IBM TRIRIGA
Version 10 Release 5.1

IBM TRIRIGA Application Platform
Version 3 Release 5.1

Release Notes

IBM

Note
Before using this information and the product it supports, read the information in "Notices" on page 82.

This edition applies to version 10, release 5, modification 1 of IBM® TRIRIGA® and version 3, release 5, modification 1 of IBM TRIRIGA Application Platform and to all subsequent releases and modifications until otherwise indicated in new editions.

Contents

Release Notes

Welcome to the June 2016 release of IBM® TRIRIGA® 10.5.1, IBM TRIRIGA Application Platform 3.5.1, and IBM TRIRIGA CAD Integrator/Publisher 12.1.4.

This release includes the following two installation options:

- A new installation of IBM TRIRIGA Application Platform 3.5.1 and IBM TRIRIGA Applications 10.5.1.
- An IBM TRIRIGA Application Platform-only upgrade installation from 3.0.x or higher to IBM TRIRIGA Application Platform 3.5.1.

The IBM TRIRIGA Applications can be incrementally upgraded to 10.5.1 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 10.5.1, IBM TRIRIGA Application Platform 3.5.1, and IBM TRIRIGA CAD Integrator/Publisher 12.1.4, 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 10.5.1, IBM TRIRIGA Application Platform 3.5.1, and IBM TRIRIGA CAD Integrator/Publisher 12.1.4 include the following highlights.

Lease Accounting

IBM TRIRIGA 10.5.1 enhances IBM TRIRIGA Real Estate Manager lease accounting processes to accelerate compliance with the final lease accounting standards announced by FASB in February 2016 and IASB in January 2016. TRIRIGA automates the classification of real estate and asset leases, previously known as Type A and Type B in previous drafts of the standard, to Finance and Operating respectively, and then manages the amortization and generates schedules for both types. TRIRIGA now includes processes related to the adoption and two-year look-back date that are described in the finalized standards for use after corporate accounting policies and decisions for when to adopt the new standards are complete. A user with the role and security access of TRIRIGA Lease Accountant can retroactively generate accounting schedules for the look-back period as defined in new Application Settings as required according to the standards. New features were added to TRIRIGA to support multinational organizations that manage leases in the United States as well as internationally with both financial and/or operating schedules generated to comply with corporate accounting and local reporting requirements. In addition to the new setup and initial adoption processes, further enhancements were made for the full lifecycle of changes for lease amendments, reassessments, and the modifications that impact accounting schedules. In addition, TRIRIGA Real Estate Manager now provides a predefined dataset (query) of lease data that can be used IBM Watson Analytics for an additional subscription to gain decision-making insights.

Specifically, TRIRIGA Real Estate Manager for lease accounting includes:

- Lease classification Operating and Finance changes
- Lease treatment calculation changes and the addition of an override feature
- IFRS re-measurement logic
- Review assumptions enhancements for fair market value
- Finance/operating schedule calculations changes
- Finance/operating schedule enhancements for retail calendars
- Initial adoption, look-back period support, and new Copy & Link feature
- Multinational lease accounting support
- Metric reports / chart enhancements

IBM TRIRIGA Application Platform 3.5.1 supports TRIRIGA 10.5.1 and includes calculation extensions that are required by the lease accounting standards.

Object Revisions

IBM TRIRIGA 10.5.1 and 3.5.1 introduce the ability to track metadata for the following high-level objects: business objects, forms, modules, and reports. Changes that are made to high-level objects are captured in revisions. The builders are enhanced as follows:

The Data Modeler creates revisions of business objects on publish and modules on save. You can also compare two revisions of a business object or two revisions of a module in the Data Modeler. The Form Builder creates revisions of forms on publish. You can also compare two revisions of a form in the Form Builder. The Report Builder is enhanced to create revisions of reports when you click Save or Save & Close. You can also compare two revisions of a report in the Report Builder.

Object Labeling

High-level objects now contain an identifier called an object label. The process of identifying the objects is called object labeling.

One benefit of identifying objects and tracking revisions to objects is that it is easier to target and compare the updates that IBM makes to objects in new versions of the TRIRIGA applications with the changes that customers make to the objects or that services teams make on the customer's behalf. The process of identifying and tracking revisions will aid in upgrading your TRIRIGA applications.

With the new Object Label Manager, you can:

- Display and export a list of objects associated with an object label.
- Create and apply custom object label to objects that you have changed.
- Report change details for all revisions of objects associated with an object label.

For documentation on these enhancements, see Object Labels and Revisions (https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/IBM%20TRIRIGA1/page/Object%20Labels%20and%20Revisions) on the TRIRIGA wiki.

Gantt

The platform provides a new HTML5/JavaScript-Based Gantt section that can be run in all the browsers in the compatibility matrix. There continues to be a way to use the Gantt applet for customers who prefer to use applets, however the applet will be removed in a future release.

In addition, IBM TRIRIGA 10.5.1, IBM TRIRIGA Application Platform 3.5.1, and IBM TRIRIGA CAD Integrator/Publisher 12.1.5 each include minor enhancements and defect resolutions.

IBM TRIRIGA 10.5.1 Enhancements

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

Area of Impact	Description
Fundamentals	Fundamentals are new set of navigation icons, portals, and security groups added in 10.5.1 that are supplemental to the TRIRIGA sets of the same components that were shipped in previous releases of TRIRIGA. These components can be customized and used to reduce the complexity of TRIRIGA applications and to offer a better usability and client experience. Enhancements include: • Simplified process for adopting new lease accounting standards • Improved ability to manage and track objects and labels to make application upgrades easier • Simplified task and role based interfaces for TRIRIGA applications
Real Estate Lease Abstract	A Find action is added to the Lease Abstract, Options tab. The Find action will only display Rent Schedules (For example: Rent, Antenna Rent, Expansion Rent). (Tri-170265)
Real Estate Real Estate Lease	After applying the index adjustment, the system no longer recalculates the Straight-line / Amortization schedule. (Tri-217146)
Real Estate Asset Lease Real Estate Lease	Internal rate of return is now calculated for both the current and the new accounting standard for Finance or Capital leases when the fair market value is less than the calculated Net Present Value. (Tri-209952, Tri-215892)
Real Estate Real Estate Lease	Local reporting is now available for multinational leases.
Real Estate Real Estate Lease	Support is added to support the transition from the current FASB-IASB accounting standard to the new standards released in 2016.
Real Estate Real Estate Lease	The calculations of the minimum % for the index based lease are modified. The Minimum % is now applied to the Net Rent payment of the Straight-Line/Amortization schedule based on the adjustment frequency. Subsequent application of Minimum % utilizes the previous adjusted amount. (Tri-216048)
Real Estate Real Estate Lease	The start date of the index adjustment calculator is from the first adjustment date of index based clause. However, the end date is defaulted from the expiration date of the lease. Also, the adjust payment on the payments is applied with the index % used. Earlier the actual adjustment amount from index calculator was used to update payments.

Area of Impact	Description
	On payment line item, a new field is added to store the minimum index adjustment amount. Any other adjustment percent is stored as a variable lease payment. (Tri-216049)
Space Assessment	Field overlaps in the Space Assessment List view were resolved. When the screen width is 1024px or more, separate fields will appear as separate columns. If screen width is less, they will appear in the same column as consecutive rows distinguished by their respective labels. Also, if the Space or the Name field is longer than 25 characters, it will show ellipsis after the 25th character. (Tri-207694)
Space Assessment	For the space assessment request, when you create a new assessment, the fields in the header section no longer overlap. The fields now display in one column as consecutive rows distinguished by their respective labels. (Tri-193331)
Space Assessment	In the Space Management of Assess Space Application, the search function now works in the Excluded tab after opening the space assessment record. (Tri-214127)

IBM TRIRIGA Application Platform 3.5.1 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	New functionality was added to the Database Manager menu in the Administrator Console. In the Database Manager menu, the Database Enabled Triggers window displays all the trigger events in the database. You can disable all trigger events found. (Tri-214442)
Agents	The Platform Maintenance Agent will now allow for a timeout. The new CLEANUP_TIMEOUT property is in TRIRIGAWEB.properties file, and will tell the cleanup agent to stop after it runs for the configured number of minutes. (Tri-175537)
Data Modeler	The Data Modeler is enhanced to support tracking revisions to Modules and Business Objects on save and publish respectively. It also supports comparing differences from one revision to another.

Area of Impact	Description
Document Management	Multi-file download functionality is now available in the Document Manager and can be added as a section action within a form. The downloaded files are compressed into a .zip archive that contains the files in the same hierarchy that they were represented in the Document Manager. You can add the multi-file download functionality to an existing form by adding a download section action in the triDocument section of an existing form. When you add the section action to the section, the section popup, visible, and active properties need to be true. Set the Action Type to custom with the URL field set to javascript:methodKey=download. (Tri-208766)
Form Builder	The Form Builder has been enhanced to support tracking revisions to a Form on publish. It also supports comparing differences from one revision to another.
Formula Support	A new Internal Rate of Return (IRR) function that is called IRRX was added to the expression engine in the Workflow Builder. The IRRX function requires three parameters and returns an approximate IRR value that is accurate to 12 decimal places. (Tri-87161)
Gantt	Gantt sections now render using an HTML5 non-applet version which supports all browsers in the Capitalize Compatibility Matrix. The legacy applet can still be used by adding the following property to TRIRIGAWEB.properties: USE_LEGACY_GANTT_APPLET=TRUE (Tri-198075)
Gantt	The HTML5/Javascript-Based Gantt section can be styled. To help update the styles, see the directory under <<tririga-install-dir>>/userfiles/treegrid-sample. You can rename this directory to be <<tririga-install-dir>>/userfiles/treegrid and start the modification to the Grid.css and Gantt.css files from there. You must restart the application server after renaming and making the changes before the change is updated in cache. (Tri-217396)
Graphics	When you render graphic reports, the random color generated product colors are now lighter, brighter, and further apart on the color scale. (Tri-213530)
Graphics	The AnyChart library that is used to render graphs was upgraded from 7.7 to 7.9. (Tri-208765)
IBM TRIRIGA Connector for BIM	IBM TRIRIGA Connector for BIM now supports Revit 2016. (Tri-197192)
Installation	If you use Full WebSphere, the installer will verify the cell/node/server values are correct before allowing to proceed the TRIRIGA Installer. It is best practice to open up the WebSphere Administrator Console, and "copy and paste" the values for cell/node/server into the TRIRIGA Installer. Note: the values must exactly match, and are case sensitive. (Tri-213168)

Area of Impact	Description
Installation	Installations of TRIRIGA 3.5.1 in Traditional WebSphere must be version 8.5.5.9 and IBM Java 1.8_64. If the TRIRIGA installer does not detect IBM Java 1.8_64, the installer will tell the user to configure WebSphere to run the correct Java version. Weblogic installations must be installed and configured to use Java 8 prior to installing TRIRIGA. If the TRIRIGA installer detects that an older JDK version is being used, the installer will not allow you to continue. (Tri-214589)
Installation	The deployment of the IBM-TRIRIGA.war file on WebLogic was updated and the temporary JSP Compile directory was moved into the TRIRIGA installation directory. The files are now deleted automatically by the TRIRIGA installer when you apply a fix pack or new installation. (Tri-210700)
Installation	When you install WebSphere Liberty Profile on Windows, you now have the option to install as a Windows service. (Tri-189175; RFE-183865)
Installation	With SQL Server, new database installations are multi-byte only. If an administrator upgrades on SQL Server, they will still have the choice to remain on single-byte for this release. In a future release, support for single-byte SQL Server will be removed and you will need to update to multi-byte. If an administrator updates to multi-byte with this platform upgrade, the conversion from single to multi-byte can take many hours. Review the installation documentation about upgrading to multi-byte before you start the process. Monitor the application server startup to make sure that the process runs smoothly. Allocate 2-12 extra hours of processing time to move from single-byte to multi-byte. (Tri-204938)
Notifications	External mail notifications now allow an internal and external link to be included in the message. To include the external link, you must set the external front end server in TRIRIGAWEB.properties file. Set the EXTERNAL_FRONT_END_SERVER property to the external URL that you would like the external recipient to be directed to. An example is provided in the TRIRIGAWEB.properties configuration file. (Tri-214687; RFE-56548)
Object Label Manager	A new manager was added to help manage changes that are made to the application. In the Object Label Manager, you create labels, label high-level objects, and see what is in a label. Object Labeling is a process that applies object labels to objects and object revisions. The process helps to manage the changes that are made to objects in the IBM TRIRIGA applications, including changes that you make or that services teams make on your behalf, and changes that IBM makes in updated releases of the IBM TRIRIGA applications. For more information, see Object Labels and Revisions on the TRIRIGA wiki.
Object Migration	Added a new file folder userfiles/ObjectMigration/UploadsWithImport. OM packages dropped to this folder will be automatically uploaded and imported.

Area of Impact	Description
Object Migration	Added validation for object conflict in Object Migration. Validation will set the OM package in a warning state "Validation Warning - Import will overwrite customized objects in package" if objects labeled in-progress will be overwritten by objects in the import package.
Object Migration	Object Migration now exports, imports and compares report security settings along with reports.
Object Migration	Object Migration now ignores the Has Staging Table property value of a business Object upon import if the value in the target environment is set to something other than none. Existing staging table data will no longer be deleted when the source Object Migration package does not have the Has Staging Table property enabled. (Tri-210699)
Object Migration	When you import Object Migration packages, some warning messages were enhanced to describe resolution steps. Some warning messages were changed to show to the Application Administrator only. Some messages were omitted and will no longer repeat themselves. (Tri-209172)
Object Migration	You can now compare the metadata from UX applications. However, any binary files attached to the web view metadata, such as HTML and CSS files, are not compared.
Offline	Offline debug logging now indicates when a distill or populate process is about to evaluate an Excel formula. When a formula is successfully evaluated, a message will display. (Tri-207700-IV79878)
Query	A new property was added to TRIRIGAWEB.properties file called PRESERVE_IMAGE_HEIGHT_WIDTH_QUERY_SECTION.

The PRESERVE_IMAGE_HEIGHT_WIDTH_QUERY_SECTION property determines how images that are smaller than 50 pixels in width and height and are attached to an image field on a TRIRIGA record are displayed inside a query section.

If you want to attach an image that is smaller than 50 pixels in width or height and the PRESERVE_IMAGE_HEIGHT_WIDTH_QUERY_SECTION is set to Y, query sections will use the image's original height and width. The PRESERVE_IMAGE_HEIGHT_WIDTH_QUERY_SECTION property will not alter how images are displayed in other areas of the application. (Tri-210150) |
| Record Runtime | A new property was added to TRIRIGAWEB.properties file called TINYMCE_HTML_EDITOR_ENABLED. The TINYMCE_HTML_EDITOR_ENABLED property determines whether the HTML Editor button will display in the form notes field. The value of the property is set to true by default, which will display the button in notes fields. (Tri-218297-IV83117) |
| Report Builder | The Report Builder was enhanced to support tracking revisions to a query when you save. It also supports comparing from one revision to another. |

Area of Impact	Description
Reporting	Excel exports are now in .xlsx file format. Exported Excel files are created with the Apache POI library, so exported Excel files can be used on any file editor that supports .xlsx files. The time zone portion of date time formats such as dd/MM/yyyy HH:mm zzz is removed in Excel exports because custom Excel date cells do not recognize the time zone. Clear your browser cache after you change values in the Date Format or Date Time Format fields in your My Profile record. The following issues will be resolved in a future release: (1) When a date time field is exported to Excel, the hour value is not correct in the spreadsheet. (2) In Firefox, when a non-US English-language user exports a tabular report, the Excel spreadsheet is .xls format and shows a different number of rows than the report. (Tri-178239)
Reporting	In the Form Builder, when you update or create a text locator field property, you must specify a Locator Query attribute before you apply the field properties. If you do not specify a Locator Query attribute for text locator field properties, you are alerted and the field property is not saved until the locator query field is set. A required field mark, i.e., an asterisk, is put next to the locator query attribute for text locator fields so that you know which field is required. (Tri-200174)
UX Framework	A feature was added to Web View Metadata to allow the root web component that is rendered to be configurable. Before this enhancement, only the component with the same name as the Web View Metadata would render as the root component. You can configure the root web component by setting the Root Component Name field to the view that you want to be the root. (Tri-209195)
UX Framework triplat-graphic	A new plugin called triplat-graphic-highlight-group is now available to be used in triplat-graphic component. This plugin allows the application developer to create highlights in floor plans according to group definitions. See the triplat-graphic documentation page for additional information. (Tri-212419)
UX Framework triplat-date-picker	The triplat-date-picker component will now fire an event when the value is changed. See the UX component documentation page for more information. (Tri-217130)
UX Framework triplat-ds	The triplat-ds component actions can now pass records from the views as variables to the triggered workflow and receive return values variables. (Tri-208466)
UX Framework triplat-ds	The triplat-ds component has a new property called 'transitionInfo'. It provides information about the available state transition actions and sub actions for the current state of the record. See the triplat-ds documentation page for more details. (Tri-192749)

Area of Impact	Description
UX Framework triplat-ds	The triplat-ds component now supports a forceServerFiltering flag which allows you to specify that you want server-side filtering even when you don't want to use pagination. See the triplat-ds documentation page for additional information. (Tri-202438)
UX Framework triplat-ds	The triplat-ds component was enhanced to support Query data sources that have a back-end query that is a Reserve Query. (Tri-210021)
UX Framework triplat-geo	The triplat-geo is a new UX component that provides the current geolocation. See the triplat-geo documentation page for additional information. (Tri-174271)
UX Framework triplat-graphic	The triplat-graphic-selectable plugin was enhanced to support a new property, called "enabled". By using this property, an application developer no longer needs to implement multiple floor plans only because some are read only and some are not. See the triplat-graphic documentation page for additional information. (Tri-221709)
UX Framework triplat-image	The triplat-image component has been enhanced to support an 'editable' property so that the user can upload a new image file or delete an existing image. See the triplat-image documentation page for additional information (Tri-179816)
UX Framework triplat-query-filter	The triplat-query-filter component now supports the ability to specify parentheses for grouping conditions. See the triplat-query documentation page for additional information. (Tri-200348)
UX Framework triplat-search-input	The triplat-search-input was enhanced to provide a flexible search capability consistent with how a user might run a search. The following new features are now available: a dropdown with headers showing results sorted alphabetically according to the input value, ability to perform multiple selections. Universal searches are still supported and can be combined with the multiple selection. See the triplat-search-input documentation page for additional information. (Tri-208468)
UX Framework	The UX documentation page has been enhanced to show the version of third party components. (Tri-219826)
UX Framework triplat-query-resource-calendar	The UX Framework was enhanced to support a new data source type, Resource Calendar. This type is used in conjunction with the triplat-query-resource-calendar plugin to retrieve events associated with a resource and Calendar Set. See the triplat-query-resource-calendar documentation page for additional information. (Tri-219680)

Area of Impact	Description
UX Framework triplat-drag triplat-drop	Using UX components triplat-drag and triplat-drop, you can create drag-and-drop visual effects on any component. The component triplat-drag is used as a wrapper to contain the draggable element. The component triplat-drop is used to set up the drop zone. For a floor plan graphic using the triplat-graphic component, the triplat-graphic-drag-drop plugin is used to enable drag-drop on a graphic. (Tri-186168)
UX Framework triplat-datetime-picker	When you change a date-time value, the UX component triplat-datetime-picker now fires an event. See the UX component documentation page for additional information. (Tri-218238)
Workflow	A custom task class has been added for workflow which triggers a global cache clear across all servers. You can create a custom task and specify the following in the class field: com.tririga.platform.admin.cache.web.CacheProcessingCustomTask$RefreshAllCache The custom task will perform a global cache clear on the server where the workflow runs as if it were triggered from that server's Administrator Console. (Tri-211723)
Workplace Reservation Manager	You can now control the number of matched occurrences reported in the Available Rooms List View. When you search for rooms for a recurring reservation, the Available Rooms List View displays an Available column. This column is meant to give an indication of how available a room is for your recurring meeting. It does this by indicating for how many of the occurrences the room is free (i.e., 3 of 5). If your recurring meeting has more than 20 occurrences, the Available column by default reports on the first 20 occurrences. You can now change this maximum default by setting the value of the CALENDAR_EVENT_MAX_OCCURRENCES property in the TRIRIGAWEB.properties file. If you do not set a value, the default value is 20. This setting does not affect the actual booking of the room. (Tri-213163)

IBM TRIRIGA CAD Integrator/Publisher 12.1.4 Enhancements

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

Area of Impact	Description
AutoCAD Support	Added support for AutoCAD 2017 and AutoCAD Architecture 2017. (Tri-222034)
MicroStation SS4 Support	Added support for MicroStation SS4.

Important Installation and Upgrade Information

Before installing, go to the IBM TRIRIGA Application Platform 3 Knowledge Center and read *Installing IBM TRIRIGA Application Platform.*

Before upgrading, go to the Upgrading page of the IBM TRIRIGA wiki and read the *IBM TRIRIGA Application Platform 3 Upgrade Installation Guide* and the procedures that outline the upgrade steps for a selection of upgrade scenarios at the following link:
www.ibm.com/developerworks/community/wikis/home?lang=en#/wiki/IBM+TRIRIGA1/page/Upgrading.

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.

Run the script PRIOR to installation of IBM TRIRIGA Application Platform version 3.5.0.

NEVER run the script after upgrading to 3.5.0.

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 no 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 3.5.1 to ensure RootObject labels are 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 InProgress 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 InProgress labels given to an object by a manual modification will be changed to RootObject 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 3.5.1, and by the same user who applied the upgrade.

Additionally, there is an increased chance the InProgress label will appear on objects you did not modify. If application upgrade packages have been deleted from the Object Migration tool, the Object Label cleanup will not be able to ensure RootObject labels are 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 10.5.1

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
Installation	When importing new OMs, if using the out of the box security group system org and system geo set, they may be overwritten. To fix this, re-check the security group you are using before the import and then confirm after the import that the system organization and system geography have been set.
Lists	The System DateTimeFormat list value dd-MM-yyyy HH'h'MM'min' is now dd-MM-yyyy HH'h'mm'min' so that the minutes (mm) display correctly. Because this change was made to an existing list value, the 10.5.1 object migration package creates a new value in your environment instead of replacing the old value. You can manually delete the old value from the list. (Tri-215425)
Real Estate Asset Lease Real Estate Lease	In order to change the adoption period and look-back period and then repeat the initial adoption process, you must complete the following steps: First, at Application Settings > Lease Accounting Settings, set the Adoption period and Look Back Period as desired. The queries used in step 1 below are: triContract - Report - Editable - All Real Estate Leases Adopted for New Accounting Standard (Title : All Real Estate Leases Adopted for New Accounting Standard) triContract - Report - Editable - All Asset Leases Adopted for New Accounting Standard (Title : All Asset Leases Adopted for New Accounting Standard) Second, follow these steps to re-run the initial adoption process: 1. Run the appropriate query for either real estate or asset leases. It brings all **Active** status leases which are in **triIssued** State. 2. Filter by Lease Name or Lease ID. 3. Clear the check boxes for Standard Adopted? and Adoption Processed?. 4. Clear the Adoption Date and Asset Revaluation Effective Date. 5. Click Save. Multiple records can be saved at once. 6. Open the lease and click on the Review Assumption action. 7. Select the Review type "Initial Adoption to New Standard" and leave the Recalculate Flag selected for initial adoption. 8. Click Submit. 9. The lease changes status to "Processing" and, once completed, changes to "Active" status with the Review Assumption action available. 10. Verify that the schedule now starts from new look back period. (Tri-223202)

Area of Impact	Description
Real Estate Asset Lease Real Estate Lease	The System Geography and System Organization on non-partial payment line items was blank because they were created through scheduled events by System user. This can be fixed by mapping the System Geography. System Organization and System Location from the parent Real Estate Lease, Asset Lease or Owned Property (Fee) Agreement record to the non-partial payment line items through workflow. You can use a new patch helper workflow "Patchhelper = triPatchHelper - triCalculate - 10.5.1 - Update Geography and Organization on Payment Line Items" to update System Organization and System Geography from the parent Real Estate Lease, Asset Lease, or Owned Property (Fee) Agreement record to the existing payment line items. (Tri-219004-IV84872)
System Setup	To avoid having records with identical published names, which would cause problems when creating an OM package, the published names of Data Load Sets business objects are changed from 'Name' to 'ID-Name'. Also, the original name of the Data Load Sets records have been appended with an '- Data Load Set' string. To fix the Data Load Sets records, you must run the "triPatchHelper - triCalculate - PRE 10.5.1 - FIX DATA LOAD SET RECORDS" patch helper. For instructions on how to run the patch helper, see the IBM TRIRIGA 10.5.1 Patch Helper section of this document. (Tri-226599)

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
Globalization	Charts, Gantt sections, and metric reports are not mirrored when displayed to users with their language preference set to a mirrored language. (Tri-223861; Tri-214603)
Real Estate Asset Lease Real Estate Lease	Fair Market Value on Real Estate Lease, Asset Lease and Review assumptions cannot be entered as a negative value. Negative value will give incorrect results in the Amortization schedule, Operating/Finance schedule. (Tri-212265)
Real Estate Asset Lease Real Estate Lease	In 10.5.1, Operating/Finance schedules are supported for payment schedules with frequency="Monthly". The Operating/Finance schedule works for non-monthly frequency (Quarterly, Semi Annually) in cases where the Accounting End date is equal to the Likely expiration date. Full support of non-monthly frequency for Operating/Finance leases will be considered as an enhancement in a future release.

Area of Impact	Description
Real Estate Asset Lease Real Estate Lease	Tenant incentives (past and future), initial direct cost, and rental prepayment are correctly updated to the asset value at the inception of the lease. The initial direct costs and rental prepayment are added to the asset value, whereas the tenant incentives are deducted. The additional rent expense is calculated correctly up to this point. A limitation, however, exists that when the lease goes through initial adoption, the additional rent expense value for each fiscal period still takes into account the full value of the initial direct costs, rental prepayment, and the tenant incentive instead of correctly including these changes. Rather, it should only take into account the leftover value from the start of the operating/finance schedule. Support for running an initial adoption that correctly includes tenant incentives, initial direct cost, and rental prepayment will be considered as an enhancement in a future release.
Navigation	When you render navigation items with names that contain a forward slash, an issue occurs on certain browsers. This is a platform limitation. Application version 10.5.1 no longer includes the forward slash special character in navigation item names. (Tri-224586)
UX Framework	All app buttons in Internet Explorer 11 show dotted lines around them due to a known limitation in Internet Explorer 11.
UX Framework	The latest changes in Space Management do not appear in corresponding tabs when the user switches tabs ("In Progress", "Pending Review"). To view the changes, you can refresh the browser to see the new assessment or logout and log back in. (Tri-203978)
UX Framework	The Space apps in the UX framework exhibit UI issues such as text overlap if you load the apps on a tablet device horizontally and then rotate it to portrait. The apps view properly if they are loaded initially in portrait. (Tri-201906)
UX Framework	When a Space Assessment user adds a person or asset to a space, they have the option to filter through records they have access to. When the user filters, the selected record is not maintained correctly. For example, the user selects Alex who is the 1st person on the list. The user then filters the list to look for Zach. The first result is Zach and it is highlighted. The user taps "Done" and in the Assigned People list for the selected space but notices that Alex was added instead of Zach, even though Zach was the last record that showed as selected before tapping "Done". The workaround for this is to tap the record you want to select if you didn't see it previously unselected. This issue is caused by a known underlying Google Polymer issue with iron-selector. (Tri-197048)
UX Framework	When a new assessment is created from Space Management, it will not appear on the "In Progress" tab as it should. To display the new assessment, refresh the browser or logout and log back in. (Tri-203938)

IBM TRIRIGA 10.5.1 Changes

The following changes to IBM TRIRIGA are in this release:

Area of Change	Description
Assets	On an Asset record, the Warranty Status field and Warranty Status Color field on Asset record are cleared if all the associated Warranty records are retired. (Tri-205261-IV79703)
Classifications	In the Description field, a typographical error was corrected in the following survey responses classification records: Survey Responses, Excellent, Fair, Good, Poor. (Tri-204745)
Classifications	The Business Object field of Checklist Type Classification records has a typographical error. This field is correct in new installations. Upgrading customers can fix the issue in an environment by running the following SQL. UPDATE t_triChecklistType SET triBusinessObjectLabel='Checklist Type', triBusinessObjectLabel2='Checklist Type' WHERE triBusinessObjectLabel = 'Checklist Type'; (Tri-204682)

Classifications	The Fiscal Year classification records from year 2015 to 2018 have the incorrect start and end dates. The start date is now January 1 of the year and the end date is December 31 of the year. The Fiscal Quarter classification records from year 2015-Q1 to 2021-Q4 have the incorrect start and end dates. There are now correct start and end dates for the following quarters:
	    - First quarter starts January 1 of the year and ends March 31 of the year.
	    - Second quarter starts April 1 of the year and ends June 30 of the year.
	    - Third quarter starts July 1 of the year and ends September 30 of the year.
	    - Last quarter starts October 1 of the year and ends December 31 of the year.
	(Tri-212967)

Area of Change	Description
Gantt	In the Gantt sections of the following forms, the Open Gantt In New Window action is not applicable for new HTML5/JavaScript Gantt functionality. This action is now hidden and not visible by default. **Form Name** **Form Section Name** triCapitalProject triGantt triCapitalProjectTemplate triGantt triFacilitiesProject triGantt triFacilitiesProjectTemplate triGantt triMaintenanceManager triGantt triREProjectAcquisition triGantt triREProjectCurrentTerms triGantt triREProjectDisposition triGantt triREProjectExpiration triGantt triREProjectLease triGantt triREProjectSubLease triGantt triREProjectTemplate triGantt triREProjectTermination triGantt triRETransactionPlan triGantt triRETransactionPlanTemplate triGantt triResourceManager triGantt triMovePlanner triMoveProjectTaskGantt triMovePlanner triMoveProjectsGantt triProgram triProjectGantt triProgram triTaskGantt (Tri-221837)
Globalization	In Space Assessment and Space Management, the period at the end of a sentence is now positioned correctly for bidirectional language users. (Tri-204353)
Inventory	The Quantity was not mapped correctly on Quick Fill ticket, Inventory item, Purchase Order and Purchase Requisition records because of the mismatch with mapping of Quantity UOM Type and Value on these forms. TRIRIGA now maps the UOM Type and UOM Value correctly from Inventory Items to all other forms. (Tri-215585-IV82542)
Lists	The list value on triDbDriverName was changed from oracle.jdbc.driver.OracleDriver to oracle.jdbc.OracleDriver. Note: Because this change was made to an existing list value, the 10.5.1 object migration package creates a new value in your environment instead of replacing the old value. You can manually delete the old value from List Manager. (Tri-214444)

Area of Change	Description
Locations	The informational text for Total Contract Rentable and Sub Lease Rentable fields under Contractual (Leased) Area Details section of Area Measurements tab of Building record is incorrectly defined based on the Accounts Payable (AP) or Accounts Receivable (AR) lease accounting type. The informational text is corrected to reflect all leases. Informational text is changed for Total Contract Rentable to "Total of All Leases Associated to Building" and for Sub Lease Rentable to "Total of All Income Leases Associated to Building". (Tri-208127)
Locations	The Occupancy Status on Space record is displaying an incorrect value due to the large decimal value for Seats Allocated in database. The workflow has been fixed to round the value for Seats Allocated in order to display the Occupancy Status correctly. (Tri-216921)
Locations	When the Proration Rule is selected as Balance To Contract on Area Measurements tab of Building record, the Contractual (Leased) Area Details section is hidden if the "X" is selected to Cancel the record. The workflow fired on "X" to cancel does not have the logic to show or hide the section based on value selected for the Proration Rule field. The workflow has been fixed to show or hide the Contractual (Leased) Area Details section when "X" is selected. (Tri-215433)
Maintenance	The Find, Remove, and Upload actions under Related Documents section on Notes & Documents tab of Lock-Out / Tag-Out Procedure record was not displaying or removing records because of an incorrect Association Type selected for the section on the form. The Association Type has been corrected to display/remove the records selected through Find, Remove, and Upload actions. (Tri-205343)
Notifications	Fields in the Notification Content form Details section now align correctly. (Tri-204046)
Object Migration	Two warnings that occurred during the validation of the object migration package were fixed. (Tri-216267)
Password	In the description of the triPasswordReminder001 notification content record, the reference of the Expiration Date field incorrectly showed Password but now shows Date. In addition, the word Tririga on the triPasswordChange001 and the triPasswordReminder001 notification content records was changed to TRIRIGA. (Tri-214203)
Password	Resolved an issue where a new employee record with Initial Pwd Reset flag checked was not prompted to change his password if the record was revised and re-activated after making changes because the workflow logic did not check whether the user had changed the password or not before ignoring the password change process. The workflow logic has been changed to prompt the user to change their password. If initial password reset is set for the user profile,the user needs to reset password upon 1st login. Even if the user record is updated multiple times, the user will still be presented with password reset. Once the password reset is complete, upon subsequent login user will not be prompted for password reset. (Tri-216425-IV82640)

Area of Change	Description
Password	Resolved an issue where the Event Start Date on the Password Reminder Event record associated to the My Profile record was displaying an incorrect date value when the Password Expiration Duration is set as 1Month. This error was caused due to the incorrect formula mapping in the workflow. The workflow mapping has been changed to display the Event Start Date correctly when the Password Expiration Duration is set to 1Month. (Tri-216413-IV82639)
Projects	The "triCapitalProject - Synchronous - Get Critical Path Tasks" workflow has been retired to support new Gantt functionality. Also, removed the call workflow task "Call Get Critical Path Tasks" of this workflow from "triCapitalProject - Synchronous - Permanent Save Validation" workflow. (Tri-222959)
Projects	The task types visible in the Gantt section on the Schedule tab of the following Project forms were altered to display task types that are related to the Projects License only: triCapitalProject, triCapitalProjectTemplate, triFacilitiesProject, triFacilitiesProjectTemplate, triREProjectAcquisition, triREProjectCurrentTerms, triREProjectDisposition, triREProjectExpiration, triREProjectLease, triREProjectSubLease, triREProjectTermination, triREProjectTemplate, triRETransactionPlan, triRETransactionPlanTemplate (Tri-222477)
Projects	When a Funding Request record with the Request For field set to Program Funding was completed, the new Program record was not created as expected. The call workflow task responsible for creating the Program record was blank. The task was fixed to call the workflow that creates the Program record. Also, TRIRIGA Program Manager security group now has access to the Find action on Fund Allocations action form opened from Program or Funding Request records. (Tri-222306-IV84393)
Real Estate Asset Lease Real Estate Lease	A lease with payment schedules with partial first payment and partial last payment that spans across two payment schedules is now populating with the correct amount. On the Payments subtab, the total rent payments for the payment line items now equal the Net Rent Payments column total for the fiscal line items under Schedule Straight Line section on the Accounting tab. (Tri-205152)
Real Estate Asset Lease	Actions are now consistent between Real Estate Lease manager queries and Asset Lease manager queries. (Tri-212588)
Real Estate Asset Lease Real Estate Lease	An issue was resolved where the parent lease was read only and the actions were unavailable after canceling the Assumption Audit Log form when an Attention! message displays. (Tri-220802)
Real Estate Real Estate Abstract Real Estate Lease	Assumption Audit log will no longer be auto generated from the completed lease abstract to the real estate lease since the Accounting tab has been removed on the lease abstract form. (Tri-226467)
Real Estate	For Quarterly payments, when a lease is amended and extended, the total net rent payment on the Straight-line/Amortization schedules and Finance/Operating schedules now matches the total of the payments. (Tri-213384)

Area of Change	Description
Asset Lease Real Estate Lease	
Real Estate Real Estate Lease	For Real Estate Lease, to inform a user that a payment schedule is required when the Clause Type is Percentage Rent or the clause is Payment Auditable, the label message, "A payment schedule must be created on the Payments tab of the lease before you can create the clause.", will be displayed near both the Clause Type and Payment Auditable fields. (Tri-216139)
Real Estate Asset Lease Real Estate Lease	For Stop Payments and Void Payments forms, filters for Accounting Type and Due Date are added to the Payments query section 'Find' action pop up. The Payments query on the General tab have some changes as well. Filters for Accounting Type and Due Date are added. Contract Name, Expected Amount and Actual Amount columns are now showing in the query instead of under Show More Filters. Asset lease payment line items now display in the Payments query. Expected Cash with Tax column is removed. (Tri-205169)
Real Estate Real Estate Abstract	Generate Payment Schedules and Remove actions are now available on the Rent and Other Payment Schedules tabs on the Lease Abstract for the TRIRIGA RE Contract Manager security group. (Tri-222075)
Real Estate Real Estate Lease	If an Index Adjustment Calculator record is revised and modified, on issue the system will revert the initial adjustment and apply the new amount. (Tri-218514)
Real Estate Asset Lease Real Estate Lease	In the Amortization Schedule section, the initial direct costs and prepayments are now included in the Asset value and not the Liability value. (Tri-216039)
Real Estate Asset Lease Real Estate Lease	Non-Rent summary type values are summarized in the schedule summary of the Lease along with capturing non-rent expenses on Finance and Operating Fiscal line item for each fiscal period.
Real Estate Asset Lease Real Estate Lease	On a contract, the Attention message for the validation check on dates of Payment Schedules was corrected. Previously, the grammar was incorrect. (Tri-203933)
Real Estate Asset Lease Owned Property (Fee) Agreement Real Estate Abstract Real Estate Lease	On a payment schedule, when the From Date is after the To Date (Start Date and End Date), an attention message will display. For example, the message will say, "The start date (01/01/2016) must be equal to or before the end date (12/31/2015). Please update." (Tri-204277)
Real Estate	On the Amortization Schedule and the Operating/Finance schedule, the principal is now zero for free rent periods. (Tri-214282-IV82464)

Area of Change	Description
Asset Lease Real Estate Lease	
Real Estate Asset Lease Owned Property (Fee) Agreement Real Estate Abstract Real Estate Lease	On the Generate Payment Schedule form, the Payment Due Day now defaults to the Period Start Date value for the Specific Quarterly (Location Specific) frequency. (Tri-205127)
Real Estate Asset Lease Owned Property (Fee) Agreement Real Estate Abstract Real Estate Lease	On the Generate Payment Schedule form, the Payment Due Day now defaults to the Period Start Date value for the Specific Quarterly (Location Specific) frequency. (Tri-205127)
Real Estate Real Estate Abstract	On the Lease Abstract business object, the UOM Source Attribute for the Contract Rentable (Imperial) field, Contract Usable (Metric) field, and the Contract Usable (Imperial) field was cleared. The values now appear in square-feet and square-meters. (Tri-208024-IV80079)
Real Estate Owned Property (Fee) Agreement	On the REContract Revision pop-up action form for a revise amendment, the Attention! message for recalculating amortization, straight-line schedules, and net present value no longer displays for an Owned Property (Fee) Agreement record. Accounting tab and amortization does not apply to an owned property. (Tri-217740)
Real Estate Asset Lease Owned Property (Fee) Agreement Real Estate Abstract Real Estate Lease	On the System tab, if you have system organization, system geography, and/or system location populated and linked to a security group with system organization and/or system geography set, you now have access to the Generate Payment Schedule form after you select the Create Schedule(s) action on the form. (Tri-221776)
Real Estate Asset Lease Real Estate Lease	Read-only Rent Daily Rate and Rent Monthly Rate fields can now display existing payment schedules by running the patch helper triPatchHelper - triCalculate - 10.5.1 - Retro Payment Schedules Show Rent Daily and Rent Monthly Rates. (Tri-204535)
Real Estate Asset Lease Real Estate Lease	Real estate and asset lease records with the Revision in Progress status no longer have the Review Assumption action. (Tri-222619)
Real Estate Owned Property (Fee) Agreement	Rent Monthly Rate field is now hidden on the Payment Schedule form for the Owned Property (Fee) Agreement record. Rent Daily Rate was already hidden. The two fields show only when the associated contract is a real estate lease or asset lease and the Summary Type = Rent on the payment schedule. (Tri-203812)

Area of Change	Description
Real Estate Asset Lease	Resolved an issue where the Contract ID and Contract Name of Asset Leases with Index Adjustment was not displaying for "All Scheduled Index Adjustments" and "All Completed Index Adjustments" Navigation Item queries. This was due to the RE Lease fields selected for display in the query. The query now displays the Contract ID and Contract Name of both Asset Lease and Real Estate Lease. (Tri-219394-IV83540)
Real Estate Asset Lease Real Estate Lease	Short-term lease and payment schedules with partial payments are no longer stuck in Status = Processing. Payment line items and fiscal line items totals now match on the lease. (Tri-224667)
Real Estate Real Estate Lease Asset Lease	The Accounting Standard is now correctly copied from the lease to the history record during revision. (Tri-219596)
Real Estate Real Estate Abstract	The Accounting tab is removed from the Lease Abstract and Lease Abstract Template forms. Accounting data should be entered on the Accounting tab of the Real Estate Lease or Asset Lease. (Tri-215287)
Real Estate Real Estate Lease	The Additional Rent Expense added for Tenant Improvement, Initial Direct Costs, and Prepayments is now being netted against the Amortization (Depreciation) instead of the Likely Term Rent Straight Line. (Tri-220285)
Real Estate Real Estate Transactions	The RE Project Lease is not linked and displayed under the Related Transactions section of the History tab of the Real Estate Lease even if the Real Estate Lease is created from the RE Project Lease to Lease Abstract to Real Estate Lease process flow. This issue is caused because the workflow did not create the association between these records. The workflow has been fixed to form the association and display the RE Project Lease under the Related Transactions section of History tab of Real Estate Lease. (Tri-219784-IV83656)
Real Estate Asset Lease Real Estate Lease	When adjusting payments for a payment schedule we now allow adjust amount to be lower than the payment schedule amount. In paid case this may result in a negative Retroactive One Time payment line item. (Tri-222675)
Real Estate Asset Lease Real Estate Lease	When payments for quarterly schedules are generated, the start and end dates on the payment line item are now correctly set. As a result, the rent payments on the Payment tab now equal the net rent expense on the Accounting tab. (Tri-216423-IV82706)
Real Estate Asset Lease Real Estate Lease	When the database is using time zone 1 to create a lease with payment schedules and then the lease is activated with the database changed to use time zone 2, the payment schedules and lease are no longer stuck in processing. (Tri-223604)

Area of Change	Description
Real Estate Real Estate Lease	When the real estate lease Currency = Euro, the Sales Reporting Details, Sales Exclusions, and Allowable Deductions on the percentage rent lease clause now display in Euro. After the lease is activated, the generated Percentage Rent Reporting record, including Sales, Sales Exclusion, Deductions, and Percentage Rent Detail Summary are now in Euro. (Tri-166506)
Reporting	In a Clean SQL environment, the following User Load and License Usage BIRT reports were rendering with errors: Hourly License Usage Report for Selected Day, Hourly User Load Report for Selected Day, Daily License Usage Report for Selected Month, Daily User Load Report for Selected Month, Monthly License Usage Report for Selected Year, Monthly User Load Report for Selected Year. The issue was resolved and will render correctly without displaying any errors. (Tri-208792-IV80305)
Reporting	The currency conversion on "triRealEstateContract - BIRT - Future Rent Obligations Detail" BIRT report displays a 0 value when converting from USD to other currencies. This has been fixed to display the conversion value correctly when converted from USD to other currencies. (Tri-215883)
Reporting	The following test reports were removed from the Report Manager: get attributes from energyspace, estar locationEnergySpace from rating. Note for upgrading customers: Although the existing reports were deleted, the 10.5.1 Object Migration package does not delete the reports in your environment. You can manually delete these reports from the Report Manager. (Tri-220190)
Reporting	The following User Load BIRT reports did not render data in an SQL Server database environment because the reports contained SQL statements that were not in uppercase: Hourly User Load Report for Selected Day, Daily User Load Report for Selected Month, and Monthly User Load Report for Selected Year. The SQL statements on the reports were changed to uppercase and the data now displays correctly. (Tri-214244)
Reporting	The license parameter on the following License Usage BIRT reports in an SQL Server database environment was blank because the reports contained SQL statements that were not in uppercase: Hourly License Usage Report for Selected Day, Daily License Usage Report for Selected Month, and Monthly License Usage Report for Selected Year. The SQL statements on these reports were changed to uppercase to display the License parameter list. (Tri-212229-IV81356)
Requests	Resolved an issue where the "triServiceRequest - Completed" Notification Content record had invalid fields selected on Embedded Content Report. As a result, a notification with the wrong message was displayed. A Request Notification Complete document available under "Request" folder is modified to use the correct fields from triServiceRequest BO. The notification now shows the correct message. (Tri-207528-IV79919)
Security	Deletion of the Admin Group from the Security Manager is no longer allowed. (Tri-214583)

Area of Change	Description
Security	The Lease Accountant security group now has the Generate Payment Schedules and Remove actions available on the Rent Schedules, Commission Schedules and Other Payment Schedules tabs of the Lease Abstract. (Tri-222032)
Security	The TRIRIGA Lease Accountant security group is granted access to the Update Payment Instruction action on the Payments tab Payment Instructions sub-tab. (Tri-212590)
Security	The TRIRIGA Lease Accountant security group no longer has access to the Expire and Terminate actions on real estate lease and asset lease forms. (Tri-212129)
Security	The TRIRIGA Lease Accountant security group now has access to Calculate Lease Treatment action for IFRS Treatment on Real Estate Lease. (Tri-212111)
Security	The TRIRIGA Lease Accountant security group was modified to have access to Add Person and Add Status actions on the Notifications tab of the Assumption Audit Log form. (Tri-212133)
Space Assessment	An issue in Firefox on highlighting the row in focus under the list view of Space Assessment has been fixed. The focused row now has a background color of light blue. (Tri-203422)
Space Assessment	In a space assessment, the height of the search box was increased so that the bottoms of the letters in non-US English languages display fully. (Tri-205386)
Space Assessment	In Space Assessment, fields display in one column as consecutive rows and are distinguished by their respective labels when the width of the screen is less than 769px. Otherwise, they will display in multiple columns as before. In addition, if the width of the screen is greater than 1250px and the space name is longer than 25 characters, trailing ellipsis (...) will display after the 25th character. If the width of the screen is between 769px and 1249px and the space name is longer than 15 characters, trailing ellipsis (...) will be display after the 15th character. If the width of the screen is less than 769px and the space name is longer than 25 characters, trailing ellipsis (...) will display after the 25th character. (Tri-207976)
Space Assessment	Previously, when you upgraded to Chrome version 48.0.2564.97 or above, the Assessment Details tab on the walk-through page would not display. Now the Assessment Details tab on the walk-through page displays. (Tri-213272)
Space Assessment	Resolved an issue in the Space Assessment application where elements and iron-collapse with the WAI-ARIA role group and main role were not labeled with unique labels, so a screen reader would not announce the fields. (Tri-203518)
Space Assessment	When the width of the screen is less than 1023px, fields in Space Assessment are displayed in one column in consecutive rows distinguished by their respective labels. Otherwise, they are displayed in multiple columns as in previous versions of TRIRIGA. In addition, when the space name is in a word longer than 25 characters, a trailing ellipsis (...) results. (Tri-205510)

Area of Change	Description
Space Management	The width of the selection pane in Space Management was increased to accommodate non-US English languages. (Tri-205750)
Space Manager	In the Space Manager, the prorated area is now correctly calculated when you change the Space Class. (Tri-207215-IV80117)
System Setup	The Copy action is removed from the People Template form and the People Templates - Template (triPeopleTemplate - triTemplate - Editable) related report. A runtime filter is added to the Status column on the People Templates - Retired related report to be consistent with other related reports. (Tri-184510)
System Setup	The Notification records with temporary password were viewable to all TRIRIGA users. A workflow was created to delete the Notification record with temporary password after sending out an email Notification with temporary password. (Tri-222136-IV84740)
System Setup	The Resolved Review Type on the following Approval Rule records is "By Rule". There is no functionality in place to use this value. The Resolved Review Type on 8 records has been changed to use a default value of "Manual". 1. Prime Contract Template 2. Submittal Template 001 3. Signage Submittal Approval 4. REContract Approval Template 5. Potential Change Order Template 6. Purchase Order Template 7. Blanket Purchase Order Template 8. Purchase Requisition Template Run patchhelper workflow "triPatchHelper - triCalculate - 10.5.1 - Retro Approval Rule records with Resolved Review Type as By Rule". (Tri-213993)
Workplace Reservation Manager	The issue was if user tries to open reservation occurrences after the meeting has started, those occurrences that are outside service windows will open in read only mode. With the fix, user can open any future reservation and can edit/cancel the reservation irrespective of whether reservation is within service wake up duration or outside service wakeup duration (Tri-221740-IV84132)
Workplace Reservation Manager	The Room Usage amount on Reservation record displayed an incorrect value when the duration between the start date and the end date was more than 30 days. The error was due to the incorrect formula mapping in the workflow. The workflow mapping is now changed to display the Room Usage amount correctly when the duration between start date and end date is more than 30 days. (Tri-192775-IV80570)

IBM TRIRIGA 10.5.1 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 - 10.5.1 - Retro Approval Rule records with Resolved Review Type as By Rule	Use this patch helper to update existing Approval Rule records when the resolved review type is "By Rule". The patch helper sets the type to "Manual".
triPatchHelper - triCalculate - 10.5.1 - Retro My Profile Records	Use this patch helper to fix the My Profile records with incorrect Event Start Date on associated Password Reminder Event records.
triPatchHelper - triCalculate - 10.5.1 - Retro Leases To Set Estimated Fair Market Value	Use this patch helper to default the new Fair Market Value (triEstFairMarketValueNU) field in the Lease Classification section on the Accounting tab from existing leases. The field gets the value from either the Fair Market Value field that is defined in either the FASB or IFRS Treatment section.
triPatchHelper - triCalculate - 10.5.1 - Retro Payment Schedules Show Rent Daily and Rent Monthly Rates	Use this patch helper to display read-only Rent Daily Rate and Rent Monthly Rate fields for existing payment schedules.
triPatchHelper - triCalculate - PRE 10.5.1 - FIX DATA LOAD SET RECORDS	Use this patch helper to fix existing Data Load Set records. This patch helper is required for all users. To run the patch helper, use the following steps: Step 1 - Change the publish name for the BO: triDataLoadSet Module: triDataLoad Publish name: ID (triIdTX) - Name(triNameTX) Step 2 - Import the Patch helper text file with a special string Module: triHelper BO :triPatchHelper File: PatchHelper_FIX DATA LOAD SET RECORDS.txt Step 3 - The Patch helper workflow will trigger automatically after Step 2. Workflow : triPatchHelper - triCalculate - PRE 10.5.1 - FIX DATA LOAD SET RECORDS Step 4 - Verify records by running the query. triDataLoadSet - PatchHelper - Data Load Set Records (Tri-226641)

Name	Description
triPatchHelper - triCalculate - 10.5.1 - Set Lease Fiscal Line Items as Corporate Reporting	Use this patch helper to stamp Fiscal Line Item Type to Corporate Reporting.
triPatchHelper - triCalculate - 10.5.1 ACCOUNTING STANDARD - Retro Leases without Accounting Standard Set	Use this patch helper to update existing Real Estate and Asset Lease records that do not have the Accounting Standard field populated. Any blank Accounting Standard fields will be populated with the Default Accounting Standard value from the Application Settings. To run this patch helper, use the string "10.5.1. ACCOUNTING STANDARD".
triPatchHelper - triCalculate - 10.5.1 - Retro Lease Classification on Accounting Tab	Use this patch helper to update existing Real Estate and Asset Lease records from Lease Classification from Type A and Type B to Finance and Operating.
triPatchHelper - triCalculate - 10.5.1 - Update Geography and Organization on Payment Line Items	Use this patch helper to update System Organization and System Geography from the parent Real Estate Lease, Asset Lease, or Owned Property (Fee) Agreement record to the existing payment line items which have blank system organization and system geography fields. (Tri-219004)
triPatchHelper - triCalculate - 10.5.1 - Retro Leases for FASB and IASB New Adoption Questions	Use this patch helper to update/default the new adoption questions for the Accounting Standards GAAP (FASB) and IFRS (IASB).

IBM TRIRIGA 10.5.0 Enhancements

The following enhancements to IBM TRIRIGA are in this release:

Area of Impact	Description
Perceptive Applications	The following perceptive applications have been added: **Space Assessment app** By using this Perceptive application on your tablet device, you can easily create an assessment for a floor plan, select a space, add or remove people or assets from that space, and go to the next space. **Space Management app** By using this Perceptive application on your tablet device or desktop, you can easily review completed assessments, accept or reject any suggested actions for a space, and go to the next space.

Area of Impact	Description
Real Estate Asset Lease Real Estate Lease	IBM TRIRIGA now uses the payment type "Rent" payment instruction for a One Time Payment (payment line item) generated from the Percentage Rent Reporting record. When creating the Payment Voucher, TRIRIGA now uses the Rent Payment Instruction to create the voucher. Assumptions include: A rent payment schedule will exist covering to the end of the lease period. Customer wants percentage rent payment to go to the same organization as rent payment. If the due date of the generated percentage rent payment line item does not fall within the rent payment instruction dates, the last percentage rent reporting record processed at the end of the lease will extend the last payment instruction for rent. (Tri-186917-IV76941)
Real Estate Asset Lease Real Estate Lease	On the lease form, on the Accounting tab, the Balance Sheet Effect – Operating vs. Type A section and the Balance Sheet Effect – Operating vs. Type B section are now visible.
Real Estate Asset Lease Owned Property (Fee) Agreement Real Estate Abstract Real Estate Lease	Support has been added for the following types of calculations: Partial payment calculations for special location specific quarters Partial payment calculations for annual and semi-annual frequencies Retail monthly frequency net rent calculations enhancements for straight-lining Adjust payment for general clauses and options Lease Accounting chart enhancements Straight-lining enhancements for non-monthly frequencies See the IBM TRIRIGA wiki for information about best practices for lease accounting with IBM TRIRIGA.
Reporting	There are six reports created to capture the information of the user load and license usage in the system. Hourly License Usage Report for Selected Day Hourly User Load Report for Selected Day Daily License Usage Report for Selected Month Daily User Load Report for Selected Month Monthly License Usage Report for Selected Year Monthly User Load Report for Selected Year (Tri-197225)

IBM TRIRIGA 10.5.0 Changes

The following changes to IBM TRIRIGA are in this release:

Area of Change	Description
Assets	The service spec now shows correctly associated services under Services tab > Services sub tab. (Tri-189722)
Assets	The Warranty record is de-associated from an Asset if the associated Specification does not have a Warranty on it. (Tri-191767-IV77011)
Classifications	On the Space Class Current classifications, the user can now select either Exclude from Usable or Exclude from Rentable. (Tri-174233)
Data Load	In the Data Load application, there are no longer any duplicate values on the List, Classification, and Locator sheets on data load spreadsheets. (Tri-176593)
Document Management	The field size of DM_FILE_TYPE is increased in the Document business object in the Document module to 150. (Tri-190247)
Graphics	Fixed an issue where a Graphic section in a Supply Floor record did not render correctly. (Tri-188218)
Locations	The Space Rollup Summary BIRT reports used on Property, Building, and Floor records no longer return null errors when there are no child records. (Tri-183381-IV75374)
Maintenance	The Copy action on all five procedure forms - Inspection, Lock-Out / Tag-Out, Safety Hazards, Safety Procedures, and Work now copy all the information from original record to copy record. Also, the Copy action is no longer available on Procedure Step form. (Tri-176531-IV73922)
Maintenance	When Reading Class is selected on the Procedure Step record, the Reading Units will be updated with the Default Reading Units set up in the PM Reading Class Classification record. Also, the Reading Units are defaulted to blank for a new Procedure Step record. (Tri-176537-IV74218)
Mobile - Work Task Management	Two issues related to time entry were resolved: 1. When a time log is created in a mobile app, Actual start date is updated in the Work task > General tab > Actual section > Actual field. Before the fix, Actual field was updated only when work task was completed. Now, as soon as the first time log is created in mobile app, the Actual field is updated. 2. When a time log is created from mobile and a work task is completed, the Actual Duration in the work task is updated correctly (End time- start time). (Tri-185832-IV75726)
Real Estate Asset Lease Real Estate Lease	A lease that includes payment schedules with partial first payment and partial last payment that span across two payment schedules now populates with the correct amount. Total rent payments for the payment line items on the Payments sub tab now equal the Net Rent Payments column total for the fiscal line items under Schedule Straight Line section on the Accounting tab. (Tri-205152)

Area of Change	Description
Real Estate Asset Lease	Asset Lease-Bypass Date Gap Validation Attention! message now displays on the Assets and Clauses, Options & Terms tabs when the user attempts to Activate an Asset Lease with invalid dates. (Tri-139006)
Real Estate Asset Lease Real Estate Lease Owned Property (Fee) Agreement Real Estate Abstract	Existing Quarterly payment schedules that were created prior to the 10.4.2 release did not have the Calculation Method set. The Calculation Method can nowbe set to Daily by running triPatchHelper - triCalculate - 10.5 - Retro Quarterly Payment Schedule. (Tri-204361)
Real Estate Asset Lease Owned Property (Fee) Agreement Real Estate Abstract Real Estate Lease	Field alignment of the Payment Due On, Current Period Start Date, and Calculation Method fields for Quarterly schedules that were created prior to 10.4.2 was not correct. This issue can be fixed by running the 10.5 Patch helper WF : triPatchHelper - triCalculate - 10.5 - Retro Quarterly Payment Schedule. (Tri-204360)
Real Estate Asset Lease Owned Property (Fee) Agreement Real Estate Lease	Fixed an issue where a lease or owned property record might get stuck in processing status if there was a combination of monthly and non-monthly payment schedules associated and the system processed the non-monthly schedules first before processing the monthly schedules. (Tri-204975)
Real Estate Asset Lease Owned Property (Fee) Agreement Real Estate Abstract Real Estate Lease	For existing Frequency = Other payment schedules created prior to 10.4.2 release, the Payment Due On, Current Period Start Date, and Calculation Method were not hidden. The fields can now be hidden by running triPatchHelper - triCalculate - 10.5 - Retro Other Payment Schedule. (Tri-204331)
Real Estate Asset Lease Owned Property (Fee) Agreement Real Estate Lease	On Payment Adjustment, the message displayed when the user attempts to enter an Adjust Amount less than the Expected Cash Before Tax is now translated. (Tri-172858)
Real Estate Asset Lease Real Estate Lease	On Stop and Void Payment, the Payment section Find query was fixed to display the Contract name for payment line items associated to Asset Lease records. (Tri-172189)
Real Estate Asset Lease Owned Property (Fee) Agreement	Payment Due On, Current Period Start Date, and Calculation Method are now hidden on monthly payment schedules. Payment Due Day field is realigned. Field display is fixed by running triPatchHelper - triCalculate - 10.5 - Retro Monthly Pending Payment Schedules Hide/Show. (Tri-190261)

Area of Change	Description
Real Estate Abstract Real Estate Lease	
Real Estate Asset Lease Owned Property (Fee) Agreement Real Estate Abstract Real Estate Lease	Payment Schedules created from Generate Payment Schedule now default the Accounting Type to Accounts Payable (AP) regardless of the accounting type that is set on the General tab of the parent record. (Tri-196375-IV78805)
Real Estate Asset Lease Real Estate Lease	The monthly rate/daily rate required for straight-lining are now calculated based on payment schedules that are between Accounting Start/End Date. (Tri-191946)
Real Estate Asset Lease Real Estate Lease	The storage precision on the fields triCurrentTermSLRentNU and triRentSLExpenseNU in the triFiscalLineItem Business Object is changed to six so that the Impact Report displays properly. (Tri-204153)
Real Estate Asset Lease Real Estate Lease	The straight line schedule on the Accounting tab is no longer generated after a payment adjustment splits a payment schedule that has the Include In Amortization Schedule check box unchecked. (Tri-173255)
Reporting	Added condition to handle Base Currency for Future Rent Obligation and Future Rent Obligation for Asset Lease. (Tri-159395)
Reporting	Corrected an issue where the related report section on a metric report was not correctly filtered when a different Capture Period was selected. (Tri-135346-IV73045)
Reporting	Corrected an issue where the Year range was limited on the following reports: Location - BIRT - Emissions Report Location - BIRT - Environmental Impact Report Location - BIRT - Environmental Summary Report (Tri-183158)
Reporting	On the Funding Analysis Summary report, changed the initial FCI condition to the value defined by the user when zero and fixed the second column to the FCI value. (Tri-191345)
Reporting	Resolved an issue that caused charts to not group correctly. The Group By column has been removed from Order By section in the following chart reports: triAccidentReport - Portal - Aggregate Accident Reports grouped by Status triSpace - Space Occupancy Status by Building triCapitalProject - Aggregate Capital Project Budget, Invoiced, Forecast for PM triCapitalProject - Aggregate Projects grouped by Type where Manager equals to Joe Black triSpace - Space records of Seat Capacity per Building (Summary) triNoticetoComplyAdmin - Graph of Notices to Comply grouped by To Organization triSpace - Space records of Seat Capacity per Building by Space Class

Area of Change	Description
	triBuildingSystemItem - Graph - Percent of Building Cost triBuildingSystemItem - Graph - Replacement Cost triBuilding by Tenure - Pie Chart triBuildingSystemItem - Graph - Risk Rating - All Items triBuildingSystemItem - Graph - Condition Rating - All Items t riSurvey - Graph - Move and Service Satisfaction - Overall triTask - Graph - Open Tasks by Current Status triRequest - triOrganization - Active Service Requests by Type (Graph) triBuilding - Building records of Seat Capacity per Building (Summary) triBuildingSystemItem - Graph - Risk Rating triBuildingSystemItem - Graph - Replacement Cost - All Items triBuildingSystemItem - Graph - Condition Rating triRealEstateLease - Portal - Lease by Lease Type triServiceSurvey - Graph - Customer Service Satisfaction - Overall triRealEstateLease - Portal - Lease by Status pie graph triBuildingSystemItem - Graph - Percent of Building Cost - All Items (Tri-187618-IV76022)
Reporting	The BIRT report "triBuilding - BIRT - Building System Summary" is removed from Report Manager.You can choose to manually remove this report from My Reports in your environment. The intention of this BIRT report is to be run from Reports tab of a Building record and not from Report Manager. (Tri-185950)
Reporting	The Cost Base and Savings Base fields are now displayed on the Opportunities section of the Analyze Opportunities form. Also, the Total Estimated Cost and Total Estimated Savings fields under the Totals for Selected Opportunities section display the total of base fields from Opportunities query section. (Tri-187663)
Reporting	The currency conversion on the following BIRT reports is now working as expected: ARAgingReport AllFutureLeaseObligationReport ARAgingForAssetLeaseReport ARREContractPaymentDetailsForAssetLeaseReport ContractPaymentDetailsReport FutureARPaymentsForAssetLeaseReport FutureARPaymentsReport FutureRentObligationDetailForAssetLeaseReport PortfolioSummaryReport FutureRentObligationDetailReport AccountsPayableHistoryReport ARREContractPaymentDetailsReport (Tri-185786)
Reporting	The Plan Work Manager query now shows the Responsible Organization and Service Provider columns. (Tri-192171-IV77206)
Requests	For Equipment Request and Change Space request, the System Organization and System Geography fields are now populated from logged in user's profile data. (Tri-196092-IV78683)

Area of Change	Description
System Setup	Notification Content queries now return records in the correct status. The Notification Contents - Active query render only Active status records. The Notification Contents- Review In Progress query render only Review In Progress status records. The Notification Contents - Upload Error query render only Upload Error status records. (Tri-174513)
System Setup	The Logo and Title cells on triBidOffline001, triRELeaseAbstract, triRETransOffline001offline forms are separated to support the globalization of these forms. (Tri-132656)
System Setup	The status filter on the following People Template queries is corrected to render query results correctly. triPeopleTemplate - triRetired - Editable triPeople - People Template triPeopleTemplate - triPeople Manager Query Also, the Unretire action on People Template form renders the records back to Template status correctly. (Tri-183689-IV75422)
System Setup Application Settings	The triCurrencyUO field has been added to Units section of triApplicationSettings form. The value for this field should be in sync with the BaseCurrency on TRIRIGAWEB.properties file. This currency value should be set at the time of installation by an administrator. Changing the currency after the transaction records have been created is not recommended as previously created records will not be updated. (Tri-171980-IV73217)
System Setup	The triRealEstateLeaseTemplatePopUp - triContinue workflow is retired. This workflow is available under triActionForm module and triRealEstateLeaseTemplatePopUp Business Object in Workflow Builder. (Tri-188954-IV76385)
Work Task	The Resource Allocation section is now populated when a Person resource is added to the Work Task. (Tri-181271)
Workplace Reservation Manager	After you change the start time of an existing reservation, queries no longer show a record with the old start time in addition to a record with the new start time. (Tri-134201)

IBM TRIRIGA 10.5.0 Patch Helper Workflows

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

The following patch helper workflows are in this release:

Name	Description
triPatchHelper - triCalculate - 10.5 - Create Approval Rule for Space Assessment	This patch helper workflow creates Approval Template and Approval rule records and associated it to approval requirement record.
triPatchHelper - triCalculate - 10.5 - Retro Annually Payment Schedule	Run this workflow to update existing payment schedules that are on an annual basis.

Current Period and Period Start Date are set to the payment schedule Start Date, so no partials would be created in 10.5.

IMPORTANT: If there are partials on the payment schedule using the form "X" to cancel the form will wipe out the partial data. You should review payment schedules with partial data populated and fix the Current Period Start Date and/or the partial data as needed. |
triPatchHelper - triCalculate - 10.5 - Retro Monthly Pending Payment Schedules Hide/Show	Payment Due On, Current Period Start Date, and Calculation Method are now hidden on monthly payment schedules. Payment Due Day field is realigned. Run this workflow to fix this field display.
triPatchHelper - triCalculate - 10.5 - Retro Other Payment Schedule	Run this workflow to hide the Payment Due On, Current Period Start Date, and Calculation Method for existing Frequency = Other payment schedules that were created prior to the 10.4.2 release.
triPatchHelper - triCalculate - 10.5 - Retro Payment Line Item To Set Start and End Dates	Run this workflow to set the Start Date and End Date on each of payment line item to accurately calculate the Daily Rate for straight-line calculations.
triPatchHelper - triCalculate - 10.5 - Retro Quarterly Payment Schedule	Run this workflow to update existing payment schedules that are on a quarterly basis.
triPatchHelper - triCalculate - 10.5 - Retro Semi-Annually Payment Schedule	Run this workflow to update existing payment schedules that are on a semi-annual basis.
triPatchHelper - triCalculate - 10.5 - Retro Set Period Start Date for Specific Quarter Payment Schedule	Run this workflow to update existing payment schedules that are on a location specific quarter basis.
triPatchHelper - triCalculate - 10.5 REVERSE ACCRUED LIABILITY SIGN	This workflow is a special patch helper to fix the accrual sign for straight-line schedules that are present before the 10.4.2 release. The string to utilize in this case is: 10.5 REVERSE ACCRUED LIABILITY SIGN

Prior to 10.4.2, the triResidualNU formula = (triCurrentTermSLRentNU - triLeaseTermNetRentPaymentNU) triAccruedLiabilityNU has no formula
Starting 10.4.2, triResidualNU formula = triLeaseTermNetRentPaymentNU - triCurrentTermSLRentNU triAccruedLiabilityNU has no formula |

Name	Description
	NOTES: Customers who are starting on 10.4.2 do not need to run this patch helper. Customers who are upgrading from a prior version (10.3.2, 10.4) to 10.4.2 and have Straight-Line schedules need to run this patch helper. This patch helper will reverse the sign of Accrued Liability (triAccruedLiabilityNU) and Likely Term Accrued Liabilty (triLikelyTermLiabilityNU) by multiplying by (-1). The leases are that created prior to Dec 31st 2014 (checking for Created Date) are considered and for status in (Active, Revision in progress, Review in progress) with accounting Start/end date filled in. For each current Lease revision, the system gets the History (Amendments) leases. For each of the History lease any fiscal line items that are associated (SL schedule/Capital/Finance Schedule or Type A/B schedule) the sign is reversed by multiplying by (-1) for the following 2 fields: - Accrued Liability (triAccruedLiabilityNU) - Likely term liability (triLikelyTermLiabilityNU) Once all of the FLIs are corrected for Accrued liability then user needs to either perform a Review assumption or Activate the lease if a new Payment schedule is added. *All the leases should be set to Standard Calendar. **We do not plan to trigger the re-calculation automatically due to performance for processing SL schedule. The Recalculation will force the correct calculation of Accrual and Accrued liability for current lease revision. **IMPORTANT:** This patch helper needs to be run only 1 time. Running it more than 1 time will reverse the sign again.
triPatchHelper - triCalculate - 10.5 SPACE CLASS CURRENT - Update when NoUsable/NoRentable	On the Space Class Current classifications, the user can now select either Exclude from Usable or Exclude from Rentable, but not both. To correct existing data, customers should run this patch helper. The start condition for this patch helper is: "10.5 SPACE CLASS CURRENT". When running this patch helper, if the Space Class Current record has both options checked, it keeps the most restrictive option "Exclude from Usable" checked and unchecks "Exclude from Rentable".

IBM TRIRIGA Application Platform 3.5.1

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
Installation	If TRIRIGA application 10.5.0 is applied on top of platform 3.5.1, the Object Label Manager will be overwritten by an old version. In this case please restart TRIRIGA to refresh the application. (Tri-226605)
Graphics	When using the Export function in TRIRIGA Web Graphics, labels on a drawing that are far from the origin (points around 200,000 x axis or y axis) will disappear when exported in Internet Explorer or Microsoft Edge. This cannot be resolved by TRIRIGA, as it is an issue with the browsers. (Tri-204894-IV79197)
Java	Java 8 is the only Java version that is supported on the server side. Upgrade to JDK 1.8 before you install TRIRIGA. For WebSphere, install the IBM Java 8 package and set it to be the default for the server and for script execution through the managesdk commands. (Tri-170850)
Navigation	On Internet Explorer, navigation items with a / in the name will not open the page properly. For Example, Lock-Out / Tab-out. If you want a navigation item with a / in the name you must open the link in a new window or tab, or use a different browser. The TRIRIGA Global menu from Navigation Builder will not allow any of the following characters: /, \, #, %, and &. The restriction was added in the name and label text boxes. (Tri-205326)
Record Runtime	Uploading .TIF and .TIFF image files into note fields is only supported on Safari, Edge, and Internet Explorer 11 browsers. (Tri-212694)
Reporting	You must follow BIRT and TRIRIGA reporting guidelines and consider memory allocations if you run complex reports. The Java heap size is a critical parameter when you design, build, and run reports. (Tri-216925-IV83318)
Support	The IBM TRIRIGA Application Platform is not supported on Microsoft Windows Server 2008 with WebSphere. IBM Java 8 has a minimum requirement of Windows Server 2012.

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
AnyChart	The following known limitations apply to AnyChart use with TRIRIGA: AnyChart no longer supports the concept of Chart Templates in AnyChart 7.x, as they did in AnyChart 6.x. Any customized Chart Templates applied to IBM TRIRIGA will no longer work. Chart Templates are stored in Tools->System Setup->General->Chart Templates. If you need to apply a customized Chart Template, you can use the delivered IBM TRIRIGA Chart Templates as a guide. Note that due to AnyChart no longer supporting their concept of Chart Templates, the amount you can customize may be limited compared to previous releases IBM TRIRIGA. When saving a chart as PDF, the chart will shrink to fit the page, but legend remains disproportionately large. AnyChart 7.x does not yet support linear gauges. All linear gauges configured in your environment will appear as circular gauges. AnyChart 7.x does not have bidi support for pie chart labels. AnyChart 7.x does not have bidi tooltip text support. AnyChart 7.x has an issue with line chart tooltips, where the series name cannot be displayed as the tooltip title. On line charts, the point name now displays as the tooltip title, and the series name displays below that. AnyChart 7.x does not ignore a secondary group by field if it is defined in a report with multiple aggregations. A secondary group by field should not be defined on a metric report with multiple aggregations. AnyChart 6.x handled this situation by ignoring the secondary group by field. If a metric report has multiple aggregations, remove the secondary group by field if one exists, in order for that report's chart to render correctly in AnyChart 7.x.
Gantt	The new HTML5 version of Gantt section does not currently support Calculate from Both or showing Baseline durations in the Gantt chart. If you want to use the Legacy applet, set the USE_LEGACY_GANTT_APPLET=TRUE in TRIRIGAWEB.properties. (Tri-198075)
Graphics	Graphics sections in print preview do not render properly on Mac OS devices. (Tri-197328)
Security	When you add a group to an employee record and save, the result is one association string from the Employee and the Group. If you add the user to the group and save, the result is a different association string from the employee and the group. The reverse association between Group and My Profile will be different depending upon the tool used to create the association. If the user was added to the group through the Security Manager, the association will be Has <-> Associated To for the Group/My Profile. If the group is added to the user through My Profile, the association will be Has <-> Belongs To for the Group/My Profile. (Tri-197090-IV79371)

Area of Impact	Description
UX Framework	IBM TRIRIGA Application Platform 3.5.1 includes building blocks components that are experimental and are not supported for this release. The UX Component Doc page of the IBM TRIRIGA at http://<TRIRIGA server URL>/p/web/doc identifies which components are currently experimental. You are encouraged to try these components and provide feedback via the community forum at https://www.ibm.com/developerworks/community/forums/html/forum?id=b08d9c28-0c72-46c3-b2c9-30b227d58f98.

IBM TRIRIGA Application Platform 3.5.1 Changes

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

Area of Change	Description
Accessibility	The following elements were updated with the following attributes to better support accessibility: 1. For all img html, it provides the alt attribute with the proper value. 2. For all iframe html, it provides the title attribute with the proper value. 3. For form input html, it provides the label for value and the id value. 4. For some table headers, it provides cell information. (Tri-191732-IV78162)
Administrator Console	In the Administrator Console, when multiple users check on the database connection, an error no longer occurs. (Tri-218235-IV83122)
Administrator Console	The label for the Support & Report tab in the TRIRIGA Administrator Console was renamed to the Must Gather Tool. (Tri-214448)
Administrator Console	When the system is locked down and a user tries to access the TRIRIGA application, a more descriptive alert message is now shown. The users will now see a clear message as to why the system is locked. (Tri-205348)
Agents	Incoming Mail Agent now uses the System user to process all incoming mails. (Tri-221250-IV84157)
Agents	The Platform Maintenance Agent is now enhanced to run delete commands in smaller batches. (Tri-214694-IV82047) The Platform Maintenance Agent has better deadlock detection and will retry commands if a deadlock is detected. If a deadlock is encountered that cannot be resolved, it will continue with the rest of the cleanup commands. (Tri-214694-IV82047)
Agents	The Platform Maintenance agent no longer attempts to add missing associations when the associations existed. (Tri-216187-IV82617)
Availability Applet	The Availability applet now renders properly in Firefox and Internet Explorer 11. (Tri-208211)

Area of Change	Description
Bookmarks	The My Bookmarks window closes after a Bookmark Item has been selected. (Tri-215978-IV83782)
Brava	Brava Server compatibility was updated to only support version 7.5. (Tri-211411)
Charts	AnyChart Line charts no longer support tooltips for point. Instead, the tooltip is given for every point at a specific x-axis value. (Tri-205875)
Charts	Charts with formatted numeric values on the x-axis now show formatted numeric x values in the tooltip. (Tri-215235)
Charts	Pyramid charts in Metric Reports will highlight the correct section when you hover over the legend. (Tri-214083)
Data Modeler	In financial rollup fields, you can now insert tokens when you use the Safari browser. (Tri-208318)
Data Modeler	In the Sub Action Details section, the label header now displays multi-byte characters correctly. (Tri-208156-IV79986)
Data Modeler	In the TRIRIGA Data Modeler, when you insert or update financial rollup type parameters, the Budget Token panel now has improved performance. The Budget Token panel no longer stops responding when you load a large amount of data. (Tri-212926-IV82154)
Data Modeler	List fields in the Data Modeler now load properly when the list values contain an apostrophe. (Tri-209331-IV80379)
Data Modeler	The Data Modeler Diagram was removed as of the 3.4.2 platform release because the functionality was redundant and caused browsers to fail if many associations were added to business objects. Now, the Association Manager allows you to view the relationships between business objects. (Tri-213236-IV81654)
Data Modeler	When you modify a business object that is in the Data Modeler, the Control Number Start With field value now accepts the value you input. The maximum value that the field will accept is 9999999999. (Tri-215697-IV82452)
Dates and Duration	Duration field calculations now account for Daylight Savings Time (DST) and are more accurate in calculations. (Tri-202355-IV78959)
Document Management	An issue was resolved in the Document Manager that caused the check-out window to close before you selected a download option. (Tri-210686)
Document Management	An issue was resolved where a user without download access could download a document by opening up the document record. Current user permissions are now validated before you can download a document. (Tri-212068)
Document Management	File types that cannot be previewed in the Print Preview tab of a document record are no longer downloaded automatically. (Tri-215422-IV83460)

Area of Change	Description
Document Management	In the Document Manager or the Notes & Document tab of a record, when you upload a file with multi-byte characters in the file name, the upload window now closes after you select submit. In the Document Manager, when you view, download, or check out a file with multi-byte characters in the file name, the file name is the same in the Document Manager preview. (Tri-209335-IV80364)

Document Management	It is now possible to restrict document upload window configurations that are readily available to the user by adding parameters to the corresponding upload custom action url.
	
	The user's ability is restricted when they toggle between single and multi-file uploads mode and when they toggle the folder hierarchy view mode by passing a new parameter named configurable. If the configurable parameter is false, then the following links will not be available in the document upload window:
	    If the page is loaded as a multi-file upload:
	      The link to single file upload will not display.
	      The link to view the folder hierarchy will not display.
	    If the page is loaded as a single file upload:
	      The link to multi-file upload will not display.
	      The link to view the folder hierarchy will not display.
	
	If the configurable parameter is not set by the application developer, a default value of true is assigned and the links will display.
	
	An issue was resolved where the upload window was not honoring the showFolders parameter. If showFolders parameter is true the folder hierarchy will display. If showFolders parameter is false the folder hierarchy will not display. (Tri-209788-IV80610)

Document Management	The Date Created field is now set correctly when the user's date format is not MM/dd/yyyy. (Tri-210176-IV80757)
Document Management	When a document displays on the Print Preview tab, Chrome, Firefox, and Edge now have less white space on the page. The issue was not resolved for Internet Explorer 11 due to a defect in Internet Explorer 11 that Microsoft is not going to fix. For more information, see https://connect.microsoft.com/IE/feedback/details/809377/ie-11-load-event-doesnt-fired-for-pdf-in-iframe. (Tri-206702-IV79653)
Document Manager	The IMPORT_CONTENT_INCLUDE_EXTENSIONS property only allows documents with specified extensions to upload. (Tri-215835-IV82434)
Form Builder	In Firefox, you can now set the Title Bar color property for sections in the Form Builder. (Tri-222444)
Form Builder	In the Form Builder, the Alternate Form menu for a new item now displays a readable color for the text labels in the application. (Tri-218767)

Area of Change	Description
Form Builder Gantt	New Gantt sections created in the Form Builder do not automatically add the "Open Gantt in New Window" button unless the USE_LEGACY_GANTT_APPLET web property parameter is set to true, as the new Gantt section does not use this action. See technote for details: http://www-01.ibm.com/support/docview.wss?uid=swg21983450. (Tri-221704; Tri-221752; Tri-221904)
Forms	Pop-up windows now close when you run a state action when the page launches in Chrome from an HTML link. (Tri-214695-IV82051)
Gantt	Gantt applet will now automatically refresh the related query section in a Capital or Facility Project when a task opened through the applet is changed. (Tri-220744)
Globalization	Added globalization support for system read only form label and system read only Business Object label fields in user filters in a TRIRIGA query. A non-US English-language user can now enter values in the language in the user's profile to filter results. (Tri-217230-IV83090)
Globalization	Apostrophes that were missing from some French translations now display. (Tri-205381)
Globalization	In the Document Manager and in the Notes & Documents tab of a record, when you check in a file, the check in form now displays the file name correctly when the file name contains multi-byte characters. (Tri-212970)
Globalization	In the Document Manager and in the Notes & Documents tab of a record, for check in and check out forms, actions and labels are now translated for non-US English languages. (Tri-213335-IV82976)
Globalization	Language values that are entered directly in the Language Editor Manager are now saved in Firefox. (Tri-218502-IV83152)
Globalization	Resolved an issue that prevented non-US English-language values from showing on tabular reports. (Tri-222347)
Globalization	The label for the 'Back' button that is used to return after viewing a document in the Document Manager is now translated. (Tri-222990)
Globalization	When an issue occurs during export of annotated system labels, the issue is logged in the server.log and the export process continues. (Tri-217790-IV83070)
Globalization	When you upload a file to a binary field, the action labels in the window no longer display escaped characters for non-US English-language users. (Tri-211065-IV81067)

Area of Change	Description
Graphics	For Graphic Section queries, the Count By legend is aggregated based on the records for the Business Object field that is specified. Previously, the count was based on which spaces had an association, not the associated object itself. For instance, if a space is associated with two assets of the same specification class, the aggregate of the assets was one, since they both occupied the same space. Now, the two assets will be aggregated when the Count By legend is for an asset Business Object field. (Tri-209730-IV82618)
Graphics	On the main page and in the Administrator Console, you can now change the default IBM TRIRIGA logo to custom company logos. Do the following to override the default logo set: 1. Create custom images named logo.gif, logoRTL.gif, or logoAdminConsole.gif. The RTL image is only used for mirrored bidirectional languages. 2. With the server running, place the image or images in the userfiles/Imagee folders. 3. In the Administrator Console, clear the cache. 4. In the browser, clear the cache and refresh the page. (Tri-209105-IV80415)
Graphics	Portal section header icons now match the TRIRIGA 3.5 style. (Tri-204725)
Graphics	The text color of the Ok button and the Cancel button within an Image Upload window were updated for readability. (Tri-212066)
Graphics	When you upgrade to 3.4 or later on certain 10.3 clean Oracle environments, rendering problems in the graphics section no longer occur for existing published drawings and broken CI application definitions. The platform now correctly upgrades the CI application definitions, correctly reprocesses existing published drawings, and correctly renders existing published graphics on these environments. (Tri-209135)
Hierarchies	You can no longer cut and paste hierarchy records to a target path that contains nodes with that same name. An error message occurs that states, "Unable to paste because a record with the name {record name} already exists in the target path." (Tri-212951-IV82666)
IBM TRIRIGA Connector for BIM	IBM TRIRIGA Connector for BIM installer requires 64-bit Java 8 and will only launch if 64-bit Java 8 is present. (Tri-210594)
Installation	Corrected an issue where you could not convert from single to multibyte on Microsoft SQL Server with the platform installer. (Tri-204985)
Installation	IBM and Oracle Java version 8 are the only supported versions of Java for all supported application servers. The installer does not continue if it was started with OpenJDK. (Tri-188604)
Installation	New database installations on non-US English databases will now install correctly. Previously, the value for a locale was set to US-English. (Tri-207789)
Installation	The Oracle OJDBC Driver version was updated to 12.0.1.2 using the ojdbc7.jar. (Tri-220431)

Area of Change	Description
Installation	The TRIRIGA installer was updated to prevent installation into a full WebSphere environment whose cell, node, or server name contains an underscore in their name or a space in the path. These configurations are not allowed. (Tri-208915-IV80543)
Installation	The TRIRIGA Administrator Console no longer throws a warning that the PKG_CLEANUP environment is invalid on the Database Manager Tab. (Tri-206380)
Installation	The TRIRIGA Installer will now install on IBM WebSphere full application server in a Japanese or Korean Windows operating system. (Tri-208848-IV80544)
Installation	When you install TRIRIGA on a full WebSphere Application Server, the installer now overrides the default heap size of the ws_ant script if it is too small. (Tri-216418-IV82864)
Integration	Custom Class Loader calls and IBM TRIRIGA Connector for Business Applications SOAP requests that run simultaneously no longer cause occasional user session conflicts. (Tri-212303-IV81554)
Integration Object	In an integration object, if you select System Module from the drop-down menu in the Data Map tab, the correct objects now appear in the drop-down list. (Tri-216743-IV82712)
Integration Object	The System module will appear in the Select Modules drop down lists within the Data Map tab of Integration Objects when the staging tables exist. (Tri-223765-IV84613)
Internet Explorer 11	Internet Explorer now renders TRIRIGA in standards mode when you enable compatibility mode. (Tri-214585-IV81972)
Kettle ETL Jexcel	The jxl.jar is no longer included as part of the TRIRIGA package. To run a Kettle ETL that uses excel steps (input/output), you must download the jxl.jar and add it to the application server. For more detailed instructions, see the developerWorks website. (Tri-208217)
Kettle ETL	TRIRIGA was upgraded to use Pentaho/Kettle 5.4.0.1 for some ETL processing. Kettle ETLs continue running as before upgrade to 5.4.0.1. (Tri-152850)
Lists	An existing list or a list that is imported with object migration now displays the correct value in the Language field when the list is opened for edit. An imported list is in the target environment's base language regardless of the language of the list in the source. (Tri-219608-IV83539)
Logging	When the requestTest.jsp page cannot be used, additional debug logging is now available to help troubleshoot SSO issues. (Tri-209452)
Login	A concurrency issue was resolved that resulted in a higher CPU utilization when multiple users authenticated at the same time. (Tri-206065)
Login	In the alternative login page, the color scheme was updated. (Tri-218230).

Area of Change	Description
Login	The default TRIRIGA login page no longer briefly displays before a custom login page is loaded. (Tri-209576-IV80828)
Mail Notfications	E-mail notifications that include CC and BCC e-mail addresses will now properly list the recipients correctly when viewed in an e-mail inbox. (Tri-225140-IV84897)
Navigation	Under the Tools portal, alternative text was added to the sublevel navigation item images of Unit of Measure and Graphics quick links. The alternative texts display when the image cannot be rendered. (Tri-211565)
Navigation	You can no longer create navigation items with a name that includes the following characters: &, /, \, # and %. (Tri-210082)
Object Migration	An issue was resolved where export packages would mark business objects that were not part ofthe package as modified. (Tri-121584)
Object Migration	If you import the TRIRIGA Service Technician group that is found in the TRIRIGA Application 10.4.1 Object Migration, it now imports correctly. (Tri-206726)
Object Migration	Previously, in the Firefox browser, you were prevented from searching for object types by using the All option. This restriction was removed. Now All searches on other browsers will take a while to complete, but the behavior is consistent across all supported desktop browsers. (Tri-202992)
Object Migration	Record data with smart section references now update correctly during import. (Tri-204960)
Object Migration	Resolved an issue where OM import displays an empty dropdown for the workflow field in the properties panel when no workflow was selected at export. The dropdown is now hidden in this case. (Tri-222702)
Object Migration	Resolved an Object Migration Business Object compare issue where the Audit Level property on Business Objects was not being compared. There is a new Audit Level property in Business Object compare, which compares the values No Audit, Audit Interactive Data, and Audit All Data. (Tri-218319)
Object Migration	Resolved an Object Migration import issue, where if the package was created before platform 3.5.0, then the objects in the package were defaulting to the Object Label, ObjectLabelInProgress on import. These objects now default to the Object Label, RootObjectLabel on import. (Tri-225907)
Object Migration	Resolved an Object Migration issue during the import of record data where the default Form defined for the TRIRIGA record being updated was not being correctly set if a default Form was not set on the target environment for the TRIRIGA record prior to import. (Tri-220217)

Area of Change	Description
Object Migration	The Object Migration Business Object compare tool no longer shows the comparison of the Business Object Field Description and Purpose properties. These properties are never updated for existing Business Object Fields on the target environment during Object Migration import, thus comparison is not necessary. (Tri-218423)
Object Migration	When you add many objects to an object migration export and save, an error is no longer thrown in the server log file. (Tri-213462-IV82265)
Object Migration	You can now import file names that contain the single quotation mark character. (Tri-219620)
Object Migration	You can now see complete messages when you create, search, or edit a new object migration export package. (Tri-202273)
Offline	Populate no longer fails during the offline populate process due to formula cache if a formula references a cell that has yet to be populated with a value, and a different formula references that same cell later in the populate process after it was populated with a value. (Tri-208584-IV80095)
Offline	Resolved an Offlining populate issue involving single record smart section fields referenced by a selector tag. Incorrect values were being populated in what were expected to be blank cells on the Excel spreadsheet, if the single record smart section on at least one of the records returned by the selector contained no values. (Tri-223439-IV84867)
Portals	A portal section that displays a report with group by now renders correctly. (Tri-222603-IV84367)
Portals	Breadcrumbs with special characters now display properly in Internet Explorer. (Tri-209886-IV80721)
Portals	Company Data will no longer appear on the portal when project context is not set. (Tri-221691)
Portals	Report portal sections now display a no data message when a chart is maximized and then minimized again. (Tri-195114-IV77768)
Print Preview	When a record has a graphics section, print preview now renders the graphics section. (Tri-196516)
Record Runtime	All users can now preview images that are inserted in notes fields. Previously, non-admin users saw placeholder images instead of previews. Note that uploading .TIF and .TIFF image files into note fields is only supported on Safari, Edge, and Internet Explorer 11 browsers. (Tri-209913-IV80720)
Record Runtime	An intermittent issue was resolved where a new tab would not render if you selected the X action button in a pop-up and then selected another tab in the parent record. (Tri-211274)

Area of Change	Description
Record Runtime	An issue was resolved that caused field drop-down lists to open out of the viewable screen width. (Tri-217925)
Record Runtime	An issue was resolved where a populated notes field was cleared after opening, selecting, or saving a modal page, and then saving the parent record. Now, the notes field saves all content. (Tri-221374-IV84064)
Record Runtime	BIRT Report sections that display in a form now expand to the width of the screen and no longer show white space. (Tri-211615)
Record Runtime	If there is no database connection, the warning message on the login page is now black text on a blue background instead of black text on a black background. (Tri-213655)
Record Runtime	Image field values are now stored as NULL in the database to indicate that the image was deleted instead of -1. (Tri-205132)
Record Runtime	In a record form, when you select print preview and then print, part of the record is no longer cut off. (Tri-196358-IV78106)
Record Runtime	In Internet Explorer 11, you can now edit drop-down fields with onChange workflows twice in a row without changing the focus of the field first. (Tri-208192-IV80030)
Record Runtime	Section action buttons now appear disabled when they are inactive. (Tri-214537)
Record Runtime	The buttons tooltip on a Form will no longer display null instead of the translated value. (Tri-220187)
Record Runtime	The display for month now displays correctly when you set dates on forms when the user profile date and date time preferences contains "MMMMM" in the format. (Tri-207926)
Record Runtime	The platform validation of percent fields that display with a custom mask that includes the % symbol now works correctly. (Tri-214582-IV81975)
Record Runtime	The TRIRIGA application icon now displays in browser tabs and bookmarks. (Tri-206469)
Record Runtime	When you run a report on a form that has the Audit tab enabled, the actions at the bottom of the form now process correctly. (Tri-211827)
Reporting	An issue was resolved in reports where an error occurred when a field name value did not match a field name value in the database. The Where Used tab menu was updated to read the actual field name value as it is stored in your database. (Tri-217924-IV83050)

Area of Change	Description
Reporting	An issue was resolved where some BIRT report export file options did not export with a file extension. The following file types now export with their appropriate file extension: odp, docx, ods, pptx, and odt. The xlsx and xls_spudsoft file types were removed. The file types were removed because the third-party library that generates the exported files has an issue where the exported file is corrupted when you use the xlsx and xls_spudsoft file types. (Tri-206480-IV79701)
Reporting	An issue was resolved where the percentage symbol displayed on the wrong side of the percent value. (Tri-212102)
Reporting	AnyChart now limits X-axis labels and Y-axis labels to the chart windows width. Any label that exceeds the bounds will be truncated with the ellipsis (…) character. X-axis labels on vertical bar charts will now display at a 45-degree angle instead of vertically. Y-axis labels on horizontal bar charts will now display horizontally instead of vertically. (Tri-212061)
Reporting	BIRT reports with required parameters now render the set of required parameter fields. (Tri-220052)
Reporting	Charts with secondary data sources containing no data will no longer max out the y-axis. Also, precision will be factored into y-axis scaling. (Tri-225129-IV84996)
Reporting	Default query now uses the TRIRIGA 3.5 skin styling. (Tri-221708)
Reporting	Dependent lists now allow a value selection within an editable query when the parent list is read only. (Tri-223417-IV84538)
Reporting	Enhanced the display of image fields in queries so that when the image is transmitted from the application, it is a thumbnail and not the full-size image. (Tri-215787-IV82879; RFE-219400)
Reporting	Excel exports from reports with sums now display the total row. (Tri-219888-IV83660)
Reporting	Excel exports now display the custom decimal precisions for numbers that are set in the Data Modeler. The decimal precision that is displayed in a cell in an Excel export matches the decimal precision that is displayed in the source report for numbers with decimal places. The value that is displayed in the formula bar for a cell in an Excel export is the value from the database. When the currency UOM for a number is Japanese Yen, or when a non-currency number does not have decimals, no decimals display. (Tri-214706-IV82049)
Reporting	For a non-US English-language user, date fields and date time fields now display in reports in the language from the user's profile. (Tri-214917)
Reporting	In an editable query, date field entries now consistently retain manual keyboard changes when the primary record is saved. (Tri-200305-IV79384)

Area of Change	Description
Reporting	In an editable query, the value in a text field now saves correctly. Through the size attribute in the Data Modeler, the save action honors the size that is provided in the text field properties. If the text value that is entered is larger than the size, any extra characters are lost before it saves. (Tri-216016-IV82511)
Reporting	In editable queries, locator field values are now saved correctly. (Tri-217214)
Reporting	In metric charts, the y-axis is now mirrored for users of mirrored languages. Mirroring of the following continues to not be supported: horizontal bar mirroring, secondary y-axis mirroring, and x-axis scaling for mirrored charts. The x-axis labels on mirrored charts are not positioned correctly, which will be resolved in a future release. (Tri-223861)
Reporting	In Metric Report Line charts, tooltip labels now format correctly. (Tri-203560)
Reporting	In metric reports, hierarchy tree filters now display available filters correctly without repeated options. (Tri-209556-IV80932)
Reporting	In query results, editable fields are now the same width as the column. (Tri-206276-IV79644)
Reporting	In the My Report tab of a report, when you select a business object, the list of forms is now sorted alphabetically for non-US English-language users. (Tri-204137)
Reporting	In the Report Manager, the security settings are now exported and imported by using Object Migration. (Tri-219098)
Reporting	Queries now obey the filters that you define on all pages. (Tri-204929-IV79168)
Reporting	Resolved an issue that occurred if you attempted to show 500 community reports on certain environments. The community reports failed and a Not able to retrieve Community Report message displayed. (Tri-210089-IV80718)
Reporting	To see non-error logs when you run the BIRT viewer, you can now enable BIRT logging in Administrator Console > Platform Logging. (Tri-216399-IV82676)
Reporting	Users no longer have access to reports in instances where they were not authorized to access. (Tri-215832-IV82437)
Reporting	Validation rules that are specified in the Data Modeler for text and number fields are now applied when the fields are changed in an editable query. The validation occurs when you change a field's value and either tab out or save. You must select the validation rule for number and text fields before any value is saved. (Tri-209815)
Reporting	When a Summary column is in a report, sorting data in a query now works correctly. (Tri-220896-IV83965)

Area of Change	Description
Reporting	When you add a secondary Business Object to a report or query, you can no longer search for objects based on an object's primary associations or associations that are defined in the Data Modeler. (Tri-212371)
Scheduling	An issue was resolved that occurred when an event or scheduled event with no recurrence pattern failed to start. (Tri-197103)
Security	An exception is no longer thrown when you append JavaScript into a parameter of a specific URL. (Tri-211374)
Security	Cross-site scripting attacks can no longer be run through image uploads. (Tri-223019-IV85103)
Security	IBM TRIRIGA Application Platform builder tools are no longer vulnerable to privilege escalation attacks. (CVE-2016-0374) CVEID: CVE-2016-0374 DESCRIPTION: CVSS Base Score: 8.8 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/112236 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-218791)
Security	IBM TRIRIGA Application Platform has a security flaw that grants unauthenticated access into all JSP pages within the application structure, which allowed for subsequent probing and exploitation. CVEID: CVE-2016-0300 CVSS Base Score: 5.40 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/111412 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:N/S:U/C:L/I:L/A:N) (Tri-214380)

Area of Change	Description
Security	IBM TRIRIGA Application Platform is no longer vulnerable to a cross site request forgery attack. (CVE-2016-0386) CVEID: CVE-2016-0386 CVSS Base Score: 8 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/112360 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:R/S:U/C:H/I:H/A:H) (Tri-218311-IV83657)
Security	IBM TRIRIGA Application Platform is no longer vulnerable to cross-site scripting caused by improper validation of user-supplied input. (CVE-2016-0387) CVEID: CVE-2016-0387 DESCRIPTION: CVSS Base Score: 5.4 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/112505 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:R/S:C/C:L/I:L/A:N) (Tri-218233-IV83575)
Security	IBM TRIRIGA Application Platform is vulnerable to a cross site scripting attack within My Reports. CVEID: CVE-2016-0344 CVSS Base Score: 5.4 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/111785 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:R/S:C/C:L/I:L/A:N) (Tri-215834-IV82435)
Security	The IBM TRIRIGA Application Platform no longer discloses server file path information when BIRT reports are rendered. CVEID: CVE-2016-0345 CVSS Base Score: 4.3 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/111786 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:N/S:U/C:L/I:N/A:N) (Tri-215830-IV82438)

Area of Change	Description
Security	IBM TRIRIGA could allow an authenticated user to obtain sensitive information displayed in error messages. (CVE-2016-0343) CVEID: CVE-2016-0343 DESCRIPTION: IBM TRIRIGA could allow an authenticated user to obtain sensitive information displayed in error messages. CVSS Base Score: 4.3 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/111784 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:N/S:U/C:L/I:N/A:N) (Tri-215836-IV82433)
Security	IBM TRIRIGA could disclose sensitive information using a query to the IBM TRIRIGA platform database using crafted web service request by means of a HTTP / SOAP query. CVEID: CVE-2016-0299 CVSS Base Score: 5.3 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/111382 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:N/A:N) (Tri-214383)
Security	IBM TRIRIGA is vulnerable to cross-site scripting, caused by improper validation of user-supplied input. A remote attacker could exploit this vulnerability using a specially-crafted URL to execute script in a victim's Web browser within the security context of the hosting Web site, once the URL is clicked. An attacker could use this vulnerability to steal the victim's cookie-based authentication credentials. CVEID: CVE-2016-2883 CVSS Base Score: 5.4 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/112862 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:R/S:C/C:L/I:L/A:N)

Area of Change	Description
Security	IBM TRIRIGA is vulnerable to cross-site scripting, caused by improper validation of user-supplied input. A remote attacker could exploit this vulnerability using a specially-crafted URL to execute script in a victim's Web browser within the security context of the hosting Web site, once the URL is clicked. An attacker could use this vulnerability to steal the victim's cookie-based authentication credentials. CVEID: CVE-2016-2883 CVSS Base Score: 5.4 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/112862 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:R/S:C/C:L/I:L/A:N)
Security	IBM TRIRIGA is vulnerable to cross-site scripting, caused by improper validation of user-supplied input. A remote attacker could exploit this vulnerability using a specially-crafted URL to execute script in a victim's Web browser within the security context of the hosting Web site, once the URL is clicked. An attacker could use this vulnerability to steal the victim's cookie-based authentication credentials. CVEID: CVE-2016-2883 CVSS Base Score: 5.4 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/112862 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:R/S:C/C:L/I:L/A:N)
Security	IBM TRIRIGA is vulnerable to cross-site scripting, caused by improper validation of user-supplied input. A remote attacker could exploit this vulnerability using a specially-crafted URL to execute script in a victim's Web browser within the security context of the hosting Web site, once the URL is clicked. An attacker could use this vulnerability to steal the victim's cookie-based authentication credentials. CVEID: CVE-2016-0387 DESCRIPTION: CVSS Base Score: 5.4 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/112505 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:R/S:C/C:L/I:L/A:N)

Area of Change	Description
Security	IBM TRIRIGA Platform no longer allows remote attackers to use one of its web services as a proxy to forward HTTP requests to other internal/external web resources. CVE-2016-0362)

CVEID: CVE-2016-0362
CVSS Base Score: 4.3
CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/111932 for the current score
CVSS Environmental Score*: Undefined
CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:L/A:N)

(Tri-217244) |
Security	The security token generation logic was enhanced to help protect against CSRF attacks. (Tri-224177)
Security	Users with full access security to Scorecard Manager can now create and edit scorecards. (Tri-220797)
Security Manager	The List Manager and Label Manager were renamed to Lists and Globalization Manager in Security Group. (Tri-220370)
Styles	Custom styles can now be applied to hierarchy trees. The new style names that can be imported are as follows.
HIERARCHY_TREE_HEADER_BG_COLOR
HIERARCHY_TREE_HEADER_LINK_TEXT_COLOR
HIERARCHY_TREE_HEADER_LINK_HOVER_COLOR
HIERARCHY_TREE_SELECTED_NODE_COLOR
(Tri-225133)
Styles	The user defined linkBackground.gif image will no longer disappear after the server has been restarted. (Tri-225375)
Upgrade	The VarChar_To_Numeric_Script.sql script, which updates system date time fields from String to Numeric data types, now runs properly if it encounters a date field with an invalid time zone. (Tri-207433)
UX Framework	A new UX method was added to allow date time values to normalize to a specific time zone. It converts a value to the correct time zone but keeps the exact date time. (Tri-207823)
UX Framework	After you select or enter a date value in a date field with a keyboard, the focus now remains in the date field. You no longer must navigate from the beginning of a page to reach the same date field again. (Tri-207531; Tri-207532)
UX Framework	Date value now correctly saves at midnight in the database when observing daylight savings. (Tri-203431)
UX Framework	If you enter an invalid date time value in a Date Time field, the time zone now shows in the example. (Tri-206692)

Area of Change	Description
UX Framework	On the UX Framework Promise object, the promiseReject console error message is now suppressed when an action fails. This error message is not needed. (Tri-206735)
UX Framework	The calendar container now sets the spacing correctly for the dates consistently on the last week of the month if you navigate between months. (Tri-205930)
UX Framework	Resolved an issue where the end user could manually enter dates that the application did not intend to allow. The application developer can use the disallowPastDates and disallowWeekends properties on the date picker component to control the values that the end user can select. These properties are now restricted on both the GUI date picker and when the values are manually entered in the input field. (Tri-196947)
UX Framework	The previous date or date time will no longer persist when you clear the input from date and date time input fields where null values are not allowed. (Tri-204344)
UX Framework	The TRIRIGA perceptive application icon now displays. (Tri-206747)
UX Framework	Use the Up or Down arrows keys to navigate within the List. (Tri-204504)
UX Framework	UX framework handled context security incidents, but will now also log these incidents in the TRIRIGA security log. (Tri-205295)
UX Framework	When you use the JAWS assistive technology, a date field no longer announces an error even when no error exists after you exit out of the pop-up window. (Tri-199844)
UX Framework	When you use the JAWS assistive technology, the date picker now reads the current month that you select. (Tri-204714)
UX Framework triplat-calendar-container	The no-fixed-position property for the triplat-calendar-container component is now deprecated and is no longer needed. (Tri-200663)
UX Framework triplat-calendar-container	The triplat-calendar-container component in landscape mode's left to right swipe animation is now contained within the date area. (Tri-208037)
UX Framework triplat-calendar-container	The triplat-calendar-container component now uses the ISO date string format instead of milliseconds, which is consistent with the triplat-date-picker and triplat-datetime-picker components. (Tri-205872)

Area of Change	Description
UX Framework triplat-calendar-container	The triplat-calendar-container component will now display correctly on the Safari browser. (Tri-205347)
UX Framework triplat-calendar-container	You can now display multiple triplat-calendar-container components in an application without any layout issues. (Tri-205862)
UX Framework triplat-date-picker	The date utilities component replaces the date utilities methods inside the triplat-date-picker. This utilities component provides methods that allow you to easily manipulate the date and date time values (for example, convert from ISO date string to milliseconds, normalize the time zone for a date time value). (Tri-206087)
UX Framework triplat-datetime-picker	Errors no longer occur when the time zone property in the triplat-datetime-picker component is bound to a drop-down menu. (Tri-203596)
UX Framework triplat-datetime-picker	The error message in the triplat-datetime-picker component is now more specific and provides an example of how a proper input is based on the format specified. (Tri-203124)
UX Framework triplat-datetime-picker	The focus now remains on the triplat-datetime-picker component when you select OK, Cancel, or the timer icon on the triplat-datetime-picker component for Chrome on Android. (Tri-203936)
UX Framework triplat-datetime-picker	The triplat-datetime-picker component now properly clears the input value when the clear method is run. (Tri-204658)
UX Framework triplat-date-utilities	TriPlatDateUtil date utility was deprecated and superseded by triplat-date-utilities component. For more information, see the component documentation page. (Tri-207745)
UX Framework triplat-icon	In Microsoft Edge, the amount of required keyboard presses to alternate between triplat-icon elements was reduced to aid in usability. (Tri-217219)
UX Framework triplat-icon	When a UX application uses the triplat-icon component, style and class values are used in both the triplat-icon element and passed to the child iron-icon component. For values like color, this is not an issue but for values like padding, this produces a doubling effect. New mixins are now available and use of class and style on the triplat-icon element should be done selectively with the knowledge of this behavior. (Tri-218327)

Area of Change	Description
UX Framework triplat-icon component	You can now mirror icons by using the mirror property in the triplat-icon component, for example, <triplat-icon icon="reset-revert" mirror></triplat-icon>. (Tri-210617)
UX Framework triplat-query-filter	Filtering now returns the correct data set when an Application Developer uses the triplat-query-filter component with a date field. (Tri-205158)
UX Framework triplat-select-input	A new property was added on the triplat-select-input component for UX application developers. Previously, the label was set to float when necessary. When the input field was empty, the label was in the input field and when a value is typed, the label floated above the input field. Now you can specify the always-float-label property if you want the label to be above the input field even when no value exists in the input field. This behavior mimics the property and behavior of paper-input. (Tri-217043)
UX Framework triplat-select-input	New mixin styles were added to the triplat-select-input component. (Tri-196617)
UX Framework triplat-select-input	The application developer can now configure the triplat-select-input component to be required. Usage: - required - Set to true to mark the input as required - errorMessage - The error message to display when the input is invalid (empty) - autoValidate - Set to true to auto-validate the input value when it changes (focus out of the field) (Tri-204506)
UX Framework triplat-select-input	When a UX application developer uses the triplat-select-input component and specifies the on-select-input-value-change property, there will no longer be two events when the value is changed. (Tri-217125)
WebLogic	The WebLogic installation is now set to, -Djava.awt.headless=true to allow images that are generated to load by default. (Tri-215239)
WebSphere Liberty	The WebSphere Liberty server.xml file was modified to suppress manifest class path messages from being written to the messages.log file. (Tri-211729).
Workflow	If a value longer than the maximum length defined is typed or pasted into a text field using the keyboard, the workflow now runs and a warning message dialog is displayed to inform the user of the maximum field length. (Tri-200751)
Workflow	Increased the storage of the workflow ID number to handle large numbers when adding synchronous workflows to the queue. (Tri-224748-IV84808)
Workflow	The workflow start task expression editor now loads consistently. (Tri-216110-IV82559)

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Area of Change	Description
Workflow	You can now set the following custom Workflow task: com.tririga.platform.admin.cache.web.CacheProcessingCustomTask$CacheAndRebuildHierarchyTree The workflow task allows application developers to trigger a cache clear and hierarchy rebuild as if it were triggered from the Administrator Console of all application servers. (Tri-209781-IV81476)
Workplace Reservation Manager	In the Reservation Outlook Add-in, Room Availability and Room Calendars display when you view or create a TRIRIGA appointment. (Tri-221084-IV84158)
Workplace Reservation Manager	Reservation Outlook Add-in now allows room availability and room calendars to show when viewing or creating a TRIRIGA appointment. (Tri-214533)

IBM TRIRIGA Application Platform 3.5.1 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
Administrator Console	The address to email IBM Support was updated in the Administrator Console. You can update the Must Gather tool so that the default IBM Support email, URL, and Phone number URL are updated in the TRIRIGAWEB.properties file. If you want to change the URLs or email address for the Must Gather tool, you must add these properties to the TRIRIGAWEB.properties file and update the values. IBM_SOFTWARE_SUPPORT_URL=http://www.ibm.com/software/support/ IBM_PLANETWIDE_PHONE_DIRECTORY_URL=http://www.ibm.com/planetwide/ IBM_US_TRIRIGA_SUPPORT_EMAIL=iot_support@ecurep.ibm.com By default, the properties are not placed in the properties file. (Tri-214714)
Gantt	Gantt sections now render using an HTML5 non-applet version which supports all browsers in the compatibility matrix. The legacy applet can still be used by adding the following property to TRIRIGAWEB.properties: USE_LEGACY_GANTT_APPLET=TRUE

Area of Change	Description
	(Tri-198075)
Gantt	The new HTML5 version of a Gantt section does not currently support Calculate from Both or showing Baseline durations in the Gantt chart. If you want to use the Legacy applet, set the USE_LEGACY_GANTT_APPLET=TRUE in TRIRIGAWEB.properties. (Tri-198075)
Globalization	You can manually add the WF_NOTIFICATION_EMAIL_ID_FROM_DISPLAY_LABEL property to the TRIRIGAWEB.properties file. You can use the WF_NOTIFICATION_EMAIL_ID_FROM_DISPLAY_LABEL property to assign a title to the outgoing email address that is defined in the WF_NOTIFICATION_EMAIL_ID property. (Tri-211054-IV81332)
Installation	Installations now set the DATA_DBUSER and DATA_DBPASSWORD in the TRIRIGAWEB.properties file correctly at the time of installation. (Tri-204737)
Installation	The user name and password in TRIRIGADB.properties file are now encrypted by default. (Tri-213312-IV82469)
Notifications	External mail notifications now allow an internal and external link to be included in the message. To include the external link, you must set the external front end server in TRIRIGAWEB.properties file. Set the EXTERNAL_FRONT_END_SERVER property to the external URL that you would like the external recipient to be directed to. An example is provided in the TRIRIGAWEB.properties configuration file. (Tri-214687; RFE-56548)
Platform Maintenance Agent	The Platform Maintenance Agent will now allow for a timeout. The new CLEANUP_TIMEOUT property is in TRIRIGAWEB.properties file, and will tell the cleanup agent to stop after it runs for the configured number of minutes. (Tri-175537)
Reporting	A new property was added to TRIRIGAWEB.properties file called TINYMCE_HTML_EDITOR_ENABLED. The TINYMCE_HTML_EDITOR_ENABLED property determines whether the HTML Editor button will display in the form notes field. The value of the property is set to true by default, which will display the button in notes field. (Tri-218297-IV83117)

Area of Change	Description
Security	An issue was resolved where a user might be tricked into clicking a link on an external site where an attacker might trick the user into a Cross Site Request Forgery attack. You can add the KNOWN_REFERRER_LIST property to the TRIRIGAWEB.properties file. If the KNOWN_REFERRER_LIST property is not included, the platform behaves as before and does not check referrers. If the property exists, the values are a comma-separated list that is intended to restrict the allowable referrers of links that interact with TRIRIGA when no security token exists on the request. CVEID: CVE-2016-0346 CVSS Base Score: 8 CVSS Temporal Score: See https://exchange.xforce.ibmcloud.com/vulnerabilities/111813 for the current score CVSS Environmental Score*: Undefined CVSS Vector: (CVSS:3.0/AV:N/AC:L/PR:L/UI:R/S:U/C:H/I:H/A:H) (Tri-215833-IV82436)
Virus Scanning	Resolved an issue with the integration of McAfee ICAP virus scanning. The platform no longer sends null bytes at the end of the file stream to the server. The platform allows the configuration of an ICAP 204 response. The following new properties can be added to TRIRIGAWEB.properties to allow greater control of ICAP: VIRUS_SCAN_ALLOW_204=Y VIRUS_SCAN_SERVICE_NAME=SYMCScanResp-AV VIRUS_SCAN_FIRST_READ_TIMEOUT=3000 VIRUS_SCAN_SECOND_READ_TIMEOUT=3000 (Tri-205497-IV79655)

IBM TRIRIGA Application Platform 3.5.0 Enhancements

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

Area of Impact	Description
AnyChart	Chart rendering tool is upgraded to AnyChart 7. (Tri-173978)
Builders	Modified By is now supported for Modules, Business Objects, and Forms. It is also visible in the Workflow Builder, Report Builder, Data Modeler and Form Builder along with Modified Date and can be used in Object Migration as a search filter in the Object Finder.
Globalization	You no longer need to restart the server after you import a language pack for hierarchy action buttons to be updated in the view. After the import, clear object metadata cache in the Administrator Console and clear browser cache. (Tri-174265)

Area of Impact	Description
Graphics	Images are no longer stored in the userfiles/images or userfiles/Company-1 directories on the application server. A startup process moves the current images into the database, moving the existing files into a backup directory on the application server. This allows multiple application servers access to images from the same source. (Tri-164588)
Installation	Platform SQL scripts and stored procedure updates now run at the start of the application server. This is now referred to as the server and database synchronization process. If multiple application servers are started at the same time, the first one up locks the database so that the synchronization process does not run into concurrency problems. The other application servers wait until the first completes the synchronization process and then resume after the lock has been removed. To allow another server to start if the first server crashes, run: DELETE FROM ENVIRONMENT_PROPERTIES WHERE ENVIRONMENT = 'com.tririga.platform.upgrade.UpgradeScriptsImpl' ; commit; (Tri-173802)
Installation	You can now specify a licenses directory from the TRIRIGA installer. This option is only available for upgrade installs when the old installation /config/licenses directory is empty or for new installs. The licenses are copied from the specified directory into the /config/licenses directory in the new installation. In an upgrade install, if the old /config/licenses directory contains at least one license, the installer does not prompt for the licenses directory. (Tri-148551)
Integration Object	Integration Object File To DC scheme now allows for the selection and use of the DC_PROJECT field in the Data Map. (Tri-180545)
Licensing	TRIRIGA licenses now have SLM tag files. For concurrent user licenses, every 10 minutes an active session_user snapshot is taken and the user count values are appended to the SLM files. (Tri-171924)
Look & Feel	IBM TRIRIGA Application Platform V3.5.0 includes a new Look & Feel. For instructions on how to apply the new skin, see the IBM TRIRIGA wiki.
Object Labeling	Modules, Business Objects, Forms, Workflows, Queries and UX Metadata have been labeled with either the Root Label or the 10.5 Label depending on the type of install (new install or upgrade install). If an object is modified it will get the In Progress Label. Labels will be used in the future to help with Upgrades and dealing with customizations. For Business Objects, Forms, and Workflows, modified means that the object is published. For Modules and Queries, modified means that the object is saved. For UX Metadata, modified means that the object is snapshotted.
Object Migration	Object Migration now supports automatically running a workflow after successful import of a package. The workflow must be defined in the package and import must be successful.
Offlining	The third-party API for reading and writing Excel documents was upgraded from Apache POI 3.11 to Apache POI 3.13. (Tri-194036)

Area of Impact	Description
Performance	The call to PKG_CLEANUP was moved into JDBC database calls to improve cleanup performance. (Tri-153809)
Record Runtime	Some images were moved from the ibm-tririga.war file to the server's userfiles/images/icons directory. Now you can replace these images with custom images. The images include Arrow_StepBack.gif, date.png, list-drop-down-lrg.png, negative.png, positive.png, repeatingEvent.png, table-smart-section-record.png, upload-image.png, and url-preview.png. (Tri-178156)
Reporting	A new feature tracks report execution. You can now track who ran the report, when the report was run, and how long the report took to execute. This data can be seen on thenewSmanager. (Tri-178243)
Reporting	Report titles are now word-wrapped. Long report titles no longer stretch out the display window. (Tri-178242)
Reporting	Threshold records are no longer ignored for metric reports. (Tri-195766)
Reporting	You can select additional tokens when building a query in the Report Manager. These tokens are available for date and date time filter types. The tokens included give you today's date, the current week, month and year. In addition, you can subtract decimal values to these tokens. For example, subtracting one day from today will return yesterday's date. (Tri-176663)
Security	Enhanced security.log logging when a user is denied access to an object because of security or license.
System Setup	Removed IBM branding from various web page titles that were still displaying "IBM-TRIRIGA" despite custom user configuration. (Tri-191221; RFE-76805)

IBM TRIRIGA Application Platform 3.5.0 Changes

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

Area of Change	Description
Administrator Console	A user can no longer log in to the Administrator Console if the application server does not have licenses. (Tri-199464)
Administrator Console	In the Administrator Console, when you go to a different part of the console, the session's data is no longer cleared. In addition, the session does not time out prematurely. (Tri-186757-IV75835)
Administrator Console	In the Workflow Agent Manager of the Administrator Console, the Run Workflows Triggered By Scheduled Events As field is now a text field. The field accepts the case-sensitive user name to use to run scheduled event workflows. To change the user, type the user name to run events as. To run workflows as the default user, type the word DEFAULT. (Tri-186860-IV75839)

Area of Change	Description
Administrator Console	SMTP logging can now be enabled by adding the following three categories manually in the Administrator Console. DEBUG: com.tririga.platform.notification com.tririga.architecture.mailer com.tririga.architecture.extmailer (Tri-185086)
Administrator Console	The System Manager now includes the TRIRIGA DB file. The TRIRIGA DB file replaced the TRIRIGA MIDDLEWARE file. (Tri-194375)
Administrator Console	The Workflow Agent Manager has a new action that you can use to reset or remove all restricted user list settings. With this new action, you can remove settings for a server that is no longer in the current environment. (Tri-188425-IV76181)
Application Server	IBM WebSphere Liberty has been upgraded to 8.5.5.7. (Tri-181588)
Application Server	On IBM WebSphere Full Profile, the TRIRIGA_IBM_ICU4_8_1_1 is now set to isolated = true. (Tri-177206-IV75955)
Application Server	The IBM TRIRIGA log in page and warning messages have been updated to a more modern design and style. (Tri-194567)
Builder Tools	A user with no access can no longer export the where used data for an object. (Tri-193476)
Data Integrator	The system read-only Created Date/Time field value is now populated when you use the Data Integrator to create a record. (Tri-179905-IV74645)
Data Modeler	Fixed an issue with the Data Modeler and object migration where if a Microsoft SQL Server maximum row size exception was raised during publish that the platform rolled back changes to the data tables (T_ tables) to prevent duplicate field creation on a subsequent publish. This change was only made for SQL Server. (Tri-192421-IV77119)
Data Modeler	Resolved a database issue that might cause an arithmetic overflow when resizing the length of a business object text field. (Tri-186385)
Document Management	Document upload now checks for the length of the name, number, and description when uploading. (Tri-193673-IV77521)
Document Management	Removed a double slash in document upload so that certain third-party security filters do not block the upload.js and upload.css from being sent to the browser. (Tri-185841)
Document Management	The Document Management tree now adheres to the value of the TREE_PAGING_SIZE property in the TRIRIGAWEB.properties file. The default value is 1000. Note: If TREE_PAGING_SIZE is set to a high number, and there are many records at one level in the tree, performance is impacted. (Tri-183727-IV75373)

Area of Change	Description
Document Management	The Toggle MultiFile link access restriction now depends on the permission on the folder record. (Tri-191576)
Document Upload	The clear action now works when uploading a record to a document. (Tri-202377)
Firefox	The refresh spinning icon in availability sections now displays properly in Firefox. (Tri-172732)
Form Builder	A user can now select a pop-up from a drop-down value after selecting a pop-up module when creating a new field action. (Tri-193992-IV77639)
Form Builder	Creating a tab on an unpublished form no longer causes an error to be displayed. (Tri-184886)
Form Builder	When you click the Apply button, the Associated Query/Availability section property value is now saved. (Tri-180710)
Globalization	Duplicate rows no longer appear in a report when a non-US English-language user sorts the report by a dependent list field. (Tri-171429-IV72771)
Globalization	If an error occurs when you export system labels, the error is logged to the server.log and the remaining system labels are processed. (Tri-176529)
Globalization	Localized values of a locator field are now trimmed if the values are larger than the size set in the locator field. (Tri-194218)
Globalization	Multi-tab form section labels now export with correct values from the form metadata to their SECTION_NAME properties. Affected labels will appear as delta on your next export, even if they were previously exported, and their <tririga> tag will be updated with the correct values. (Tri-166184)
Globalization	Resolved an issue that caused filtering of columns for module, business object, or form to not work correctly if the user's language was not the base language. (Tri-170457)
Globalization	When a user modifies the values of a list, the changes are now immediately reflected in forms, object migration, and globalization manager exports. There is no longer a need to first refresh the object metadata cache. (Tri-156607)
Google Chrome	A floor name that contains special characters can now be exported in Google Chrome. (Tri-189852-IV76730)
Google Chrome	Data is now saved when you right-click to paste a value into a multi-text area within Google Chrome. (Tri-189312-IV76387)
Google Chrome	Google Chrome pop-up windows within a record are positioned so that a user can interact with the window instead of scrolling to the top of the form. (Tri-188409-IV76176)

Area of Change	Description
Google Chrome	Uploading BMP files to a Note field now displays the images correctly. (Tri-185394-IV75638)
Graphics	The Show Tooltip menu and hover over label now display when a theme is applied to a graphic by using the right-click menu. (Tri-169092)
Graphics	When selecting entities in a standalone graphics section, the selected objects are saved in the session. When viewing the graphic in print preview, or returning to the tab which contains the graphic section, the graphic is rendered with the entities selected that were selected before. These selections do not persist to the database, however. (Tri-192318-IV77106)
IBM TRIRIGA Connector for BIM	Increased the height of Project Settings form so that the form now renders all the form elements in Japanese language. (Tri-204038)
IBM TRIRIGA Connector for BIM	Populate the Current Use Space Class with the correct value when new spaces are created from Revit by a non-English user. The user's language when creating new spaces using the Integrate-Link operation must be the same as the language of the IBM.UseClassification parameter values for the rooms being linked. This value is typically set using the Populate Parameters operation. The Revit Sync operation will set the room IBM.UseClassification parameter with the Current Use Space Class value of the linked space in the current Revit user's language. (Tri-204943)
IBM TRIRIGA Connector for BIM	Resolved an error that occurred when users loaded the Polish language resources for IBM TRIRIGA Connector for BIM. (Tri-191443)
IBM TRIRIGA Connector for BIM	Resolved an issue that kept the building record from being created if the location hierarchy was not in English. (Tri-189222)
IBM TRIRIGA Connector for BIM	Retain the configured default Space Use Class value (in Project settings) when using a different language than the one used when the value was configured. For Revit models that have been configured, this update requires that the default Space Use Class value be configured again. If a configuration was saved to the server as the default configuration, it needs to be saved again. (Tri-204944)
IBM TRIRIGA Connector for BIM	The Sync operation now updates the IBM.Name parameter in the Project (building), Levels (Floors), and Rooms (Spaces) if the name of the Building, Floor, or Space record has been changed in TRIRIGA. (Tri-187987)
IBM TRIRIGA Connector for BIM	Updated the platform to auto-import the BIM package, which is also now exposed in the userfiles directory. The BIM package will now import correctly with the 10.3 TRIRIGA application. (Tri-197211)
Installation	Clean installs no longer deliver test data in the RESOURCE_AVAILABILITY table. (Tri-182140-IV74898)

Area of Change	Description
Installation	In the TRIRIGA installer, the recommended minimum and maximum Java memory sizes are based on IBM's Best Practices for System Performance. WebSphere Application Server Liberty and WebLogic application server installations also mention a recommended PermGen Java memory setting. (Tri-175575)
Installation	Metadata business object loggers are now available in debug mode only. (Tri-174687)
Installation	MSSQL VarChar to NVarChar conversion process now logs messages to server.log. (Tri-203590)
Installation	Resolved an issue where two performance properties were missing from WebSphere Liberty server.xml configuration when using Microsoft SQL Server. These missing properties are in the datasource properties tag, and are defined as follows. sendStringParametersAsUnicode="<true|false>" prepareSQL="2" These properties are now automatically added to the Liberty Configuration. (Tri-187120-IV76021)
Installation	The default action links for a clean install are now set as: SYSTEM_SECTION_ADD_ACTION_STYLE=LIGHT_BUTTON SYSTEM_ACTION_STYLE=LIGHT_BUTTON For 10.5 with the updated look and feel, this is the default. If the new skin is applied to an older 10.4.2 or below database, set these properties to show links as buttons. (Tri-205283)
Installation	The installer no longer runs platform-specific SQL scripts. The platform update scripts were moved to the application server start. There now is a new lock in the database while an application server starts. This lock causes other application servers that start around the same time to wait for the first application server to finish. After the first application server finishes the application server and database synchronization scripts, the second and subsequent application servers start. If an application server has an issue, the lock might remain in the database. To remove this lock, run the statement: delete from environment_properties where property = 'upgrade.lock'; and do not forget to commit. (Tri-195594)
Installation	The installer now contains a panel that recommends checking for fix packs. (Tri-202092)
Installation	The two license panes in previous installers were combined into one license pane. (Tri-194472)
Integration Object	Integration Object Data Map does not render when you use a DB2 data source in the DC to File scheme. To resolve this issue, request an object migration package from TRIRIGA Support and import the package. (Tri-176082)

Area of Change	Description
Integration Object	Resolved an Application Custom Class Loader issue. When the Class Loader delegation was to Parent-Last, class loading functionality was unexpectedly being pushed to the parent class loader when the Custom Class Loader attempted to load certain Java classes from packages such as javax.*. (Tri-171886-IV73401)
Integration Object	Resolved an Integration Object issue where the Database Inbound scheme was not correctly populating Note fields. (Tri-172159)
Internet Explorer	Fixed an issue for IE11 where modal window goes in background of parent window after opening. (Tri-194452-IV78249)
Internet Explorer	Resolved an issue in IE 11 where note sections within a form may freeze after changing a field value. (Tri-187444-IV76209)
Log In Page	The log in page now has a new IBM TRIRIGA logo and style. (Tri-189921)
Microsoft Excel	The Excel functions that IBM TRIRIGA supports are now documented in the Application Building for the *IBM TRIRIGA Application Platform 3 User Guide*. (Tri-191607-IV77002)
Navigation Builder	Navigation items that were found after a search and deleted are now removed from the results pane. (Tri-200162)
Notices	Resolved an issue where the user action item count was different from the actual records for the action item. (Tri-166988-IV72045)
Notifications	After a user clicks a linked record within an email that is generated from the TRIRIGA application, and then clicks the Open In New Window icon, the record now loads properly. Before, the result was a "Please wait" message. (Tri-185842-IV75721)
Notifications	External notification emails with hyperlinks now display the hyperlink text in the language from the user's profile. (Tri-172709)
Numbers	Clearing a currency number field and then saving the form no longer displays an error message. (Tri-192769-IV77205)
Numbers	If a number display mask does not have comma in it, you cannot use a comma when you enter the value. Entering a comma in the value clears the value. To enter a number with a comma, you must change the display mask. (Tri-116106)
Numbers	Resolved an issue that caused a number that was entered into a non-currency number field to be cleared when the record was saved. The value is now saved. (Tri-195864)
Object Migration	Added a back button that appears when performing the "Find Dependents" or "Search" actions to increase general usability when using these functions. (Tri-195681)

Area of Change	Description
Object Migration	An issue was fixed where the navigation tabs in the home page would disappear after importing an object migration package that contained the triPlatformMenu list. (Tri-197114)
Object Migration	Fixed an issue where a Null Pointer Exception was issued when adding a security group for object migration export. (Tri-182884)
Object Migration	OSLC resource now exports/imports correctly by Object Migration if it contains two properties with the same section name and field name. (Tri-183614)
Object Migration	Fixed an issue where read only access in a group getting changed to inherit from parent after group is imported. (Tri-194534-IV77647)
Object Migration	Importing forms with calendar sections that include calendar sets in the same import package no longer creates validation warnings about missing or invalid calendar sets. (Tri-120858)
Object Migration	Improved the performance when adding objects after using search; the process of adding objects was kicking off the search again unnecessarily. Also improved the OM debug logging. (Tri-202276)
Object Migration	Object migration import of groups now successfully imports security settings for Calendar Set Builder, Scorecard Manager, Form Builder, Navigation Builder, and Portal Builder. (Tri-202271)
Object Migration	Resolved an object migration issue involving the import of the System Portal List that caused portals not to display. (Tri-194314)
Object Migration	The "Full Package" Create Mode export option was removed from object migration. To create a full package, do the following steps: 1. For Create Mode, select Empty. 2. For each Object Type, search for and select all objects to add to the package. a. In the Search Parameters section of the Object Finder panel, select an Object Type and click Search. b. In the Search Results section, select all objects of this object type by clicking the check box next to the object type. c. Click Add Selected Objects. 3. Repeat the steps for each set of objects that you want to include in your package. Attention: For the Record Data object type, you must select each module individually and add all of the object search results to the export package. (Tri-173046)
OSLC	Improved the performance of OSLC queries. Improvement is visible especially when no linked resources are involved. (Tri-182052)
Performance	Added a warning if a deadlock occurs when saving workflow instances. The warning states that the process cannot save the workflow instance step list. You might be saving too many instances. Do not set Workflow Instance Saving to ALWAYS in a production environment. (Tri-189660-IV76685)

Area of Change	Description
Portal	If the value of the Help property of a quick links navigation collection is empty, when the navigation collection is displayed in a quick links portal section, no extra space displays between the navigation collection label and the label of the first navigation item. (Tri-178134)
Portal	The Personalize, Open in New Window, and My Bookmarks icons have been updated. The following icons can be updated by placing the new icon in the "userfiles/images/icon" directory. customize-icon.png MyBookmarksIcon.png AddBookmarkIcon.png open-in-new-window.png (Tri-204723)
Portal	When selecting a company or project view on the main page the home page now loads. (Tri-197300-IV8336)
Record Runtime	Resolved an issue where some form sections were spanning less than half of the screen width. (Tri-193235)
Record Runtime	Resolved an issue where manually entering a date into a date field, which is set to relative in data modeler, would not save the correct date that was entered. (Tri-195406-IV77940)
Record Runtime	Carriage returns are no longer using their formatting when an onChange workflow is triggered on a text area field. (Tri-200460-IV78541)
Record Runtime	Editable query test will now save when the field did not lose focus prior to saving the form. (Tri-199425)
Record Runtime	Resolved an issue where platform upgrade may fail to load user's profile data if the isBidiEnable field is not available. (Tri-195217)
Record Runtime	Resolved an issue where print preview page won't load because the calendar section start date and end date are not specified. (Tri-187779)
Record Runtime	Resolved an issue where selecting a classification value in editable query was not saving the classification value. (Tri-195774)
Record Runtime	Locator fields in an editable query when no locator query was defined will loads. (Tri-197168-IV78335)
Record runtime	Resolved time zone and format mismatches between form and query. Time zone now reflects Daylight Saving Time correctly. It shows the time based on the user's profile current settings. (Tri-193308)

Area of Change	Description
Record Runtime	The message "To see more, use a master-detail target" no longer appears in hierarchy trees that contain more records than the value of the TREE_PAGING_SIZE property at one level. Users now are only shown "First 1000 displayed" when the value of TREE_PAGING_SIZE=1000. As a reminder, it is best practice to have records at different levels in trees, and not all at one level. Having too many entries at one level negatively impacts performance. (Tri-184748-IV75446)
Record Runtime	Upload from the Related Documents section of the Notes & Documents tab of a record now loads the document management tree structure in Chrome, Firefox, Internet Explorer 11, and Safari. (Tri-184770)
Record Runtime	You can now drill into a date on a record's Calendar tab and see the details in a Day/Week/Month/Quarter/Year view. (Tri-187514-IV76097)
Record Runtime	You can now pick a date through January 1, 4001 by using the date picker. (Tri-186465-IV75813)
Reporting	A charting issue was resolved with the upgrade of the chart rendering engine to AnyChart 7, where not all legend data was being correctly displayed. (Tri-171417)
Reporting	A privilege escalation on editing reports has been mitigated. If a user that should not have access to a particular report somehow receives the report ID, the user still should not be able to access the record. If the user intercepted and replaced the report ID in the packet header information between the client and server side of the TRIRIGA application. (Tri-171002-IV72628)
Reporting	Adds support for an additional Y-Axis in metric reports, and also fixes several issues that were related to chart colors when using thresholds and scorecards. (Tri-183741)
Reporting	Adds the following support for thresholds in metric charts rendered in AnyChart. - display threshold lines - display bar data in associated threshold color - display threshold data in legend. (Tri-183737)
Reporting	Date fields marked as Relative will now work properly with a runtime equals filter. (Tri-174245-IV73796)
Reporting	Date-time fields are now consistent with the time zone selected by the user when running any report. (Tri-194984)
Reporting	Resolved an issue in a query where the color's hex value was displayed in addition to the color. (Tri-200583-IV78519)
Reporting	Resolved an issue where metric chart rendering prints JavaScript on the browser window. (Tri-188279)
Reporting	For a non-US English-language user, filtering now works correctly for Form or Shared Groups. (Tri-170453)

Area of Change	Description
Reporting	In outgoing mail from the TRIRIGA application that contains reports or queries with date and date-time fields, the date and date-time fields are now formatted based on the formats in the user's My Profile. (Tri-167828-IV74138)
Reporting	Metric chart reports now support Save as JPG, Save as PDF, and Save as PNG. Right-click anywhere on the chart to see a menu with the save options. (Tri-183784)
Reporting	Pie chart grouping is no longer lost when Group By fields do not also appear in the Order By list on the report design. (Tri-186660-IV76022)
Reporting	Report Manager no longer creates an error when the user saves a report twice or when the user saves and then selects a different tab. (Tri-187608)
Reporting	Resolved an error that occurred when a user attempted to save a color field that contained a '#<hex value>' within a threshold record. (Tri-195770)
Reporting	Resolved an issue in Internet Explorer where switching to a different tab in the Performance Metric Reports lower section did not display the tab. (Tri-176532)
Reporting	Resolved an issue where a BIRT report was sometimes displayed to a user in a language that was not theirs, but was the language of another user on the same server. (Tri-183416-IV77021)
Reporting	Resolved an issue where capture period filters on metric query reports were not showing all data if the filter value was set to the Classification root. Data corresponding to only the current capture period was displayed. With this change, all data is now displayed regardless of the record's capture period when the capture period filter value is set to the Classification root. (Tri-178020)
Reporting	SystemReport and CommunityReport strings were separated into two words each. The strings are now "System Report" and "Community Report." (Tri-174026)
Reporting	The check box that selects all records no longer remains checked after the action completes. (Tri-184447)
Reporting	The error message that displays in the report manager when an attempt to share a report with another user fails due to lack of permissions is now, "You do not have permission to share the following reports". (Tri-190309)
Reporting	The IBM TRIRIGA BIRT Features add-in site is fixed. To install the add-in from a running application server, go on an Eclipse application, go to Install New Software, and specify [app server url]/eclipse. For example, if an application server has the server url: http://localhost:8080/dev, in the installation software download site, specify: http://localhost:8080/dev/eclipse. (Tri-177572)
Reporting	The IBM TRIRIGA BIRT plug-in can now connect with HTTPS SSL servers while using Java JDK 1.7 as well as Java JDK 1.6, for both previewing and downloading the plug-in. (Tri-187111)

Area of Change	Description
Reporting	The list of reports in the Report Manager now automatically refreshes after the user takes an action to modify the list in some way. (Tri-190318)
Reporting	The Security sub-tab displays when the Show As Community Report check box is cleared or selected. (Tri-188990)
Reporting	The tag is now copied when a report is copied. (Tri-171222)
Reporting	Updated pie chart labels to be in compliance with AnyChart 7. As in previous releases, the pie chart labels display the name of the data representation, its value, and the percentage of the pie chart that the data populates. (Tri-183735)
Reporting	Users in a group that has View access to a report in the report's Security tab now can see the report in their My Reports tab and run it. (Tri-184657-IV75476)
Reporting	When exporting an editable query to Excel (*.xls) with at least one group by value, currency values now show as currency or number cell values in the Excel file. (Tri-197033-IV78307)
Reporting	When you look at the underlying data in a metric report and go to the second page, an error no longer displays. (Tri-196525-IV78171)
Reporting	With access to the My Reports tab, a user can create reports that show forms and sections on forms, even when the user's group access is no access for the section, form, or module. My Reports ignores the access restrictions in groups. (Tri-180745)
Scheduled Events	Resolved an issue where a decimal value was erroneously used in an ID field for Scheduled Events. (Tri-186410-IV76293)
Security	A cross site request forgery attack has been fixed. Now, reports can be created and saved only within the TRIRIGA application. If in a different tab in the same browser a TRIRIGA user is accessing the application, there is a way to send a new report request to the application server, that request will now be blocked. (Tri-171005-IV74599)
Security	Added a new license, LICENSE_IBM_TRIRIGA_Facilities_and_Real_Estate_Management_on_Cloud_Anywhere, and updated existing licenses to support UX. (Tri-203000)
Security	Metric technology is now used with Reserve and SaaS licenses. (Tri-204079)
Security	Report Manager access now includes a Read permission for My Reports. Users in groups where the most permissive access to My Reports is Read can only run reports, unless the report's Security tab has Edit selected, in which case users can edit the report. (Tri-181973-IV74860)
Security	Resolved a vulnerability with Injected Serialized Objects. (Tri-203597)

Area of Change	Description
Security	Resolved an issue that caused a permission error for a user that had access to a linked record. (Tri-175318-IV73790)
Security	When you copy a group, the record ID of the new group is appended to the "Copy Of" name so that the new name is unique. (Tri-174747-IV73366)
SQL Server	The installer now installs a single-byte instance of MSSQL Server. (Tri-202994)
Style Manager	The style of a form's bottom action bar now matches the style of the upper navigation bar. Now, changing the style in Tools > Style Manager > Form Styles > Form Tab/Actions Bar Background Color resolves both navigation bars. (Tri-177096)
Style Sheet Editor	Manager tool bar header border style is now configurable. (Tri-178151)
Style Sheet Editor	Setting the values of the padding-bottom, padding-left, padding-right, and padding-top properties in the Style Sheet Editor now works as expected. This change might affect your forms. If you want to change the properties for forms, go to Tools > Administration > Style Manager > Style Sheet Editor. (Tri-178141)
TDI Agent	Resolved an issue with the Tivoli Directory Integrator agent that resulted in an error written to the TDI log file when the agent was started. "ERROR [tdisrvctl] - CTGDJB125E Unable to get list of all running Configs" is no longer written to tdisvrctl.log when the TDI agent starts. (Tri-169367)
Web Graphics	Fixed an issue where graphic legend columns were not rendered Right to Left for an Arabic language user. (Tri-133282)
Workflow	A defect has been fixed where in the expression editor for workflow tasks, after selecting a system function, selecting a field in the "Tasks" section would not enter the field name at the cursor position in the expression editor. (Tri-177912)
Workflow	An issue was fixed in the workflow expression editor where it would not load if it referenced a deleted workflow task item or field. (Tri-189019)
Workflow	An issue was fixed where object mapping fields that did not have any populated data were being saved to the database anyway. Now, only object mappings with data entered by the user will be saved to the database. (Tri-189593)
Workflow	Deleting a workflow from the builder will delete the data permanently. (Tri-168175)
Workflow	Fixed an issue where clean up agent, after processing clears the schedule task properties and mapping. (Tri-189957-IV76874)
Workflow	Fixed an issue where formula mapping into note field, in workflow modify or create task, was not mapping the value. (Tri-186415-IV75838)

Area of Change	Description
Workflow	When mapping objects in the Workflow Builder, the number of parameters that are sent in the URL from the client to the server was reduced. Generally, at most two parameters are now sent for each object that is mapped, instead of 7 - 10 per object. (Tri-181833-IV62154)
Workplace Reservation Manager	Improved the error message that is written to the server.log file when SMTP mail cannot be delivered. The message now includes the list of recipients to which TRIRIGA could not deliver. (Tri-188379)
Workplace Reservation Manager	In the outlook.log file, the error message, "Error converting value nnnnnnnn to type 'ReserveOutlookAddIn.DTO.Response' no longer appears under normal operating conditions. (Tri-190241)
Workplace Reservation Manager	Reserve Outlook Add-in 1.3.3 can now be installed on 32-bit Windows. (Tri-203705)
Workplace Reservation Manager	When a user's time zone is before the TRIRIGA server time zone, reservations now appear on the correct day on the calendar. For example, Central Standard Time is before Eastern Standard Time. (Tri-179225-IV74439)
Workplace Reservation Manager	When you reserve a space, the selected detail options are now displayed correctly. (Tri-181609-IV76299)

IBM TRIRIGA Application Platform 3.5.0 Properties Files

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

Area of Change	Description
TRIRIGADB.properties	The TRIRIGADB.properties file has been added.
TRIRIGAMIDDLEWARE.properties	The TRIRIGAMIDDLEWARE.properties file has been removed.
TRIRIGAWEB.properties	Updated the comment for the FRONT_END_SERVER to make it clear that only the port is optional. (Tri-184733-IV75483)
TRIRIGAWEB.properties	With the upgrade of the chart rendering engine to AnyChart 7, the property CHART_RENDERING_TYPE was removed from TRIRIGAWEB.properties. (Tri-188599)
TRIRIGAWEB.properties	You can now customize report actions with the SYSTEM_ACTION_STYLE property in TRIRIGAWEB.properties. Actions can be displayed as a link or button. (Tri-178150)

Area of Change	Description
TRIRIGAWEB.properties	A new property, SSO_DISABLE_UNAUTHORIZED_STATUS, has been added to the TRIRIGAWEB.properties. This property tells the unauthorized.jsp page to send the 401 Unauthorized response in the HTTP Header. The default is N, which means that the 401 header is sent. Setting the property to Y disables the header, so that no 401 is sent. (Tri-191707-IV77052)
TRIRIGAWEB.properties	The 'QUERY_CHART_IMAGE_URL' and 'ENABLE_CHART_ANIMATION' properties have been removed from TRIRIGA_WEB.properties as they are no longer used with AnyChart 7. (Tri-183799)
TRIRIGAWEB.properties	The documentation for INSTANCE_ID and INSTANCE_NAME was updated to indicate that each property is optional and can be used in any environment configuration as an easy-to-remember name for the different instances connecting to the database. (Tri-182764)
TRIRIGAWEB.properties	You can now preserve all object migration (OM) package metadata for audit purposes. This feature can be enabled by setting OM_AUDIT_TRAIL_ENABLED to TRUE in the TRIRIGAWEB.properties file. This enhancement also adds the ability to configure how many days the metadata of deleted OM packages are kept in the database. This feature can be configured by setting the OM_AUDIT_TRAIL_RETENTION_DAYS property in the TRIRIGAWEB.properties file. After this property is set, all deleted OM Package metadata older than the desired number of days are purged by the cleanup agent. (Tri-177797)

IBM TRIRIGA CAD Integrator/Publisher 12.1.4

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 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 12.1.4 Changes

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

Area of Change	Description
Globalization	For non-English TRIRIGA CAD Integrator/Publisher users, clicking on the Show More Results action now shows additional data. (Tri-216999-IV83317)
Installation	CAD Integrator now requires Java 8. The installer will only recognize Java 8, and the installer upgrade will prompt for a new Java 8 JVM if the previous version was not already configured for Java 8. (Tri-210395)
Installation	IBM TRIRIGA CAD Integrator for MicroStation V8i (SELECTseries 2 or SELECTseries 3) now launches correctly after installation on a client machine which also has MicroStation CONNECT version installed. (Tri-211097)
Sync	Sync Areas and Sync Full were updated to account for a change in the area units of the top-level record (typically floor/building record) and to update the areas correctly. (Tri-207435-IV79858)

IBM TRIRIGA CAD Integrator/Publisher 12.1.4 Properties Files

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

IBM TRIRIGA CAD Integrator/Publisher 12.1.3 Enhancements

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

Area of Impact	Description
Installation	CAD Integrator is updated to support AutoCAD 2016 and AutoCAD Architecture 2016. Support for AutoCAD 2013 has been removed. (Tri-177448)

IBM TRIRIGA CAD Integrator/Publisher 12.1.3 Changes

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

Area of Change	Description
General	Attached design files now display the login prompt when starting MicroStation. (Tri-174148-IV73453)
Installation	Resolved an issue where the CAD Integrator and Revit installers would not launch on a Windows machine with Java 8 update 60 or higher. (Tri-198001)
Login	A new checkbox option is added to the Environments form to Always Trust SSL Certificate when user login. Always Trust SSL Certificates option is unchecked by default. (Tri-171482-IV74437)
Login	Resolved an issue on environments with multiple forms with the same name that can cause the application definition to fail to load when referencing these forms. (Tri-193160-IV77547)
Menu	The default AutoCAD drawing is not a valid drawing, so the IBM TRIRIGA menu items are not enabled. To enable the menu items, save the drawing. (Tri-192890)
Planning Process	The create planning process in AutoCAD now correctly saves the planned drawing immediately after creation. (Tri-172626)
Smart Attach	Resolved an issue in CAD Integrator where an upload in Smart Attach created records based on the default gui, not the gui specified in the CI Application Definition. (Tri-194495-IV77662)
Sync	Running the Sync Full command in MicroStation now inserts new cells to account for updated people or asset associations correctly. (Tri-176229-IV74743)

IBM TRIRIGA CAD Integrator/Publisher 12.1.3 Properties Files

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

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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_10.5.1/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_3.5.1/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

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