on the left was not updated correctly after making multiple assignments and unassignments to the same space using the List view. The problem is now corrected. (Tri-253406)
Move Requests	The tooltips for the floor plan icon and the list view icon in the search page are no longer partially obstructed in IBM TRIRIGA Group Move when you perform a search on location. (Tri-251517)
Notifications	Notification Rules for added to a Notification Requirement will now show the proper fields when the Person or Role option is selected. (Tri-258496-IV93296)
People	When the My Profile record referenced in a Task is deactivated through the People record, the My Profile does not get deleted but is disassociated from People record. This will cause an issue later when the My Profile record is reactivated through People record. The issue has been resolved by modifying the workflow to not disassociate the My Profile from People record unless the My Profile record is deleted. (Tri-252753-IV92172)

Area of Change	Description
Procurement	The Add action on the pop-up form for the Add Person section action on the Contacts section of the purchase order form is now visible. The issue was resolved by creating a new pop-up query and new related reports with the Add action on them. Note: The behavior of the Add action did not change. It has the same behavior as in prior releases. Since the Add action is a system action, an Admin user has access to the Add action. The access to the Add action for all other users depends on the access set for the form in the security group. For example, if the user clicks the Add action, the pop-up form loads only if the user has access to it; otherwise, the user sees the security group no access warning page. (Tri-251101-IV91329)
Projects	Application now correctly applies task calendar hour restrictions to tasks and task templates when using the Apply Template and Apply Record functionality with Capital Projects. (Tri-272844-IV97243)
Projects	On Capital Project, the "Revised Funds" funds extended formula field was displaying an incorrect value on the Fund Transfer popup form. The amount is correct on the initial transfer but the amount on subsequent transfers was doubled. This is fixed by correcting an invalid mapping in the workflow that prepopulates the form's initial values. (Tri-257557-IV93170)
Projects	The Standard Contract record can be retired even if it has pending Standard Contract Change Orders or Contract Invoices associated to it. The issue has been resolved by displaying an attention message to the user that the Standard Contract cannot be retired if it has Standard Contract Change Orders or Contract Invoices that are not in Draft state. Also, the Retire and Delete actions have been removed from Standard Contract Change Order Form and Manager queries so user will not be able to retire the Standard Contract Change Order. (Tri-269873-IV96787)
Real Estate Environmental Sustainability	Carbon Log and Carbon Processing Log was not being displayed in their respective sections for Locations after the Carbon Footprint Calculator was processed. The association filters have been adjusted to display the correct results now. Also, modified a workflow to form the reverse association from Location to Carbon Processing Log records. (Tri-255387)
Real Estate Environmental Sustainability	When the Carbon Footprint Calculator was processed multiple times for a building, the Scope 2 Summary section was being cleared due to inadvertent association removals. Workflow have been corrected to ensure the correct association bindings remain. (Tri-236301-IV92362)
Real Estate Project Template	Fixed issue related to RE Project Template that is set to set to Calculate from End does not take effect to an RE Project record. Added modify task into workflow "triREProject - Synchronous - Apply Template " to map triProjectCalcFromLI value from template. (Tri-256834-IV92890)
Reporting	Corrected labels for Rentable Area (8) and Usable Area (9) on "Space Rollup Summary Property", "Space Rollup Summary Building" and "Space Rollup Summary Floor" BIRT reports. These labels are identical to Rentable Area and Usable Area fields on Property, Building and Floor Forms but display different values. The Rentable Area (8) and Usable Area (9) on BIRT Reports display the sum of Actual Area for Rentable or Usable on Space so the labels on BIRT

Area of Change	Description
	Reports have been changed to "Actual Rentable Area (8)", and "Actual Usable Area (9)". (Tri-265729-IV97701)
Reporting	<p>Previous to 10.5.2 release, the association filters of the 3 queries below were set to have Reverse association. In 10.5.2 release, the reverse association was removed for these queries, but the association string remained the same. To fix the issue, the association string of the queries are now changed from "Has Contact" to "Is Contact For".</p> <p>triContactRole - Filter - Associated to current user as Project Manager -> Reverse Association triContactRole - Filter - Associated to current user as VP or Director Projects or Project Manager triContactRole - Filter - Associated to current user as Project Manager or Project Team Member</p> <p>(Tri-269472)</p>
Reporting	Several section actions were referencing queries that no longer exist. The URL for these actions are now defaulted to the system action. (Tri-250995)
Requests	The Group Move and Move Me Perceptive applications have been re-vulcanized with only one set of UX metadata records. It no longer has 2 sets of metadata records. The vulcanized file is now stored within the main view record with the development view files. (Tri-261418)
Reserve	The Reserve Work Tasks were being created even when the Setup and Breakdown times are set to 0 on Space. The issue has been resolved by modifying the workflow that creates the Reserve Work Task record to only create the Reserve Work Task record when the Setup and Breakdown times are greater than 0. (Tri-269859-IV96991)
Reserve	<p>The Start and End Date Times on Reserve Work Task records created for Setup and Breakdown times on Space are populating the values from SAM. The issue has been resolved to calculate the date values based on Setup and Breakdown times set on space. A new list value has been added to "Task Assignment Dates Rule" list field on Service Plan record which is used for service plan records created for reserve functionality. Also, the list values "Available Mid-Reservation", "Available for Entire Reservation" for "Reserve Service Type" list field on Reserve Work Task Template have been removed since our current structure do not support these two values for per reservation use case.</p> <p>Note for upgrading customers: The list values have been removed from shipping application. These values will not be removed through OM Package. So, you must manually remove these values from your environment if they are not being used anywhere. (Tri-269857-IV97201)</p>
Reserve	Vehicle Reservations are creating Reserve Work Task using the Request Class type as "Asset Reservation". The issue has been resolved to use the Request Class type as "Vehicle Reservation" by making changes to the workflows that create Reserve Work Task for Vehicle Reservation. (Tri-269565-IV96522)

Area of Change	Description
Security	Adding users and groups to a security group has been redesigned to use queries instead of a combined smart section. The usability is greatly improved and gives administrators the ability to filter and search for users. (Tri-263659)
Security	Before this change, if a user's profile had geography and organization set, and the TRIRIGA Password Change group did not have geography and organization set, a forced password change failed. Now, during a forced password change, the user's geography and organization are temporarily replaced with the geography and organization in the TRIRIGA Password Change group. (Tri-255766-IV92421)
Security	The Organization - Synchronous - Update Intermediate Locators and Dependent Records workflow now updates the dependent records orgName field with its orgName value. This change prevents a user that has access to a parent Organization without Organization Scope access from losing access to the parent records dependent records. (Tri-266143-IV95414)
Space Assessment	The Space Assessment and Space Management Perceptive applications have been re-vulcanized with only one set of UX metadata records. It no longer has two sets of metadata records. The vulcanized file is now stored within the main view record with the development view files. (Tri-261422)
Specification	The Association Type selected for Specifications query section on PM Reading Specification form is not correct. The issue has been resolved by selecting the correct association type as "Reading For". (Tri-269085-IV96458)
Tasks	The Recurrence Pattern Type on Inventory Count Work Task Form creates Event and Scheduled Event records but there are actually no workflows or other processes to create the Task records. The issue has been resolved by hiding the Recurrence section with Recurrence Pattern Type field on Inventory Count Work Task and Inventory Count Work Task Template Forms. (Tri-275275-IV97997)
UX Framework	A patch helper has been added to correct any discrepancies between the file path, file name and exposed name for certain web view files. (Tri-259702)
UX Space Management	When a user logs in to the Space Management app as an admin user with a license that has no access to create a space assessment, the user no longer sees a "New Assessment" button. (Tri-251069)
Watson	The Watson Analytics Connector application has been re-vulcanized with only one set of UX metadata records. It no longer has 2 sets of metadata records. The vulcanized file is now stored within the main view record with the development view files. (Tri-263845)
Workflow	In the workflow "triPurchaseOrder - Synchronous - Food Order - Create Purchase Line Items", the "triCancellationWakeUp" trigger action task now references the correct action (triCancellationWakeUp). (Tri-264447-IV95185)

Area of Change	Description
Workflow	Status Dimension data now populates correctly for task resource metric tables by using an updated T_triTaskResourceFact table - triTaskResourceFact BO. (Tri-275143-IV97814)
Workplace Reservation Manager	Location reservations will no longer have a distorted end date when the All Day check box was selected and duration between the start and end dates was separated by an interval of exactly a month or a few months. (Tri-264093)
Workplace Reservation Manager	Reserve Work Tasks created through the Reserve application will now go through the Service Assignment Matrix for assignment of Responsible Organization. The work tasks will have the Planned Start and Planned End from the reservation. Note that importing this fix will affect settings in the Asset Reservation request class. (Tri-264204-IV94976)
Workplace Reservation Manager	TEMP: Duplicate move request cards with the same ID may show up more than once under the My Requests section of the Workplace Services Portal. They are actually the same request and the duplicates should be ignored. This can happen if your building service plans are configured to create more than one work task per move request. (Tri-269560)

IBM TRIRIGA 10.5.3 Patch Helper Workflows

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

The following patch helper workflows are in this release:

Name	Description
triPatchHelper - triCalculate - 10.5.3 - Change Lease Approval Requirement to Lease Accountant	Changes approval requirement for lease from Lease Administrator to Lease Accountant.
triPatchHelper - triCalculate - 10.5.3 - Application Data - App Version	Creates the application version.
triPatchHelper - triCalculate - 10.5.3 - Application Settings Defaults	Sets application wide default values.
triPatchHelper - triCalculate - 10.5.3 - Application Settings Defaults	Sets existing records with a new blank Interest Method field that appears in the Application Settings, Lease Accounting Settings tab to the default value of Simple Interest.
triPatchHelper - triCalculate - 10.5.3 - Asset Lease - Set Lease RVG and Create Fiscal Payment Summary and triPatchHelper - triCalculate - 10.5.3 - Real Estate Lease - Set Lease RVG and Create Fiscal Payment Summary	These workflows complete the following actions, for Asset Lease and for Real Estate Lease respectively: <ol style="list-style-type: none"> 1. Copies RVG value from Option if available 2. If lease is Draft then, sets <i>triChangeTypeLI</i> = NULL 3. If lease is Active then, makes actions visible/invisible 4. If no FPS records are created then creates the FPS records on lease
triPatchHelper - triCalculate - 10.5.3 - Associate Location to Carbon Processing Logs	This workflow creates a reverse association from Location to existing carbon processing log records. (Tri-255387)
triPatchHelper - triCalculate - 10.5.3 - Service Request - Retro Request Class Category	Updates all service request records associated request class record's parent request class category.

IBM TRIRIGA Application Platform 3.5.3

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

Important Information

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

Area of Impact	Description
Currency Unit of Measure Values	For a currency field, when the Data Modeler or the Form Builder do not have a custom display mask, and the display mask is changed for the currency value at Tools > Administration > Unit of Measure (UOM) > Values, the change does not take effect for users that have their profile default currency set to that value until the next time they log out and log back in. (Tri-265321-IV95295)
Gantt	The Gantt Import From MS Project functionality will consider the Project Plan Start date when importing and scheduling an imported project. This is a change from 3.5.2 which had a regression which caused the scheduling not to work properly. In 3.5.3, the scheduling now works. If you do not want the Project Plan Start date to influence the scheduling on the imported project, make sure to clear Project Plan Start date and save the project prior to importing. (Tri-274735)
Installation	TRIRIGA now supports installations on Windows Server 2016. (Tri-264234)
Perceptive Applications	<p>Vulcanization of UX applications is simplified by consolidating both development and vulcanized view files into one view metadata record. Two new fields have been added to the view metadata record, 'Development Filename' and 'Production Filename'. Additionally, there is now a mechanism to switch between the views during runtime. This option is found on the Development Mode page, which is available if the hidden property 'WEB_DEV_CONFIG_ENABLED=true' is set in the TRIRIGAWEB.properties file. A new hidden property called UX_DEV_MODE can be set in the TRIRIGAWEB.properties file to set the system-wide mode for the environment. By default, the UX_DEV_MODE value is false (i.e. the system will use the production view file if this is not set; if set to true, the system will use the development view files). This can be overwritten from the user Development Mode page.</p> <p>If you have or will customize the delivered UX apps, you will need to work with the HTML or view files in the metadata records in the Web View Designer, where the values of the following fields have no "-dev" or "Dev": ID, Name or Exposed Name field. For example: triSpaceAssessmentDev vs triSpaceAssessment, you should work with the files in triSpaceAssessment web view metadata record.</p>

Area of Impact	Description
	<p>You can find more information on Vulcanization on the IBM TRIRIGA wiki. (Tri-273173)</p>
<p>Perceptive Applications</p>	<p>With the new Vulcanization process in this version, the UX apps were updated with the consolidated development and vulcanized (or production) files into one metadata record. After upgrading to 10.5.3, existing development metadata records are not removed but will no longer be usable with any of the UX applications that came with the OM package. You can leave these development metadata records as is or you can optionally clean them up AFTER importing the 10.5.3 OM package by following the removal steps below, make sure to back up your database before doing the steps.</p> <p>Steps in cleaning up the development metadata records after upgrading to 10.5.3 OM (these will also be added in the Wiki above):</p> <p>1) Remove Model and View development metadata records: - go to Tools > UX Designers > Model and View Designer - open the form for each record and click on Delete sub-action under the More action: a) triGroupMoveDev b) triMoveMeDev c) triSpaceAssessmentDev d) triSpaceManagementDev e) triWADatasetsDev</p> <p>2) Remove Web View development metadata records: WARNING: DO NOT delete from the action in the record form, instead DELETE from the manager query of the Web View Designer portal - go to Tools > UX Designers > Web View Designer - select the following records in the Web View Designer portal manager query: - triMoveRequest-GroupMoveDev - triMoveRequest-MoveMeDev - triSpaceAssessmentDev - triSpaceManagementDev - triWADatasetsDev - Click on the Delete action from the portal</p> <p>3) Remove Application development metadata records: - go to Tools > UX Designer > Application Designer - select the following records from the manager query of the Application Designer portal: - triGroupMoveDev - triMoveMeDev - triSpaceAssessmentDev - triSpaceManagementDev - triWADatasetsDev - Click on the Delete action from the portal</p> <p>(Tri-273173)</p>

Area of Impact	Description
Reserve Security	It should be noted that a couple of issues have been resolved around Reserve security in an environment where Organization and Geography security is used. Prior to 3.5.3 the Organization and Geography on the System Reserve security group was used to determine Organization/Geography access, this is wrong. Organization, Geography, and Project security is determined by the users Security Groups instead of the System Reserve Security group. (Tri-265621-IV97700; Tri-275900)

Known Limitations

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

Area of Impact	Description
Currency Unit of Measure	<p>If you sum a currency field, and it is not the base currency field that other fields convert into the base currency, then the summation of the column will just add the numbers up, without regard to the currency, and the currency UOM at the end of the report will be just the last UOM that happened to occur on the last record before the total row.</p> <p>Used currencies should also have a currency symbol set in the UOM value record when used in sum reports. When a currency symbol is not available, the summed report will repeat the last rows value as the currency symbol.</p> <p>(Tri-266984-IV95499)</p>
Gantt	The Gantt scheduler date/time picker may add the incorrect time if the TRIRIGA user's timezone is different than that client machine's time zone. The time can be fixed by updating the time directly in the Gantt scheduler. (Tri-274864)
Graphics	Export graphic now support exporting graphics that includes text that contains any equals sign. However, text elements that include both equals and double quotes will get the double quotes stripped out for technical reasons. (Tri-269072-IV96616)
Reporting	When reverting to a previous revision of a query via clicking the Apply Revision link on the query definition's Revisions tab, certain query properties from the previous revision may not appear right away in the query definition until you clear Query Cache from the TRIRIGA Admin Console, and re-enter the query definition. (Tri-272851)

IBM TRIRIGA Application Platform 3.5.3 Changes

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

Area of Change	Description
Accessibility	Compliance issues fixed for my reports page.
Accessibility	Fixed issues related to 508-compliance on login page. (Tri-265309-IV95219)
Administrator Console	A new test in the admin console will warn you if the current application server is low on temp space. By default, a warning will be displayed if the available temp space is below 500 MB. If you wish to be notified at a different threshold, you can add a property to TRIRIGAWEB.properties called FREE_SPACE_THRESHOLD and set it to a whole number representing in MB the amount of free space to display the warning. This property is hidden by default.
Administrator Console	A security vulnerability in the Database Query tool has been addressed. (Tri-270669)
Administrator Console	Added the ability in the TRIRIGA Admin Console to view the latest AWR Report from the two most recent snapshots in Oracle Databases. This information is generated in text format and it can be shared with Oracle Support if issues arise with system performance. The report is included in the Must Gather Tool that you can run from the TRIRIGA Admin Console. (Tri-258585)
Administrator Console	Cleanup agent and Crystal queue agent on the Performance Monitor tab of the Administration Console were renamed to Platform Maintenance Scheduler and Report Queue Agent, respectively. (Tri-267094)
Administrator Console	Performance monitors now work external from the TRIRIGA Administrator console. (Tri-265084-IV94974)
Administrator Console	Resolved an issue in the Administrator Console where rolling a log category that is configured to log to its own file rolled the server.log no matter the log category. For instance, rolling the Performance Timings category, which logs to the performance.log, now correctly rolls the performance.log instead of the server.log. If you roll a category for which a log file is not configured, it still rolls the server.log as expected. (Tri-257072)
Administrator Console	Revised the Session Expiration Warning message to make it clearer to the user what their next action is, or what would happen if they didn't act before the timeout happened. (Tri-266195)

Area of Change	Description
Administrator Console	<p>The AGENTS_RUNNING_COUNT, OBJECT_PUBLISH_AGENT_RUNNING, SCHEDULER_AGENT_RUNNING, and all other agent related monitors in the Performance Monitor will now correctly report the agent status and count.</p> <p>The calls to the KEYWORD_PARSER_AGENT_RUNNING and WAREHOUSE_AGENT_RUNNING monitors have been removed from the Performance Monitor as they were deprecated in a previous release. (Tri-266416-IV95382)</p>
Administrator Console	The BIRT Performance sub-category under Platform Logging is now exclusively under the Performance category. It was previously under the BIRT category as well. (Tri-261913)
Administrator Console	<p>The description on the user list on workflow agent manager has been updated to the following:</p> <p>RESTRICTED This Agent will only processes events for the users listed below. UNRESTRICTED Workflows will only run for these users on this server. The user's workflows may also be processed on other servers too. (Tri-255302)</p>
Administrator Console	The links to edit old style licenses and an unused TRIRIGAWEBLOGIC properties file have been removed from the admin console. (Tri-260952-IV93959)
Administrator Console	<p>The Must Gather tool in the TRIRIGA Admin Console has been enhanced to gather more information to help with problem diagnosis. For instance, Platform Audit queries can be included.</p> <p>The Must Gather tool should be used when working with IBM Support for PMRs that require items such as the server.log, performance.log, etc. The tool gathers key system information and compresses it into a bundle. You can then send the zip file bundle to the defined ECUREP email or another email address that you specify. (Tri-249749)</p>
Administrator Console	Updated the Performance related category descriptions to no longer have redundant "performance" in it, in the Admin Console. (Tri-269962)
Administrator Console	When removing the assignment of a workflow agent, the administration console will no longer open the agent manager page in a new window. (Tri-273253)
Administrator Console	When submitting the Must Gather Tool to a support PMR, the Submit Must Gather button will change once pressed to let you know the process has started to collect the information and send it to the PMR via email. (Tri-267482)

Area of Change	Description
Administrator Console	<p>Workflow Event Restrictions in the Workflow Agent Manager tab of the Admin Console now operates dynamically. That is, no server startup for any servers connected to the same database is required when users are added or deleted to the user restriction list in Workflow Agent Manager. The 3 modes operation perform dynamically now:</p> <p>No users in the restriction user list - Agent will pick up any available events.</p> <p>User in the User List (NON-EXCLUSIVE) - Agent keeps other Agents from processing events for the specified user(s) while it processes events for the specified user(s) and other users (any available events).</p> <p>Restrict User List (EXCLUSIVE) - Agent keeps other Agents from processing event for the specified user(s) while it processes events only for the specified user(s). (Tri-247726-IV90171)</p>
Administrator Console - Database Query Tool	<p>An issue has been resolved with the Admin Console Database Query Tool for DB2 where an error appears for results less than the defined row limit. (Tri-256029)</p>
Administrator Console - Object Migration	<p>Added a new category for Object Migration in the Admin Console's Platform Logging. (Tri-273261)</p>
API doc pages	<p>Updated TRIRIGA so that the unsupported API doc pages <code>http://<address>:<port>/api/doc</code> will not render. (Tri 259435)</p>
Application Server	<p>An issue was resolved where a user session unexpectedly ended on a slow network because the form was submitted twice. (Tri-263988-IV94802).</p>
Application Server	<p>Bad association strings which appear in the application after 10.5.2 OM import are now removed.</p> <p>Important Note: To determine if the association type name is junk or not, the system will look for:</p> <ul style="list-style-type: none"> - Strings with no spaces - String lengths greater than 45 - String values starting with either '-' or '-' <p>Make sure that you have not created any association type values which match any of these patterns.</p>
Application Server	<p>Images now render in queries when the Application server is a WebLogic Server. (Tri-265725-IV95147)</p>
Application Server	<p>When the browser requests the default favicon.ico, the favicon configured in the userfiles/icons is now sent to the browser, instead of being 404 not found. (Tri-259867-IV94732)</p>
Application Upgrade	<p>An OutofMemory Java heap space error will no longer occur during a platform upgrade if the max memory on a server is set too low. Previously the error occurred during the Root Object Label cleanup portion of the upgrade. (Tri-253506)</p>

Area of Change	Description
Autocomplete	Images within locator field Autocomplete queries now renders the image instead of a path string. (Tri-258899-IV93315)
Availability	Availability section now supports single select setting in the metadata. If single select, only one resource can be selected at a time. (Tri-230810)
Availability	The Availability section, a JavaScript based DHTML component, will now render properly for a BIDI/RTL user. (Tri-247598)
Availability	The DHTML/JavaScript TreeGrid package has been upgraded to 12.1.18. (Tri-252688)
Availability	The Next and Previous occurrence buttons in the Availability toolbar will now disable if there are no more occurrences in that direction. (Tri-249814)
Availability/Gantt	Due to an upgrade to TreeGrid, an underlying JavaScript based DHTML component package used for Gantt and Availability, the translation files for Gantt and Availability are now deployed in userFiles/Translations/TreeGrid/3.5.3. (Tri-253269)
BIM Integrator	IBM TRIRIGA Connector for BIM now supports Revit 2018.
BIRT	BIRT reports no longer display a technical stack trace to the end user. (Tri-267492-IV96009)
BIRT	The export options for a BIRT report are now in alphabetical order. (Tri-268948-IV96379)
Business Objects	When creating a new association between 2 business objects, association strings are now required field. (Tri-250577)
CAD Integrator	Added support for AutoCAD 2018 and AutoCAD Architecture 2018. Removed support for AutoCAD 2015 and AutoCAD Architecture 2015. (Tri-264238)
CAD Integrator	Reduce the time it takes for the drawing reprocessing upgrade by checking if there are any drawings that need to be reprocessed or not during server startup. (Tri-255707)
CAD Integrator	The Smart Attach Upload process did not complete correctly when using NTLM authentication on an SSO environment when uploading more than 10 spaces. Due to authentication requirements, upload will no longer batch uploads when using NTLM authentication, but will complete correctly. (Tri-267044)
CAD Integrator	Updated the look and feel of the CI About dialog and the CI installer splash screen. (Tri-265865)
CAD Integrator	XRef layers' display state and color are correctly retained when publishing to the Graphics Section. (Tri-268780-IV96408)

Area of Change	Description
Capital Projects	When a non-US English-language user changes the name of a capital project template, saves the template, and then copies the template, the name of the copied template now reflects the name change that was made in the source. (Tri-261518-IV94038)
Charting	The charting framework is upgraded to AnyChart 7.12. (Tri-183792)
Data Connect	Resolved an Integration Object File to DC issue involving the Validate checkbox. When the Validate checkbox was selected, the validation process would fail if the Business Object being validated had the same name as another Business Object in a different Module. (Tri-267455-IV96036)
Data Loader	A data loader issue was resolved where Excel spreadsheets failed to generate. The issue occurred in the Data Load Set definition, when you selected the Create Data Load Spreadsheet tab and then selected Create. (Tri-263447-IV94641)
Data Modeler	An issue in Data Modeler that caused the Save Publish and Copy buttons to become unresponsive after a field had been deleted has been resolved. (Tri-250125)
Data Modeler	Selecting the Where Used action on a field no longer causes an exception. (Tri-250584)
Data Modeler	User will be able to open Data Modeler Locator mapping window using Firefox browser. (Tri-273677-IV97418)
Data Modeler - Url Field	<p>URL Fields can now handle a maximum of 2083 chars. 2083 is the least common denominator in length of characters for supported browsers (IE has 2083 max length of URL)</p> <p>New URL fields will be created with a max length of 2083 chars.</p> <p>Existing URL Field lengths will remain untouched until the BO is republished. (Tri-263729-IV94622)</p>
Document Manager	A user who belongs to an authorized group can now publish a record that is created by a different user in the same authorized group. (Tri-242641-IV91179)
Document Manager	Checking out a document with an asterisk in the name no longer causes an error. (Tri-252678)
Documentation	Users can apply SetVarcharColsToNumeric SQL scripts irrespective of platform build. (Tri-266354-IV96450).
Form Builder	Form builders query lookup has been updated to return all queries within the module. (Tri-266615-IV95403)

Area of Change	Description
Form Builder	Handled the exception that was being displayed. Instead of displaying the MID error now a message more meaningful for the user is being displayed (Tri-245044)
Form Builder	In the Form Builder, multi-tab sections no longer throw an exception. (Tri-263709)
Form Builder	In the form builder, session expiration no longer occurs when you select the query pop-up link for a form action. (Tri-266010)
Form Builder	Resolved an issue that caused Microsoft SQL Server databases to lock when the user copied a form. (Tri-262804)
Form Builder	The property pane in form builder now shows the top attribute by default when loaded in Safari. (Tri-255033)
Form Builder	When a Theme record has been deleted, it caused the Form Builder to show an error for graphic sections that used that theme. Now it will not display an error, instead the theme field will be blank. (Tri-256006-IV92474)
Form Builder	When an older Business Object that has a field that has a null UOM and the form will not render, the form builder will now put a message in the server.log letting the application developer know exactly which field has the issue and in which BO. The Application developer can then revise the Business Object, correct and place a non-null/non-blank value in the UOM, then publish the BO again to resolve the issue. If the intent of the field is to actually have a blank UOM, the application developer should first choose any UOM in the system, then publish the BO, then revise the BO, select the Blank value and then publish to resolve the issue. (Tri267177-IV95651)
Future Workflow Agent	When future workflow events have not been processed for a period of time, the workflow agent could spawn too many threads, and cause the server to crash due to either out of database connections, out of threads, or out of memory issues. A throttle mechanism has been put in place so that if too many workflow events are placed into the queue, and the agent picks them all up at the same time, then the agent will rate limit the number of events to process until the batch is cleared. (Tri-252316)
Gantt	Added the ability to delete newly created task rows immediately. (Tri-246418)
Gantt	An issue in the Gantt scheduler was resolved where the TRIRIGA user and application server time zones were not similar. (Tri-274874)
Gantt	Changes in Gantt section which change fields on parent record will prompt user to save the changes if they have not saved the form when closing the record. (Tri-252030)

Area of Change	Description
Gantt	Custom task containing <code>com.tririga.gantt.server.workflow.RetrieveTasksInCriticalPath</code> custom task now correctly retrieves critical path tasks. However, this will still only find critical path tasks based on <code>GANTT_STRICT_MODE=TRUE</code> . This will not be enabled in the application, but there will be additional documentation will be available on developerWorks covering how to manually configure the custom task in the application if using Gantt strict mode. (Tri-235055)
Gantt	Gantt Date Time picker now renders the correct time in the Gantt Scheduler when Daylight Savings was the opposite of current time. (Tri-275361)
Gantt	Gantt datetime picker correctly sets value if the user datetime format is other than <code>MM/dd/yyyy HH:mm:ss</code> . User timezone offset will depend upon where the user is accessing the application. Datetime picker will adjust the date based on location where user is login. (Tri-263335-IV94518)
Gantt	Gantt Scheduler now honors business logic from tasks to keep actual start and planned start dates in sync unless the actual start date is cleared. (Tri-257107-IV93260)
Gantt	Manually edited dates in the Gantt now apply the user's date time preference. Date time formats that specify the display of months in text now use the month number when you directly edit date time cells. (Tri-272121-IV97369)
Gantt	Opening and changing a record via TreeGrid will now immediately account for changes in the calendar. (Tri-231113)
Gantt	Task pop-up window no longer open behind the Gantt Project form in IE. (Tri-262489-IV94250)
Gantt	The default Gantt sort ordering and the sort ordering immediately after importing an <code>.mpp</code> project file now correctly order by the sequence id based on the Gantt section query configuration. (Tri-272861-IV97245)
Gantt	Update Gantt section to no longer render dependencies linked to a deleted task after saving it in TreeGrid. (Tri-249841)
Gantt	Updated Gantt section summary tasks to be independently moveable, and summary task dependency and constraint violations can now be fixed automatically by TreeGrid. (Tri-260454)
Gantt	User will see a confirmation dialog box if the dates are modified outside of Gantt section and there are changes made in the Gantt section but not saved yet. (Tri-235347)
Gantt	When the server is in a different time zone than the user and Daylight Savings Time is in effect, calculated working hours are no longer off an hour when you use the Gantt scheduler with the date/time picker. (Tri-275106)

Area of Change	Description
Gantt	You no longer can set the percentage complete by using Ctrl+click, which does not work correctly on all browsers on all operating systems. You can set the percentage complete by using the task's right-click menu in the Gantt. (Tri-272115-IV97411)
GIS	The amount of the whitespace displayed at the bottom of GIS maps has been significantly reduced. (Tri262635-IV94360)
GIS	The zoom for GIS maps containing one pin has will no longer zoom in fully. (Tri-262671-IV94359)
Globalization	A three-level deep localized field value now shows the correct localized value. (Tri-256632)
Globalization	An exception no longer occurs when a non-US English-language user enters a negative currency value. (Tri-264005-IV95426)
Globalization	Language info for lang attributes were added correctly. (Tri-267923)
Globalization	Resolved an issue that caused existing translations to not be updated when a user uploaded language packs. (Tri-259516)
Globalization	When a non-US English-language user attempts to access a page that is not available due to session time-out or unauthorized access, the message that is shown is now fully translated. (Tri-253960-IV92210)
Globalization	When the Help record is not in US English, it no longer fails when opened from the portal. (Tri-259263-IV93471)
Graphics	Added a checkbox to the Graphic Query Report Options to, when checked, enable associated sum fields of graphic report with a group by that the same group by value for the same space. For example, suppose you configure to sum a field on an associated area allocation of a space, where we group by that allocation's associated organization's parent. If a space has multiple associated allocations with associated organizations that are different, but have the same parent, then this situation applies. Legacy behavior is to only sum the field on the first allocation for a space (for each unique group by). With the checkbox checked, the sum of the fields on all allocations will be added; this behavior is similar to how group by works. (Tri-264869-IV95650)
Graphics	Fixed a potential issue involving non-English language translations for "Zoom to Days", "Zoom to Weeks", or "Zoom to Months" that include special characters, such as an apostrophe. A user using such language may encounter refresh errors when using the Availability section. (Tri-270051)
Graphics	Graphics Section reports now correctly render hatch images as expected. (Tri270651-IV97252)
Hierarchies	Records with hidden states are now correctly hidden in hierarchy trees no matter what the hierarchy level. (Tri-254246-IV91760)

Area of Change	Description
Hierarchies	The internal datasource HashMap cache for widgets like the Location and Geo tree has been updated. (Tri-261914)
IBM TRIRIGA Connector for BIM	When launching the Revit Installer with a 64-bit JVM, it will now correctly launch instead of exiting with a "Windows error 2" message. Launching with only a 32-bit JVM installed is not supported and the installer will still show an error panel. (Tri-270644)
Installation	A stack trace error is no longer thrown in GuiFieldMandatoryUpgrade class in certain environments. (Tri-252880)
Installation	<p>For new installations, the SSO_REQUEST_ATTRIBUTE_NAME is set to headername vs the previous default sm_user. This change enables you to make the choice to populate the http header with the correct value for your environment, since this property is used for more than just SiteMinder.</p> <p>Example 1: For use with SiteMinder, set SSO_REQUEST_ATTRIBUTE_NAME=sm_user</p> <p>Example 2: For use with SAML SSO and Websphere or Liberty, set SSO_REQUEST_ATTRIBUTE_NAME=\$WSRU</p> <p>This property is case sensitive. Use the requestTest.jsp page to check the correct parameter name. When not in use, it must be set to a non-blank value. (Tri-269802).</p>
Installation	If a class loader had a resource file with missing binary field content, loading that class loader, e.g. Esri in GIS section, will now warn about which resource file is missing data rather than throw an exception.
Installation	Image files will upload to the database when TRIRIGA is being run on a Windows environment. (Tri-259244)
Installation	Images will now consistently import when the Application server starts on Windows server. (Tri-261393)
Installation	The data table (T_TR_SU_QUE_RES_TR_SU_QUE) has been removed from the database. The data in this table was migrated to a different table, and the underlying object had been removed. (Tri258043-IV93263)
Installation	<p>The default encryption level for new/clean installations (not Upgrades) is now set at SHA-512. You can update the encryption level of your own database to SHA-512 by logging into the TRIRIGA Admin Console, navigate to System Manager, and type in SHA-512.</p> <p>You must restart app application and process servers attached to the database once the change has been made. If you do not restart, you will not be able to login until the server has been restarted. (Tri-260890)</p>

Area of Change	Description
Installation	The only supported method of configuring WebSphere or WebLogic is to allow the TRIRIGA Application Platform installer to run the setup tasks. (Tri-255996)
Installation	Updated the TRIRIGA installer to deploy and support WebSphere Liberty Profile version 17.0.0.2. (Tri-274918)
Installation	When configuring TDI, the ojdbc6.jar must be used. TDI does not support the ojdbc7 driver. (Tri-252919)
Integration Object	<p>An Integration Object issue is resolved where retrieving query results via Integration Object's external URL functionality was not returning localized JSON results.</p> <p>Two new f parameter values, f=json-loc and f=pjson-loc, are introduced, which can be added to the URL to return localized JSON results.</p> <p>The localized values now appear in the field name value pairs with the name of the field appended with _DISPLAY for each record in the JSON results, that is, "name_DISPLAY":"Some Localized Value". (Tri-252868-IV92257)</p>
Integration Object	<p>An Integration Object issue is resolved where retrieving query results via Integration Object's external URL functionality was not returning localized XML results. Two new f parameter values, f=xml-loc and f=pxml-loc, have been introduced, which can be added to the URL to return localized XML results. The localized values will appear in the displayValue child element of the column element, for each record in the XML results, i.e.</p> <p><displayValue><![CDATA[Some Localized Value]]></displayValue>.</p> <p>(Tri-259078)</p>
Integration Object	<p>For outbound Integration Object records with the "File" scheme, the Query For Outbound section now includes a field that is labeled "Localized?". When the Localized check box is selected, the results of the specified query are localized in the language that is specified in the user's profile. If the file export type is "Flat", all field values in the file are localized. If the file export type is "JSON", the localized value is contained in the JSON element and the record field name is appended with "_DISPLAY". For example, "name_DISPLAY":"Some Localized Value". If the file export type is "XML", the localized value is contained in the record field child XMO element named "displayValue" for each record element that is returned in the xml. For example, <displayValue><![CDATA[Some Localized Value]]></displayValue>.</p> <p>(Tri-265085-IV94977)</p>
Integration Object	<p>The Integration Object File Outbound scheme now correctly encodes column headers for UTF-8 for files that are exported with the flat file export type.</p> <p>(Tri-267374)</p>

Area of Change	Description
Label Manager	<p>In the Object Label Manager, when you open a label and use the lookup icon on the Generated From field or the Merged From field, the resulting display no longer shows unnecessary actions.</p> <p>In the Object Label Manager, when you Add a new label, the Object Label Information form no longer shows the unneeded Labeled Objects tab.</p> <p>ADD TO KNOWN LIMITATION: The first time you open an Object Label in the Object Label Manager, the "Labeled Objects" tab and the "In Progress Objects" tab do not appear. You must hit Save button for the tabs to appear. (Defect 265511 will handle this) (Tri-263088)</p>
Label Manager	<p>Resolved an issue in Object Label Manager, where opening a form from a link under the Labeled Objects tab would allow a user to change the name of the opened form to a name that already existed for a form in the opened form's module. (Tri-273438-IV9419)</p>
Legacy Availability sections	<p>Legacy Availability sections now load correctly on browsers that support applets. (Tri-254018)</p>
Legacy Availability Sections	<p>Legacy Availability sections now load resource data properly. Assigning a resource to a task no longer spins indefinitely. This fix might require clearing of both browser and client-side Java cache. (Tri-254019-IV95429)</p>
Lists	<p>When creating a new system-list, the System flag now saves correctly on create. (Tri-269063)</p>
Logging	<p>Added additional logging so that a MID error thrown when looking for a display mask can be tracked back easier. If an error such as: User: [myuser] performed an action that caused an invalid number of display mask information to be sent in cstMyFieldNu`,#,#,#[MID-3489826836] As a TRIRIGA Administrator, you can then contact "myuser" and see what they were doing at the time, and then you can look in the Data Modeler and Form Builder, find the field, and then update the mask so it is correct. (Tri-253491)</p>
Logging	<p>Log statements indicating Object Comparison Start and Finish are now printed to the log file only for DEBUG level logging. (Tri-261467)</p>
Logging	<p>Removed some legacy performance log configuration examples from the log4j file. (Tri-265174)</p>
Logging	<p>Some log messages dealing with misconfigured meta-data have been suppressed (to DEBUG level). The platform handles in a predictable way the metadata misconfiguration, and the end users had no indication that there was a problem. (Tri-259278)</p>
Mail	<p>The incoming mail agent now properly processes attachments when mail clients put the attachment inline. (Tri-251587-IV95312)</p>

Area of Change	Description
Metric Reports	Charts will display results when filtered to a single record set. (Tri-265987-IV95291)
Metric Reports	In Metric Reports the year labels on the chart axis and tooltips are now formatted correctly, for charts configured to be grouped by Calendar year. (Tri-241931)
Metric Reports	Metric charts will have padding for the left title value. (Tri-241612)
Metric Reports	Metric reports no longer distort stacked bar graph. (Tri-240750)
Metric Reports	Metric reports no longer show 0 in the tool tip title when the y-axis label is not set. For stacked bar chart type reports, the tooltip title will always be hidden. Furthermore, stacked bar chart type reports will now show the series name. Line charts and line char type reports now show x axis values correctly. (Tri-241589)
Metric Reports	Pie chart labels in metric reports are no longer cut off when the displayed report is larger than 280px by 280px. Pie chart labels are hidden when the pie chart is below 280px by 280px. Users should rely on pie chart tool-tips for the chart details when labels are hidden. (Tri-271463-IV97310)
Metric Reports	Resolved an Internet Explorer issue where charts in smaller portal sections were getting cut off. Also resolved an issue on all browsers, where the bottom title on charts in smaller portal sections was not displaying correctly. (Tri-261890-IV94392)
Metric Reports	The AnyChart logo is now correctly displayed at the bottom of all metric chart reports. (Tri-265326)
Metric Reports	Threshold reports using a score aggregation will now the correct threshold colors on the chart. (Tri-270896-IV970088)
Metric Reports	Tool tips will no longer persist when selecting from a drop down that overlays data. (Tri-249249-IV90488)
Metric Reports	Tooltips will show all data when chart type reports have values on the x-axis that star with a number but are not really numbers, such as "2016-Q2." (Tri-265336)
Metric Reports	You can now view metric reports and scorecards in a portal when you do not have access to Report Manager. (Tri-264982-IV94990)
My Calendar	In My Calendar, under the list view, events will now export with the ".xlsx" extension, as opposed to the ".csv" extension. The excel export will now use the same logic as the excel export found in internal Report Manager reports. (Tri-252421-IV91297)
Navigation Builder	Navigation Collections correctly save for MS SQL Server databases, no longer hanging the TRIRIGA Application Server to hang. (Tri-253336)

Area of Change	Description
Navigation Item	Resolved a Navigation Item copy issue, where the newly created Navigation Item from the copy was incorrectly retaining the object label from the Navigation Item being copied. The newly created Navigation Item from the copy now is correctly given the In Progress object label. (Tri-272852)
Navigation Items	The following nav items have been removed from the Global Menu and deleted: Master Detail - GIS Configuration Master Detail - GIS Layer Config Master Detail - GIS Service (Tri-255285)
Notifications	When the Platform sends an outgoing mail, the tag is no longer stripped in the email notification. This will allow messages to be sent with images. (Tri-269616-IV96454)
Object Migration	Fixed a defect where adding objects to or removing objects from an OM package clears changes in the properties panel in OM export. (Tri-249681)
Object Migration - Comparison Report	Object Migration Comparison Report now works if background comparison is selected. Before, the comparison process would continuously run and never be completed. (Tri-252881-IV91613)
Object Migration - Export Issue	Resolved an Object Migration export issue, where forms did not export successfully if they contained a query action url, where the &reportName parameter did not exist on the url. (Tri-257539-IV92996)
Object Migration - Export OM	The ObjectMigration.log file will no longer show errors if the platform attempts to automatically add duplicate required dependent objects of other objects already contained in the package at time of export. (Tri-257991-IV94168)
Object Migration - UX Metadata	Resolved an Object Migration import issue involving a UX Metadata component such as a Model being a dependent child to multiple UX Applications on a target environment. The issue was that the child UX Metadata component would be deleted on the target environment if an Object Migration package containing at least one but not all the UX Applications in question and none having a child dependency to the UX Metadata Component in question, was imported into the target environment. (Tri-242603)
Object Versioning	Added a fix to the Platform Object Label manager upgrade process, to ensure that Object Label Manager components are the latest version with every App Server startup. (Tri-269852)

Area of Change	Description
Object Versioning	<p>Object Compare for Forms no longer shows differences for the following field properties because the properties cannot be changed by the user via Form Builder:</p> <ul style="list-style-type: none"> Size Label Font Label Color Label Weight Label Size <p>Object Compare for Forms no longer shows differences for the following state transition properties because the properties have no effect on the runtime display or function of a form.</p> <ul style="list-style-type: none"> Sequence State Sequence Next State Sequence <p>(Tri-266109)</p>
OSLC	OSLC performance log is now set to DEBUG level, so that OSLC logging will not show in the server log by default. (Tri-252876)
OSLC	Resolved an issue where if a record being updated by OSLC contains any BO state transition actions that have the labels "Ok", "Apply", "OK", or "APPLY", the OSLC update will always fail, even if an unrelated action is chosen. These special actions bypass normal security when viewed in a record, but OSLC still requires normal security configuration to call them directly. (Tri-275835)
Outgoing Email	The list of allowable HTML tags in email notifications is now configurable in the TRIRIGAWEB.properties. (Tri-271444)
Platform Logging	Business Connect sessions are no longer added to the SESSION_HISTORY table when the web property SESSION_HISTORY_TRACKING is set to WEB_USER. (Tri-256934-IV92858)
Platform Maintenance Scheduler	Completed Scheduled Events older than the value specified in the property CLEANUP_AGENT_SCHEDULED_EVENT_COMPLETE_DAYS will now be marked deleted when the Platform Maintenance Scheduler is run. (Tri-260271-IV93757)
Portals	All portal section action buttons, which are expected to open popup windows, now only take one click to open the popup window. (Tri-248592-IV91224)
Portals	An issue with whitespace being intermittently added to the bottom forms that are displayed in a portal context has been resolved. (Tri-262338-IV94310)

Area of Change	Description
Portals	Fixed a problem with object comparison where the same color value stored in different formats (i.e. white vs. #FFFFFF) was being incorrectly flagged as a difference in the comparison results (Tri-266131)
Portals	Object comparison now compares hex color values correctly for portal sections. (Tri-264735)
Portals	Portal section properties now properly honors the 'Show Query Header' parameter. (Tri-255039)
Portals	Portal sections will now display an error message when a user attempts to view a summary report with no defined Group By field. (Tri-255041)
Portals	Record bookmark breadcrumbs will no longer display the name of the bookmark at the time it was added. The bookmark breadcrumb will now show the published name of the record. (Tri-254658)
Portals	Request Central icons now launch the application when a user does not have portal manager access. (Tri-265547)
Portals	Summary reports are now viewable in portal sections. An issue that caused data to be misaligned when a query ran in the portal view was also resolved. (Tri-253882; Tri-255040-IV91661)
Portals	The active portal section expanded/collapsed state will now be saved when a user signs out. (Tri263991-IV94676)
Portals	The new "About" link shows the build number, platform version, and application version of your TRIRIGA environment. The link is located next to the Welcome link. (Tri-253259)
Portals	When editing a Portal Section, the Compare Revisions and Compare Object actions now detect the portal section name as a difference which makes the Compare behavior consistent with that of other labeled object types. (Tri-264865)
Projects	Import of Project files (mpp) tasks no longer come in with dependencies with an invalid lag time of 95.4733 days when the lag time should be 0 days. (Tri-269043-IV97206)
Projects	In a task's calendar, duration now calculates correctly as a fix was made to have start date calculations take into consideration working hours, if the end date is changed. (Tri-228797-IV91193)
Projects	In the Gantt scheduler, a task entered with an invalid planned end date that is selected with the date/time picker, now saves correctly with hours within the available calendar hours. (Tri-275272)

Area of Change	Description
Projects	Resolved a calculate start date issue on task records and Gantt charts, where if the TRIRIGA Application Server time zone is different than the TRIRIGA user time zone, the start date would be pushed back to the last hour on the day prior to the expected start day if the end date was set to be the last hour of a given day, and the duration was set 1 or more exact days. (Tri-275355)
Projects	Revising a project record from the Schedule tab no longer stops the user session and signs out the user. (Tri-274679)
Projects	Start date and end date calculations are no longer off by an hour when the duration crosses Daylight Saving Time, and the server time zone does not have Daylight Saving Time, and the user time zone does have Daylight Saving Time. (Tri-275105)
Projects	Task calculations around working hours, duration, and start and end times are now correctly calculating with partial hours.
Projects	The task record and the Gantt correctly calculate actual working hours and actual working days when you enter an actual end date value. (Tri-275276)
Projects	When user performs Revise action on project record from "Schedule" tab the record no longer kills the session. (Tri-273801-IV97614)
Record Runtime	A User is now able to select a record (selection of radio button) from a Related Report part of Action Type-Query of a Form Section (Tri-267502-IV97023)
Record Runtime	AutoComplete functionality on the Locator Fields will now show correct result from the associated business objects fields. AutoComplete result window will show the right header label if the column names have the same name. (Tri-253163-IV92252)
Record Runtime	Changed the style of a read-only check box so that it looks less like a selectable check box. (Tri-263042)
Record Runtime	Clicking a form field action when the record is in a read only state will no longer cause the record to lose focus. (Tri-275265-IV97719)
Record Runtime	Currency values now format correctly when you enter a value and tab out of the field. (Tri-260355-IV94003)
Record Runtime	Displaying a record within a portal section will no longer display duplicate scroll bars. (Tri-268665-IV96356).
Record Runtime	Graphic sections and Availability sections that are linked to them now sync properly with selection and deselection. (Tri-240095; Tri-251215)
Record Runtime	Locator and section find actions will now open their queries so they are visible to the user when the form is rendered inline. (Tri-266246-IV95427)

Area of Change	Description
Record Runtime	Multiple popup panes, one inside the other, will fit correctly in the popup pane. (Tri-256766-IV92876)
Record Runtime	Number field validation of "Allow Decimal" and "Do not allow negative value" will now allow inputs between 0-1 with or without a leading zero (.5 vs 0.5). (Tri-258900-IV93331)
Record Runtime	Resolved an issue for certain hierarchy records where the path field was not being correctly updated when correcting name conflict errors. (Tri-274207-IV97468)
Record Runtime	Text area fields with only spaces and/or carriage return will no longer be considered valid if the field is required. (Tri-26883-IV96283)
Record Runtime	The correct value for triModifiedSY and triCreatedSY fields will be displayed in the email notification message. (Tri-261875-IV96646)
Record Runtime	The Some browsers do not allow the closing of Windows in certain cases. When this occurs, a message will be displayed to the user letting them know they have to close the Window manually. It will not be closed automatically. (Tri-268604-IV96296)
Record Runtime	TRIRIGA improved how the exception is processed when temporary data is committed on a business object with auditing. (Tri-262829-IV94364)
Record Runtime	When an OnChange workflow is triggered by a locator field update, the workflow now properly retrieves referenced data that is used in modify metadata tasks. (Tri-267086-IV95502)
Record Runtime	When invalid data is contained in a reference field, such as System Geography, the platform now displays the field as blank because the referenced record does not exist. (Tri-269082-IV96374)
Record Runtime	When you have read-only access to multi-tab sections, you can now navigate between the sections. (Tri-267501-IV95718)
Report Manager	The "Where Used" tab in Reports will no longer thrown an exception if the report has single quote (') in the name. (Tri-265818-IV95184)

Area of Change	Description
Reporting	<p>A new custom task has been developed, that allows for dynamically attaching report to notification emails. It currently supports the report types Report, Query, and External.</p> <p>To use the this custom task add the following into the Class Name field of a CustomTask workflow task.</p> <p>com.tririga.platform.util.customtasks.DynamicFileAttachCustomTask\$ProcessNotificationQueryAttach</p> <p>To utilize this task, you must pass a parameter called triDynamicFileAttachHelpers. It can contain one or more triDynamicFileAttachHelper records. The business Object triDynamicFileAttachHelper lives in the System module. It contains the fields triQueryModuleNameTX, triQueryBoNameTX, triQueryNameTX, triQueryIdNU, and triFileAttachmentNameTX.</p> <p>Map the triDynamicFileAttachHelper record to either have a triQueryIDNU value to represent the query id of the report to attach, or enter the appropriate values in the triQueryModuleNameTX, triQueryBoNameTX, triQueryNameTX fields for the custom task to look up the query id of the report to attach. The value mapped to the triFileAttachmentNameTX field, is the name you want give to the attachment file.</p> <p>The target record of the CustomTask workflow task should be a notification record.</p>
Reporting	<p>A report query against multiple business objects reads the metadata from the base business object. For datetime values to work correctly, the Relative property on the field on the base business object must match the other business objects in the same module. (Tri-234348-IV93276)</p>
Reporting	<p>Action buttons in group by queries now honor the TRIRIGAWEB.properties file setting for SYSTEM_ACTION_STYLE. (Tri-259817-IV93585)</p>
Reporting	<p>Added a new property called CHART_EXPORT_SERVER to TRIRIGAWEB.properties. This is used to specify the AnyChart Export Sever to use for handling the conversion of a chart to a JPG, PDF, or PNG, when "Save as JPG", "Save as PDF", or "Save as PNG" is selected from the chart. If this property is not set, export.anychart.com will be used. See the following documentation for details on setting up an AnyChart Export Server: http://docs.anychart.com/7.12.0/Common_Settings/Server-side_Rendering (Note, the step detailed in the "How to Set the Path to Export Server" section of the above mentioned documentation, is accomplished by setting the property below.)</p> <p>Example: http://localhost:2000</p> <p>(Tri-249298-IV91270)</p>

Area of Change	Description
Reporting	Blank values for date, date and time, duration, time, and system read only fields now correctly resolve blank or null values on a query export to Excel. (Tri-266679-IV95367)
Reporting	Currency symbols now display correctly when data is exported to an Excel spreadsheet. (Tri-252391-IV91823)
Reporting	Date fields exported to Excel now show the correct result when Excel is configured with a different time zone than the time zone of the TRIRIGA application server. (Tri-257982-IV93085)
Reporting	Dates in editable queries now format correctly. (Tri-257895-IV93086)
Reporting	Filtering on editable query will no longer make the url big enough to break the specified limit for URLs on IE. (Tri-269212-IV96587)
Reporting	For US English-language users, reports in Report Manager are now sorted on the Title column when the database is DB2. (Tri-267507)
Reporting	Horizontal bar charts will no longer cut the axis title if the axis is date time. (Tri-241933)
Reporting	Image fields now support additional file types when being displayed in a query. (Tri262660)
Reporting	In a query filter column for an In or s NotIn operator, when you enter a filter value that does not include single quotation marks, you no longer see alert messages. (Tri-275249-IV97692)
Reporting	In editable queries, where text field changes which were too long, they needed to be truncated, but were not being saved. Now, text fields in editable queries will be saved properly after being truncated. (Tri-252392-IV91442)
Reporting	Locator Fields within editable queries will no longer result in the user's session expiring. (Tri-256986)
Reporting	Object Compare for Query Columns no longer shows differences for Data Type value because this is an internal value that cannot be changed by the user via the Report Manager. (Tri-266128)
Reporting	On a group by report, the de-Associate action no longer throws any exception after you apply a filter to a query. (Tri-265119-IV95094)
Reporting	Records with classification fields display the changed value of a classification record when the publish value changes. Any report that includes the revised classification field also displays the changed value. But any user filter or system filter still uses the old value of the classification record. On change of any classification record publish name, you can have an asynchronous workflow update all of the referencing records where the classification field is used. (Tri-252047-IV91502)

Area of Change	Description
Reporting	Resolved a formatting issue that caused some user permission lookups to fail in WebLogic. (Tri-253366-IV91534)
Reporting	Resolved a query export to Excel issue, where each carriage return in an exported text field value was appearing in the Excel cell value as two new lines. The fix ensures that Excel cell values display each carriage return in a text field value as a single new line. (Tri-269678-IV96649)
Reporting	Resolved a query issue, where the WhereUsed tab was showing results for partially matched query ids in form find action URLs. (Tri-263044-IV94679)
Reporting	Resolved an issue that caused the Report Manager to be inaccessible for users that had read-only permissions to My Reports. (Tri-263317)
Reporting	Resolved an issue where data was not showing for metric tabular queries, if the first column of the tabular query was a numeric value, but not an actual record id. Also resolved with this fix is an issue where drill through links were incorrectly showing up in the tabular results if the first column was a numeric value, but not an actual record id. (Tri-252789-IV91559)
Reporting	Summary report display the correct time zone for date fields if the time zone set for the TRIRIGA user running the report is different than the TRIRIGA AppServer's time zone. (Tri-258862)
Reporting	The business object list in the Advanced tab of the report wizard is now sorted alphabetically. (Tri-261240-IV94169)
Reporting	The deprecated property REPORT_HEADER_COLUMN in TRIRIGAWEB.properties file has been removed since it has not been in use since the 2.7 Platform release. (Tri-269002-IV96326)
Reporting	The IBS_SPEC table is no longer queried multiple times when classifications were included on reports. Classifications are considered meta-data and the values will now be cached for a default of 24 hours. (Tri-259592-IV93507)
Reporting	The new formatting for exporting reports to Excel in XLSX format now handles blank/null data as it did before with the XLS format. (Tri-255400-IV92427)
Reporting	The show more filters no longer minimize when you apply a filter. (Tri-265609-IV95120)
Reporting	UOM values used in Queries/Reports are now read from cache. Before, they would be queried from the database, leading to a slight performance hit. (Tri-259353-IV93408)
Reporting	When you export a report to Excel, special characters that are in uppercase now stay in uppercase. (Tri-264973-IV94910)
Reporting	Your session no longer expires when you refresh a group by query. (Tri-265662)

Area of Change	Description
Reserve	Forms no longer disappear when the user clicks the clear button on a date field while using Microsoft Edge. (Tri-263282-IV96057)
Runtime	Image files will now correctly back up from the file system and read from the database when uploaded from a TRIRIGA application server running on Windows or Linux. (Tri-260577)
Security	A cross site scripting vulnerability(XSS) has been resolved. (Tri-270751-IV96977)
Security	A Firefox only issue was resolved where the user session would time out when refreshing the hierarchy tree after the user created a new record when the new record pop-up tab was in the same window pane. (Tri-262439-IV94284)
Security	A privilege escalation issue in report manager has been resolved. (Tri-270499-IV96845)
Security	A privilege escalation vulnerability has been fixed. (Tri-261369-IV94030; Tri-262076; 262470)
Security	A security vulnerability that would allow a user to perform actions they may not have access to, has been resolved. (Tri-270267-IV96796)
Security	Added a message to the Security Manager to indicate that the user needs to select a model to edit or view permissions for that model. (Tri-250341)
Security	After you remove a group from a user's profile record, the Members tab in the group record is updated to delete the user. The deletion might take some time to complete. (Tri-263316-IV94693)
Security	An issue that could cause a false positive to be written to the XSS logs has been fixed. (Tri-273452)
Security	Authentication logging has been enhanced to log authentication request data as well as session data. (Tri-273388)
Security	<p>CVEID: CVE-2016-9737</p> <p>DESCRIPTION: IBM TRIRIGA is vulnerable to cross-site scripting. This vulnerability allows users to embed arbitrary JavaScript code in the Web UI thus altering the intended functionality potentially leading to credentials disclosure within a trusted session.</p> <p>CVSS Base Score: 5.4</p> <p>CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/119782 for the current score</p> <p>CVSS Environmental Score*: Undefined</p> <p>CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:R/S:C/C:L/I:L/A:N)</p> <p>(Tri-252878)</p>

Area of Change	Description
Security	CVEID: CVE-2017-1153 DESCRIPTION: IBM TRIRIGA Report Manager contains a vulnerability that could allow an authenticated user to execute actions that they do not have access to. CVSS Base Score: 8.8 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/122349 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H) (Tri-260315-IV93766).
Security	Files can no longer be uploaded to Document Manager by passing the client-side file validation. (Tri-273271-IV97281)
Security	Fixed a security hole where not specifying security access for a reports tab still gives user the access to that reports tab. (Tri-260918)
Security	In the Admin Console, TRIRIGA administrators may log out other administrators using Users Manager. (Tri-256950)
Security	In WebSphere, changes to the access permissions in a group no longer fail. (Tri-254800)
Security	Java applets and BIRT plug-in .jar files are now signed with an updated Code Signing Certificate that expires in July 2020. (Tri-268372)
Security	Reduced the number of calls to the database for non-admin users when checking security by adding a new cache. (Tri-260686-IV94020)
Security	Reporting security has been enhanced so that: <ol style="list-style-type: none"> 1. Users who have no security group in their profile will not be able to execute any report external or internal. 2. Users that are not in at least one security group that of the report template of an external report (not the backing query) will not be able to run that report. Note: only exception to this is if there is NO security defined on the external report template. In that case the report will be accessible to all users who have at least 1 security group. (Tri-270767-IV96906)
Security	Resolved a Group revision comparison issue, where the internal SQL assisting in the compare of the Group's Model Permission's may be invalid. (Tri-255705)

Area of Change	Description
Security	Resolved an issue that might cause a user's permissions to be reduced to read-only after viewing a read-only project record. A previous workaround of clearing the security cache to reset the permissions level is no longer necessary. (Tri-263979-IV94670)
Security	Resolved an Object Migration import issue, where Groups were failing to import if the import package contained Groups Model Permissions for a UX Model, where a dependency to the UX Model's Data Source, such as a query, was not already defined on the target environment. (Tri-264515)
Security	Session will no longer be terminated if the user interacts with a hierarchical query before the query has finished loading. (Tri-272096-IV97203)
Security	Sessions will no longer be terminated if a user interacts with an editable query before the query had finished loading. (Tri-273458-IV97185)
Security	Switching project context will not occur if the user does not have access to the project. (Tri-260620-IV93811)
Security	<p>The following licenses support advanced lease accounting:</p> <ul style="list-style-type: none"> IBM TRIRIGA Real Estate Manager IBM TRIRIGA Workplace Performance Management Real Estate IBM TRIRIGA Integrated Workplace Manager IBM TRIRIGA Workplace Performance Management Enterprise IBM Facilities and Real Estate Management on Cloud Approvals and Reporting IBM Facilities and Real Estate Management on Cloud Enterprise IBM Facilities and Real Estate Management on Cloud Enterprise Concurrent IBM Facilities and Real Estate Management on Cloud Occasional Enterprise User <p>(Tri-268707)</p>
Security	<p>TITLE: IBM TRIRIGA Application Platform Information Disclosure (CVE-2017-1374)</p> <p>Summary: IBM TRIRIGA Application Platform is vulnerable to an information disclosure attack.</p> <p>Vulnerability Details</p> <p>CVEID: CVE-2017-1374DESCRIPTION: Sensitive data can be exposed in the IBM TRIRIGA Application platform that can lead to an attacker gaining unauthorized access to the system.CVSS Base Score: 6.5 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/126867 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:N/S:U/C:H/I:N/A:N)</p> <p>(Tri-270586-IV96900)</p>

Area of Change	Description
Security	User without permission to delete a record is unable to delete a record. (Tri-260450-IV93762)
Security	When applying geography or organization security, a group with root level \Organizations and a geography set at a low level like \Geography\North America\USA\Nevada\Las Vegas, no longer applies an organization-level security check on queries. The same is true for groups unrestricted at the geography level but set at a low level of organization. The security check is applied on a geography and/or organizations basis based on the root level security that is set up for the geography and/or organization. (Tri-262959-IV94361)
Tool Icons	The icons have been updated for all administration tools and utilities found on the Tools landing page. (Tri-263570)
Upgrade	Resolved an upgrade issue where EsriJS upgrade errors were occurring on initial AppServer startup after upgrading to IBM TRIRIGA Application Platform 3.5.2. (Tri-255382-IV92495)
Upgrade	Zero Byte files in the TRIRIGA userfiles folder will not be uploaded to the database, and a warning will be printed to the log file with the exact file that had the issue. (Tri-255035)
UX Framework	A new behavior called TriLazyLoadingBehavior allows view file resources to be lazy loaded during application runtime. It is compatible with both development mode and production mode, where the files are vulcanized. (Tri-260323)
UX Framework	A new mixin called --triplat-select-input-margin-bottom-when-opened has been added to the TRIPLAT-SELECT-INPUT UX element to complement scroll-element-into-view when the component is used on mobile devices. Refer to the TRIPLAT-SELECT-INPUT documentation page for additional details. (Tri-261688)
UX Framework	A new operator called "starts with" is now available to be used in the triplat-query-filter component. (Tri-245285)
UX Framework	A 'no-initial-route' property has been added to triplat-route-selector which prevents a route to be initially selected and rendered when there is no route marked as the default-route. (Tri-251593)
UX Framework	A triblock-tab or triblock-side-nav-item is auto-selected when its target triplat-route page is activated or navigated from loading the page directly via a URL in the browser or by programmatically calling 'navigate' to the triplat-route. Developers no longer need to manually set the value of the 'selected' attribute of the triblock-tabs or triblock-side-nav elements. (Tri-255049)

Area of Change	Description
UX Framework	An IMAGE data type is added to the data source fields section in the UX Model Designer. It will now allow the user to specify the correct data type for IMAGE fields. Data source fields using the IMAGE data type are never localized. For applications that are still using the STRING data type for image fields, they must check the "Disable Localized Value" checkbox. (Tri-260625)
UX Framework	Clicking on the label of triplat-select-input, date-picker, datetime-picker, duration no longer triggers focus on another element. (Tri-259706)
UX Framework	Fixed an issue on the TRIPLAT-IMAGE UX component that causes the placeholder icon to not be shown if the src property is initially null. (Tri-256003)
UX Framework	For UX applications that use iron-list, this fixes the issue where lazy loading of data would cause the scroller to reset to the first element. (Tri-250944)
UX Framework	For UX applications that use the triplat-drag-drop component, the drag-and-drop functionality is fixed to work for users whose language is mirrored, which is referred to as right-to-left (or abbreviated RTL). (Tri-252063)
UX Framework	For UX applications, make an AJAX call to this URL to keep the session active <code>http://<your-tririga-server>:<port>/<contextpath>/SessionExpiration?action=update</code> . This will update the last access time and keeps the session alive. (Tri-269793)
UX Framework	Having multiple triblock-table components on a single page will now behave properly and not incorrectly share column templates. (Tri-255303)
UX Framework	If you attempt to log in to a UX application that you do not have access to, when you click to go back to the sign-in page, you are redirected to your UX log-in page instead of to the classic TRIRIGA log-in page. (Tri-266139)
UX Framework	Published BIM drawings will now correctly have selectable spaces in a UX application's graphics section. (Tri-262410-IV95324)
UX Framework	The alternate/custom login configuration for the UX Applications will now show the defined alternate login view if the login view was created by a user with Organization and/or Geography set. (Tri-254646)
UX Framework	The drop-down footer of triplat-search components is no longer hidden when available height is small. (Tri-255369)
UX Framework	The exposed name and file name are both changed when a web view file is renamed and uploaded to the server. (Tri-259700)
UX Framework	The organization and geography fields are no longer auto-populated for UX metadata business objects. An upgrade script is applied to fix existing UX metadata. (Tri-256583)
UX Framework	The triblock-table-column component's 'hide' property will now work properly on the supported version of Firefox. (Tri-255568)

Area of Change	Description
UX Framework	The triblock-table-column CSS properties are now properly applied when using a triblock-table in an asynchronously-stamped template (e.g. Polymer's "dom-bind" template). (Tri-255028)
UX Framework	The triplat-date-picker component will now fire a 'date-picker-user-change' event when the date-picker value changes due to user interaction.
UX Framework	The triplat-date-picker fires an event every time a value is typed into the input field; the same behavior applies to triplat-datetime-picker as well. (Tri-250706)
UX Framework	The triplat-ds UX component is fixed to not throw "Uncaught ReferenceError: data is not defined" error when calling the updateRecord method with the refreshType parameter equal to TriPlatDs.RefreshType.BOTH. (Tri-259356)
UX Framework	The triplat-ds-search-input component no longer gets focus when the page is resized. (Tri-251075)
UX Framework	The TRIPLAT-GRAPHIC-BOUNDING-SELECTION element will now correctly calculate the position of the lasso selector when the triplat-graphic is inside a container that has a scroll bar. (Tri-251077)
UX Framework	The TRIPLAT-GRAPHIC-LEGEND has been enhanced to allow the user to open and close the legend using a swipe movement on touch devices. See the TRIPLAT-GRAPHIC-LEGEND documentation page for additional details. (Tri-252011)
UX Framework	The TRIPLAT-GRAPHIC-LEGEND has been enhanced to allow the user to click on the whole legend bar to open or close the graphic legend. (Tri-252010)
UX Framework	The TRIPLAT-IMAGE and TRIPLAT-FILE UX elements now validate if the the size of the uploaded file exceeds the file size limit allowed by the MAXIMUM_UPLOAD_FILE_SIZE_MEGABYTES property in the TRIRIGAWEB.properties file. (Tri-261563)
UX Framework	The TRIPLAT-IMAGE UX component has been enhanced to provide a method to open the image selection dialog, a method to clear the image field and a property that indicates if uploading is in progress. See the TRIPLAT-IMAGE documentation page for additional details. (Tri-257188)
UX Framework	The triplat-image UX component has been fixed to display only image files on the file selection popup when the user is trying to upload a new image. (Tri-259571)
UX Framework	The triplat-image UX element has been enhanced to rotate the images according to the orientation of the camera relative to the scene, when the image was captured. See the triplat-image documentation page for additional details. (Tri-259520)

Area of Change	Description
UX Framework	The triplat-query-scroll-page component will no longer fail with the following error "TypeError: Invalid value used as weak map key" when there are scenarios where it is not defined. (Tri-258133)
UX Framework	The TRIPLAT-SELECT-INPUT component is fixed to not display duplicated or incorrect results when used in conjunction with the TRIPLAT-QUERY-SCROLL-PAGE. (Tri-258780)
UX Framework	The triplat-select-input component will now fire a 'select-input-value-user-change' event when the value changes due to user interaction. (Tri-262196)
UX Framework	The UX Framework documentation page (/p/web/doc), when opened on small devices, now shows a button to toggle the component list menu (Tri-249268).
UX Framework	The WebViewSync tool now has a new feature called "Force Push" that enables the user to push a view without checking for conflicts. See the WebViewSync command line help for additional details. (Tri-253354)
UX Framework	The WebViewSync tool will now ignore files and folders that are hidden or that starts with a period. For example, the file .gitignore or folder .git will not be pushed to the TRIRIGA server. (Tri-253335)
UX Framework	This fix removes the need to import triplat-view-behavior first, before any triplat* component. It's still best practice to import that first whenever it's required. (Tri-254315)
UX Framework	UX applications that implement triblock-app-layout no longer need to include @apply(--layout-fit) on the main content div. This is now included by default. (Tri-249195)
UX Framework	UX applications that use triplat-date-picker, triplat-datetime-picker, or triplat-calendar-container are now supported in Arabic language. (Tri-251747)
UX Framework	When new row(s) are added to a triblock-table data array, 'hide' and 'hide-on-screen-width' properties are now initially computed on the new rows. (Tri-254604)
UX Framework	When SSO is enabled, the TRIPLAT-SIGNOUT and TRIPLAT-SIGNOUT-BUTTON components now redirect to the URL defined by SSO_SINGLE_SIGN_OUT_REDIRECT_URL after signing out of UX applications. (Tri-265028)
UX Login Page	UX login page will display a message dialog box if user attempts to login after reaching maximum number of login counts. (Tri-273942)
Web Properties	Added a new web property PERFORMANCE_ANALYZER_MAX_FILE_SIZE_IN_MB that is used to determine the maximum log file size the Performance Analyzer will process or upload. (Tri-269968)

Area of Change	Description
Workflow	Adding a parameter to a custom task will no longer throw an exception after the page refreshes. (Tri-265342)
Workflow	Changed the current message being displayed when deleting a workflow that is called by another workflow to remove the add symbol and to break the lines correctly. (Tri-259850)
Workflow	Resolved a concurrency issue where update from a Modify Metadata task that happened concurrently would throw primary key constraint exceptions. Now if the update to the metadata encounters an error upon insert, the batch is tried again, and any primary key error is handled internally, with no error thrown. (Tri-257482-IV93295)
Workflow	Resolved an issue when copying a workflow, the Root Object Label was incorrectly being applied to the workflow copy. The workflow copy should have the In Progress Object Label. (Tri-259596)
Workflow	Resolved an issue when reverting to a previous revision of a workflow where the Object Label of the workflow reverting to was not being applied to the new workflow revision. The In Progress Object Label was incorrectly being applied to the new workflow revision. (Tri-258182)
Workflow	Retiring called Workflows will no longer expire the user's session. (Tri-252886-IV93639)
Workflow	Text value containing symbol '<' will now save properly when used in expression editor in workflow builder. (Tri-270625)
Workflow	The revision list for a Workflow now includes a Detail column. This will indicate if the revision came from an Object Migration import, or if the revision was created by publishing a previous revision. In addition to sort capability on the Detail column, new sort capability has also been added to the Object Label column in the workflow revision list. (Tri-261746)
Workflow	Workflow tasks will now load other tasks names then the task has special characters in the name like single or double quotes. (Tri-268578)
Workflow Agent Manager	Resolved an issue where massive amounts of workflow instances were running into an issue cleaning them up via the Platform Maintenance Agent (Tri-264422-IV94801)
Workflow Builder	When working with system functions in the Expression Editor (Switch or Start Task) in Workflow Builder, you can now properly save the function's parameters. (Tri-254250-IV91759)

Area of Change	Description
Workflow Runtime	Resolved a Modify Metadata workflow task issue, where any space character in a form tab name, form section name, or form field name would cause the task to not run on those respective objects. This only affects workflows containing this naming scenario that have been published since 3.5.2. If the workflow existed prior to 3.5.2, and has not been published since 3.5.2, then the workflow will run as expected. Additionally, this fix also resolves a display issue in the Modify Metadata task map on the workflow design, where any space character in form tab names, form section names, and form field names would be replaced with a plus sign. For example, "My Profile", would display as "My+Profile". Note if you have encounter this issue, after you take the fix you will need to open the affected ModifyMetadata workflow task, navigate to each affected element in the task and click apply. The workflow should start working as expected after you re-publish it. (Tri-270933)
Workplace Reservation Manager	An issue has been resolved in Reserve's My Calendar when a user with an organization or geography access is unable to open a Reservation they created. The security was not using the organizations or geographies from the user's profile groups when determining the users access. It used the security override Reserve security groups instead. (Tri-265621-IV97700)
Workplace Reservation Manager	An issue has been resolved in the Reservation form when a user with an organization or geography is unable to see the Room(s) or Food Order(s) on the Reservation. The report security was not using the organizations or geographies from the user's profile groups when determining the user's access. It instead was using the overridden System Reserve security groups. (Tri-275900)
Workplace Reservation Manager	IBM TRIRIGA Workplace Reservation Manager Add-in is now able to communicate with TRIRIGA servers over TLS 1.2 protocol. (Tri-265925-IV95388)
Workplace Reservation Manager	The IBM TRIRIGA Workplace Reservation Manager Add-in installer now prevents installation on unsupported Outlook 2010 client and provides information on the required versions needed to continue with the installation. (Tri-267311)
Workplace Reservation Manager	The Room Search on the Location Reservation Form has been enhanced to consider the setup and breakdown times defined on the Space record when checking if that space is available. It does not consider setup and break down times defined on Alternate Room layouts if they differ from those set on the Space Record. (Tri-249042-IV90487)
Workplace Reservation Manager	There is a new property file to control the parsing of iCal attachments for use with the ReserveSMTPAgent. It will control how line wrapping is handled in the iCal attachment. For full information on the properties see https://github.com/ical4j/ical4j/wiki/Compatibility (Tri-269959)

IBM TRIRIGA Application Platform 3.5.3 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
ALLOW_GANTT_SCHEDULER_UPDATE_ACTUALS	Default value is TRUE and is legacy behavior. If set to FALSE the Gantt Scheduler will skip Actual field updates if the Actual Start date is set.
CLEAN_TIMEOUT	The default value for the CLEAN_TIMEOUT property in TRIRIGAWEB.properties is now 300 minutes, or 5 hours. It was 120 minutes or 2 hours. Previously set values will be reset to 300 minutes. If you had the value differently, you will need to apply your other value back before starting the application server. (Tri-259788)
PERFORMANCE_ANALYZER_MAXIMUM_FILE_SIZE_IN_MB	Controls the maximum file size that the Performance Analyzer will allow when processing or uploading log files. The default value is 50 MB. This can be increased in order to have the Performance Analyzer process larger log files, but this will also result in slower loading of the logs, and slower rendering of the Performance Analyzer form.
REPORT_CASE_SENSITIVE	An option has been added to TRIRIGAWEB.properties to turn off forced Case Insensitive Order By on query results. Turning off Case Insensitive Order By may result in better database performance, however it should be noted that the results may be ordered in a different manner. If set to FORCE_CASE_INSENSITIVE, queries with Text values in the Where clause sort in case insensitive order. Legacy behavior. If set to NATIVE_DB_CASE_SORT, queries with Text values in the Where clause sort according to the native database settings. The default is FORCE_CASE_INSENSITIVE. (Tri-263764)

IBM TRIRIGA CAD Integrator/Publisher 12.1.6

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

Important Information

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

Known Limitations

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

IBM TRIRIGA CAD Integrator/Publisher 12.1.6 Changes

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

Area of Change	Description
Installation	Added installer support for AutoCAD 2018 and AutoCAD 2018 Architecture. Removed installer support for AutoCAD 2015 and AutoCAD 2015 Architecture.
MicroStation	MicroStation can now render long label style generated as a result of full sync, for example full sync with the "People" label style where a space has a large number of people in it. This previously resulted in a MicroStation crash. (Tri-256021-IV92514)
Performance	User sessions no longer time out after 3 mins of inactivity if the session was initiated by a CAD integrator request. (Tri-262080-IV94643)
Smart Attach	Attaching a drawing using Smart Attach now validates the following 3 conditions: The user selected a record in the tree to attach to, the user selected the record of the correct type based on the application definition, e.g. Floor in the default application definition, and the user selected an unattached floor. If the user does not do this, the Smart Attach dialog will not let the user attach, and notifies the user with a message explaining on the dialog line. (Tri-258493-IV93274)
Spaces	Resolved an issue where CAD Integrator/Publisher was not correctly calling the PreCreate Workflow when creating new spaces via Smart Attach. (Tri-265042-IV94987)

IBM TRIRIGA CAD Integrator/Publisher 12.1.6

Properties Files

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

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_10.5.3/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_3.5.3/com.ibm.tap.doc/product_landing.html. The documentation can be found in online IBM Knowledge Center topics, or in PDF files, or both.

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

This release updates the following documentation:

- “Administering IBM TRIRIGA” (online topics) or *IBM TRIRIGA 10 Application Administration User Guide* (PDF)
- “Administering with the Administrator Console” (online topics) or *IBM TRIRIGA Application Platform 3 Administrator Console User Guide* (PDF)
- “Assessing and improving the physical condition of facilities” (online topics) or *IBM TRIRIGA 10 Facility Assessment User Guide* (PDF)
- “Authenticating users by using single sign-on” (online topics) or *IBM TRIRIGA Application Platform 3 Single Sign-On Setup User Guide* (PDF)
- “Configuring the user experience” (online topics) or *IBM TRIRIGA Application Platform 3 User Experience User Guide* (PDF)
- “Getting started” (online topics) or *IBM TRIRIGA 10 Getting Started User Guide* (PDF)
- “Installing IBM TRIRIGA Application Platform” (online topics) or *IBM TRIRIGA Application Platform 3 Installation and Implementation Guide* (PDF)
- “Integrating data by using OSLC” (online topics) or *IBM TRIRIGA Application Platform 3 OSLC Integration Guide* (PDF)
- “Integrating data with external applications” (online topics) or *Application Building for the IBM TRIRIGA Application Platform 3: Data Management* (PDF)
- “Integrating data with the TRIRIGA integration object,” “Integrating data with the TRIRIGA connector for Esri Geographic Information Systems (GIS),” and “Extending connector functions” (online topics) or *IBM TRIRIGA Application Platform 3 Connector User Guide* (PDF)
- “Integrating, publishing, and reporting on CAD drawing information” (online topics) or *IBM TRIRIGA CAD Integrator/Publisher User Guide* (PDF)
- “Localizing applications” (online topics) or *IBM TRIRIGA Application Platform 3 Localization User Guide* (PDF)
- “Managing graphics” (online topics) or *IBM TRIRIGA Application Platform 3 Graphics User Guide* (PDF)
- “Managing inventory” (online topics) or *IBM TRIRIGA 10 Inventory Management User Guide* (PDF)
- “Managing leased and owned property contracts” (online topics) or *IBM TRIRIGA 10 Lease and Owned Property Contract Management User Guide* (PDF)
- “Managing portfolio data” (online topics) or *IBM TRIRIGA 10 Portfolio Management User Guide* (PDF)
- “Managing procurement” (online topics) or *IBM TRIRIGA 10 Procurement Management User Guide* (PDF)

“Managing real estate environmental sustainability” (online topics) or *IBM TRIRIGA 10 Real Estate Environmental Sustainability User Guide* (PDF)

“Managing reservations and reservable resources” (online topics) or *IBM TRIRIGA 10 Reservation Management User Guide* (PDF)

“Managing services” (online topics) or *IBM TRIRIGA 10 Maintenance and Service Management User Guide* (PDF)

“Managing spaces and moves” (online topics) or *IBM TRIRIGA 10 Space and Move Management User Guide* (PDF)

“Migrating Objects” (online topics) or *IBM TRIRIGA Application Platform 3 Object Migration User Guide* (PDF)

“Performance Framework” (online topics) or *Application Building for the IBM TRIRIGA Application Platform 3: Performance Framework* (PDF)

“Planning real estate transactions and projects” (online topics) or *IBM TRIRIGA 10 Real Estate Transaction Management User Guide* (PDF)

“Requesting corrective maintenance” (online topics) or *IBM TRIRIGA 10 Request Central User Guide* (PDF)

“Reporting in IBM TRIRIGA” (online topics) or *IBM TRIRIGA Application Platform 3 Reporting User Guide* (PDF)

“Strategic facility planning” (online topics) or *IBM TRIRIGA 10 Strategic Facility Planning User Guide* (PDF)

Application Building for the IBM TRIRIGA Application Platform 3 (PDF)

Application Building for the IBM TRIRIGA Application Platform 3: Calculations (PDF)

IBM TRIRIGA Application Platform 3 Connector for SAP BusinessObjects User Guide (PDF)

IBM TRIRIGA Application Platform 3 Post Upgrade Maintenance Specification (PDF)

IBM TRIRIGA Application Platform 3 Upgrade Installation Guide (PDF), which can be found at <https://www.ibm.com/developerworks/community/wikis/home?lang=en#/wiki/IBM+TRIRIGA1/page/Upgrading>

IBM TRIRIGA Connector for Business Applications 3 Technical Specification (PDF)

Support

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

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