

IBM TRIRIGA

Version 10.3.1

IBM TRIRIGA Application Platform

Version 3.3.1

Release Notes



Note

Before using this information and the product it supports, read the information in "Notices" on page 90.

Second edition, June 2013

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

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Contents

RELEASE NOTES	1
What's New in This Release	1
IBM TRIRIGA 10.3.1 Enhancements	1
IBM TRIRIGA Application Platform 3.3.1 Enhancements.....	2
IBM TRIRIGA CAD Integrator/Publisher 12.0.1 Enhancements	3
Important Installation and Upgrade Information	4
Upgrade from IBM TRIRIGA 10.x/IBM TRIRIGA Application Platform 3.x → 10.3.1/3.3.1	5
Upgrade from IBM TRIRIGA 10.x/IBM TRIRIGA Application Platform 3.x → 3.3.1 (Platform Only)	6
Upgrade from TRIRIGA 9/Prior to TRIRIGA Application Platform 3.0 → 10.3.1/3.3.1	7
Upgrade from Prior to TRIRIGA 10.0/TRIRIGA Application Platform 3.0 → 3.3.1 (Platform Only)	8
IBM TRIRIGA 10.3.1	10
Important Information	10
Known Limitations	11
IBM TRIRIGA 10.3.1 Changes	12
IBM TRIRIGA 10.3.0.1 Changes	20
IBM TRIRIGA 10.3 Enhancements	21
IBM TRIRIGA 10.3 Changes	22
IBM TRIRIGA APPLICATION PLATFORM 3.3.1	45
Important Information	45
Known Limitations	52
IBM TRIRIGA Application Platform 3.3.1 Changes	54
IBM TRIRIGA Application Platform 3.3.1 Properties Files	61
IBM TRIRIGA Application Platform 3.3.0.1 Changes	62
IBM TRIRIGA Application Platform 3.3.0.1 Properties Files	63
IBM TRIRIGA Application Platform 3.3 Enhancements	63
IBM TRIRIGA Application Platform 3.3 Changes	65
IBM TRIRIGA Application Platform 3.3 Properties Files	72

IBM TRIRIGA CAD INTEGRATOR/PUBLISHER 12.0.1	75
Important Information	75
Known Limitations.....	76
IBM TRIRIGA CAD Integrator/Publisher 12.0.1 Changes	76
IBM TRIRIGA CAD Integrator/Publisher 12.0 Enhancements.....	82
IBM TRIRIGA CAD Integrator/Publisher 12.0 Changes	83
IBM TRIRIGA APPLICATION OBJECT MIGRATION PACKAGES	84
Applying the Application Object Migration Package	84
Import Patch Helper Record.....	86
IBM TRIRIGA SUPPORTED VERSIONS AND IBM TRIRIGA APPLICATION PLATFORM COMPATIBILITY MATRIX	88
RELATED DOCUMENTATION	88
SUPPORT	89
NOTICES	90
Privacy Policy Considerations.....	91
Trademarks.....	92

Release Notes

Welcome to the June 2013 release of IBM® TRIRIGA® 10.3.1 and IBM TRIRIGA Application Platform 3.3.1. This release includes a full installation of the platform and applications and a platform-only upgrade installation from 2.5.x or higher to IBM TRIRIGA Application Platform 3.3.1.

IBM TRIRIGA delivers application object migration packages using two different methodologies: incremental packages and cumulative packages. See [IBM TRIRIGA Application Object Migration Packages](#) for more information.

- Incremental Package - Each application release is a separate file. The latest incremental package is for IBM TRIRIGA 10.3.1.
- Cumulative Package - The entire suite of IBM TRIRIGA applications through IBM TRIRIGA 10.1 is in one file. Cumulative packages offer a substantial time savings for customers upgrading across several releases. The latest cumulative package is for IBM TRIRIGA 10.1.

These release notes include the following:

- An overview of enhancements and changes
- A list of known limitations
- A list of documentation changes in this release

Many of the descriptions include an internal reference number (Tri-nnnnn).



Note - To request access to IBM TRIRIGA software releases prior to IBM TRIRIGA 10.2 or IBM TRIRIGA Application Platform 3.2, submit a ticket through the IBM Software Support site at www.ibm.com/support.

What's New in This Release

With IBM TRIRIGA 10.3.1 and IBM TRIRIGA Application Platform 3.3.1, IBM TRIRIGA continues to add valuable functionality, fix defects, and reduce the effort necessary for new and existing customers to implement our products. Highlights in IBM TRIRIGA 10.3.1 and IBM TRIRIGA Application Platform 3.3.1 include the following:

IBM TRIRIGA 10.3.1 Enhancements

The enhancements to IBM TRIRIGA for this release include the following:

Area of Impact	Description
Workplace Reservation Manager	You can perform workspace searches based on the functional role entitlements that are configured on the workspace for the user that is identified as the requested for. This feature is enabled and disabled in the Application Settings. (Tri-70097)
Asset Lease	The FASB 13 Treatment section is now available for asset leases. You use this

Area of Impact	Description
	section to identify whether an asset lease is treated as an operating lease or as a capital lease. (Tri-80665)
Real Property Information Model	IBM TRIRIGA has been enhanced to support the requirements of the US Department of Defense Real Property Information Model (RPIM) initiative. Additions include changes to the data model, classifications, and business rules to support the data elements and reporting required by RPIM.
Workplace Reservation Manager	<ul style="list-style-type: none"> ▪ A notification now informs the requester of a reservation when the room was set up for auto-cancellation and the system canceled the room. (Tri-75224) ▪ New reports for equipment reservations and vehicle reservations show the reservation along with the assets that were reserved. Additional reports show reservations for the next 30 days and reservations in the past. (Tri-68882, Tri-68893, Tri-68971) ▪ New usability features include creating reservations in the past and closing an ongoing meeting early. (Tri-68980, Tri-70252)

IBM TRIRIGA Application Platform 3.3.1 Enhancements

The enhancements to the IBM TRIRIGA Application Platform for this release include the following:

Area of Impact	Description
Accessibility	Users accessing IBM TRIRIGA with an accessibility tool like a screen reader can now read field labels and attributes and the alternate text for images.
Browser Support	<p>Users can now use IBM TRIRIGA from the following browsers:</p> <ul style="list-style-type: none"> ▪ Apple Safari ▪ Google Chrome ▪ Microsoft Internet Explorer ▪ Mozilla Firefox <p>For detailed information about support for each browser, see the Important Information and Known Limitations for IBM TRIRIGA Application Platform.</p> <p>For detailed information about supported browser versions and supported operating systems for each browser, see the IBM TRIRIGA Application Platform Compatibility Matrix.</p>
Globalization	In addition to Brazilian Portuguese, Czech, Dutch, French, German, Hungarian, Italian, Japanese, Norwegian, Polish, Russian, Simplified Chinese, Spanish, Swedish, US English, and Traditional Chinese, IBM TRIRIGA applications now have language packs available in British English, Danish, Finnish, and Korean.

Area of Impact	Description
Help	Help now opens the help record for a business object when invoked from a manager query context. (Tri-88917)
IBM TRIRIGA Connector for Business Applications	The IBM TRIRIGA Connector for Business Applications now supports methods for metric queries.
IBM TRIRIGA Connector for ESRI Geographic Information System (GIS)	The enhanced Esri viewer offers redesigned configuration forms, flexibility in creating customized interfaces with Esri, and an upgrade path from the previous version.
Red Hat JBoss	Red Hat JBoss 5.1 Enterprise Application Platform (EAP) application server is now supported.
TRIRIGA Integration Object	Expanded support for REST API with the following new features: <ul style="list-style-type: none"> ▪ Tokens to use dynamic data from queries to send data ▪ Request types for delete, get, post, and put operations ▪ Headers ▪ Validation of data before it is sent
User's Session	A user with a session that is about to timeout can receive an alert message that gives them notice of when the session is to expire. A system administrator configures this feature from the TRIRIGAWEB.properties. The SESSION_WARNING_ENABLED property can be configured to trigger the alert. The SESSION_WARNING_THRESHOLD property defines how many minutes before the session expires that the alert displays. (Tri-71462, Tri-81074-IV38021)

IBM TRIRIGA CAD Integrator/Publisher 12.0.1 Enhancements

The enhancements to the IBM TRIRIGA CAD Integrator/Publisher for this release include the following:

Area of Impact	Description
Attach	Attach now updates only the fills and labels for the record that is being attached.
Batch Associate	Batch Associate dialog has an improved layout.
Batch Process	Batch Process form allows the user to add or remove multiple drawings at once.
Bentley MicroStation	<ul style="list-style-type: none"> ▪ Edit Record command stays active so the user can open multiple records in a single command.

Area of Impact	Description
	<ul style="list-style-type: none"> ▪ Insert Object and Attach Object commands stay active so the user can insert or attach multiple records in a single command. ▪ Apply Theme, Apply Label, and Apply Report forms stay open so the user can apply different reports in succession. ▪ Smart Attach Design File supports selecting a level. ▪ Batch Associate and Batch Edit support preselecting entities.
Detach Object	Detach Object command now stays active so the user can detach multiple records in a single command.
Insert Object	Insert Object now updates only the fills and labels for the record that is being attached.
Report	Report list now shows the Graphic reports that are defined as My Reports.
Smart Attach	Smart Attach now displays messages that indicate the progress of the records that are being uploaded, for example, "Uploaded 40 of 194 records...".
Smart Attach	Smart Attach now provides the ability to "Select from Drawing" from a button on the Smart Attach dialog instead of from a drop-down list for each layer.
Smart Attach	Smart Attach now remembers the last layer that the user selected for each layer option.

Important Installation and Upgrade Information

Go to the IBM TRIRIGA Application Platform 3 Information Center and read *Installing IBM TRIRIGA Application Platform* before installing. Also read the *IBM TRIRIGA Application Platform 3 Upgrade Installation Guide*, which can be found at <https://www.ibm.com/developerworks/community/wikis/home?lang=en#/wiki/IBM+TRIRIGA1/page/Upgrading>. Note the following in particular:

- All upgrades should be staged in a test environment and thoroughly reviewed before upgrading any production environment.
- Perform a database backup before upgrading any environment.
- The user that performs an installation must have write or create access to the installation root directory.
- When you perform a platform upgrade, make sure there are no application servers running or other active connections to the database. If there are connections to the database other than the installer, the installer may fail.
- After platform new install or upgrade and before starting the application server, make sure your licenses are in the `\config\licenses` folder. All product licenses you own must be in the `\config\licenses` folder. All application servers that point to your database must have

the same license set. For information about the two types of IBM TRIRIGA license files, go to the IBM TRIRIGA Application Platform 3 Information Center and select *Installing IBM TRIRIGA Application Platform > Configuring the platform > License files*. If you are on WebSphere, verify that valid resource URLs exist for all licenses before starting the application server. For more information, go to the IBM TRIRIGA Application Platform 3 Information Center and select *Installing IBM TRIRIGA Application Platform*.

- After you perform a platform upgrade, only start one application server. Do not bring up any other application servers until the upgrade to the first one is complete. Often upgrades are completed during the initial startup of an application server and there may be conflicts if two application servers are started in parallel.



Note - If your database was created from a version of IBM TRIRIGA Application Platform prior to 3.1, you can use scripts that IBM TRIRIGA provides to remove unused columns from the `IBS_SPEC` and `IBS_SPEC_ASSIGNMENTS` tables in the IBM TRIRIGA database. These tables are the two largest and most used tables in the IBM TRIRIGA system. Removing unused columns from these tables can improve performance and reduce storage space requirements. An IBM TRIRIGA system functions properly without applying this upgrade. The *IBM TRIRIGA Application Platform 3.1 Post Upgrade Maintenance Specification* outlines the steps and contains scripts to be copied and used to remove the unused columns.

The following sections outline the upgrade steps for a selection of upgrade scenarios. In addition to the above, perform the steps appropriate for your company's upgrade scenarios and according to your company's upgrade practices. These steps are not intended to substitute for your company's testing and validation procedures.

- [Upgrade](#) from IBM TRIRIGA 10.x/IBM TRIRIGA Application Platform 3.x → 10.3.1/3.3.1
- [Upgrade](#) from IBM TRIRIGA 10.x/IBM TRIRIGA Application Platform 3.x → 3.3.1 (platform only)
- [Upgrade](#) from TRIRIGA 9/prior to TRIRIGA Application Platform 3.0 → 10.3.1/3.3.1
- [Upgrade](#) from prior to TRIRIGA 10.0/TRIRIGA Application Platform 3.0 → 3.3.1 (platform only)

Upgrade from IBM TRIRIGA 10.x/IBM TRIRIGA Application Platform 3.x → 10.3.1/3.3.1

If you are upgrading from IBM TRIRIGA 10.x and IBM TRIRIGA Application Platform 3.x, it is critical to complete the upgrade to IBM TRIRIGA 10.3.1 and IBM TRIRIGA Application Platform 3.3.1 in the following sequence. Perform the following steps in addition to the above and to your company's upgrade practices. These steps are not intended to substitute for your company's testing and validation procedures.

Only follow this sequence when upgrading to IBM TRIRIGA 10.3.1 and IBM TRIRIGA Application Platform 3.3.1 from IBM TRIRIGA 10.x and IBM TRIRIGA Application Platform 3.x:

Additional Steps for Installations Upgrading from IBM TRIRIGA 10.x and IBM TRIRIGA Application Platform 3.x → 10.3.1 and 3.3.1

- Step 1** Upgrade the platform to IBM TRIRIGA Application Platform 3.3.1. The instructions are in the *IBM TRIRIGA Application Platform 3 Upgrade Installation Guide*, which can be found at <https://www.ibm.com/developerworks/community/wikis/home?lang=en#/wiki/IBM+TRIRIGA1/page/Upgrading>.

Additional Steps for Installations Upgrading from IBM TRIRIGA 10.x and IBM TRIRIGA Application Platform 3.x → 10.3.1 and 3.3.1

- Step 2** Start the server and allow the server startup processes to run.
- Step 3** If your system is on TRIRIGA 10.0, perform the [steps required](#) to upgrade to the TRIRIGA 10.1 application.
- Step 4** Restart the application server.
- Step 5** If your system is on TRIRIGA 10.1, perform the [steps required](#) to upgrade to the IBM TRIRIGA 10.2.0.2 application.
- Step 6** Restart the application server.
- Step 7** 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.
- 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`.
- Step 8** Due to potential dependencies when localizing reference fields for instance data globalization, all business objects must be republished. Scripts for Oracle and Microsoft SQL Server are located on the upgrade disk in the `\Scripts` folder. Instructions are within the scripts.
- For Oracle, run `Publish_all_BOs_For_localization_ORCL.sql`.
- For MSSQL, run `Publish_all_BOs_For_localization_MSSS.sql`.
- Step 9** Perform the [steps required](#) to upgrade to the IBM TRIRIGA 10.3.1 application.

Upgrade from IBM TRIRIGA 10.x/IBM TRIRIGA Application Platform 3.x → 3.3.1 (Platform Only)

If you are upgrading an IBM TRIRIGA 10.x environment, it is critical to complete the upgrade to IBM TRIRIGA Application Platform 3.3.1 in the following sequence. Perform the following steps in addition to the above and to your company's upgrade practices. These steps are not intended to substitute for your company's testing and validation procedures.

Only follow this sequence when upgrading an IBM TRIRIGA 10.x environment to IBM TRIRIGA Application Platform 3.3.1 from IBM TRIRIGA Application Platform 3.x:

Additional Steps for Installations Upgrading an IBM TRIRIGA 10.x Environment Platform Only from IBM TRIRIGA Application Platform 3.x → 3.3.1

Step 1 Upgrade the platform to IBM TRIRIGA Application Platform 3.3.1. The instructions are in the *IBM TRIRIGA Application Platform 3 Upgrade Installation Guide*, which can be found at <https://www.ibm.com/developerworks/community/wikis/home?lang=en#/wiki/IBM+TRIRIGA1/page/Upgrading>.

Step 2 Start the server and allow the server startup processes to run.

Upgrade from TRIRIGA 9/Prior to TRIRIGA Application Platform 3.0 → 10.3.1/3.3.1

If you are upgrading from TRIRIGA 9 and a platform release prior to TRIRIGA Application Platform 3.0, it is critical to complete the upgrade to IBM TRIRIGA 10.3.1 and IBM TRIRIGA Application Platform 3.3.1 in the following sequence. Perform the following steps in addition to the above and to your company's upgrade practices. These steps are not intended to substitute for your company's testing and validation procedures.

Only follow this sequence when upgrading to IBM TRIRIGA 10.3.1 and IBM TRIRIGA Application Platform 3.3.1 from TRIRIGA 9 and a platform release prior to TRIRIGA Application Platform 3.0:

Additional Steps for Installations Upgrading from TRIRIGA 9 and a Platform Release Prior to TRIRIGA Application Platform 3.0 → 10.3.1 and 3.3.1

Step 1 In order to upgrade your target system to IBM TRIRIGA Application Platform 3.3.1, the target system must be on TRIRIGA Application Platform 2.5.0 or later. If it is on 2.1.9.x or earlier, you must first upgrade to 2.7.1.3. After the 2.7.1.3 install is complete, start the application server to finish the upgrade. See the *TRIRIGA Release Notes for 9.7.1 and 2.7.1.3* for more information. Do not start the upgrade to 3.3.1 until the 2.7.1.3 application has fully started one time following upgrade.

Step 2 Shut down the application server.

Step 3 Upgrade the platform to IBM TRIRIGA Application Platform 3.3.1. The instructions are in the *IBM TRIRIGA Application Platform 3 Upgrade Installation Guide*, which can be found at <https://www.ibm.com/developerworks/community/wikis/home?lang=en#/wiki/IBM+TRIRIGA1/page/Upgrading>. Do not start the application server.

Step 4 Set the `BYPASS_PORTAL_MENU_UPGRADE` property in `TRIRIGAWEB.properties` to `Y`, which will bypass the portal and menu upgrades that typically run with an upgrade to IBM TRIRIGA Application Platform 3.3.1. Your system receives the portal and menu upgrades when you import the TRIRIGA 10.1 cumulative object migration package (which you will do in Step 7). Review and revise the other properties files as appropriate for your implementation. For more information, go to the IBM TRIRIGA Application Platform 3 Information Center and select *Installing IBM TRIRIGA Application Platform > Configuring the platform > Properties files*.

Additional Steps for Installations Upgrading from TRIRIGA 9 and a Platform Release Prior to TRIRIGA Application Platform 3.0 → 10.3.1 and 3.3.1

- Step 5** Start the server and allow the server startup processes to run.
- Step 6** Starting with TRIRIGA 10.0, IBM TRIRIGA applications place standard actions, such as Copy, Apply Template, and Delete, under a More action in the form. Upgrading customers can apply this change to previous forms that were not updated or changed by new functionality. To do this you must run a SQL script against your database. Run this script AFTER the latest platform upgrade but BEFORE importing the TRIRIGA 10.1 object migration package. The SQL files are located in your install folder under \userfiles\upgrades. Use either file STATE_ACTION_updates_oracle.sql or file STATE_ACTION_updates_mssqlserver.sql. (Tri-29957)
- Step 7** Perform the [steps required](#) to upgrade to the TRIRIGA 10.1 application.
- Step 8** Restart the application server.
- Step 9** Perform the [steps required](#) to upgrade to the IBM TRIRIGA 10.2.0.2 application.
- Step 10** 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.
- 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.
- Step 11** Due to potential dependencies when localizing reference fields for instance data globalization, all business objects must be republished. Scripts for Oracle and Microsoft SQL Server are located on the upgrade disk in the \Scripts folder. Instructions are within the scripts.
- For Oracle, run Publish_all_BOs_For_localization_ORCL.sql.
- For MSSQL, run Publish_all_BOs_For_localization_MSSS.sql.
- Step 12** Perform the [steps required](#) to upgrade to the IBM TRIRIGA 10.3.1 application.

Upgrade from Prior to TRIRIGA 10.0/TRIRIGA Application Platform 3.0 → 3.3.1 (Platform Only)

If you are upgrading from releases prior to TRIRIGA 10.0 and TRIRIGA Application Platform 3.0, it is critical to complete the platform upgrade to IBM TRIRIGA Application Platform 3.3.1 in the following sequence. Perform the following steps in addition to the above and to your company's upgrade practices. These steps are not intended to substitute for your company's testing and validation procedures.

Only follow this sequence when upgrading a pre-TRIRIGA 10.0 environment to IBM TRIRIGA Application Platform 3.3.1 from releases prior to TRIRIGA Application Platform 3.0:

Additional Steps for Installations Upgrading Platform Only from Releases Prior to TRIRIGA Application Platform 3.0 → 3.3.1

- Step 1** In order to upgrade your target system to IBM TRIRIGA Application Platform 3.3.1, the target system must be on TRIRIGA Application Platform 2.5.0 or later. If it is on 2.1.9.x or earlier, you must first upgrade to 2.7.1.3. After the 2.7.1.3 install is complete, start the application server to finish the upgrade. See the *TRIRIGA Release Notes for 9.7.1 and 2.7.1.3* for more information. Do not start the upgrade to 3.3.1 until the 2.7.1.3 application has fully started one time following upgrade.
- Step 2** Shut down the application server.
- Step 3** Upgrade the platform to IBM TRIRIGA Application Platform 3.3.1. The instructions are in the *IBM TRIRIGA Application Platform 3 Upgrade Installation Guide*, which can be found at <https://www.ibm.com/developerworks/community/wikis/home?lang=en#/wiki/IBM+TRIRIGA1/page/Upgrading>. Do not start the application server.
- Step 4** Set the `BYPASS_PORTAL_MENU_UPGRADE` property in `TRIRIGAWEB.properties` to `N`, which allows the portal and menu upgrades that typically run with an upgrade to IBM TRIRIGA Application Platform 3.3.1. Review and revise the other properties files as appropriate for your implementation. For more information, go to the IBM TRIRIGA Application Platform 3 Information Center and select *Installing IBM TRIRIGA Application Platform* > *Configuring the platform* > Properties files.
- Step 5** Start the server and allow the server startup processes to run.
- Step 6** TRIRIGA 9 customers need to import the object migration package that contains the form and workflow changes for the new navigation and portals. This file is located in the install directory under `\userfiles\upgrades\Portal BO Upgrade.zip`. See the *IBM TRIRIGA Application Platform 3 Object Migration User Guide* for information about importing object migration packages.

IBM TRIRIGA 10.3.1

This chapter details important information, known limitations, and changes for IBM TRIRIGA.

Important Information

Important information concerning IBM TRIRIGA for this release includes the following:

Area of Impact	Description
Bulk Update Processing of Leases	Users may experience extended processing times when using the Bulk Create Review Assumptions Request across a large number of leases. To process more efficiently, instead of selecting all of the leases at one time for bulk update, select a few at a time. (Tri-36007)
Externally Generated Lease Abstract Records	The Lease ID of a Lease Abstract record should be unique.
Geography	The System Geography field on the System tab of the Asset Specification form needs to be cleared in order for buildings to be displayed correctly for location, equipment, and vehicle reservation types on the Room Reservation form for the Contact Center. (Tri-87474)
Installation	<p>Apply the SQL script to update the system fields with sub-attribute type of <code>CreatedDateTime</code> to <code>CreatedDateTime (Number)</code> and <code>ModifiedDateTime</code> to <code>ModifiedDateTime (Number)</code>. Scripts for Oracle and Microsoft SQL Server are located on the upgrade disk in the <code>\Scripts</code> folder. Instructions are within the scripts.</p> <p>For Oracle, run <code>SetVarcharColsToNumeric_ORCL.sql</code>.</p> <p>There are two scripts for MSSQL, <code>SetVarcharColsToNumeric_MSSS.sql</code> and <code>SetVarcharColsToNumeric_MSSS_Publish_BO.sql</code>. Run <code>SetVarcharColsToNumeric_MSSS.sql</code> first. When it completes, run <code>SetVarcharColsToNumeric_MSSS_Publish_BO.sql</code>.</p>
Workplace Reservation Manager	When you use the IBM TRIRIGA Reserve tab in Microsoft Outlook to make a reservation, after you specify the reservation subject, either press Tab or click outside the Subject field. (Tri-77073)

Known Limitations

Known limitations concerning IBM TRIRIGA for this release include the following:

Area of Impact	Description
Gantt	If you create many tasks in the Gantt, then delete the tasks from the Gantt, and then save the project record, some of the tasks may not be deleted. This is because all of the asynchronous workflows that are triggered by these activities did not have sufficient time to complete. If this occurs, delete the tasks in the Gantt that should have been deleted. (Tri-38256)
Globalization	Attention messages for Classification records display in US English because the record language for the delivered instance data (system data) is US English. (Tri-39803)
Installer for the IBM TRIRIGA Workplace Reservation Manager Add-In to Microsoft Outlook	The installer is only available in US English. Installing to a path under Program Files may not work on a non-English version of Windows.
Real Estate Lease Payment Schedules	<ul style="list-style-type: none"> ▪ When the total is not evenly divisible by the frequency, rounding causes the sum of the payment line items (PLI) to be greater than the total. For example, if the frequency is semi-annual and the annual amount is \$1,000.47, two PLIs are created in the amount of \$500.24. This value is rounded up from \$500.235. When you add up the PLIs, the total is \$1,000.48, which is one cent greater than the annual amount. ▪ When the frequency is weekly or bi-weekly, the number of PLIs created is based on the number of weeks in the calendar for that year. For example, 2012 has 52 weeks and 2 days, which results in 53 PLIs, each with a weekly payment based on 52 weeks. When you add up the PLIs for that year, the amount is too large by one payment because of the 53rd PLI representing the extra two days. The same result occurs when the frequency is bi-weekly and there are more than 52 weeks in the calendar for that year, because the calculation is based on 26 payments. ▪ The values displayed in the Cost / Unit (Year) column and in the Cost per Unit field have two decimal places; however, the values stored in the database have six decimal places. The database value with six decimal places is used to calculate the value of the Period Amount field and the Annual Amount field. For example, the formula is Annual Amount = Cost / Unit (Year) * Contract Rentable. A manual calculation using the two decimal precision displayed is \$137.81 Cost / Unit (Year) * 20000 Contract Rentable = \$2,756,200.00 Annual Amount. However, when the six decimal precision stored in the database is used, the calculated Annual Amount displayed is \$2,756,250.00. This is a difference of \$50.00. ▪ The Charge Amount Basis values of per Area (Annually) and of per Area (Monthly) do not apply to an asset lease. Because the Generate Payment Schedule wizard is a standard form, it is possible for a user to select

Area of Impact	Description
	these values; however, the value of the Expected Cash Amount field on the generated Payment Schedule form will be zero.
Reservation Survey Requests	In a new Reservation Survey Request form, you must select the Create Draft action before selecting either the Find Parameter Recipients action or the Find Random Recipients action when the parameter fields are populated. In an existing Reservation Survey Request form, when the parameter fields are modified or populated, you must select the Save action before selecting either the Find Parameter Recipients action or the Find Random Recipients action. If you do not, neither action works as expected; the action does not pick up the changes in the parameter fields. (Tri-36865)
Workplace Reservation Manager	To add links from a building or a space to the reservation notification that is created from IBM TRIRIGA, attach a document that contains the links. (Tri-68968)
Workplace Reservation Manager	When looking at a reservation from Microsoft Outlook Web Access (OWA), the text on action buttons (such as check in, early notification) does not show clearly in preview mode. To see the text more clearly, you can open the appointment. (Tri-68953)

IBM TRIRIGA 10.3.1 Changes

Area of Change	Description
Application Settings	On a clean install, in Application Settings, the Lease Abstract Defaults fields (Default Parent for Internal Organization, Default Parent for Location, Default Parent for External Organization) and Date Generation field (Start Date) are now blank. (Tri-88848)
Asset Lease	<p>Multiple copies of the same Asset Lease are created on Activate when an Includes Index Adjustment clause and a Payment Schedule are added. To resolve this issue requires a change in the Index Adjust Calculator (<code>triIndexAdjustmentCalculator</code>) business object. This change is not included in the 10.3.1 release object migration package.</p> <p>To resolve this issue, run the following SQL to update the smart section attribute on the Index Adjust Calculator business object. You can run the SQL either before or after importing the 10.3.1 release object migration package into your environment. (Tri-73713)</p> <pre> SELECT * FROM module_association WHERE source_module = 16 AND source_bo_id = 10010440 AND association_verb='Has Contract' AND ass_module = 21 AND ass_bo_id = 10008550 /* update Association Manager */ UPDATE module_association </pre>

Area of Change	Description
	<pre> SET dependent_flag =0, cascade_read_only=0 WHERE source_module =16 AND source_bo_id = 10010440 AND association_verb='Has Contract' SELECT * FROM dd_sobjtype_sections WHERE spec_template_id = 10010440 AND category_id = 1 AND sub_category_name = 'triAssetLease' /* updates Data Dictionary Smart Section table dd_sobjtype_sections */ update dd_sobjtype_sections set override_flag=0, input_option=2, live_link=1 WHERE spec_template_id = 10010440 AND category_id = 1 AND sub_category_name = 'triAssetLease' SELECT * FROM sobjtype_sections WHERE spec_template_id = 10010440 AND category_id = 1 AND sub_category_name = 'triAssetLease' AND ref_spec_template_id = 10008550 /* Update One more Smart Section table */ update sobjtype_sections set override_flag=0, live_link=1, input_option=2 WHERE spec_template_id = 10010440 AND category_id = 1 AND sub_category_name = 'triAssetLease' AND ref_spec_template_id = 10008550 </pre>
Asset Lease	<p>When an asset lease is revised, the history lease retains the information for the FASB 13 section of the original lease. The history asset lease record does not calculate a present value (PV) as only a payment schedule was created and no payment line items (PLI) were generated. The PLIs are used for calculating the straight line, which is used for PV of Rent/PV of rent building only (discounted) values. (Tri-83342)</p>
Asset Manager	<p>The Spec Class field in the Spec Information section of all Asset forms has been made read only.</p> <p>The Spec Class field in the Core and Key Specification forms now displays its own Specification Class hierarchy list instead of the ROOT Specification Class hierarchy list. (Tri-88855- IV42741)</p>
Blanket Purchase	<p>When selecting the service organization contact lookup and the bill to contact lookup for an external contact, consultant, or employee with an</p>

Area of Change	Description
Order	address greater than 50 characters, the blanket purchase order record no longer hangs. The address field now accepts 200 characters. (Tri-75859-IV36887)
CAD Integrator and Space Records	The extended formula for the <code>triHeadcountNU</code> field on the <code>triFloor</code> , <code>triBuilding</code> , and <code>triProperty</code> business objects now uses a query instead of an associated business object field. (Tri-70761)
CAD Integrator and Space Records	When creating new Space records from CAD Integrator, the update process (Permanent Save validation workflow) is no longer executed twice. The update process now runs asynchronously. (Tri-70759)
Capital Project Template	Resolved an issue that caused security groups for Capital Project Template forms to not work correctly when the <code>USE_PROJECT_SECURITY</code> property in the <code>TRIRIGAWEB.properties</code> file was set to <code>Y</code> . You now can create a task within a Capital Project Template. (Tri-74011-IV30868)
Capital Projects	The behavior of the All Capital Project query Delete action has changed. The Delete now deletes the selected record in the query. (Tri-89423)
Change Person Request	Update Personnel Information (Change Person Request) now maps all the data under the Updated Personnel Details section on the Change Person Request to the Person record. My Profile data is kept in sync if the Person record is in Active User status. (Tri-82079-IV39415)
Classifications	<p>Updated the business object label for <code>triResponsibilityCategory</code> to Responsibility Category. Existing customers should run the following SQL scripts in order to update the Business Object field in System tab of Responsibility Category Classification records.</p> <pre>Update ibs_spec set updated_date=sysdate where spec_id in (select spec_id from t_triResponsibilityCategory where triBusinessObjectLabel = 'Area Type'); Update t_triResponsibilityCategory set triBusinessObjectLabel='Responsibility Category', triBusinessObjectLabel2='Responsibility Category' where triBusinessObjectLabel = 'Area Type';</pre> <p>(Tri-70674)</p>
Contact Center	On the Contact Center form, the Agent Name is now correctly populated with the User that is logged in. Agent Name is populated through workflow instead of using the Platform Auto Populate functionality. (Tri-78699)
Contact Center	The Requested For field on the Contact Center form is now populating the correct Active User. The Organization is now mapped correctly from the Requested For person to the Service Request that is created from the Contact Center Request. (Tri-76653-IV37280)
Contact Roles	Test data has been removed from the list of system data for Contact Roles. (Tri-88850)

Area of Change	Description
Contracts > Leases	When a user clicks the Issue action in the Payment Reconciliation Action item, the routing now proceeds to completion. (Tri-80223-IV38558)
Data Modeler	Increased the size of the FUNCTION_DESC field in the Formula business object in the System module from 100 to 150. (Tri-91539)
Disposition Request	The queries for Related Reports now return records in the appropriate statuses. (Tri-90374)
Equipment Orders list page	When a reservation with equipment orders is deleted, the equipment orders are now removed from the Equipment Orders pages. (Tri-86450)
Find Space	The Personnel Directory columns now display data from the People record instead of from the My Profile record. (Tri-77005-IV37979)
Find Space	The Personnel Directory section now displays people records that have the associated primary location set to the Space that is created under a Space Group. (Tri-77004-IV37978)
Generate Payment Schedule form	On the Generate Payment Schedule form in the Payment Parameters section, the label is changed from "First Payment Amount" to "Amount Per Basis". (Tri-70800)
Generate Payment Schedule form	The label "Monthly Amount" is now "Period Amount" on the Payment Schedule section of the Generate Payment Schedule form. (Tri-70795)
Generate Payment Schedule form and Payment Schedule form	<ol style="list-style-type: none"> 1. When the Frequency is 'Monthly', and Charge Basis Amount is 'per Area (Monthly)' or 'per Area (Annually)', the Cost per Unit field on a Payment Schedule is now calculated correctly. 2. When the Frequency is something other than 'Monthly' and the value of Charge Amount Basis field is not 'per Month', the calculations of Monthly Amount, Annual Amount, and Cost / Unit (Year) in the Payment Schedule section of the Generate Payment Schedule wizard are now correct. (Tri-70442-IV34303)
Integration Object	When you import instance records for the TRIRIGA Integration Object, run the patch helper named <code>IntegrationObject_DataMaps</code> . This patch helper triggers a utility that scans the current datamaps and correctly reassigns the object IDs that are needed to save records. (Tri-74041)
Inventory	The Services form now opens when the user navigates to Inventory > Setup > Contracts > Services. Previously, the Services Specification form was rendered. (Tri-71228-IV36022)
Lease Abstract	Tenant Rights (and child nodes), Landlord Rights (and child nodes), LL Provision of Services to Premises, and Must Take Space have been removed from Classification Hierarchy - Clause Type > Real Estate Lease Clause Type > Other. They are no longer available for selection from the Other Clauses tab of the Lease Abstract form. Instead they are available/added to Classification Hierarchy - Clause Type > Real Estate Lease Clause Type > Rights > Other Rights. And they are now available to add from the Rights tab of the Lease Abstract form.

Area of Change	Description
	<p>These same changes are also applied to Lease Abstract Template.</p> <p>Note: These items on the Other Clauses Classification hierarchy have been removed from the shipping product. But existing customers using above listed items from the Other Clauses tab of Lease Abstract should update their environments to use the items on the Rights tab instead and to remove the records from the Other Clauses classification hierarchy manually. (Tri-81725-IV38447)</p>
Lease Abstract	The Responsibilities Services Clause Summary field now accepts 1000 characters. (Tri-75110-IV36816)
Lease Abstract and Lease Abstract Template	On the Lease Abstract and Lease Abstract Template, the fields in the Default Remit To section are not cleared when a different Remit To Look Up value is selected. The Update Payment Instructions action updates the Payment Schedules with the selected Default Remit To data. The Remit To Look Up clear icon clears the data in all fields in the section. (Tri-78826-IV37433)
Lease Clause	Rearranged the fields in the Alterations section of the Lease Clause and Lease Clause Template forms to match the layout of the Alterations section on the Rights tab of the Lease Abstract form. (Tri-72751)
List Manager	A new list named <code>triBillingTypes</code> replaces lists named GE Billing Types and <code>triGEBillingTypes</code> . The values in the <code>triBillingTypes</code> list are First and Second. The <code>triLeaseAllocations</code> , <code>triSpaceAssignments</code> , and <code>triSpaceUseAgreement</code> business objects now reference the new <code>triBillingTypeLI</code> list. (Tri-81642-IV38448)
Location Hierarchy - Space and Space Group	The Percent Occupied (c/d) field on the General and Allocation tabs of the Space and Space Group forms has been relabeled Ratio Occupied (c/d). This field shows a decimal value, not a percentage. (Tri-78704-IV37437)
Metric Report	Corrected an issue where Building System Item Replacement Value was incorrectly added with Calculated Replacement Cost of the building to calculate the Green Condition Index Ratio metric report. Also corrected an issue where the Green Condition Index Ratio was incorrectly summed, instead of averaged, when viewed through the Geography or Capture Period drill path. (Tri-70303-IV33565)
Move Request	In the Move Services form, the section actions on the Move Items section now are disabled when the Move Services record is in a null state. Users cannot add a Move Request Line Item until the Move Services record is created. This method prevents the creation of orphan Move Request Line Item records. (Tri-73705-IV33142)
Owned Property	On an Owned Property, the Include in Amortization Schedule check box is hidden for all Payment Schedules created using the Generate Payment Schedule process. (Tri-72830)
Portfolio > Location	Spaces added to the Space Group hierarchy are now displayed in the Spaces query section of the Space group record. The association on space query is

Area of Change	Description
	changed from Has to Is Parent Of. (Tri-70313-IV33982)
Projects > Real Estate	The hierarchical query in the Transaction Plans, RE Projects portal section now displays the child project records. Previously, only the parent record displayed. (Tri-71112-IV36161)
RE Lease - Straight Line	Straight Line Rent Liability payments are no longer displayed on an RE Invoice, Asset Invoice, or Process Payment. (Tri-73702)
RE Project Acquisition	The Purchase Terms section has been moved from the Offer Information tab to the Financial Terms tab on the RE Project Acquisition form. (Tri-91200)
RE Project Disposition	The Details of Sale section has been moved from the Offer Information tab to the Financial Terms tab on the RE Project Disposition form. (Tri-91201)
RE Projects	The Commencement Date on the Financial Terms tab of all RE Project forms is changed from "Required" to "Not Required (Optional)". The affected forms include RE Project Acquisition, RE Project Current Terms, RE Project Disposition, RE Project Expiration, RE Project Lease, RE Project Sublease, and RE Project Termination. (Tri-73008)
RE Transaction	On the Transaction Plan, when you create a RE Project within that plan, it creates a scenario. On the Summary Metrics tab of these scenarios, the financial information rolls up to this form. These calculations have been updated to perform the calculations correctly. The summary metrics on all RE Project forms are calculating correctly now. The reports and NPV values on the Transaction plan are calculating correctly now. (Tri-73656-IV37460)
RE Transaction	On the Transaction Plan, when you create a RE Project within that plan, it creates a Transaction Scenario. On the Summary Metrics tab of the Transaction Scenario, the financial information rolls up to this form in the P&L Impacts section. The profit and loss (P&L) values have been updated to perform the calculations correctly. (Tri-70456-IV36355)
RE Transaction Forms	There are multiple form changes on the Financial Terms tab of the RE Project Acquisition, Disposition, Termination, and Expiration. The changes on these forms were to adjust what is displayed to better represent what is used on each form. All the financial information has been taken from the Site Information tab and moved to the Deal Terms section on the Financial Terms tab. (Tri-83345)
Real Estate Lease	In the Payment Amount Calculations section of the Payment Terms form, the label "Monthly Amount" has been changed to "Period Amount". (Tri-84432)
Real Estate Lease	Resolved rounding inconsistencies between the calculation of the Annual Amount in the Payment Schedule query section and the Cost/Unit (Year) * Contract Rentable calculation. The value displayed in the form has two decimal places; however, the value stored in the database has six decimal places. The database value with six decimal places is used for calculations. (Tri-86721)
Real Estate Lease	When a lease is amended, the value for Charge Amount Basis is now correctly

Area of Change	Description
	mapped to the History record of the payment schedule. (Tri-86734)
Reports	Resolved an issue that caused errors in the following reports in Microsoft SQL Server environments: Asset Lease Assumption Audit Log Report, Lease Assumption Audit Log Report, <code>triAssetLease - BIRT - Asset Lease Assumption Audit Log</code> , and <code>triRealEstateContract - BIRT - Lease Assumption Audit Log</code> . (Tri-89936)
Requests	On a request, when the Someone Else option and a different Requested For person are selected, the Location and Organization under the Request Details section now map correctly into the Primary Work Location and Customer Organization fields respectively on the work task that is created when the request is submitted. (Tri-83540-IV39026)
Requests	On an Individual Move Request, the To Location is now copied to the Move Request Line Item if it is populated after the request is in draft mode and the user clicks the Submit action. (Tri-73385)
Requests	On the Request record, when the Requested For is changed to another person, that person's organization is now correctly updated in the Request Details section. (Tri-73707)
Requests	On the Request record, when you change the Request is for option from Someone Else to Me, the Requested For and Request Details sections are populated with the Work Phone, Email, Primary Location, and Primary Organization data corresponding to the Requested For person. When you change the Request is for option back from Someone Else to Me, by design the Location data is not updated with the Me person data. (Tri-79623-IV38409)
Requests	The value for Request Class on the work task is now correctly mapped from the work task template, rather than the request itself, when a service request creates work tasks. If the Request Class is not defined on the template, then the work task maps the value from the service request. (Tri-74008-IV33506)
Requests	Under the Service Request section on the Request form, the selected option remains selected or another option can be selected when the Request is for option is changed to Someone Else and the Requested For person is changed. (Tri-79610-IV38020)
Reservation and Contracts	Additional feature added to view account code and charges along with encrypted credit card details, if applicable. (Tri-68939)
Reservation form	Added a Default Layout column to the Reservation queries for Location Reservation, Concierge and Preferred Queries. (Tri-89176)
Reservation Reports	Added reports for equipment reservations and vehicle reservations to view the reservation along with the assets that were reserved. The affected reports are as follows: Reservations (Today), Reservations (Today and Future), Reservations (This Week), Equipment Reservations (Past), and

Area of Change	Description
	Location Reservations (Past). (Tri-68882)
Select Equipment form	The Select Equipment form now shows the same Available Equipment when accessed from different locations. (Tri-84254)
Service Plan	When creating a Facility Project Template that has Task templates and the record is being created through request with a Service Plan, a new rule has been added in the Service Plan. When Task Assignment Rule equals "Auto-assign to Service Provider", the Task Assignment Date Rule now has "Use Task Template". This allows the Task within a Facility Project to use its Task Template to map the dates rather than the Service Agreement. (Tri-70487-IV36001)
Straight Line calculation on Asset Lease	When straight line adjustments are used in conjunction with a partial payment schedule, the last payment line item now has the correct Expected Accrual value. When the Payment = Straight Line/Month, accrual values on PLIs when the expected accrual value should be 0 are now calculated correctly. When the Lease Treatment is Operating, the value of the Operating Portion of Capital Lease field is not used in the Straight Line Rent Liability calculation. When the sum of the Straight Line Rent Capital Portion PLIs does not add up to the necessary total due to rounding, the additional PLI that is created is now created with the correct value. (Tri-72452)
Tools > Administration	Removed an unnecessary Copy action from the CAD Mapping form. (Tri-73164-IV36348)
UOM_Value	The value for the Area (Imperial) field of the Space Measurements section of a Space record is now calculated correctly. The conversion value in the "Area - square-meters" UOM_Value record was corrected to 10.76391042. (Tri-74003-IV34565)
Workplace Reservation Manager	A reservation now respects the minimum order time for food orders as defined in the blanket purchase order. If a reservation is within the minimum order time, the user cannot see or select food items. (Tri-68933)
Workplace Reservation Manager	Added a new report to the Reservation Coordinator portal that shows a graphical representation of reservations for the next 30 days. (Tri-68971)
Workplace Reservation Manager	Added a report to the Reservation Coordinator portal that makes it possible for the user to query for reservations in the past. (Tri-68893)
Workplace Reservation Manager	Now users can modify the Date/Time and Subject while on the TRIRIGA tab within Outlook. Previously these fields were read-only. (Tri-68949)
Workplace Reservation Manager	The start and end date and time in a reservation-related notification is now converted to the user's preferred format and time zone. (Tri-68999, Tri-75229)
Workplace Reservation Manager	The TRIRIGA Workplace Reservation Manager now can be used to create reservations in the past. This change accommodates the use case where an end user or a concierge uses a reservable location, but the data needs to be back-dated for utilization metrics. (Tri-71558, Tri-73571)

Area of Change	Description
Workplace Reservation Manager	Users can now check in from the reservation user interface. Prior to this change, the check in process was only accessible from the email notification. (Tri-70249)
Workplace Reservation Manager	When a recurring reservation created in IBM TRIRIGA is imported into Outlook, all occurrences of the appointment appear in Outlook instead of only the first occurrence. (Tri-70128)

IBM TRIRIGA 10.3.0.1 Changes

You upgrade your version of IBM TRIRIGA for this release by fix pack. The 10.3.0.1 fix pack includes an object migration package. Do not apply the 10.3.0.1 object migration package on versions of IBM TRIRIGA before version 10.3. To upgrade to IBM TRIRIGA version 10.3, follow the instructions at the following link: <http://www.ibm.com/support/docview.wss?uid=swg24033724>.

To download the 10.3.0.1 fix pack, go to Fix Central at the following link: <http://www.ibm.com/support/fixcentral>. In the Find Product tab, select IBM TRIRIGA Portfolio Data Manager and the 10.3.0.1 package. Download the readme file and the object migration package appropriate for your operating system. Follow the directions in the readme file.

The changes to IBM TRIRIGA for this release include the following:

Area of Change	Description
Real Estate Lease	In the Payment Amount Calculations section of the Payment Terms form, the label "Monthly Amount" has been changed to "Period Amount". (Tri-84433)
Real Estate Lease	In the Payment Parameters section of the Generate Payment Schedule form, the label "First Payment Amount" has been changed to "Amount Per Basis". (Tri-72942)
Real Estate Lease	In the Payment Schedule section of the Generate Payment Schedule form, the label "Monthly Amount" has been changed to "Period Amount". (Tri-72932)
Real Estate Lease	Resolved rounding inconsistencies between the calculation of the Annual Amount in the Payment Schedule query section and the Cost/Unit (Year) * Contract Rentable calculation. The value displayed in the form has two decimal places; however, the value stored in the database has six decimal places. The database value with six decimal places is used for calculations. (Tri-86720)
Real Estate Lease	When a lease is amended, the value for Charge Amount Basis is now correctly mapped to the History record of the payment schedule. (Tri-86731)
Real Estate Payment Schedules	Frequency payment calculations now include the option to calculate with a frequency of 13 periods per year.
	The Charge Amount Basis values of per Area (Annually) and of per Area

Area of Change	Description
	(Monthly) do not apply to an asset lease. Because the Generate Payment Schedule wizard is a standard form, it is possible for a user to select these values; however, the value of the Expected Cash Amount field on the generated Payment Schedule form will be zero. (Tri-72939)
Real Estate Payment Schedules	<p>When the Frequency is Monthly and the Charge Amount Basis is per Area (Monthly) or per Area (Annually), then the Cost per Unit field on the Payment Schedule form is now calculated correctly.</p> <p>When the Frequency is other than Monthly and the Charge Amount Basis field is other than per Month, then the calculations of Period Amount, Annual Amount, and Cost / Unit (Year) in the Payment Schedule query section of the Generate Payment Schedule wizard are now calculated correctly. (Tri-72930-IV34303)</p>

IBM TRIRIGA 10.3 Enhancements

The enhancements to IBM TRIRIGA for this release include the following:

Area of Impact	Description
Reservation Management	The enhanced IBM TRIRIGA Workplace Reservation Manager product manages all schedulable resources in a single product; integrates with other IBM TRIRIGA products for portfolio, web graphics, task, inventory and contract management, and strategic facility planning; analyzes capacity; and increases facilities utilization. The bi-directional integration with Microsoft Exchange/Outlook delivers end-user scheduling directly through Microsoft Outlook, including requests for related services and equipment. The software supports flexible workspace programs. The interactive graphic (web graphic) locator presents available locations. Utilization metrics analyze capacity and increase utilization.
Environmental and Energy Management	IBM TRIRIGA Real Estate Environmental Sustainability Manager enhancements support global greenhouse gas reporting standards and compliance. Also, with the addition of processing logs that contain failure point information for both carbon calculations and ENERGY STAR ratings, you can more easily locate errors so that you can fix them. You can then successfully receive accurate carbon calculations and ENERGY STAR ratings.
Capital Project Management	IBM TRIRIGA Capital Projects Manager now manages and displays project costs in the local currency of the project. The currency unit of measure (UOM) for the project is set by the person initiating the project. All of the project objects then have the same currency UOM. Project-related financial information is displayed in the project currency UOM, without being translated to the base UOM and back to the project UOM.
Payment Schedule Wizard	The payment schedule wizard now supports the definition of calendar quarters that are different from the quarters used traditionally in US accounting periods. A user creates one payment schedule record in the payment schedule wizard with the specific quarter days selected. When a

Area of Impact	Description
	user activates a lease, payment line items for the defined quarter days are created with quarter days as due dates for each payment line item.
Globalization	IBM TRIRIGA application instance data is available in 16 languages supported by IBM TRIRIGA: Brazilian Portuguese, Chinese (Simplified and Traditional), Czech, Dutch, French, German, Hungarian, Italian, Japanese, Norwegian, Polish, Russian, Spanish, Swedish, and US English.
Carbon Calculations	The new carbon processing log stores failure point information related to carbon calculations. A carbon processing log record is created every time the job scheduler runs on the building record that was flagged to have carbon calculation (Carbon Calculation Needed check box). The carbon processing log is associated to the building (building, structure, and retail location) and organization (My Company) record. (Tri-36502)
Energy Benchmarking with ENERGY STAR	The new ENERGY STAR processing log stores failure point information related to the ENERGY STAR rating process. An ENERGY STAR processing log record is created for each error returned by the US Environmental Protection Agency's ENERGY STAR Automated Benchmarking Service (ABS) system in response to a request for an ENERGY STAR rating. ENERGY STAR processing log records are associated to the building (building, structure, and retail location) for which the ENERGY STAR rating was being processed. (Tri-36504)
System Setup	Selecting the Help link on the Home page now redirects the user to the IBM TRIRIGA Support site. There is a patch helper workflow to update existing Help records. (Tri-39322)

IBM TRIRIGA 10.3 Changes

The major changes to IBM TRIRIGA for this release include the following:

Area of Change	Description
Application Setup Manager	Corrected mapping for the Message Content Note in the Add Subject tasks for the <code>triIntegrationNotification - SEND - Create Email Integration Notification</code> workflow. (Tri-28564)
Application Setup Manager	When multiple Headcount Demand Driver records are pulled into the Forecast Standard form, each corresponding Forecast Demand Driver now is created and the Standard Space Area column in the query section reflects the correct value. (Tri-27829)
Asset Lease	The FASB 13 Treatment section is now available for asset leases. You use this section to identify whether an asset lease is treated as an operating lease or as a capital lease. (Tri-80665)
Assets	Attached appropriate queries to a few query sections that were missing queries. (Tri-26554)

Area of Change	Description
Assets	In the Specification (Parts List) section of an asset, when the user selects specs from the query, the system creates corresponding line items in the section. (Tri-12100)
Assets	The Select Organization Lookup icon now displays the locator query in the following forms: Core, Key, Key Ring, Locks, Office Equipment, Software License, Technology Assets, Telephones, Tools & Test Equipment, Vehicles, and Work Area Outlets. (Tri-36037)
Assets	The status of a copied Telephones record is Draft and shows as Draft in the System tab. (Tri-36154)
Audit Space	On the Space Audit form, the Find action in Space Allocation section opens a query section. (Tri-10651)
Audit Space	When a user selects the Close Audit Period action, the status of the Master Audit record changes to History and the statuses of all Audit and Space Audit - Allocation History records associated to the Master Audit change to History. (Tri-27200)
Building > Opportunity Attribute	Cancelling an opportunity record when Type = Environmental no longer causes the Environmental Opportunity Type field to disappear. (Tri-37371)
Capital Projects	When a draft capital project is activated, it is routed through the approval process defined for the project record. In the past, when an active project was revised and then reactivated, the approval process was bypassed. This is no longer the case. An active project that is revised and then reactivated now follows the approval process defined for the project record. Also, an issue causing improper sequencing of the remaining reviewers whenever an approval was returned has been resolved. Upon reactivating a project after it has been previously returned, the approvals are now routed to the reviewers in the sequence defined for the project. (Tri-37493)
Checklists	History records are no longer included in the results of the contract Find query on the Contract Award Checklist form. (Tri-12138)
Classification Manager	Now when you clear the Real Property Type field in the Real Property Use Classification record, the Real Property Type ID field is also cleared. (Tri-37003)
Classification Manager	Resolved several issues that caused Copy actions to not work properly. (Tri-37008, Tri-37009, Tri-37018, Tri-37019, Tri-37020, Tri-37089, Tri-37092, Tri-37093)
Classifications > Building System Class	An entry removed from the Repair Cost Estimate Items section no longer reappears when the user saves the Building System Class record. (Tri-27356)
Classifications > Time Zones	Added time zones for (GMT +8) Taipei Standard Time [Asia/Taipei] and (GMT +9) Korea Standard Time [Asia/Seoul]. Corrected the time zone value for (GMT +4) Moscow, St. Petersburg, Kazan, Volgograd [Europe/Moscow] and (GMT -2) Mid-Atlantic Standard Time [Atlantic/South_Georgia]. (Tri-40330,

Area of Change	Description
	Tri-40463)
Contract Manager	Added an association from <code>triBlanketPurchaseOrder</code> , <code>triServiceAgreement</code> form, to the <code>triProperty</code> business object. Now a property is reverse associated to the service agreement. (Tri-19141)
Contract Manager	Line Items now are removed when the Standard Contract reference is cleared from a Standard Contract Change Order. (Tri-18789)
Contracts	A warranty in draft status no longer processes a new request or creates a task; this does not occur until the warranty is in an Issued state. Tasks now are activated when a task is created from a warranty (any type). A location now is attached to the warranty whether the warranty is draft or issued. (Tri-35873)
Contracts	Changed the query columns of the Payment Schedules section of the Real Estate Lease and Owned Property (Fee) Agreement to be consistent with the Rent Schedules section of the Lease Abstract. Also, changed columns of the Rent and Expenses section of the Real Estate Lease Template and Scheduled Payments section of Owned Property (Fee) Agreement Template. (Tri-20906)
Contracts	Revising a Service Agreement now creates a Service Agreement History record and is visible in the <code>Service Agreements - History</code> subquery. (Tri-15693)
Contracts	State/Province, County and Country fields are now mapped when the user clicks the Create New City action. (Tri-20775)
Contracts	The Add Revision action on the Terms section in the Proposed Real Estate Lease form now populates the Name, Lease Commencement Date, Lease Expiration Date, and Current Fiscal Year fields with the values from the last revision record. (Tri-12146)
Contracts	When a user selects One-time payment ("Other" in Frequency), only Frequency, First Payment Date and First Payment Amount are shown in the Payment Parameters section, with the Frequency field as the first field in the section. Also, hid the Payment Schedule query section. Relabeled "Covenant Frequency" to "Frequency" on the Generate Payment Schedule and Payment Schedule forms. (Tri-36476)
Contracts > Agreements	After a contact role is added to a service agreement and the service agreement has been issued and then revised, the contact role can now be removed or changed. (Tri-31909)
Contracts > Agreements	The Amortization Schedule check box no longer shows on the Payment Schedule form and the Generate Payment Schedule form if those forms are from Owned Property (Fee) Agreement. (Tri-38258)
Contracts > Blanket Purchase Orders	In the Products & Services tab, after you retire a product or service, the status of the product or service changes to retired and the product or service displays in the Retired Products and Services section. (Tri-15699)

Area of Change	Description
Contracts > Leases	% Change on Index Adjustment Calculator form now calculates the percentage change between the Base Index and the New Index. (Tri-36003)
Contracts > Leases	A Payment Schedule Term record is not created if the value of Number of Schedules is 0. You must enter a number in this field to cause the Payment Schedule Terms to be created. (Tri-38034)
Contracts > Leases	Added the Include In Amortization Schedule field to the Generate Payment Schedule form. The field is mapped from the Generate Payment Schedule form to the Payment Schedule form when the user clicks the Create Schedule(s) action on the Generate Payment Schedule form. (Tri-36484)
Contracts > Leases	Automatic calculation of the partial first and/or last payment (monthly) in the Payment Schedule wizard is now correct for Asset Lease records. (Tri-36478)
Contracts > Leases	Changed the label on the Software License form from triBuildingSystem to Building System. (Tri-36807)
Contracts > Leases	Corrected a timing issue between asynchronous and synchronous workflows in the calculation of partial payments for payment schedules. (Tri-37112)
Contracts > Leases	Corrected an issue that caused a duplicate payment line item to be generated for the first month of a lease. (Tri-36193)
Contracts > Leases	Corrected the calculation of the Straight Line/Month field on the RE Lease form by dividing by the accounting period instead of by the number of PLIs. (Tri-37161)
Contracts > Leases	During the RE Project Expiration process, the Contract Status status field on the Contract Terminate pop up now correctly maps the Contract Status defaulted or changed on the pop up to the amended real estate lease record. (Tri-36966)
Contracts > Leases	Fair Market Rate Value Calculator record is no longer created past the Payment Schedule End Date. (Tri-39883)
Contracts > Leases	Field labels have been changed on the Green Lease Provisions tab of Lease Abstract and Lease Abstract Template forms. The same changes were made on the Lease Clause, Lease Clause Template, Asset Lease Clause, and Asset Lease Clause Template forms. (Tri-36399)
Contracts > Leases	For Percentage Rent Reporting, the Tax Rate form pop up from the Tax Exclusions tab is now read-only if the parent Percentage Rent Reporting record is read-only (for example, Issue and Completed statuses). (Tri-36875)
Contracts > Leases	Frequency now displays on Payment Schedule records of a Real Estate Contract record when completing a Lease Abstract record. (Tri-39628)
Contracts > Leases	If a lease has one time payment schedules defined, the values in the amortization schedule and in the amortization summary section are now correct. Before, the one time payment schedules were spread across the

Area of Change	Description
	term of the lease, which was incorrect. The rent paid is now in the correct fiscal period. (Tri-40154)
Contracts > Leases	Improved the performance the Save action and the Revise action on a RE Lease record. (Tri-38723)
Contracts > Leases	Index Adjustment Value Calculator records are no longer created past the Payment Schedule End Date. (Tri-39884)
Contracts > Leases	Lease Clause Template Copy action now copies all data from the original to the Copy of... record. (Tri-38278)
Contracts > Leases	Legal Notification Date field in the Critical Dates section is now calculated when the Legal Notice Date and Legal Notice Reminder duration are populated. (Tri-38260)
Contracts > Leases	Now after clicking the Apply Template action, the Attention section shows on the Asset Lease form. (Tri-36733)
Contracts > Leases	On a Payment Schedule, the Add Payment Schedule action now maps contract rentable from the Real Estate Contract Premise Locations on the Locations tab to the payment schedule. Cost per Unit and Annual Amount are now calculated. (Tri-34515)
Contracts > Leases	On the Accounting tab of the Asset Lease form, corrected the spelling of the label of the Balance Sheet Affect section. (Tri-37034)
Contracts > Leases	On the Asset Lease, when using the Payment Schedule Copy action, the Copy of... Payment Schedule now shows the Unit Count and Units fields with the correct UOM. (Tri-37574)
Contracts > Leases	On the Lease Clause record, fields on Payment Schedule and Option are mapped with the fields on Payment Schedule and Option of the Lease Clause Template record when the Lease Clause record is created from a Lease Clause Template record. The affected fields are: For Payment Schedule - Document Type, Section, Page, Abstract Notes, Option Term Payment, and Covenant Frequency Type For Option - Document Type, Granted In Lease, Section, Page, Abstract Notes, Rolling Option, and Effective to Date (Tri-35924)
Contracts > Leases	Payment Schedules (Rent, Percent Rent, Commissions, CAM/OPEX, Insurance, and Tax) associated to a Lease Abstract are now copied when the user clicks the Copy action on Lease Abstract. (Tri-38619)
Contracts > Leases	Removed the Update Matrix action on the Default Matrix SLA Values section of the Services tab of a RE Lease record. (Tri-36951)
Contracts > Leases	Resolved an issue that caused an extra payment line item to be created. (Tri-36188)
Contracts > Leases	Resolved an issue that caused the browser window to remain processing when a Payment Instruction was created with an organization that had a very

Area of Change	Description
	long name or a very long address. (Tri-39587)
Contracts > Leases	Resolved several issues that caused missing payment line items when the payment schedules started or ended in the middle of the month. (Tri-36366)
Contracts > Leases	Revising and reactivating a lease no longer blanks out the value in the Notification column in the Lease Notifications section. (Tri-35979)
Contracts > Leases	Save and Save & Close actions are no longer available when the Lease Abstract Issue record is in Status = Pending Abstractor and read only. (Tri-35904)
Contracts > Leases	The Amortization values and summary are now calculated correctly when a quarterly payment schedule is defined along with regular payment schedules. Earlier, advanced schedules were not handled properly, which caused amortization values to be incorrect. Note that only monthly and yearly advanced schedules are supported. (Tri-40116)
Contracts > Leases	The Calendar tab is no longer visible on the Owned Property (Fee) Agreement Template form. (Tri-38302)
Contracts > Leases	The Effective Date on the Renewal Option created using the Options Wizard is being set correctly by taking the Renewal Expiration Date of the most recent Renewal option plus one day. (Tri-37132)
Contracts > Leases	The layout of the fields in the Lease Clause Template for the Default clause type now matches the layout in the Lease Abstract Default tab. (Tri-36045)
Contracts > Leases	The Notification Date (calculated) field is now recalculated if the value of Notify me how long prior? is changed. (Tri-32597)
Contracts > Leases	The Post Type in the Payment Line Item record is now the same as the Post Type selected in the Payment Schedule. (Tri-36012)
Contracts > Leases	The Premise Location section no longer includes retail center records. Also, the Owned Property Locations tab, Primary Location section, Find action query is now the same as the Primary Location Find query on the General tab. (Tri-36326)
Contracts > Leases	The radio button for the clause is automatically selected if there is only one clause in the query section when using the Find Template action. When there is more than one clause selected from the Find Template action, the radio option of the first record in the Lease clause query section is automatically selected. If one clause is selected in the query section already, the selection will be the same after selecting another Lease Clause from the Find Template action. (Tri-35841)
Contracts > Leases	The Reports tab is hidden on all clause records on the Lease Abstract form. (Tri-34348)
Contracts > Leases	The Reports tab on RE Lease form contains one BIRT report, the Lease Assumption Audit Log Report. (Tri-20744)

Area of Change	Description
Contracts > Leases	The Unretire action on Asset Lease Template and RE Lease Template now returns the record to Template status. (Tri-39970)
Contracts > Leases	The value selected for Insurance Carrier in the embedded section of a lease abstract now maps to the Insurance Carrier field on the added clause. (Tri-36055)
Contracts > Leases	Updated two workflows to remove switches that did not have conditions: <code>triRealEstateContract - Synchronous - Make Dependant Records Editable</code> and <code>triRealEstateContract - Synchronous Read Only Dependant Records</code> . (Tri-35687)
Contracts > Leases	When a lease is revised and the proportionate share is modified in the clause, this change is now carried into the Schedule OPEX/CAM reconciliation. Added Refresh OPEX/CAM Details actions on the Premise Location section of the RE Lease and on the Services Included section of the Lease Clause to update the proportionate share value on Lease Clause and Reconciliations. (Tri-39184)
Contracts > Leases	When a user selects One-time payment (Frequency = Other) and selects the Generate Payment Schedule action in the Payments tab, Payment Schedules sub-tab, the system creates the correct schedule. (Tri-36529)
Contracts > Leases	When making a copy of an Asset Lease that has a payment Schedule, the copy of the associated payment schedule that is in the Copy of... Asset Lease record now shows the Unit Count and Units fields with correct UOMs. (Tri-37575)
Contracts > Leases	When straight line adjustments are used in conjunction with a partial payment schedule, the last payment line item now has the correct Expected Accrual value. (Tri-38463)
Contracts > Leases	When the Advanced Payment Schedule record is saved, if the Start Date is greater than the End Date, now a validation Attention message displays. (Tri-35879)
Contracts > Leases	When the Lease Treatment is Operating, the value of the Operating Portion of Capital Lease field is not used in the Straight Line Rent Liability calculation. (Tri-37935)
Contracts > Leases	When the Payment = Straight Line/Month, accrual values on PLIs when the expected accrual value should be 0 are now calculated correctly. (Tri-39834)
Contracts > Leases	When the sum of the Straight Line Rent Capital Portion PLIs does not add up to the necessary total due to rounding, the additional PLI that is created is now created with the correct value. (Tri-37962)
Contracts > Leases	When you remove an option in a RE Lease, it is now deleted. (Tri-37244)
Contracts > Leases	Within the same month and year, regardless of payment types, the PLIs are split proportionally. (Tri-37389)

Area of Change	Description
Contracts > Leases	<p>You use the field named <i>Time Zone used to calculate contract payment schedule</i> that is now in Application Settings > Lease Accounting Settings > Payment Schedule Settings to establish whether the system's or the user's time zone is used to calculate payment schedules.</p> <p>The Event object now includes a field named <code>triTimeZoneId</code>, which contains the value from the <i>Time Zone used to calculate contract payment schedule</i> field in Application Settings. The <code>triTimeZoneId</code> field is used to calculate payment schedules that create Event records. (Tri-36970)</p>
Contracts > Leases	You use the Units section to change the Currency UOM on the Asset Invoice form or the RE Invoice form to be different from the associated contract. (Tri-36375)
Contracts > Payables	Only payment amounts greater than zero are applied when processing Receive Lease Receipts. (Tri-39420)
Contracts > Payables	When a RE Invoice is revised, it creates a history RE Invoice which inadvertently created two payment vouchers. Now the RE Invoice only creates one payment voucher. (Tri-39643)
Contracts > Payables	When creating a One Time Payment from an Asset Invoice using the Quick Add method, the Asset Lease name on the One Time Payment record is no longer marked as required. Both the RE Contract and Asset Lease smart sections were visible on the One Time Payment form. Now, if displayed from an Asset Invoice, the RE Contract section is hidden, and if displayed from a RE Invoice, the Asset Lease section is hidden. The applicable contract from the Invoice is now prepopulated on the One Time Payment form. (Tri-37241)
Contracts > Prime Contracts	Added the Remove action to the Contacts section of the Prime Contract form and the Prime Contract Change Order form to make it possible to remove contact records. (Tri-39725)
Contracts > Receivables	Resolved an issue in the Process AR Receipts form that caused the Find action on the AR Payments Due query section to not display applicable payment line item records from the associated contract. (Tri-37965)
Contracts > Warranty	When a warranty contract is retired, associated SAM records are deleted. (Tri-34114)
Cost Codes	Adding a new Cost Code no longer defaults the Name field to Cost Code. (Tri-40468)
Cost Estimates	When you Retire a Geography Cost Index record that is in Revision in Progress status, the Status Value now displays as Retired. (Tri-16531)
Document Management	The Publication form now has Revise and Retire actions when it is in the Published state. (Tri-17142)
Energy Rating	When creating a subsequent energy rating record for a building, the Other Subtype field is now mapped correctly. (Tri-36841)

Area of Change	Description
Form Runtime	Now the Attention section of a Lease Clause Service record is no longer visible when there is no data in this section after the user cancels out of the page and then reopens it. Retired the Workflow <code>triLeaseClauseService - Cancel -Reset Meta Date</code> . (Tri-23707)
Forms	Updated the query sections for the following forms: <code>triAsset</code> , <code>triAssetOffline</code> , <code>triCatalog</code> , <code>triContractNotificationAssetLease</code> , <code>triCore</code> , <code>triDuplicateRequests</code> , <code>triInventory</code> , <code>triIssue</code> , <code>triKey</code> , <code>triKeyRing</code> , <code>triLocks</code> , <code>triOfficeEquipment</code> , <code>triPWServiceManagerEditServiceAgreement</code> , <code>triPermitApplication</code> , <code>triProductContractServicesRequest</code> , <code>triResolutionOption</code> , <code>triServiceExcluded</code> , <code>triSoftwareLicense</code> , <code>triSolution</code> , <code>triTechnologyAsset</code> , <code>triTelephones</code> , <code>triTimeCategory</code> , <code>triToolsandTestEquipment</code> , and <code>triWorkAreaOutlets</code> . (Tri-36932)
Funding Requests	Funding Analysis now displays names instead of numbers when comparing funding requests. (Tri-23339)
Funding Sources	Performing a Program fund transfer for a given funding source and year no longer results in the transfer amount being applied to each Program funding source having that same year. (Tri-36151)
Gantt	The value in the Working Hours Per Day Used For Scheduling field in a Calendar record now must be greater than 0 and less than 24. (Tri-21097)
General Evaluation	The Find action on the Survey Recipients section of the General Evaluation Request form now only refers to Employees and Consultants. (Tri-19749)
Generate Payment Schedule form and Payment Schedule form	The calculation of '13-period' frequency is now added to frequency payment calculations. The Charge Amount Basis values per Area (Annually) and per Area (Monthly) do not apply to the Asset Lease. These values can be selected since Generate Payment Schedule is a common form, but the Expected Cash Amount on the generated Payment Schedule form will display zero. (Tri-70797)
Generate Payment Schedules	Resolved an issue that caused a partial year schedule created by modifying the end date of the last scheduled year to stay in processing status. (Tri-37184)
Globalization	Removed all labels from the as-delivered products that were not in US English. (Tri-35827)
Inventory > Manage Inventory	Inventory Quick Fill units are now correct. The Quantity UOM and Currency UOM are populated from the Inventory Item. (Tri-38095)
Inventory > Manage Inventory	The <code>triInventoryBillofMaterials - Synchronous - Calculate Actual Cost</code> workflow now calculates Quantity Issued and Quantity Returned from the <code>triInventoryTransactionItem</code> records, similar to

Area of Change	Description
	Cost Issued and Cost Returned. With this change, the task's Inventory Bill of Materials record now more accurately reflects actual quantities. Also, new fields added to the task's section queries (<code>triInventoryBillofMaterials - Display - triTask Consumable</code> and <code>triInventoryBillofMaterials - Display - triTask Assignable</code>) improve the data available to the user about each line item was processed. (Tri-37100)
Inventory -> Manage Inventory	Inventory Manager form when doing inventory items adjustments the quantity unit of measure is now pulling from the inventory item. (Tri-37967)
Inventory > Manage Inventory > Items	The Order/Receipt, Hold, Issue, and Adjustment/Transfer section actions are inactive until the record is created. (Tri-37715)
Lease Abstract	The Area Units field on a Lease Abstract now is pre-populated with the value of the Area Units field in the logged in user's My Profile record. (Tri-36622)
Lease Abstract	The Copy action on a Lease Abstract now also copies the premise location record. Changes that are made to premise location details in the original record no longer affect both records. (Tri-36400)
Lease Abstract	When selecting a Responsibility Services record from a query section on Lease Abstract, fields in the Clause Details and Responsibility Service sections are changed accordingly. If a user selects a Responsibility Services record and clicks Cancel instead of Save on the Lease Abstract, the next time the user opens this record, the default radio button is where it was last saved. (Tri-38521)
Leases	The Graphic Find action on the Service Locations tab of the Real Estate Lease Template form is now hidden. (Tri-36034)
Lists	Removed DateTime formats containing both HH and a, such as <code>yyyy/MM/dd HH:mm a zz</code> , because the a indicates an AM/PM designator for an HH 24-hour clock. (Tri-37281)
Locations > Land	Added a formula for CO2, N2O, and CH4 Equity Share and Equity Share Reporting fields on the Scope 1 (Direct) Summary section of the Environmental tab on the Land form. (Tri-37380)
Maintenance	For records in Active status, a Checklist Item that is manually added has a retire action as does a Checklist Item created from a Checklist Item Template. (Tri-17643)
Maintenance -> Analyze Opportunity	Resolved the issue causing opportunities from a funding analysis to not be copied to the new funding request. (Tri-37482)
Maintenance > Facility Assessment	Added the BST Approval Template record. It links to the Building System Template Approval Requirement record. If you have created an approval template record with a similar name, you need to make sure your users understand which record to select in the Approval Requirement records. (Tri-33347)

Area of Change	Description
Maintenance > Facility Assessment	Bulk Print actions for all task types on the Maintenance Manager form now print all selected task records whether or not they are created under a project level. (Tri-36480)
Maintenance > Facility Assessment	Now the results in the Opportunity Analysis section are the same for Opportunity and Funding Request records. (Tri-36114)
Maintenance > Preventive Maintenance	Replaced the sentence for Yearly Recurrence on the PM Event form with Sequence, Day and Month labels for each list field. (Tri-36863)
Maintenance > Procedures	Currency fields in the Details section of Safety Precautions Procedure, Inspection Procedure, Lock-Out / Tag-Out, and Safety Hazards Procedure forms are now right aligned. (Tri-36634)
Manage Requests	By design, the Service Request section is hidden when the service request record is in Issued status. However, the selected Service Request is populated to the field (Service Requested) in the Request Details section, and this field is visible when the service request record is in Issued status. (Tri-35930)
My Reports	Added runtime filters for Payment Type, Accounting Type, Due Date (Before) and Due Date (After). (Tri-21010)
My Reports	Changed the Reset Capture Period flag to be cleared in the following Reserve Job Schedules. Checking this flag causes other metrics to not render correctly. <ul style="list-style-type: none"> ▪ DEFAULT Reservation Resource (Asset) Day Fact Load Table ▪ DEFAULT Reservation Resource (Location) Day Load Fact Table (Tri-38324)
My Reports	Now the Currency indicator in the Portfolio Summary Report is displayed and changed according to the user's selection. (Tri-36643)
My Reports	Removed developer notes from the report description of the Financial and Activity Report, Funding Notification Report, Program Specific Recovery Act Report, Move From/To Details Report, and the Move From/To Summary Report. (Tri-28518, Tri-28521)
My Reports	Resolved issues in the following BIRT reports that prevented the report from rendering or that entered random values in the fields in the parameter box: Potential Change Order Summary, Space Class Summary by Geography, and Funding Source Summary Report. (Tri-36653)
My Reports	Symbol is changed throughout when Currency parameter = Currency Conversion and To Currency parameter is any currency. The changes are made to the BIRT reports listed below. <ul style="list-style-type: none"> ▪ triRealEstateContract - BIRT - Accounts Payable History ▪ triRealEstateContract - BIRT - All Future Lease Obligations ▪ triRealEstateContract - BIRT - AR Aging

Area of Change	Description
	<ul style="list-style-type: none"> ▪ triAssetLease - BIRT - AR Aging for Asset Lease ▪ triRealEstateContract - BIRT - AR RE Contract Payment Details ▪ triAssetLease - BIRT - AR RE Contract Payment Details for Asset Lease ▪ triRealEstateContract - BIRT - Contract Payment Details ▪ triRealEstateContract - BIRT - Contract Summary Report ▪ triRealEstateContract - BIRT - Future AR Payments ▪ triAssetLease - BIRT - Future AR Payments for Asset Lease ▪ triRealEstateContract - BIRT - Future Rent Obligations Detail ▪ triRealEstateContract - BIRT - Future Rent Obligations Detail for Asset Lease ▪ triRealEstateContract - BIRT - Portfolio Summary Report ▪ triRealEstateContract - BIRT - Tenant Aging Report (Tri-36566)
My Reports	The Active status filter has been renamed to Issued for the triContract - REPORT - Contract Execution Report for Bin3 report. (Tri-24694)
My Reports	The parameters are now correct in the Bulk Print RE Invoice and Bulk Print Asset Invoice BIRT reports. (Tri-36635)
My Reports	Updated the extended formula on the triContractPaymentsNU field. (Tri-36938)
My Reports	Updated the Survey Fact Table to get the correct location on the general evaluation. Also corrected Responsible organization and Responding organization data in Survey metric queries. You must recapture the survey fact in order show the results correctly. (Tri-39157)
My Reports > System Reports	Run the 10.3 patch helper workflow to fix an issue causing time zone classification records to not be associated to the status classification. (Tri-35766)
Notification Requirement	For Real Estate Transaction Management users who do acquisitions (only), the shipping Notification Requirement record on RE Project Acquisition has been removed. This record will not be installed with future releases (new install). If an upgrading customer would like to remove this, you can do it manually. (Tri-36915)
Notifications > Notification Requirement	Notification of a completed work task is sent once instead of twice. (Tri-36637)
Object Migration	If the Threshold type selected does not match the Detail section, run the triPatchHelper - triCalculate - 10.3 - Fix Thresholds workflow. (Tri-31397)
Operations > Contact	The Clear action in the General section now clears the values in the Problem

Area of Change	Description
Center Manager	Asset and Problem Location fields. (Tri-29619)
Organization Manager	The reverse association of Organization - Parent Level 3 - Organization on the Organization business object now is set correctly and matches other Parent level (0, 1, 2, 4, and 5) associations. (Tri-20255)
Payables > Invoices	In PO Invoice, the Organization field now populates correctly when the user clears the Organization field and selects a new organization. The Organization field now populates correctly when the user changes the user after selecting the To Lookup link. (Tri-13388)
Payables > Payments > Release	The Vendor Company Lookup in the Payment Release form now defaults to External Contact instead of Employee. (Tri-28155)
Payments	When the user completes a prime contract change order, if the prime contract change order has prime contract change order line items with cost codes, the system appends the cost code from the prime contract change order line item to the Cost Transaction Codes section of the Financial Transaction form. (Tri-19691)
Percentage Rent Reporting	Percentage Rent Reporting action items now are removed from the user's Home page Action Items list after the records have been issued. (Tri-36914)
Plan > Space Allocation Manager	Changed the label from Seat Occ Pct to Seat Occ Pct (e*100/f) in the Portfolio Summary section of the Area Level Allocation form. (Tri-8702)
Plan Moves	The Add Room action on the Move Line Items for Selected Request section of the Move Planner form now correctly maps a Location record. (Tri-27814)
Portfolio > Asset Manager	Resolved the issue that prevented the Graphics tab on Asset forms from displaying the applicable graphic (for example, a floor plan). (Tri-31897)
Portfolio > Assets	Removed the Add action on the MTBF Log tab and Downtime Log tabs on the History tab of a Building Equipment Asset record. (Tri-36652)
Portfolio > Environmental Manager	A Carbon Log is now created for a building that has Waste Log data but no Energy Log data or Travel Log data. (Tri-36609)
Portfolio > Geography	Adding a city to a building now creates the correct association between triBuilding and triCity. (Tri-33227)
Portfolio > Location > Floor	In the Area Measurements tab of a Floor record, the values for Imperial and Metric now display the correct data. (Tri-37172)
Portfolio > Locations	The carbon calculation UOM is now applied from the building into the carbon log record. (Tri-36912)
Portfolio > Locations	The Floor Cost per Sq Unit field on the Allocation tab of a Space/Space Group record is now mapped with the value in the Cost per Sq Unit field on the Floor record when the Space record is first created. (Tri-33224)

Area of Change	Description
Portfolio > Locations	When a floor record is retired, the system updates the Rentable Area field and Usable Area field on the Area Measurements tab of the building record. (Tri-36251)
Portfolio > People	Each security group and license can be added only one time. Even if a user attempts to add a group or license more than once, the system does not add it more than once. (Tri-13266)
Portfolio > People	Resolved an issue that caused the user who created or modified the record to be displayed in the System tab as System, System instead of the actual user. (Tri-37782)
Portfolio > People	Updated the list of languages on the Profile tab of the Employee record. (Tri-36610)
Portfolio > Planning Manager	Space Plans are added from Portfolio Plans. Removed the Add action from the following reports: <ul style="list-style-type: none"> ▪ All Space Plans/Scenarios ▪ My Space Plans/Scenarios (Tri-27729)
Portfolio > Planning Manager	User messages are no longer hardcoded through workflow. (Tri-27573)
Portfolio > Project Manager	The editable query for the Project Original Budget Template Items in Project Original Budget Template records now includes fields to input budget amounts. (Tri-22823)
Portfolio > Project Manager	The values of the Importance Ranking field and the Importance field are now cleared when the user changes the Use In Evaluation check box from selected to cleared. (Tri-23237)
Prime Contracts Change Orders	Updated the Contracts menu and portal section to include links to Prime Contract Change Orders. (Tri-36979)
Procedures	When creating a procedure, clicking the Add action on the Materials sub-tab from the General tab opens a new Specification Bill of Materials. The Status field in the Bill of Materials record no longer contains the current user's status. (Tri-31604)
Process AR Receipts	When there is an AR Receipt Credit on the associated RE Contract, the system now pulls this amount into the Credit Balance field in the Payment Details Section on the Process AR Receipt form. (Tri-36116)
Procurement	Removed the <code>triPurchaseOrder - Synchronous - triCompleteFinalHidden</code> workflow in the Complete Final Hidden subaction of the state transition of the <code>triPurchaseOrder</code> business object. (Tri-18532)
Procurement > Credit Cards	The selection of a contact in the Purchased From section of a Procurement Card Line Item no longer changes the Organization in the Purchased By section to the value in the Purchased From section. (Tri-23439)

Area of Change	Description
Procurement > Purchase Order	The Clear action in the Blanket Purchase Order section of the Purchase Order form now clears the associated Blanket Purchase Order. (Tri-27669)
Product Request	Retired records no longer display when the user selects the Search Catalog link on the Products Requested section in the Product Request form. (Tri-23759)
Project > Budget Manager	A user message now displays when an invalid value is entered into the Details section on the Spend Plan tab of the Budget. (Tri-25777)
Project > Budget Manager	Currency on the budget (Original Budget, Budget Change, Forecast and Transfer) defaults to the same currency as its parent capital project. The currency field in budget forms now is read-only. (Tri-19577)
Project > Budget Manager	Improved the user messages on the Spend Plan tab of a Project Original Budget form. Instead of one combined message, now there are separate validation attention messages, one for percent of duration when half the budget will be spent and the other for Growth Value. (Tri-25964)
Project > Budget Manager	The BO Mapping for the <code>triLineItemSummary</code> business object in the <code>triCostItem</code> module no longer points to a field that does not exist. (Tri-29586)
Project Templates	The Copy action in the Capital Project template form now copies the template correctly. (Tri-17559)
Projects	Added an In Service date field to a Retail Location record created from a Proposed Retail Site record when the project is closed out. The In Service date is the Commencement Date from the RE Lease Project form, Financial Terms tab. (Tri-13051)
Projects	After funds are transferred via the Fund Allocation section of the Budget tab of the Capital Project form, the values are now correct in the Funds Available column in the Requested Project Fund Transfers from Funding Source section. (Tri-37060)
Projects	Improved the Cash Flow Graph report. It now includes the series name and the point data value in the hover tooltip. (Tri-36607)
Projects	On the General tab of the Prime Contract in the Bill To section, the First Name and Last Name fields are no longer required fields. (Tri-37618)
Projects	Resolved incorrect mapping into a locator field in Apply Template workflows on original project budget. (Tri-28469)
Projects > Budget	Corrected inconsistencies in the display of currency UOM. (Tri-36396)
Projects > Capital	When the new field Enable in Draft Mode in the Project Security section of Application Settings is selected, a user with the appropriate security can select the Apply Template action on a Capital Project. (Tri-39468)

Area of Change	Description
Projects > Contract	All fields in the Summary section of the Standard Contract form display the currency UOM from the user's My Profile. (Tri-37388)
Projects > Contract	Contract Invoice Line Item Amounts are no longer doubled when multiple change orders are present. (Tri-39821)
Projects > Contract	On the Purchase Order form, the Total Invoice field now displays the total invoiced value from the associated purchase invoice. (Tri-36650)
Projects > Facilities	Planned End Date no longer always has the same value as Planned Start Date in the Facility Project. (Tri-39503)
Projects > Funding Requests	The Net Investment Cost on the Evaluation tab of a Funding Request now includes rebates when performing the funding analysis calculations. (Tri-36040)
Projects > Funding Requests	When the Use In Evaluation field is selected, objectives and risks now populate from the program to the funding request even if the required request type is not populated before the user creates a draft record. (Tri-36672)
Projects > Progress	The Organization field on the To section of the Potential Change Order form now displays the organization name instead of the whole path. (Tri-32567)
Projects > Real Estate	Added as child classifications to RE Moving Costs in the Cost Type Classification: Purchase Cost, Financial Category = Purchase Cost and Purchase Price, Financial Category = Purchase Price. (Tri-37564)
Projects > Real Estate	An empty Premise Location record is no longer created when an RE Project (new Lease) creates a Lease Abstract. (Tri-36812)
Projects > Real Estate	During the RE Project Termination process, a Contract Status field was added to the Contract Terminate popup. Workflow now properly maps the Contract Status defaulted or changed on the pop up to the amended real estate lease record. (Tri-36967)
Projects > Real Estate	In the RE Project Termination form, Percent is now read-only for the Lease Termination Cost (% of Remaining Obligation) field and the Lease Buyout (% of Remaining Obligation) field on the RE Project Termination Site Information tab under the Details of Termination Or Buyout section. (Tri-36940)
Projects > Real Estate	On all RE project forms, the field labeled Annual Rent Expense was relabeled to Average Annual Rent. Also, the formulas used to calculate the Average Annual Rent and the Total Commitment were updated and improved. Both now subtract sub-lease rental income. (Tri-36916)
Projects > Real Estate	Percent is now read-only for the Acquisition Costs, Commissions, and Closing Costs fields on the RE Project Acquisition Offer Information tab under the Purchase Terms section. (Tri-36941)
Projects > Real	Purchase Price has been added to Financial Category Classification under 3

Area of Change	Description
Estate	Yr Cash Flow. Also Purchase Price has been selected in Financial Categories section of Acquisition record under Project Type Classification. (Tri-37568)
Projects > Real Estate	Save and Save & Close actions are now available when RE Project Lease or Acquisition records are in Planning status. (Tri-36538)
Projects > Real Estate	The Lease Option is now editable on a contract amendment action item. (Tri-36357)
Projects > Real Estate	The RE Project Template list displayed by the Apply Template action on the RE Project form no longer includes retired records. (Tri-32169)
Projects > Real Estate Lease	A RE Project Lease when closed out creates the correct preferred provider evaluation survey and portfolio manager evaluation survey. (Tri-40011, Tri-40013)
Projects > Schedule	Hid the Run Process action on System Job Scheduler, System Job Item, and Job Scheduler forms. (Tri-36977)
Proposal Manager	Users now can add licenses to an External Contact record in a project context. (Tri-10007)
Proposals	In the RFP form, all fields in the Vendor Company section and the Bill To section are now populated from the Standard Contract record, as well as the Cost Form section in RFP record. (Tri-22481)
Proposals	In the RFP form, the Vendor Company Lookup query now defaults to External Contact instead of Employee. (Tri-28236)
Query and Reporting	Changed the reverse association to No for the following queries: triJobPlan - Display - triMaintenanceManager - Responsible Org and triJobPlan - Display - triMaintenanceManager - Service Provider Org. Also corrected the association types in the Association filter. (Tri-30297)
Query and Reporting	Changed the reverse association to No for the following query: triMoveRequestLineItem - Display - Associated Task Query. (Tri-22458)
Query and Reporting	The My Active Request report performs a descending sort correctly. Apply the SQL script to update the system fields with sub-attribute type of CreatedDateTime to CreatedDateTime (Number) and ModifiedDateTime to ModifiedDateTime (Number). Oracle and Microsoft SQL Server scripts are located on the upgrade disk in the \Scripts folder. Instructions are within the scripts. (Tri-32473)
Query and Reporting	Updated the subqueries in Key Request and Product Request so they are consistent. (Tri-17581)
RE Projects	On each RE Project form, on the tabs on the Financial Term tab, the Remove actions now properly deassociate the Cash Flow Line Items that are selected/removed by the user. (Tri-36818)

Area of Change	Description
Real Estate	Standard Capital Project Cost Codes are no longer available for selection on the Cost Code section of the Space Use Agreement form. (Tri-13168)
Real Estate	The Accrual Adjustment Amount field and the Credited Amount field on the Payment Adjustment form are now marked as required fields. (Tri-11751)
Real Estate Lease	The RE Lease is no longer automatically approved if it has been revised and resubmitted when the Contract Administrator Manual Approver is different from the person who created the RE Lease. (Tri-38417)
Real Estate Lease	The status of a Payment Schedule that is added from the Generate Payment Schedule form changes to Scheduled when the RE Lease is activated. (Tri-37307)
Real Estate Transactions	Removed the Add action from the OPEX/CAM Reconciliation navigation queries. (Tri-32805)
Record Runtime	The value of the Language field on a building record is populated from the originator's My Profile record. However, in a hierarchy, a child record inherits the language value from its immediate parent. (Tri-38614)
Reports	Queries to be removed from the shipping product in the future have <code>TO_BE_DEPRECATED</code> in the query tag. (Tri-40031)
Reports	Removed the contact role filter from the AR Aging report and for the AR Aging report for asset lease. (Tri-36392)
Request Central	Corrected the workflow that fires when the user selects an Add Space request or a Return Space request and switches from Me to Someone Else. (Tri-34015)
Request Central	Improved the columns displayed in the My Call Records portal section when a user signs in as a Call Center Agent. (Tri-32044)
Request Central	When a move request is completed, the Primary Location field is now updated on the My Profile forms of affected users. (Tri-35612)
Requests > Add Person	Added a Location field to the New Hire Details section on the Add Person Request. (Tri-39105)
Requests > Contact Center	The Follow Up task notification is now only sent to the "Associated To" person if the agent has multiple My Profile associations. (Tri-36847)
Requests > Contact Center	When the user navigates down the solution tree and selects the solution instruction, the correct solution is created and appended to the Solution section of Contract Center. (Tri-22851)
Requests > Manage Requests	On the Human Resources, New Hire form, the Add Person radio button in the Service Request section now works properly. (Tri-36536)
Requests > Manage	The as-shipped Vehicle Specification Class no longer includes the following

Area of Change	Description
Reservations	specification classes: LMV and HMV. (Tri-38023)
Requests > My Requests	On a New Hire request, when the user selects the Someone Else check box and the Requested For is a person with a building that has manage service, only Add Person is prepopulated. (Tri-39683)
Requests > My Requests	Resolved an issue in the translation into some languages with the way navigation items that show in a Reminders section are labeled. Now the labels are reordered using the format # - Label. This change applies to all navigation items in Reminders sections that can be found on landing pages or home portals. (Tri-36721)
Requests > My Requests	The Copy action on a Move Request Line Item record now copies the Move Planner from the From Location section to the copied record. (Tri-36899)
Requests > Survey	Survey questions from the selected template on a General Evaluation Request are now displayed on the General Evaluation Survey record. (Tri-39419)
Security Groups	TRIRIGA Application Administrator and TRIRIGA Environmental Manager/Planner now have access to the Environmental Meter Log. (Tri-38272)
Setup > Classification Manager	Some classification records do not have the correct status record association. You use the patch helper workflow <code>triPatchHelper - triCalculate - 10.3 - Fix All Classification Status Field</code> to resolve. (Tri-20417)
Space > Find Space	The Find Space feature for People, Space, and Asset now prompts users to enter search criteria before the search is processed. This targeted search returns results to the user more quickly. (Tri-38510)
Space > Plan Moves (Move Designer)	Move Service Request now shows the To Location once the individual move is set. (Tri-34556)
Space > Plan Space	Entering a Target Value for the SFP - OPS - Time to Complete (Months) on the Planning Goal Item form no longer causes an error. (Tri-39940)
Space > Space Plan	When the user clicks Move Facilities Project - Upload Error in the Related Reports, they now see the Related Reports for Move Facilities Projects. (Tri-36285)
Space Use Agreements	Cost Code subqueries on the Find action of the Cost Code section in a Space Use Agreement record now appear as subreports of each other so that selecting one will display the others in the subqueries list. (Tri-13049)
Specification	Specification forms now display the Attention section on the System tab. (Tri-32409)
Specifications > Consumables	Revised the workflow that tests for a null value in the user message. The affected workflow is <code>triConsumablesSpec - triUploadHidden - Validate Data</code> . (Tri-32132)

Area of Change	Description
State Family Manager	RFP Response state family for create, save, save and close now map the correct workflows. (Tri-32333)
Sustainability > Certifications	Added a Revise action on the Energy Rating Schedule. This action removes scheduled events, which will stop polling on the Energy Rating Schedule. (Tri-36608)
Sustainability > Certifications	Resolved an issue slowing performance of the Rating Schedule. (Tri-36599)
Sustainability > Environmental Data	In Sustainability > Emission Factor > Energy, moved the Energy Source field to the Details section, made the Energy Source field read only, and populate the Energy Source field based on the Meter Type. (Tri-37123)
Sustainability > Environmental Data	The value the Projected Energy field now defaults to be the same as the value of the Current Energy field in the Carbon Footprint Analysis Summary section of the Carbon Footprint Analysis form. (Tri-32573)
Sustainability > Environmental Data	Travel Emission Data now only shows the scope section that is based on the scope in the travel log. Energy Emission Data now only shows the scope section that is based on the energy source selected in the travel log. (Tri-37723)
Sustainability > Environmental Data	You must retire existing emission factor records for travel, energy, global warming, and waste before creating new records. (Tri-37514)
Sustainability > Set Up	The units of measure for CO2, CH4, and N2O emissions are now correctly displayed in the field label. Previously these were displayed in drop-down lists even though selecting different units did not change the calculations. (Tri-37766)
System Manager	Corrected field values in 11 workflows. (Tri-23065)
System Manager	In the Help record, documents selected in the Related Topics section using the Find action on the Related Documents tab now display. (Tri-13013)
Task Templates	The Find action on the Dependencies section of the task templates listed below now points to the correct query. The affected task templates are as follows: Schedule Task Template, Facility Assessment Work Task Template, Contract Review Template, Inspection Task Template, Inventory Count Work Task Template. Inventory Pick Work Task Template, Key Work Task Template, Punchlist Task Template, Reserve Work Task Template, Schedule Task Template, Submittal Task Template, and Work Task Template. (Tri-27784)
Tasks	The section label for assigned service provider is now "Responsible Organization" for the Contract Review, Contract Review Template, Inspection Task, Inspection Task Template, Punchlist Task, Punchlist Task Template, Submittal Task, and Submittal Task Template forms. (Tri-13156)
Tasks > Manage Tasks	In the Schedule Task form, when a user inputs a number into the Lead(-)/Lag(+)/Working Days field and the Lead(-)/Lag(+)/Working Hours field and

Area of Change	Description
	then saves the record, the Lead(-)/Lag(+)Total Working Hours field is now calculated correctly. The same update has been applied to the following tasks: contract review, facility assessment work task, inspection task, key work task, material order task, punchlist task, reserve work task, schedule task, submittal task, work task, inventory count work task, and inventory pick work task. (Tri-36689)
Tasks > Manage Tasks	The triNameTX field in all task business objects now has a length of 150 characters. (Tri-36975)
Tasks > Manage Tasks	When the user clicks the Find action in the Responsible Organization section of a Work task, the Assign and Auto-Assign actions are hidden and the Unassign action shows. When the user clicks the Clear action, the Unassign action is hidden and the Assign and Auto-Assign actions show. This change was made to the following task types: Work Task, Schedule Task, Inventory Count Work Task, Inventory Pick Work Task, Key Work Task, Material Order Task, Punchlist Task, Submittal Task, Inspection Task, Reservation Work Task, and Facility Assessment Work Task. (Tri-32340)
Tools > Administration	Active, Review Cancelled, and Template status classification records that were in retired status have been changed to active status. (Tri-37099)
Tools > Administration	Added OSCRE ID = 999 to Frequency Type "Specific Quarterly (Location Specific)" Classification records. (Tri-37143)
Tools > Administration	Added yyyy/MM/dd HH:mm zzz, dd.MM.yyyy HH:mm:ss, and yyyy-MM-dd HH.mm to the Date Time Format List. (Tri-36707, Tri-36830)
Tools > Administration	Carbon Calculation Region Classification (NERC Region) files are no longer delivered with the application. (Tri-37762)
Tools > Administration	The Bulk Security Utility now supports bulk updating of License and Security Group details for multiple users. (Tri-36073)
Tools > Administration	The copy created as a result of the Copy action on the RE Savings Type classification record now is created under the parent record instead of under the root hierarchy. (Tri-37088)
Tools > Administration	The OSCRE ID field is no longer copied from the original Unit Type Classification record to the copy record. (Tri-39129)
Tools > Approvals & Notifications	Resolved issues causing notifications to be sent twice instead of once. (Tri-37087)
Tools > Builder Tools	A number of queries had reverse association set to yes even though it was not required. These queries now have reverse association set to no. (Tri-39388)
Tools > Builder Tools	British English, Korean, and Thai are no longer included as delivered values in the Language Manager. However, if you are doing an upgrade to 10.3 using the object migration package, you need to remove these entries manually from triLanguage and Language lists under the triCommon module.

Area of Change	Description
	(Tri-39155)
Tools > System Setup	Corrected an issue that caused the System Job Scheduler to only process the first carbon log when Capture Historic Runs was checked. Now the Carbon Calculation Needed flag on buildings is not reset immediately after the historic capture runs. The processing determination and reset of the check box now takes place on the subsequent capture that is set for a future date. (Tri-36186)
Tools > System Setup	GIS maps have been updated with changes from Esri. (Tri-40505)
Tools > System Setup	If a user password fails because it is longer than the maximum password length set in Tools -> System Setup -> System -> Password Setup, the message displayed to the user now includes the maximum length. (Tri-34597)
Tools > System Setup	If the values saved in Application Settings, Lease Accounting Settings tab, Rent Component Assumption Defaults section total more than 100%, the System tab now shows an appropriate Attention message. (Tri-35801)
Tools > System Setup	Related Reports queries for Transformation Content - Upload Error and Transformation Content - Review In Progress now return records in the correct status. (Tri-32711)
Tools > System Setup	Resolved the issue causing the Building Cost ETL to work incorrectly. (Tri-37375)
Tools > System Setup	The Delete and Copy actions have been removed from the System Configuration form. (Tri-32713)
Tools > System Setup > Application Settings	In 10.3, the currency in the Application Settings defaults to SYSTEM_BASE, which is the base currency defined in the TRIRIGAWEB.properties file. The functionality that references this field now can pull in a currency/number field in currency other than US Dollars; however, existing data remains as is. You can use the following Patch Helper workflows to reset the currency/number fields for an existing Application Settings record: (1) triPatchHelper - Synchronous - Retro Application Settings Currency UOM, (2) triPatchHelper - triCalculate - 10.3 - Retro Application Settings Currency UOM (Tri-37061)
Transaction Plan	CTQs are mapped from the Transaction Plan and the user can request a CTQ Evaluation. (Tri-36152)
User Profile	The Created Date and Modified Date Time fields on the System tab of a record now display in the user's date format preference. (Tri-33263)
Work Task	When a work task is completed, if the Actual End Date field is empty, the field is now populated with the user's current date and time. If the Actual End Date field contains a value when a work task is completed, no change is made to the value. (Tri-27567)
Work Task Template	Materials put under Resources on a Work Task Template are now copied to the Work Task. (Tri-14122)

Area of Change	Description
Workflow Builder	Removed an unused workflow, triOption - triExercise - Create notifications for Renewal type Options. Retiring or deleting this workflow manually in your environment is optional. (Tri-39183)
Workflows	Removed the End Task from the middle of the triSpace - Synchronous - Set Availability Dates - Refresh Planned Occupancy and Planned Vacancy workflow. (Tri-33897)
Workplace Reservation Manager	A notification has been added to inform the requester on a reservation when the room was set up for auto-cancellation and the system cancelled the room. (Tri-75224)
Workplace Reservation Manager	The Reservation system now supports the ability for a user to end a meeting early (from the reservation user-interface) so that the room can be freed up for others to book. (Tri-68980)
Workplace Reservation Manager	Users can now check out from the reservation user interface, so that the room can be freed up for others to book. If the user does not check out, the system automatically checks them out at the planned end time of the reservation. (Tri-70252)
Workplace Reservation Manager	You can perform workspace searches based on the functional role entitlements that are configured on the workspace for the user that is identified as the requested for. This feature is enabled and disabled in the Application Settings. (Tri-70097)

IBM TRIRIGA Application Platform 3.3.1

This chapter details important information, known limitations, changes, and property file changes for the IBM TRIRIGA Application Platform.

Important Information

Important information concerning the IBM TRIRIGA Application Platform for this release includes the following:

Area of Impact	Description						
Branding	<p>If you are upgrading from a version of IBM TRIRIGA Application Platform prior to 3.0, due to significant changes in the portal, IBM TRIRIGA does not map previous branding styles to the new style classes in the Style Manager. The upgrade to IBM TRIRIGA Application Platform 3.x preserves header details, but you need to rebrand the rest of the page. Find the Style Manager in the Utilities portal section or by selecting Tools > Administration. The Style Manager is described in the <i>IBM TRIRIGA Application Platform 3 User Experience User Guide</i>.</p>						
Browsers	<table border="1"> <thead> <tr> <th>Browser</th> <th>Important Information</th> </tr> </thead> <tbody> <tr> <td>Apple Safari</td> <td> <ul style="list-style-type: none"> ▪ The following builder tools are not supported: Classifications, Lists, Data Modeler, Form Builder, Association Manager, Workflow Builder, Portal Builder, Navigation Builder, State Family Manager, Scorecard Manager, License Manager, Security Manager, Data Integrator, Object Migration, Currency Conversions, Label Manager, and Style Manager. ▪ Brava viewer is not supported in the Document Manager. (Tri-81601) ▪ Excel sections are not supported. ▪ Safari does not support dragging and dropping files from the finder into the multi-file uploader in the Document Manager. (Tri-80867) ▪ There is limited support for HTML5 charts. ▪ Users on a Mac OS X must use the Shift key when resizing section and field lookup dialogs. (Tri-82179) </td> </tr> <tr> <td>Google Chrome</td> <td> <ul style="list-style-type: none"> ▪ The following builder tools are not supported: Classifications, Lists, Data Modeler, Form Builder, Association Manager, Workflow Builder, Portal </td> </tr> </tbody> </table>	Browser	Important Information	Apple Safari	<ul style="list-style-type: none"> ▪ The following builder tools are not supported: Classifications, Lists, Data Modeler, Form Builder, Association Manager, Workflow Builder, Portal Builder, Navigation Builder, State Family Manager, Scorecard Manager, License Manager, Security Manager, Data Integrator, Object Migration, Currency Conversions, Label Manager, and Style Manager. ▪ Brava viewer is not supported in the Document Manager. (Tri-81601) ▪ Excel sections are not supported. ▪ Safari does not support dragging and dropping files from the finder into the multi-file uploader in the Document Manager. (Tri-80867) ▪ There is limited support for HTML5 charts. ▪ Users on a Mac OS X must use the Shift key when resizing section and field lookup dialogs. (Tri-82179) 	Google Chrome	<ul style="list-style-type: none"> ▪ The following builder tools are not supported: Classifications, Lists, Data Modeler, Form Builder, Association Manager, Workflow Builder, Portal
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Google Chrome	<ul style="list-style-type: none"> ▪ The following builder tools are not supported: Classifications, Lists, Data Modeler, Form Builder, Association Manager, Workflow Builder, Portal 						

Area of Impact	Description
	<p>Builder, Navigation Builder, State Family Manager, Scorecard Manager, License Manager, Security Manager, Data Integrator, Object Migration, Currency Conversions, Label Manager, and Style Manager.</p> <ul style="list-style-type: none"> ▪ Excel sections are not supported. ▪ Java applets are not supported for Chrome on Mac OS X. ▪ There is limited support for HTML5 charts. ▪ For BIRT printing to PDF, use the Chrome PDF viewer instead of the Adobe pdf plugin. For more information, use your browser to search for <i>How To Enable the Built-in PDF Viewer in Google Chrome</i>. (Tri-67281) ▪ If your locator field drop-downs and navigation menu drop-downs are hidden behind applets like stacking, availability, and Gantt sections, minimize the applet section and reopen it when you need it again. (Tri-66901, Tri-71492)
Internet Explorer	<ul style="list-style-type: none"> ▪ Microsoft Internet Explorer (IE) 8 includes a "Preserve Favorites website data" option. This property is selected (on) by default in IE 8. This property retains temporary Internet files from sites that are in your Favorites even if you have set the flag to delete all temporary files. Clear this property. If left on and a user's IBM TRIRIGA server is in their Favorites, the cache is not cleared, which can cause js, jsp, and style sheet issues after an upgrade. If you want to clear your cache, uncheck the "Preserve Favorites website data" option. ▪ Due to a known limitation in IE 10, the background color on fields may show when the record is printed from the print preview page. (Tri-75848) ▪ In IE 10, Classifications, Lists, Data Modeler, Form Builder, Association Manager, Workflow Builder, Portal Builder, Navigation Builder, State Family Manager, Scorecard Manager, License Manager, Security Manager, Data Integrator, Object Migration, Currency Conversions, Label Manager, and Style Manager are not supported. ▪ In IE 10, Excel sections are not supported. ▪ Query sections do not display correctly if the

Area of Impact	Description
	<p>browser zoom is set to a custom value that is less than 100%. The default browser zoom is 100%. (Tri-33883)</p> <ul style="list-style-type: none"> ▪ Some builder tools do not load or work correctly if the browser zoom is set to a custom value that is less than 100%. The default browser zoom is 100%. (Tri-28866) ▪ When a user exports a PDF file from a graphics section, IE may display a security message in the browser window. To prevent this security message from displaying, add the IBM TRIRIGA application URL to IE's Internet Security list of Trusted Sites zone. In the Security Settings for Trusted Sites Zone, set the Download permission to not display the warning message. (Tri-31024) ▪ When a user running IE 8 with "Smart Screen Filters" turned ON tries to load more than 1000 records on a page, IE 8 verifies the response it is getting back and crashes, since the response is too large. To avoid this circumstance, turn off the "Smart Screen Filters". For more information refer to http://www.microsoft.com/security/filters/smartscreen.aspx (Tri-27698) ▪ Your browser must not use a compatibility view. To confirm that your browser is not in a compatibility view, press the F12 key, click the Browser Mode tab, and then select the setting for your browser.
Mozilla Firefox	<ul style="list-style-type: none"> ▪ The following builder tools are not supported: Classifications, Lists, Data Modeler, Form Builder, Association Manager, Workflow Builder, Portal Builder, Navigation Builder, State Family Manager, Scorecard Manager, License Manager, Security Manager, Data Integrator, Object Migration, Currency Conversions, Label Manager, and Style Manager. ▪ Excel sections are not supported. ▪ Fixed column queries do not remain fixed due to a Firefox limitation. ▪ Opening a new record in the popup view opens the new window behind the window that originated it. This is a known issue with Firefox / Adobe Flash. Disabling the plug-in fixes the issue. You can find more information in the following article: http://support.mozilla.org/en-

Area of Impact	Description
	<p>US/questions/938033 (Tri-78853)</p> <ul style="list-style-type: none"> <li>▪ There is limited support for HTML5 charts. <li>▪ Firefox may not close all windows automatically when signing out of a single sign-on session. (Tri-84899)
Duplicate Portal Sections	<p>IBM TRIRIGA Application Platform 3.x does not allow duplicate portal section names. The upgrade process from IBM TRIRIGA Application Platform versions prior to 3.0 updates the first portal section found and logs information about subsequent portal sections with the same name in the <code>portalupgrade.log</code> located in the install root.</p>
Duplicate Portals	<p>IBM TRIRIGA Application Platform 3.x does not allow duplicate portal names. The upgrade process from IBM TRIRIGA Application Platform versions prior to 3.0 renames any portal with a duplicate name by attaching a sequence number to the end of the duplicated name. For example, the second portal named "Employee Portal" becomes "Employee Portal1" and the third becomes "Employee Portal2".</p>
Graphics	<ul style="list-style-type: none"> <li>▪ Exporting very large graphics could require configuring your web server with a larger maximum post size. (Tri-28770) <li>▪ Exporting from a graphics section does not work properly on WebSphere with SSL. By default, WebSphere adds additional caching headers to responses that already contain cache control, which causes issues in IE when trying to stream application data like PDF files back to the client. This can be disabled via a custom property for your application server in the WebSphere Integrated Solutions Console. Note that this change merely prevents WebSphere from automatically adding headers; you are then left with the cache control headers that IBM TRIRIGA intends to be there. Please reference the following guide: http://publib.boulder.ibm.com/infocenter/wasinfo/v6r1/index.jsp?topic=%2Fcom.ibm.websphere.express.doc%2Finfo%2Fexp%2Fae%2Frun_chain_httpcustom.html <p>Following the steps in that guide, add a custom property named <code>CookiesConfigureNoCache</code> with a value of <code>False</code> to your secure HTTP transport channels.</p> <p>Once completed, restart the server, and the Export works properly. (Tri-34664)</p>
Installation	<p>Choose the same application server type as the installation you are upgrading from when you perform an upgrade installation. (Tri-89356)</p>
Microsoft Excel	<p>The Office Web Components (OWC) library that IBM TRIRIGA uses for Excel sections is not available in a clean install of Office 2007 or Office 2010. For information about downloading the OWC library and installing it as a separate component, search for <i>office web components roadmap</i> on the Microsoft website http://blogs.office.com. You do not need to download and install the OWC library if you upgrade Office 2000 or Office 2003 to Office</p>

Area of Impact	Description
	2007 or Office 2010, because the OWC library is available.
Microsoft SQL Server	<ul style="list-style-type: none"> ▪ For a Microsoft SQL Server (MSSQL) database, running the Multi-Byte Character Support (MBCS) conversion process during upgrade to 3.3 can take several hours. The duration depends on many factors, such as hardware, database size, and disk speed. (Tri-32051) ▪ If the upgrade of an MSSQL database with MBCS enabled fails and you see in the <code>ant.log</code> that there were invalid views during the NVarchar Conversion process, use the following recovery steps: <ol style="list-style-type: none"> 1. Review the <code>ant.log</code> to identify the invalid views. 2. Run the upgrade with MBCS Support turned off. 3. Log into IBM TRIRIGA and republish the business objects identified in the <code>ant.log</code> as having invalid views. 4. Run upgrade with MBCS Support turned on. (Tri-32284) ▪ If you are upgrading an MSSQL database with MBCS enabled, prior to the upgrade to 3.3 you must (1) back up your database, and (2) republish the <code>triRealEstateContract</code> business object in the <code>triContract</code> module (10.x, 9.x). This is to avoid a possible MSSQL error on the backing table of that business object during the upgrade. The error that might occur if the business object is not republished is as follows: "Cannot create a row of size xxxx which is greater than the allowable maximum row size of 8060". If this error occurs, the table is not configured correctly for MBCS. In this case, restore the database and contact the IBM TRIRIGA team at IBM Software Support for additional instructions. (Tri-31926) ▪ If you have custom tables in the IBM TRIRIGA table space and you are upgrading to MBCS on Microsoft SQL Server, these tables may not convert correctly depending on the table definition (for example, if <code>IDENTITY_INSERT</code> is set). These tables need to be either deleted or converted manually prior to running the 3.3 MBCS upgrade. <p>To convert these tables manually, alter all <code>varchar</code> fields to be <code>nvarchar</code> and alter their collation to the collation used during the conversion during install. For example, for field <code>xxx</code> in table <code>yyy</code> when your desired collation is <code>Japanese_CS_AS</code> and the <code>SIZE</code> of the <code>varchar</code> field is 100, the script is as follows: <code>alter table yyy alter column xxx nvarchar(100) collate Japanese_CS_AS</code> (Tri-32702)</p> ▪ Microsoft SQL Server has a row size limit of 8060 bytes. On MSS2005 and MSS2008, there is an overflow mechanism that transparently enables a row to logically exceed 8060 bytes while physically overflowing some of the extra data into a separate part of the database. More information about the 8060 byte limit can be found at the following link: http://msdn2.microsoft.com/en-us/library/ms186981.aspx.
Navigation	Pressing a key or key chord and the Access Key character navigates the user

Area of Impact	Description
	<p>directly to the tab or triggers the action defined in the Form Builder. Different browsers use different keys or key chords, as follows:</p> <ul style="list-style-type: none"> ▪ For Microsoft Internet Explorer -> Alt+AccessKey+Enter ▪ For Mozilla Firefox -> Alt+Shift+AccessKey ▪ For Google Chrome -> Alt+AccessKey ▪ For Apple Safari -> Alt+Control+AccessKey (Tri-71056)
Object Migration	<ul style="list-style-type: none"> ▪ Some object types in object migration packages from a pre-3.0 environment do not import into a 3.x environment. The object types that do not import into 3.x are as follows: managers; pre-3.0 portals; pre-3.0 scorecards; and shortcut list, quick add list, query list, and action items query portal sections. ▪ When an object migration package created before IBM TRIRIGA Application Platform 3.3 is imported into an environment that has been upgraded to IBM TRIRIGA Application Platform 3.3 and IBM TRIRIGA 10.3, the language table is deleted. This is because the localizable property does not exist in an object migration package created prior to IBM TRIRIGA Application Platform 3.3. As a result the localizable property value that is already in the target system is reset. By design, the business object publish deletes the column for a field that is no longer marked as localizable. Since an old object migration package does not have this property, all the columns are dropped, which eventually drops the entire language table.
Oracle	<ul style="list-style-type: none"> ▪ If you are installing a new Oracle database and wish to support multi-byte characters, make sure your instance character set is UTF-8 or UTF-16 and your NLS_LENGTH_SEMANTICS is set to CHAR, not BYTE. Follow the instructions in the IBM TRIRIGA Application Platform 3 Information Center under <i>Installing IBM TRIRIGA Application Platform</i> to ensure your platform supports multi-byte characters properly. (Tri-32998) ▪ If you are upgrading an Oracle database and are considering changing the instance character set to UTF-8 or UTF-16 to support multi-byte characters, it is imperative that you carefully follow the instructions in the IBM TRIRIGA Application Platform 3 Information Center under <i>Installing IBM TRIRIGA Application Platform</i>. Failure to do so could compromise your data.
Report Manager	<p>Reports with blank titles show up first in the list if the database is Microsoft SQL Server and show up last in the list if the database is Oracle.</p>
Security	<ul style="list-style-type: none"> ▪ You can find instructions for managing issues with applets such as Gantt where the applet console reports a security exception under CVE-2010-3560 at http://www.oracle.com/technetwork/java/javase/6u22releasenotes-176121.html. ▪ Security is not applied when a PDF generated from an external report type (BIRT and Crystal) is emailed. (Tri-88536)

Area of Impact	Description
Software Licenses	<p>Starting with IBM TRIRIGA Application Platform 3.2, IBM TRIRIGA distributes software licenses in a separate license file for each product. The license file names are in the format <code>LICENSE_IBM_TRIRIGA_{productname}.properties</code> (for example, <code>LICENSE_IBM_TRIRIGA_Application_Platform.properties</code>).</p> <p>You may continue to use your existing <code>TRIRIGALICENSE.properties</code> file if you have one. You do not need to replace your <code>TRIRIGALICENSE.properties</code> file until it expires or your software requirements change.</p> <p>At the end of an install, your <code>config\licenses</code> directory should contain either your <code>LICENSE_IBM_TRIRIGA_{productname}.properties</code> files or your <code>TRIRIGALICENSE.properties</code> file, but not both.</p> <p>After you start using the <code>LICENSE_IBM_TRIRIGA_{productname}.properties</code> files, do not revert to the <code>TRIRIGALICENSE.properties</code> file. (Tri-33449)</p> <div style="background-color: #ffe6e6; padding: 10px; border: 1px solid #ccc;">  <p>Attention - All application servers accessing a database must have the same license set. The only exception is the license for IBM TRIRIGA Connector for Business Applications since it may be licensed only on a limited number of servers and should only be placed on that number of servers to stay in compliance.</p> </div>
Syclo	<p>Syclo has been removed from the <i>IBM TRIRIGA Application Platform 3.3.1 Compatibility Matrix</i>. Customers should contact the vendor with any issues or concerns regarding Syclo and version 3.3.1.</p>
System Configuration	<p>IBM TRIRIGA Application Platform 3.2 can consume more resources than previous releases. Monitor database connections and memory consumption, increasing values if needed.</p>
WebSphere	<ul style="list-style-type: none"> ▪ The automated installation of TRIRIGA with WebSphere may fail if the <code>com.ibm.SOAP.requestTimeout</code> parameter value is not increased. The parameter can be found in the <code>soap.client.props</code> file within the Application Server properties directory of WebSphere. Setting this value to 0 makes it unlimited. ▪ When using WebSphere, an additional MIME Type is required for certain pages in the application to display properly. You must add a new extension, <code>phtml</code>, as <code>text/html</code>. For more information, go to the IBM TRIRIGA Application Platform 3 Information Center and select <i>Installing IBM TRIRIGA Application Platform</i>. (Tri-29060) ▪ Use the correct JDK for your WebSphere installation. If you have two WebSphere installations, one at <code>/[pathToWebSphere]/IBM/WebSphere/AppServer</code> for WebSphere 8.0 and one at

Area of Impact	Description
	<pre>/[pathToWebsphere]/IBM/WebSphere/AppServer85 for WebSphere 8.5</pre> using java in the 8.0 installation causes the installation to fail. (Tri-89328)

Known Limitations

Known limitations concerning the IBM TRIRIGA Application Platform for this release include the following:

Area of Impact	Description
Document Management	Double-byte characters do not display when you preview Unicode or UTF-8 txt files. You must download the file to see the content. (Tri-36352)
Extract, Transform, and Load (ETL)	<ul style="list-style-type: none"> The as-shipped ETL scripts are written against the standard IBM TRIRIGA database and its database columns, but after an upgrade, a small number of your implementation's database column names that were auto-generated during the upgrade may be slightly different and not match the names in the released ETL scripts. Review your ETL scripts and change them as needed to ensure the column names match the generated column names in your database. (Tri-27625, Tri-27705) If you use any of the IBM TRIRIGA Workplace Performance Management products, any of the IBM TRIRIGA Real Estate Environmental Sustainability products, the OSCRE features, or ETL Job Items, the name of your IBM TRIRIGA installation directory and the location of the application server cannot contain spaces. These applications use Pentaho to run ETLs. Pentaho is a third-party application that has a startup issue when the name of the directory where the application resides has a space in it. For more information, see the Pentaho issue database for PDI 2689 at http://jira.pentaho.com/browse/PDI-2689.
Gantt	In SSO environments, the Gantt section applet only supports Basic Authentication. (Tri-84737)
GIS Maps	The as-delivered sample editor widget and overview widget sometimes do not display when the user clears the browser cache and opens the map. Refresh the map and the widgets show properly. (Tri-81522)
Globalization	Formulas involving a localized field may only calculate the language values (L_ table) of the current user in session. For example, a localized text field is used in a formula to concatenate with another field value. The calculation of the language value of the localized text field is based on the language of the current user in session. The other language values available of the localized text field, if any, are not included in the calculation of the formula. For example, an Italian user triggers a calculation of this concatenation formula. The Italian language value is concatenated and the Italian user can see that the calculated value has the concatenated Italian language value. However, other users only see the default internal values (T_ table) calculated in the formula even if there are, for instance, German

Area of Impact	Description
	<p>or Chinese language values available for the localized text field.</p> <p>Similarly, formulas that are processed by the extended formula queue do not use the language values in the calculation. The extended formula process only uses the internal values of the localized field in the calculation.</p>
Globalization	<p>The following areas are not fully globalized and translated:</p> <ul style="list-style-type: none"> ▪ Application builder pages are only available in US English, including Form Builder, Data Modeler, and Workflow Builder. ▪ The installer is only available in US English. Installing to a path under <code>Program Files</code> may not work on a non-English version of Windows. ▪ Some pages to which only an administrative user has access are only available in US English. This includes Application Setup pages, the Administrator Console, and data utilities. ▪ Brava! Viewer labels are available in US English only. ▪ Document paths in BIRT reports are available in US English only.
IBM TRIRIGA Connector for Offline Forms	<p>Microsoft Exchange converts a sent Microsoft Outlook message (.msg file) and any attached messages (.msg files) into Multipurpose Internet Mail Extensions (MIME) format. However, the IBM TRIRIGA Incoming Mail Agent is not designed to recognize attachments in MIME format. Instead of attaching Microsoft Outlook .msg messages to another .msg message, you have two options. To attach the file, either (1) From Microsoft Outlook, save the .msg attachment as a Microsoft Outlook file template (.oft file). Then, attach the .oft file to the main .msg message that you are delivering in Microsoft Outlook, or (2) From Microsoft Outlook Web App (OWA), attach the .msg file to the main email that you are delivering, in the OWA. After attaching the file, send the message or email. (Tri-67117)</p>
IBM TRIRIGA SVG Viewer	<p>The IBM TRIRIGA SVG Viewer is not well suited for design-time work and not supported for working on very large workflows. Use the Adobe SVG Viewer Plug-In for design-time work. (Tri-20731)</p>
Language Packs	<ul style="list-style-type: none"> ▪ When you import a language pack for the first time, you may see exception messages in the <code>LabelManager.log</code> file. To eliminate the exception messages, repeat the import of the language pack. ▪ You may see persistence errors in the <code>Translation.log</code> file when a language pack is imported into a 3.2 to 3.3 upgrade file with the object migration package applied. These errors are displayed because the field that is referenced has been removed from the application. You do not need to repeat the import of the language pack to fix this issue.
Metric Query	<p>Only the US Dollar symbol is displayed for currency data, regardless of the user's UOM preference or of the currency UOM set for a project. (Tri-38270)</p>
Microsoft Exchange	<p>Microsoft Exchange (SMTP) does not support Yearly recurrences when day, weekday, and weekend day are specified for the weekly option. (Tri-39663)</p>
Single Sign-On	<p>IBM TRIRIGA CAD Integrator/Publisher and Gantt require basic authentication to be enabled.</p>

Area of Impact	Description
Style Manager	When upgrading to a 3.x platform from 2.7 or earlier, some font styles remain the same while the background changes color, or vice versa. This can lead to a situation where the background and font color are the same, for example, white text on a white background on the actions in security groups. To resolve this issue, apply, or re-apply, the <code>stylesheet.xml</code> supplied with the new platform install. The style sheet can be found in the <code>userfiles/skin</code> directory on your IBM TRIRIGA application or process server. Copy the file to your local workstation, login to IBM TRIRIGA as a user that has admin access, navigate to the Style Manager in the Builder Tools or Administration menu, and import <code>stylesheet.xml</code> . NOTE: This process resets all colors on your system. Use the Style Manager to reset the main colors for your installation. Reapplying the default style sheet eliminates any strange color combinations in the updated architecture and provides a basis to start anew with themeing your system. (Tri-39080)

IBM TRIRIGA Application Platform 3.3.1 Changes

Area of Change	Description
Accessibility	As-delivered portal images now include an alt attribute to conform to the Deque screen reader standard. (Tri-71578, Tri-71584)
Administrator Console	A history of the patches applied to your system can be viewed in the Build Number page of the Administrator Console. (Tri-70308)
Application Security	Users who do not have access to a portal page now see a no access message. (Tri-83714)
Application Server	<p>The automated WebSphere install now includes the following Java option to support environments where BIRT reporting is on a separate server:</p> <pre>-Xjit:exclude={org/mozilla/javascript/UintMap.rehashTable*}</pre> <p>To add this Java option manually:</p> <ol style="list-style-type: none"> 1. Open the WebSphere Console on the server. 2. Navigate to Servers > Server Types > WebSphere Application servers > serverX > Java and Process Management > Process definition > Java Virtual Machine 3. In the Generic JVM arguments section, add - <code>Xjit:exclude={org/mozilla/javascript/UintMap.rehashTable*}</code> 4. Bounce the application server. (Tri-70391)
Cleanup Agent	The Cleanup Agent no longer puts messages in the server log when Crystal is not installed. (Tri-77293-IV37383)
Currency Conversion	Currency conversion pages now show the value of the currency conversion rate field in standard decimal format instead of in exponential number format. (Tri-66913)

Area of Change	Description
Data Integrator	A user that is not a member of the Admin Group no longer receives a security error message after uploading a file to Data Integrator. (Tri-66639-IV31704)
Data Modeler	A state transition action now honors the value of the Audit Actions property of a business object. For a state action to be audited, the Audit Actions flag must be selected. (Tri-67115-IV29894)
Data Modeler	Changed the Sub Action property label from "Log" to "Audit Action". (Tri-66914)
Data Modeler	If the business object is in a published state, you can now highlight the field name of a field label in the business object field list. (Tri-76826)
Data Modeler	Resolved an issue where searching for a field with an invalid character in the label (as specified in <code>TRIRIGAWEB.properties</code>) in the Data Modeler caused a system error. (Tri-81064)
Data Modeler	Text fields now support a field size of up to 1000 in Microsoft SQL Server implementations. (Tri-81012)
Data Modeler	The default layout is now business object/field properties first, field list second, and associations third. All are full height by default. (Tri-66640)
Data Modeler	Where Used for fields now includes when the field is used in a workflow variable from an expression. (Tri-70305)
DataConnect	A DataConnect upsert on a business object that has no DataConnect keys defined now performs an insert of the data in the staging table record. (Tri-87523)
Document Manager	The referenced files of a document in publication are also published when the "Include Referenced Documents" option of the publication is checked. (Tri-67065)
Documentation	The <i>IBM TRIRIGA 10 Document Management User Guide</i> now correctly reflects the actions available after selecting the Publish action. (Tri-68789-IV34260)
Esri GIS	It is only necessary for a user to add either the city and state or the zip code in the address section of a building record for the geocode address to find the building. (Tri-66462)
Esri GIS	Removed the Move Location feature. (Tri-79574-IV37847)
Formula Engine	A server no longer fails on startup if an extended formula has a bad UOM_TYPE on one of its fields. (Tri-66659)
Gantt	Gantt form sections can now be set to read only from a Modify Metadata workflow task. (Tri-88361-IV40957)
General	Resolved an issue where moving elements in AutoCAD was causing AutoCAD to crash. (Tri-80872)

Area of Change	Description
GIS	If you load a GIS tab or portal section and see the following phrase: "No EsriJS_arcgis.js file found.", it means that you need to go to esri.com and retrieve the http://serverapi.arcgisonline.com/jsapi/arcgis/3.3/ file, name it "EsriJS_arcgis.js" and upload it to the EsriJS Classloader object under System > ClassLoader > EsriJS > Resource File. (Tri-89664)
Globalization	A note has been added for IBM translators when a particular label should be partially (or not completely) translated. (Tri-88152-IV40891)
Globalization	Changed the sequence of the words in the tooltip for Portfolio > Key Rings > Inline View > Add so that it can be translated into German and Korean. (Tri-78492)
Globalization	Label Manager now supports import and export in US English. (Tri-83917)
Globalization	Offline content labels with line breaks are now translated. (Tri-66902)
Globalization	Opening a record when there is no UOM for a particular language no longer causes an error for a non-US English-language user. (Tri-78496)
Globalization	Resolved an issue that caused an error when a non-US English-language user viewed the Reports tab in a record. (Tri-87881, Tri-87939-IV40668)
Globalization	Resolved an issue that prevented the XLIFF export format from retaining existing translations when a language is selected. (Tri-71052)
Globalization	The welcome string is now exported as "Welcome, {0}" so that the welcome string can be set with the user's name before or after the welcome. (Tri-80876)
Installer	JBoss EAP 5.1.0 is now supported in the installer. For more information, go to the IBM TRIRIGA Application Platform 3 Information Center and select <i>Installing IBM TRIRIGA Application Platform</i> . (Tri-66488)
Installer	WebLogic 11 Rel 1 (Version 10.3.6) is now supported. (Tri-86782)
Instance Data Globalization	Classification query now filters data correctly when a non-US English value is entered as the filter value. (Tri-88257-IV40876)
Instance Data Globalization	The instance data language pack can be imported successfully when the host name or IP of the application server is listed in the trusted websites of the IE browser. (Tri-79570-IV38476)
Instance Data Globalization	When there are no fields with the localizable flag set in all of the business objects in a module, now the localized views (ML_ and VL_ view) are dropped along with the language table. (Tri-69712)
Instance Data Translations	Setting a value to a locator field from an editable query is now properly setting the translated values. (Tri-87878-IV40666)

Area of Change	Description
Integration Object	When you import instance records for the TRIRIGA Integration Object, run the patch helper named <code>IntegrationObject_DataMaps</code> . This patch helper triggers a utility that scans the current data maps and correctly reassigns the object IDs that are needed to save records. (Tri-74041)
Label Manager	An entry is made to the <code>environment_properties</code> table when a language pack is imported using the Label Manager. (Tri-66694)
Label Manager	Custom tooltips configured in the Label Manager now display the appropriate custom values when viewed in records. (Tri-66393)
Label Manager	Double byte characters now display correctly in label tooltips. (Tri-84117)
Label Tooltips	The correct tooltip translation is now provided on a form with fields with the same name but that are from different business objects. (Tri-84735)
Label Translations	"Processing Excel Sections." is now translated when a user clicks the Calculate Data action on an Excel section. (Tri-67121)
Label Translations	When a form is copied, the existing translations are also copied to the new form. (Tri-80443)
License and Security	Security groups and licenses are now checked on scorecard queries and sub-queries. The query is not shown on the scorecard if the user does not have access to the module and business object of the query. (Tri-66696)
License and Security	When a system includes a license for IBM TRIRIGA Workplace Reservation Manager, a user that does not have any assigned licenses can access notifications and action items. (Tri-76307)
Metric Reports	Metric query tabular reports no longer fail when the user clicks to see the next set of results at runtime when no order column and related reports are specified in the report design. (Tri-76800)
Metric Reports	Metric reports now show the date in the hover over instead of milliseconds or spec id. (Tri-66907)
Metric Reports	Metric reports shown by Calendar Week now display data for all weeks within the given scope. (Tri-66908)
My Reports	When viewing the tabular information backing a chart, if an Associated Field is selected on the tabular report, the headers of the columns now align properly. (Tri-72945)
Object Migration	Object migration validation warnings for form data fields that are Organization, Location, or Geography are no longer shown. These warnings were invalid as these fields are known to the system. (Tri-75211)
Object Migration	Resolved an issue for business object prefix and suffix mapping with constants so they import correctly using object migration. (Tri-74668-IV36650)

Area of Change	Description
Object Migration	Resolved an issue where dependent list values were not being imported in object migration when they had the same child values but different parent values. (Tri-90360)
Object Migration	Starts With query filters are no longer changed to Contains query filters in an object migration import. (Tri-66705-IV31575)
Object Migration	The form property flag "Allow bookmark to specific record" is now migrated correctly. (Tri-80210)
Portal	All portal sections that display buttons are now 508 compliant, for example, collapse/expand, maximize/resize, drop downs, and more. (Tri-71591)
Portal Builder	When selected, the new Auto Resize property in a portal section of type External adjusts the height of the portal section to match the height of its contents. (Tri-67105)
Portal Sections	Resolved the issue causing the date shown in the Notifications portal section to not match the date in the Notification record and other places in the application. (Tri-83548-IV39025)
Portal Sections	The Actions Items dialog from the portal now matches the hours in the Actions Items dialog. (Tri-67142)
Portals	Items within Quick Links portal sections can now be opened in a new window by clicking the square blue icon next to the item name. (Tri-75639)
Project Security	To resolve an issue that allowed a user with read-only project security to update a form, added logic to project security to validate the user's project level access before rendering a form. Both of the following properties in <code>TRIRIGAWEB.properties</code> must be set to Y for project security: <code>USE_PROJECT_SECURITY</code> and <code>RECORD_PROJECT_CONTAINMENT</code> . (Tri-76952-IV37811)
Project Security	When a project's security is modified, all application server security caches in a multi-application server environment are cleared. (Tri-82240)
Query and Reporting	Filters on fields of type Date and Time now filter correctly when the user inputs a date. (Tri-66918-IV33185)
Query and Reporting	Now there are date filters for the Created DateTime system read-only field query filters. (Tri-85977)
Query and Reporting	PDFs are now created for Form reports attached to a notification email. (Tri-66917-IV33312)
Query and Reporting	Resolved a metric query tabular report issue where clicking Next to see the next set of results caused an error when the primary grouping field was a locator. (Tri-66904)
Query and Reporting	Resolved an issue where sum columns in a query of type Hierarchy were not

Area of Change	Description
	lined up correctly when a group by was set. (Tri-70693-IV36327)
Query and Reporting	Resolved an issue with exporting a report to Excel where the data in the Excel columns was not lining up correctly with the Excel headers. (Tri-90285-IV42716)
Query and Reporting	Rounded number values now display the same at record runtime and query runtime. (Tri-74988)
Record Runtime	Modify Metadata now updates the Read Only property for a Form Action properly. (Tri-87999-IV40877)
Record Runtime	Number fields with a percent sign in the display mask now accept numbers and persist values. (Tri-70966)
Record Runtime	Resolved an issue caused when the time zone on the user's computer was earlier than the time zone on the server; for example, when the user was in GMT -8 and the server was in GMT -3. (Tri-84640)
Record Runtime	Resolved an issue for validating number fields that contain letters followed by numbers. (Tri-84729)
Record Runtime	Resolved an issue where hierarchical records opened in a new window would not close when Save and Close was clicked when the main TRIRIGA window was changed. (Tri-71639-IV36324)
Record Runtime	Section or record read-only property now updates the Read Only property for a form action. (Tri-88531)
Record Runtime	The border color and width properties of a section are now properly rendered in the form. (Tri-72864)
Record Runtime	There were changes to the styling to make the look and feel consistent among the supported browsers. If you want to make the label text font look like the way it was in prior releases, you need to increase the labelStyleClass1 font size from 10 to 12. (Tri-76300)
Record Runtime	When a user clicks Help and a help message does not exist for the record, the user now sees the default help message instead of a warning message. (Tri-75323)
Reporting	Resolved an issue in which a non-US English-language user was not able to export a query result. (Tri-67104-IV32866)
Reporting	Resolved an issue that caused tabular metric reports used for drill through to show data and records for all forms in the selected business object even though a filter in the record form field filtered out some forms. (Tri-67299)
Reporting	Tabular metric reports used for drill through and metric reports now only return data and records for the forms in the selected business object in the report. (Tri-67205)

Area of Change	Description
Security	A user belonging to security group that is a copy of another security group now has access to appropriate forms when creating a report in My Reports. (Tri-76251-IV37073)
Security	The system non-reversible encryption type is now configurable. It can be set in the IBM TRIRIGA Administrator Console, under System Manager in the System Encryption type field. If you wish to update to SHA-2 for your non-reversible password fields, set the value to a valid SHA-2 type such as SHA-256 or SHA-512. (Tri-75849)
Style Manager	Padding-Left property can now be set in the Style Sheet Editor. (Tri-76692)
Style Manager	SectionStyle should only be used to style section elements such as background color, border color, and width. Labels contained inside the section should be styled using a dedicated style class named 'labelStyle', where attributes related to fonts, such as font weight, size, and style, can be specified. (Tri-67199-IV33785)
Style Manager	The border color of a manager can be changed with the Master Detail Frame Border Color property of the Style Manager. (Tri-66897-IV30720)
Style Manager	The Style Manager now displays RGB hex values for portal and other components. (Tri-66683)
Style Manager	There were two sets of data and label styles in the system, in the Style Sheet Editor and in the Style Manager. The Style Sheet Editor used the same field styles as the Form Builder. The Style Manager now also uses these field styles. (Tri-66643)
TRIRIGA Integration Object	You can now export more than 1000 records. (Tri-81320)
Web Graphics	Lines are now scaled properly in CAD drawings in meters in TRIRIGA web graphics. (Tri-83546-IV39495)
Web Graphics	The Layer column of the Layer manager on the Web Graphics section can now be expanded to show the full layer name. (Tri-66178-IV33536)
Web Graphics	The leading zeros in text field values are no longer truncated when displayed in a graphic report legend. (Tri-75844-IV36881)
Workflow	Resolved an issue with Date fields with decimal values in a Microsoft SQL Server environment. (Tri-70302-IV36356)
Workflow Builder	Resolved an issue where the label of a task name can be highlighted when a workflow is in published state in workflow builder. (Tri-77001)
Workplace Reservation Manager	Resolved an issue that caused incorrect availability for a resource in the following circumstances: The resource had 24-hour availability and the event fell in a specific time range after the change to daylight saving time. (Tri-68259)

Area of Change	Description
Workplace Reservation Manager	The Options screen in the Outlook Add-In is now fully translated. (Tri-67124)
Workplace Reservation Manager	When a Reserve notification emails with an iCal attachment, the body of the iCal now contains the content of the body of the notification. (Tri-68962)

IBM TRIRIGA Application Platform 3.3.1 Properties Files

This section describes changes to the `TRIRIGAWEB.properties` file. For more information, go to the IBM TRIRIGA Application Platform 3 Information Center and select *Installing IBM TRIRIGA Application Platform > Configuring the platform > Properties files*.

Area of Change	Description
AUTO_PROJECT_ASSOCIATION_RESTRICTION	In a new installation, the default value of the <code>AUTO_PROJECT_ASSOCIATION_RESTRICTION</code> property is now Contains. (Tri-78601)
CHART_RENDERING_TYPE	Determines how charts are rendered in the web browser.
COMPANY_FILE_UPLOAD_EXCLUDE_EXTENSIONS	Restricts file uploads of image files according to their file extensions.
COMPANY_FILE_UPLOAD_INCLUDE_EXTENSIONS	Restricts file uploads of image files according to their file extensions.
IMPORT_CONTENT_EXCLUDE_EXTENSIONS	Restricts file uploads of binary files according to their file extensions
IMPORT_CONTENT_INCLUDE_EXTENSIONS	Restricts file uploads of binary files according to their file extensions
OOTB_G11N_EXPORT_APP_VERSION	Inserts a value or description of the IBM TRIRIGA application version in the file header of the instance data export. For example, 10.3.1.
SESSION_WARNING_ENABLED	Allows an alert message to be displayed to a user whose session is about to expire.
SESSION_WARNING_THRESHOLD	If the value of the <code>SESSION_WARNING_ENABLED</code> property is set to Y, then sets the number of minutes the alert message is displayed before the session is set to expire.
WS_RELIABLE_MESS	Enables (Y) or disables (N) the Web Services Reliable Messaging Protocol

Area of Change	Description
AGING	(http://schemas.xmlsoap.org/ws/2005/02/rm/).
WS_RM_ACKNOWLEDGMENT_INTERVAL	The number of milliseconds at which the Reliable Message destination sends asynchronous acknowledgements. This property applies only when the WS_RELIABLE_MESSAGING property is enabled.
WS_RM_BASE_RETRANSMISSION_INTERVAL	The number of milliseconds at which an acknowledgement is received by the Reliable Message source for a given message. This property applies only when the WS_RELIABLE_MESSAGING property is enabled.
WS_RM_DELIVERY_ASSURANCE_IN_ORDER	Enables (Y) or disables (N) the delivery assurance "in order" type of the Reliable Message. This "in order" assurance type can be combined with the delivery assurance type that is specified by the WS_RM_DELIVERY_ASSURANCE_TYPE property.
WS_RM_DELIVERY_ASSURANCE_TYPE	The delivery assurance type of the Reliable Message. This property applies only when the WS_RELIABLE_MESSAGING property is enabled.
WS_RM_INACTIVITY_TIMEOUT	The number of milliseconds that must pass without receiving a message for the Reliable Message sequence to be considered terminated due to inactivity. This property applies only when the WS_RELIABLE_MESSAGING property is enabled.

IBM TRIRIGA Application Platform 3.3.0.1 Changes

This release introduces a new way for you to upgrade your version of the IBM TRIRIGA Application Platform. The fix pack installer, which is also known as the patch installer, is now available for you to upgrade in-place.

With this release, the patch installer delivers the targeted fixes to update the IBM TRIRIGA Application Platform from version 3.3 to version 3.3.0.1. Do not use the 3.3.0.1 fix pack installer on versions of the IBM TRIRIGA Application Platform before version 3.3. To upgrade to IBM TRIRIGA Application Platform version 3.3, follow the instructions at the following link:

<http://www.ibm.com/support/docview.wss?uid=swg24033723>.

The version 3.3.0.1 fix pack installer patches the platform EAR (Enterprise ARchive) file and updates any database tables that are used by IBM TRIRIGA Application Platform and that require modification. If your application server is running JBoss or WebSphere, the EAR file is updated and redeployed. If your application server is running WebLogic, the EAR file is patched and a manual redeployment is required.

To download the 3.3.0.1 fix pack, go to Fix Central at the following link:

<http://www.ibm.com/support/fixcentral>. In the Find Product tab, type TRIRIGA 3.3.0.1. Download the `readme.txt` file and the patch installer appropriate for your operating system. Follow the directions in the `readme.txt` file.

The changes to the IBM TRIRIGA Application Platform for this release include the following:

Area of Change	Description
Application Server Setup	The TRIRIGA Integration Object no longer imports every time you start the application server against an Oracle database. (Tri-69516)
Custom Portals	Resolved an issue that caused parameters in a Custom Portal query string to become invalid due to the addition of extra parameters. (Tri-71733)
IBM TRIRIGA CAD Integrator/Publisher	Resolved an issue that caused a login to IBM TRIRIGA CAD Integrator/Publisher version 12.0 to fail after an upgrade to IBM TRIRIGA Application Platform version 3.3. (Tri-70140)
IBM TRIRIGA Workplace Reservation Manager	Resolved an issue that caused incorrect availability for a resource in the following circumstances: The resource had 24-hour availability and the event fell in a specific time range after the change to daylight saving time. (Tri-69525)
Query and Reporting	Resolved an issue in which fields of type Date and Time did not filter correctly at query run time if a time value was not included as part of the filter value. Now, if a user does not input a time value, a time value of 00:00:00 is used. (Tri-70130-IV33185)
Web Graphics	Running associative graphic reports with hatch patterns in Graphics sections or in IBM TRIRIGA CAD Integrator/Publisher now works properly when the data does not include associated records for some groups. (Tri-69997)

IBM TRIRIGA Application Platform 3.3.0.1 Properties Files

The properties files did not change with this release.

IBM TRIRIGA Application Platform 3.3 Enhancements

The enhancements to the IBM TRIRIGA Application Platform for this release include the following:

Area of Impact	Description
Platform-wide	<p>Major enhancements to the platform include the following.</p> <ul style="list-style-type: none"> ▪ Alternate form ▪ Alternate print form ▪ Availability widget ▪ Calendar server ▪ Calendar set builder ▪ Calendar widget ▪ iCal notifications ▪ In memory smart object ▪ In session option for Modify Metadata workflow task ▪ Integration Object ▪ Intelligent form action refresh

Area of Impact	Description
	<ul style="list-style-type: none"> ▪ Conditional pop-up form on form state transition ▪ Conditional query ▪ Contact role-based security ▪ Customizable pop-up form size ▪ Date/date time/duration widget enhancements ▪ ETL enhancement to support utilization calculations ▪ Future trigger action in workflow ▪ Graphics section hover over, lock theme, and new color to theme ▪ Graphics section links to Availability section ▪ Microsoft Exchange power shell script support to create Exchange resources ▪ Microsoft Exchange Web Service (EWS) workflows ▪ Microsoft Outlook add-in ▪ Relative date and time fields ▪ Reserve query ▪ SMTP agent ▪ Workflow formula functions ▪ Workflow variable assignment from expression
Globalization	Instance data can now be translated.
Administrator Console	The system status now loads asynchronously. You can click the OK or warning message to retest the status. (Tri-30859)
Currency	Enhanced the financial transaction posting process to use the most recent currency conversion rate if one does not exist for the posting date and time of the transaction. (Tri-37084)
Data Modeler	The base currency for a currency conversion can be set at run time to replace the value of the <code>BaseCurrency</code> property in the <code>TRIRIGAWEB.properties</code> file. If a Number field or a UOM field is defined as having a UOM of Currency, and the Default UOM is <code>SYSTEM_BASE</code> , when a user enters a value in that field, that value becomes the base currency for the TRIRIGA system. Additionally, when <code>SYSTEM_BASE</code> is specified as the UOM for a business object field, at run time, for that field, the current user's profile record is not used to initially default the UOM value. (Tri-37001)
Graphics	A graphics section now can be linked to an availability section in the same form. The graphic highlights all spaces that are available for reservation at a given time based on the backing query of the availability section. The spaces are highlighted in a different color than is used when a query section is linked to a graphics section; this color is identified in the Selectable field of the theme. A user can select the spaces either in the availability section or in the graphics section. This feature applies to the availability section but not to the availability legacy section. (Tri-36971)
Graphics	In a graphics section, the theme and its associated labels and report can be locked to a default specified in either the section properties in the Form Builder or in the theme list. When a user opens a form with the graphics section, the values of Theme, Labels, Report, and the label type cannot be changed. (Tri-36661)

Area of Impact	Description
Graphics	Now you can show additional information for spaces in a graphics section in a tooltip box while the user moves the mouse over the spaces. The content of the tooltip is dynamic and relative to the space being hovered. The appearance of the tooltip is based on a label style that is tied to a theme. Additionally, when the theme has a hover label style defined, a button on the graphics section allows the user to disable the tooltips. (Tri-36156)
License and Security	The IBM TRIRIGA Workplace Reservation Manager license now gives all users the access granted by the license. You can limit what a user can do with group security. (Tri-37064)
Metric Reports	Metric queries now use the database functionality for year and month for values for group by Calendar Period Year and Calendar Period Month instead of relying on the Calendar Period classifications. The display of year and month is based on the user's My Profile and is formatted as <i>YYYY</i> and <i>YYYY - MM - MYYYY</i> respectively. (Tri-37185)
Query and Reporting	Added support for <code>\$\$PARENT::[Section Name]\$\$</code> functionality in a query field filter. Prior to this release, <code>\$\$PARENT::[Section Name]\$\$</code> was only supported in an association filter. (Tri-37072)
Query and Reporting	<p>The new <code>\$\$PERSONID\$\$</code> query field filter resolves to the record ID of the <code>triPeople</code> record that is associated to the user that invoked the query. If the current user is not associated to a person, an error is displayed.</p> <p>Similar to <code>\$\$USERID\$\$</code>, it also supports section or field access. One example of valid notation to resolve the first name of the current person is: <code>\$\$PERSONID::Detail::triFirstNameTX\$\$</code>. (Tri-36949)</p>
Workflow Builder	The Variable Definition task and the Variable Assignment task now allow the variable value to be set from the result of an expression. The result of the expression returns record IDs. For example, this can be used to find a set of dates that match a recurrence pattern and that are within a date range. After the record IDs for the dates are returned, the workflow can iterate through them and perform other actions. (Tri-33133)

IBM TRIRIGA Application Platform 3.3 Changes

The changes to the IBM TRIRIGA Application Platform for this release include the following:

Area of Change	Description
Administrator Console	A double-click when starting or stopping an agent does not leave it in an invalid state. The second action is ignored. (Tri-37040)
Administrator Console	In the Workflow Events manager, the field label for Oldest WF Event in Queue has been changed from Event Type to User Account. (Tri-38292)

Area of Change	Description
Administrator Console	Resolved an issue that caused the Administrator Console to time out on WebSphere regardless of user activity. (Tri-40494)
Administrator Console	The Database Manager now shows the names of the objects and the types of objects invalid in an Oracle schema. (Tri-35438)
Administrator Console	The link to the WebLogic console from the Administrator Console now works properly when the installation has a context path. (Tri-39639)
Agents	If the time on a server in a database cluster is off by more than a few seconds, unpredictable results occur when operating the system. The IBM TRIRIGA Administrator Console attempts to determine if a server in the cluster is off by a few seconds. If so, the status message displays a warning that a server's time may be off. After the times on the database servers have been synchronized, you can select the status again to re-run the test. (Tri-35482)
Agents	Resolved a Cleanup Agent issue that caused record data cleanup to fail if a document parsing exception was encountered during the cleanup of images. (Tri-38032)
Agents	The Extended Formula agent now continues to process entries after encountering an entry with a <code>spec_id</code> less than 0 in the queue. (Tri-38513)
Applets	If applet-related properties in <code>TRIRIGAWEB.properties</code> are left blank, then the applet attempts to find the latest version of Java on your system and use that to run the applet. This affects applets related to Availability Legacy sections, SVG Viewer, Document Manager, object uploads, Workflow Builder (expression editor), and Stacking sections. (Tri-37219)
Application Server	The deployment into WebSphere has been automated in the installer. New and upgraded installations are now set up automatically. (Tri-30497)
Application Server	The user that installs TRIRIGA must have write or create access to the installation root directory. (Tri-37250)
Application Server	When a session expires, the user is now taken to the unauthorized page (<code>\$context_path\$/unauthorized.jsp</code>). That page includes the correct HTTP error code for 508 compliance, plain text telling the user that they are no longer authorized, and a link to the sign in page. (Tri-38425)
Calendar Tab	The weekly view is now shown in the format from the user's profile. (Tri-36838)
Charting	Resolved a charting issue that caused certain grouped by day metric query charts to show the same date multiple times along the date axis. (Tri-38481)
Charting	Resolved an issue involving charts in form sections where the title of a chart displayed even when the Show Query Header property was not checked. (Tri-37044)

Area of Change	Description
Crystal Reports	Resolved an issue where Crystal reports created with ADO XML Version 1 were not correctly rendering data in report columns for business object field names that contained spaces and were included in a smart section. (Tri-36200)
Currency	A user is warned if they enter a conversion rate that has more than six digits to the right of the decimal point. (Tri-39153)
Data Modeler	An empty module can now be deleted from the Data Modeler. (Tri-498)
Data Modeler	Improved the size of the Tools menu that a user sees after selecting a business object in the Object Browser. (Tri-31744)
Data Modeler	Resolved an issue that caused business object field where used to not display correct results for extended formula usage. (Tri-39449)
Data Modeler	Revising a business object enables the links on the State Transition tab. (Tri-4964)
Data Modeler	The Association List in the Data Modeler now is sorted in alphabetical order. (Tri-22035)
Data Modeler	The process of publishing business objects now creates indexes on certain sys columns used in queries. For the indexes to be created, you need to republish existing business objects. (Tri-35768)
Document Management	Document permissions can now be optionally controlled by a Custom task and workflow to apply permissions on a record by record basis. (Tri-39086)
Document Manager	Folder names are now sorted based on the user's locale. (Tri-40107)
Document Manager	Resolved an issue where not all files selected using the download icon were listed in the MultiFile Download Files tab. (Tri-37021)
Financial Tokens	At workflow runtime, a workflow field map no longer maps a value from the source record to the destination record when the target field has a formula defined in its Business Object Field definition. The target field value is now calculated and derived from its Data Modeler formula mapping. If a formula field is grayed out on the Object Mapping form, it means that the formula map defined in the Data Modeler is used as the source value for this field. Note that a total field that adds up a sum field in a smart section is also considered a formula field for the purposes of this behavior. To return to the prior functionality in which workflow mapping is executed instead of mapping defined in the Data Modeler, you must remove the formula mapping defined for this field from the Data Modeler; then workflow mapping is applied to the field. (Tri-36356, Tri-39564)
Form Builder	The default value for duration fields displays correctly when the user clicks the Source Details link. (Tri-6487)
Form Builder	Two new properties in the root of a form can be used to indicate the size of the form if it opens in a popup window. The properties are Popup Height and

Area of Change	Description
	Popup Width. These properties apply to forms that load from a query, the add action on a query, a custom action on a query section, the Add action on a query section, a chart, a portal section, an action on a portal section, section actions, and field actions. (Tri-37245)
Form Builder	When a user tries to create a new default form with the same name as an existing form, the Default Form check box is no longer selected and read only. (Tri-4819)
Form Builder	When the user deletes a style sheet in the Style Manager, the deleted properties no longer show in the properties panel. (Tri-21665)
Gantt	A form validation triggered when a user saved a record, when the form had a smart section with a name different from the data section name and had an unfilled required field, now finds the correct source record to validate. (Tri-39467)
Gantt	Gantt calculations now consider daylight saving status on the task's destination time zone. (Tri-37182)
Globalization	Resolved a metric query charting issue where Gauge chart types were not correctly formatting numbers for the user's locale. (Tri-39200)
Globalization	Resolved a metric query charting issue where Pie and Pyramid chart types were not correctly formatting numbers for the user's locale. (Tri-39799)
Globalization	The installer now creates a translations folder in the <code>userfiles</code> directory to contain imported label translation files. (Tri-38627)
Globalization	To display multi-byte characters with the Adobe SVG Viewer, a user must install the appropriate character-specific Adobe SVG viewer. (Tri-36402)
Globalization	Users now see a spinning wheel instead of "loading...". (Tri-36869)
Graphics	A Drawing Not Found error no longer occurs if a drawing that uses XRef drawings is being viewed in a graphics section and a drawing that uses one or more of the same XRef drawings is published. (Tri-37243)
IBM TRIRIGA Connector for Business Applications	Multiple users firing Query Continuation Token requests no longer cause <code>ConcurrentModificationExceptions</code> . (Tri-37081)
Installer	The installer now collects values for the <code>BRAVA_INTERNAL_DOWNLOAD_HOST</code> and <code>BRAVA_EXTERNAL_DOWNLOAD_HOST</code> properties in the <code>TRIRIGAWEB.properties</code> file during the install. You no longer need to manually edit the <code>TRIRIGAWEB.properties</code> file to set these values. (Tri-39158)
Label Manager	Resolved issues causing page messages, tab messages, and label tooltips to be deleted when a value was entered for US English. (Tri-36709)

Area of Change	Description
License and Security	An IBM TRIRIGA Capital Projects Manager license now includes <code>triProductsAndServices</code> . With this change, users with Capital Projects Manager licenses can create purchase orders containing products and services. (Tri-37038)
License and Security	<p>The IBM TRIRIGA Connector for ESRI Geographic Information System license has been incorporated into each of the following applications and is no longer available separately: IBM TRIRIGA Real Estate Manager, IBM TRIRIGA Capital Projects Manager, IBM TRIRIGA Facilities Manager, IBM TRIRIGA Workplace Operations Manager, IBM TRIRIGA Portfolio Data Manager, and IBM TRIRIGA Facility Assessment. Users must have one of these licenses for ESRI GIS to work as expected. The IBM TRIRIGA Connector for ESRI Geographic Information System requires a license for the IBM TRIRIGA Connector for Business Applications.</p> <p>The IBM TRIRIGA Connector for Energy Star Benchmarking license has been incorporated into the IBM TRIRIGA Real Estate Environmental Sustainability Manager license and is no longer available separately. The IBM TRIRIGA Connector for Energy Star Benchmarking requires a license for the IBM TRIRIGA Connector for Business Applications. (Tri-40397, Tri-40398)</p>
License and Security	User licenses and security settings are now checked before displaying subreports in a query. (Tri-35319)
Lists	Clicking the Cancel action in the Label List window now only prompts the user about losing unsaved changes if the user actually changed any of the list values. (Tri-21920)
Metric Reports	Resolved a charting issue causing years to be displayed as decimal values. (Tri-37916)
My Reports	Group By reports now show a Refresh icon for the user to refresh the query results. (Tri-34564)
Navigation Builder	Group Override flag now remains intact between edit sessions of a navigation collection. (Tri-37598)
Object Migration	Classifications with special characters can now be imported and exported through object migration. (Tri-36035)
Object Migration	One or more spaces at the end of a classification name no longer prevent successful object migration of the classification and its children. (Tri-36091)
Object Migration	Resolved an issue when importing or publishing with an object migration package that includes the <code>triDispositionMethod</code> or <code>triDispositionType</code> classifications. (Tri-34650)
Object Migration	Time field values on a record now import correctly into the target system. (Tri-36589)
Object Migration	When performing an object migration, Tag fields in queries now move over.

Area of Change	Description
	(Tri-38263)
Portal	The links for Help and for Support open a new window and do not reset the current portal. (Tri-37930)
Portal Builder	Added a new feature to report portal sections. Now if the value of Max Records Displayed is set to 100 or more, at runtime that report section renders a view that allows the user to do functions that could be done in a full report view such as filter and export. (Tri-36913)
Portals	Resolved an issue where links were disabled on summary reports in portal sections. (Tri-37075)
Projects	Project names now can contain special characters. Budget records in projects with names containing special characters post properly. (Tri-33788)
Query and Reporting	A value with an E surrounded by numbers, for example, 1E15, exports from a query into Excel in the correct format. (Tri-36330)
Query and Reporting	Cancel links no longer display on related reports within the portal. (Tri-36054)
Query and Reporting	Grouping of records remains intact after every 5000 records in a report exported to Excel. (Tri-36984)
Query and Reporting	If a business object is deleted from a module that has a query to find all business objects in that module, the query now runs correctly. (Tri-37890)
Query and Reporting	Improved logging to help users identify issues with a report or query that contains a problem with the metadata. The log entry contains the ReportId, ReportName, UserId, and Referrer URL. (Tri-28579)
Query and Reporting	Resolved a charting issue that caused broken lines and missing bars to sometimes occur after chart columns were sorted in alphabetical order. (Tri-37257)
Query and Reporting	Resolved a metric query chart issue where month names were not being translated to the language specified in the user's My Profile. (Tri-39310)
Query and Reporting	Resolved a Metric Query issue that caused Group By Date charts to not render if the user's Date or DateTime format began with a stand-alone date token. For example: d MMMM yyyy. (Tri-39073)
Query and Reporting	Resolved a query issue that caused more rows than expected to display when multiple Group By columns were used in a report that had Sum columns. (Tri-35619)
Query and Reporting	Resolved a query issue where system field filters that used the \$\$TODAY\$\$ special value caused corrupt SQL generation when used in conjunction with filter grouping parentheses. (Tri-37033)
Query and Reporting	When the user selects a new value for a parent list in an editable query, the

Area of Change	Description
	children values in the query are cleared. (Tri-32842)
Record Runtime	A record calendar now displays in the user's preferred format. (Tri-36797)
Record Runtime	Functionality has changed when updating a UOM field value using a workflow Modify Records task. Now the UOM value can be set using a name if that UOM exists under the field's default UOM type or under the current field value's UOM type. (Tri-37097)
Record Runtime	Multi-line text fields mapped into notifications no longer cause email clients to display the raw HTML in the email message. (Tri-36680)
Record Runtime	Resolved an issue where certain locator fields that did not have the Locate Using field name correctly set up on the business object were causing the blue processing spinner to spin endlessly after the user entered text and tabbed out of the field. (Tri-39491)
Record Runtime	White space is no longer added to new lines when saving records on multi-line text areas. (Tri-37011)
Scheduling Engine	Monthly scheduled events with no end dates and using the first, second, third, and fourth options no longer skip future months when regenerating new events. (Tri-37749)
Style Manager	The Style Manager now displays RGB hex values for portal and other components. (Tri-33132)
Style Manager	There were two sets of data and label styles in the system, in the Style Sheet Editor and in the Style Manager. The Style Sheet Editor used the same field styles as the Form Builder. The Style Manager now also uses these field styles. (Tri-28391)
System Reports	Additional error handling that detects and manages "no module with id 0 can be found" exceptions has been implemented for reports. (Tri-35414)
Tools > Administration	Users now can translate name salutations such as Mr. and Mrs. (Tri-36796)
WebSphere	<p>If using Java 1.7, set the following Java property on application server startup to ensure the proper sorting behavior:</p> <pre>-Djava.util.Arrays.useLegacyMergeSort=true</pre> <p>See http://www.oracle.com/technetwork/java/javase/compatibility-417013.html#source for more information. (Tri-40165)</p> <p>If using IBM Java 1.7, the release version needs to be 7.0.0 SR1 at a minimum. (Tri-39084)</p>
Workflow Builder	A record with multiple User/Approval tasks in separate workflows no longer auto-completes the second task. The system now waits for the user to perform the action. (Tri-36945)

Area of Change	Description
Workflow Builder	Adding a variable task and clicking the task to load its property no longer causes a JavaScript error. (Tri-37074)
Workflow Builder	In workflow builder mapping, removed the option to map values to a formula field. (Tri-37304)
Workflow Builder	Resolved an issue that prevented the Switch task from loading when a previous task had an '&' in the task label. (Tri-37629)
Workflow Builder	There is a new function available in workflow that gets the UOM type of a field, <code>getUomType(recordId, fieldName)</code> . The first parameter can use a system business object record ID field and the second parameter is a string value. (Tri-37267)
Workflow Builder	When a module or business object changes in a Variable Definition task, workflow parameters tied to that Variable Definition task are now updated with the new module or business object. (Tri-38354)

IBM TRIRIGA Application Platform 3.3 Properties Files

This section describes changes to the `TRIRIGAWEB.properties` file. For more information, go to the IBM TRIRIGA Application Platform 3 Information Center and select *Installing IBM TRIRIGA Application Platform > Configuring the platform > Properties files*.

Area of Change	Description
<code>ALLOW_ETL_DETERMINE_DB_CONNECTIONS</code>	Allows the Extract, Transform, and Load (ETL) processes to determine whether or not to use multiple database connections. If set to <code>Y</code> , then the value of Use Unique Connections on the ETL determines whether to use one connection (On) or multiple connections (Off). Setting Use Unique Connections to Off in the ETL can improve performance for long-running ETLs, but can cause the Application Server to run out of database connections for large ETLs with lots of steps accessing the database. In this case, it might be necessary to increase the Application Server maximum database connections. If set to <code>N</code> (legacy behavior), then the platform automatically sets Use Unique Connections to On when running the ETL. Therefore only one database connection is used by the ETL. The default value is <code>N</code> . (Tri-37042)
<code>ALLOWED_URL_FOR_REDIRECT</code>	The list of URLs or external sites to allow for redirect. The URLs are separated by spaces. IBM TRIRIGA blocks redirections to URLs that are not internal to IBM TRIRIGA. To allow a redirection to an external URL, enter that URL in the list. For example: <code>http://google.com</code> (Tri-36883, Tri-36884)
Applets	If applet-related properties in <code>TRIRIGAWEB.properties</code> are left blank, then the applet attempts to find the latest version of Java on your system and use that to run the applet. This affects applets related to Availability Legacy sections, SVG Viewer (Association tab works fine), Document Manager, object uploads, Workflow Builder (expression editor), and Stacking

Area of Change	Description
	sections. (Tri-37219)
AVAILABILITY_CACHE_LOAD_FACTOR	<p>The decimal value used by the availability section applet to determine how much data to cache. This value is multiplied by the visible time range unit and indicates how much time in the past and future is cached.</p> <p>For example, with a value of 1.5, if the visible time range is 1 week, then the applet loads one and a half weeks in the past and in the future, and caches the data.</p>
AVAILABILITY_CACHE_LOAD_THRESHOLD	<p>The decimal value used by the availability section applet to determine how much data that the user still has in cache before loading more data to cache. This value is multiplied by the visible time range unit.</p> <p>For example, with a value of 0.25, if the visible time range is 1 week and the user is scrolling the applet in the future, then when user has a quarter of a week left in the cache, the applet loads more data and caches the data.</p>
EXCHANGE_DOMAIN	The IBM TRIRIGA domain for the Microsoft Exchange server. For example: tririga.com
FRONT_END_SERVER	You access IBM TRIRIGA with the URL in the FRONT_END_SERVER property to use BIRT and the Gantt. (Tri-37276)
PDF_EXPORT_GRAPHIC_STROKE_WIDTH_OVERRIDE	Overrides all stroke (line) widths when a graphics section is exported to PDF. On some larger-scale drawings, the width of lines can appear to be very thick when zoomed into the PDF at a high magnification. This property can be used to resolve that issue by setting the stroke width to a very small constant value such as 0.0000001. When the value is left blank, the exported PDF uses the stroke width defined per line in the graphic, which is derived from the line widths as published from CAD. The default value is blank, no value specified. (Tri-35267)
ServerRoot	The path to the parent directory of the userfiles directory.
SMTP_CLIENT_TIMEOUT	The SMTP timeout in minutes. For example: 10
SMTP_KEEP_EMAIL	Determines whether to keep the email after SMTP processing by iCalendar. If set to Y, then the system keeps the email after processing. Use Y only when SMTP processing is being debugged. If set to N, then the system deletes the email after processing. In a production system, the value should be N.
SMTP_PORT	The port that is used by the Reserve SMTP Agent for incoming SMTP traffic. If the value is anything other than 25, then the administrator might need to route the SMTP traffic to this port. This value is the port on which IBM TRIRIGA listens for SMTP traffic. For example: 25
SVG_PLUGIN_DOWNLOAD_URL	This property has been removed. The Adobe SVG Viewer plug-in is no longer available from Adobe for download. (Tri-40547)
TRIRIGA_RESERVE_	The label that is displayed when a user connects the Microsoft Outlook client

Area of Change	Description
OUTLOOK_TAB_LABEL	to the IBM TRIRIGA application server. For multi-byte support, you must Unicode-escape your values according to the Java specification. Example: TRIRIGA Reserve
TRIRIGA_RESERVE_SMTP_ROOT	<p>The simple mail transfer protocol (SMTP) root directory that is created when the Reserve SMTP Agent is started. If the directory already exists, the IBM TRIRIGA process must have write access to the directory.</p> <p>Example for Microsoft Windows: c:\tririga\install\userfiles\smtp\in\</p> <p>Example for UNIX: /tririga/install/userfiles/smtp/in/</p>
TRIRIGA_RESERVE_SUB_DOMAIN	The IBM TRIRIGA subdomain for the Microsoft Exchange server. This value determines which emails are forwarded to IBM TRIRIGA. The resources that are managed in IBM TRIRIGA must have a contact to forward to in this subdomain. For example: reserve.tririga
USE_WF_BINARY_LOAD	If set to Y, the system uses the binary load process. The Workflow Templates are loaded from the stored binary version, if they cannot be found in the Workflow Template cache. If set to N or no value, the Workflow Templates are loaded by processing the workflow definition into the binary format. The default value is Y.
WF_FUTURE_AGENT_SLEEPTIME	The number of seconds the Workflow Future Agent waits before checking if more items need to be processed. The default value is 5.
WF_INSTANCE_SAVE	Renamed the default value from NEVER to ERRORS_ONLY to better represent that errors are saved. (Tri-39747)

IBM TRIRIGA CAD Integrator/Publisher 12.0.1

This chapter details important information, known limitations, and changes for IBM TRIRIGA CAD Integrator/Publisher.

Important Information

Important information concerning IBM TRIRIGA CAD Integrator/Publisher for this release includes the following:

Area of Impact	Description
AutoCAD	If you are using AutoCAD 2012 64 bit, you must be on SP1 or higher. (Tri-37066)
Hover Help	If the hover help you are reading closes before you can finish, move your mouse away and then back to redisplay the hover help.
IBM TRIRIGA Application Platform	<p>When your environment is on IBM TRIRIGA Application Platform 3.3 or later, to use IBM TRIRIGA CAD Integrator/Publisher, all CAD Integrator client workstations must be on IBM TRIRIGA CAD Integrator/Publisher version 12.0 or later.</p> <p>To use IBM TRIRIGA CAD Integrator/Publisher 12.0, you must be on IBM TRIRIGA Application Platform 3.3.</p> <p>To use IBM TRIRIGA CAD Integrator/Publisher 12.0.1, you must be on IBM TRIRIGA Application Platform 3.3.1.</p>
MicroStation	For MicroStation users of IBM TRIRIGA CAD Integrator/Publisher, the file <code>areapat.cel</code> is required in order for fills to work properly. The installer does not provide this file, and it is the responsibility of the user to provide it. The <code>areapat.cel</code> is installed by default with MicroStation V8i (Select Series 2), and IBM TRIRIGA CAD Integrator/Publisher attempts to load it. However, if IBM TRIRIGA CAD Integrator/Publisher cannot locate the file or if you are running a different version of MicroStation V8i, you need to copy the <code>areapat.cel</code> file into the CAD Integrator installation directory. (Tri-35695)
Single Sign-On	If you are using SSO through IIS, you must have the Basic authentication option selected in order for IBM TRIRIGA CAD Integrator/Publisher to sign in properly. You can use any other combination of authentication options (Basic, Digest, and Windows Integrated), provided that both Digest and Windows Integrated are not selected at the same time. (Tri-21349)
Upgrade to version 12.0	The steps to upgrade from CAD Integrator 10.0 to IBM TRIRIGA CAD Integrator/Publisher version 12.0 are described in the IBM TRIRIGA 10 information center. From the information center, select <i>Integrating, publishing, and reporting on CAD drawing information > Installing and upgrading TRIRIGA CAD Integrator/Publisher</i> .

Area of Impact	Description
	After the upgrade, you must redefine reporting information and application definitions on the server side. For reporting (labels/fills/graphic reports), each user of IBM TRIRIGA CAD Integrator/Publisher must recreate the reporting that was defined on their client, on the server. Alternatively, users can use the standard graphics for labels and reports. If you have heavily customized your applications, you must adjust the standard application definitions.

Known Limitations

Known limitations concerning IBM TRIRIGA CAD Integrator/Publisher for this release include the following:

Area of Impact	Description
Data	IBM TRIRIGA CAD Integrator/Publisher for AutoCAD supports multi-byte characters in drawings, windows, and records. IBM TRIRIGA CAD Integrator/Publisher for MicroStation supports multi-byte characters in IBM TRIRIGA CAD Integrator/Publisher windows and in IBM TRIRIGA records.
Installer	The installer is only available in US English. By default Install Anywhere installs to a folder with the literal value <code>Program Files</code> . On non-English versions of Microsoft Windows, this folder has a translated name and an install to a folder named <code>Program Files</code> may not work. If you are installing IBM TRIRIGA CAD Integrator/Publisher on a non-English version of Windows, install to a folder with a different name. For example, <code>C:\CI</code> .
Publish	A graphics section does not render entities output to the DXF paper-space. (Tri-32950)

IBM TRIRIGA CAD Integrator/Publisher 12.0.1 Changes

The major changes to IBM TRIRIGA CAD Integrator/Publisher for this release include the following:

Area of Change	Description
Attach	You can now attach and upload Circles, Ellipses, and Regions. Note that publishing Regions to Web Graphics remains unsupported. (Tri-86286-IV39579)
Attach Drawing	Attaching a drawing when the default CI theme has a report set, and display legend is on, displays a legend for the query run on the entire system (e.g., the Space Class query shows every space in the system). Now the query is not run if there are no attached entities on the drawing. (Tri-78863)

Area of Change	Description
Batch Associate	In AutoCAD, if the user selects an unattached entity when running Batch Associate, the dialog stays open and informs the user no attached entities were selected. (Tri-69007)
Batch Associate	In Batch Associate, if a mapping that has no valid associated objects is selected, an error message is displayed. Switching to a valid mapping now clears the error message. (Tri-69258)
Batch Associate	In MicroStation, pre-selection can be used to filter the records listed in Batch Associate form. (Tri-67178)
Batch Associate	Updated the error message that displays when no results are returned when the user clicks the Find by Association action in the De-associate tab. (Tri-88290)
Batch Edit	If the user selected an unattached entity when running Batch Edit, the dialog stays open and informs the user no attached entities were selected. (Tri-69006)
Batch Process	Batch Process function now attaches, uploads, and publishes design files from MicroStation. (Tri-66128)
Batch Process	Batch Process was timing out when a Report was set in the default theme in some environments. Now reports are not applied for Batch Process. Users can still run sync at a later time to apply the report set on the default theme. (Tri-76067)
Batch Process	Resolved an issue that caused batch process to time out when processing large drawing. The timeout duration is now configurable in <code>ci.properties</code> . (Tri-81581-IV39576)
Batch Process	The new <code>OPEN_DRAWING_INTERNAL_TIMEOUT_SECONDS</code> property in the <code>ci.properties</code> file is the maximum amount of time in seconds to wait for a drawing that is opened by internal IBM TRIRIGA processing, such as when the Open Drawing From Record command is selected, or opened due to a batch processing action. The default is 600 seconds (10 minutes). (Tri-89701, Tri-90246)
Batch Process	You can now select more than one file at a time from the Add File window. (Tri-76727)
Create Planning Drawing	Added a message to indicate that the Create Plan drawing process is complete. Also updated the log to indicate the specific cause when an unexpected error occurs. (Tri-84268)
Create Planning Drawing	Closing the original drawing after creating a new planned drawing no longer results in an invalid menu configuration. This happened when the server was on a Linux environment and was caused by drawing file path discrepancies. (Tri-90228)

Area of Change	Description
Create Planning Drawing	Resolved an issue that caused sync failures at creation time for planning drawings created from other drawings. This happened if the user's drawing preference was set to Sync Drawing when Opened. Sync processing tied to this preference is now disabled for planning drawings. With this change, a user must start the sync manually after opening or creating planning drawings. (Tri-87834)
Create Planning Drawing	Resolved an issue that caused the Gross and Measured Gross boundaries on a planning drawing to not be attached in MicroStation. (Tri-90361)
Create Planning Drawing	Updated the create plan process to correct an issue that occurred on some drawings with hatches applied that were upgraded from a previous version of CI. The issue in create planning drawing resulted in the spaces in the create plan drawing linking to the original space instead of to the planned space. (Tri-85259)
Detach Drawing	Detach drawing now restores the layer colors of the Gross and Measured Gross boundary on drawings attached using Smart Attach. (Tri-84243)
Detach Object	The Detach Object command no longer ends after detaching a single object. It continues to be active until the user cancels it. (Tri-70760)
Find Object	In MicroStation, resolved the issue preventing the Find Object function from finding employees or assets. (Tri-89724)
General	In version 12.0, CAD Integrator enabled the Attach Gross action and the Attach Measured Gross action whenever a drawing was attached, regardless of whether the gross or measured gross areas were actually attached. Now the actions are enabled or disabled depending on whether gross or measured gross areas are attached. In addition, using the Detach Object action on the gross or measured gross areas correctly updates the menu. (Tri-77003-IV37090)
General	Updated the location hierarchy tree to display a message that the translation is not found instead of "null" if the record names returned are null. This can happen if an environment is missing instance data translations for a user's language. (Tri-90243)
General	Updated the message for "Sync Starting" to "Sync in progress..." in order to reflect that the sync operation may take some time to complete. Similar update for Smart Attach. (Tri-84260)
IBM TRIRIGA Application Platform	Resolved an issue that caused a login to IBM TRIRIGA CAD Integrator/Publisher version 12.0 to fail after an upgrade to IBM TRIRIGA Application Platform version 3.3. (Tri-70702)
Insert Object	Moving an object block from one space to another in AutoCAD now de-associates the object from the first space and associates the object to the second space. (Tri-67175)

Area of Change	Description
Insert Object	Resolved an issue that caused block labels to not render after inserting objects. (Tri-89217)
Installer	If version 12.0 is not present in the client computer before installing version 12.0.1, inches is selected as the value for drawing unit when the user has not made any selection to the following dialogs: Smart Attach, Attach Drawing, and Batch Process. (Tri-67170)
Installer	The shortcut icons are now created when the client computer has Java 7 update 21 or later installed. (Tri-89432)
Label Style	In AutoCAD, clearing a label style and applying a different label style now renders the new label. (Tri-81784)
Login	If the portal project search system query does not contain <code>triNameTX</code> , the user can sign in if the user has security to access the Company Level project. If this occurs, a server error is logged. (Tri-88979-IV42155)
Login	Resolved a customer-specific data issue related to invalid UOM data. The CI login process now logs an error on the server for this field if an invalid value is encountered. (Tri-70153)
Menu	If no drawing is attached, the Sync Areas and Sync Full menu items are disabled. (Tri-89426)
Menu	The Planning Drawing menu now includes Smart Attach and Attach Object in order to support attaching and uploading Planned Spaces. (Tri-90221)
MicroStation	A select from design file option is now supported to select the Gross, Measured Gross, Boundary, Name, and other layers directly from the design file. You now can use the Smart Attach tool to upload spaces on a design file after you select layers. (Tri-67177)
MicroStation	Batch Edit and Batch Associate now open the form if a legend is present in the design file. (Tri-69005)
Publish	A publish now succeeds even if one of the XRef drawings is not found or has an unresolved path. The unresolved XRef drawing is skipped during the publish. (Tri-86846)
Publish	Resolved an issue that caused polylines to not show up in graphics sections after publishing. The detach all objects command was not successful because an attached entity had an empty original layer name before the drawing was reattached and published. If you are experiencing this issue, you must run the detach all objects command again before you republish. (Tri-81924-IV38997)
Report	Attach Object was running the entire report/labels on all spaces every time a single object was attached, which increased the run time. Now the fill and

Area of Change	Description
	label are only applied to the single object being attached to. Note that the legend is not updated when attaching a single space; the user needs to apply the report or sync first. (Tri-668333)
Report	In MicroStation, resolved an issue that caused the fill color on a server record graphic report result to be rendered white whenever the color did not exactly match the internal color table. Now the color rendered is the closest RGB value in the MicroStation color table. Also, the internal color table now uses the MicroStation color table, which makes it possible for users to render custom colors by updating the MicroStation color table to match the RGB value of the server record color. (Tri- 67179, Tri-85730)
Report	In MicroStation, the last row is now aligned correctly in a graphic report that does not contain a row that aggregates fields, such as count or area. (Tri-79394)
Report	Resolved an issue that caused an exception when a user applied fills via attach/reporting when the number of entities in a drawing was an exact multiple of 100. (Tri-70734)
Reporting	Clearing report and clearing label style now displays a message. (Tri-85587)
Reports	Applying a report now renders all spaces for a large (~1000+) drawing. (Tri-90244)
Reports	Graphic reports created by a user from the My Reports manager are now available in the Report list of CAD Integrator. (Tri-69619)
Smart Attach	A text entity without a boundary no longer causes the processing of the upload candidate to stop. Now, the error is logged and processing continues for the other text entities. (Tri-84994)
Smart Attach	During upload candidate processing, the update count is no longer out of sync with the actual records being updated. (Tri-80498)
Smart Attach	MicroStation now correctly detects subspaces when using Smart Attach or Batch Process. (Tri-66123)
Smart Attach	The layer name selector fields on the Smart Attach dialog are now persisted after a user exits the dialog. (Tri-87383)
Smart Attach	The OK button is now disabled on the Smart Attach form after the user clicks it until the smart attach process is complete. (Tri-88099)
Smart Attach	The required field mapping default picker in the Smart Attach dialog shows values even if one of the records does not contain a translated value. When a translation is not available, the user sees the corresponding translation to "The translated value is not available." message. (Tri-87386)

Area of Change	Description
Smart Attach	The Select from drawing option in the Layer drop-down selectors on the Smart Attach form has been replaced by a Select from drawing button that displays to the right of the Layer drop-down selectors. (Tri-87384)
Smart Attach	The View Errors button on the upload candidate dialog is disabled if there are no errors. If there are errors, the button is enabled and the number of errors is displayed on the button next to the label. (Tri-87385)
Smart Attach	Upload candidates no longer present additional invalid errors in the View Errors dialog when a user selects a layer from a drawing for the mappable field values. (Tri-87732)
Sync	Resolved a Full Sync issue that prevented all associated attached records from being correctly synced in scenarios where a record had multiple associated attachments. (Tri-89219)
Sync	The Sync Complete status message no longer displays before all processing related to the Full Sync is complete. (Tri-81794)
Themes	The label of the theme is now displayed when the theme is applied. (Tri-87555)
Tooltips	Resolved an issue where Smart Attach displayed tool tips designed for Batch Process. (Tri-73153)
Upgrade	Resolved an issue with upgrade that caused the publish to fail on some old drawings that contained non-multi-lined text labels. The command <code>TRGA_PurgeXData</code> resolves this issue in drawings that have already been upgraded. (Tri-81907-IV38981)
Upgrade	Updated the <code>TRGA_PurgeXData</code> command to remove bad drawing attachment data caused by a missing application definition in an old drawing. Updated the Upgrade processing of old drawings to automatically call the <code>TRGA_PurgeXData</code> command if the upgrade process fails for any reason. Added a <code>ci.property</code> , <code>AUTO_PURGE_WHEN_UPGRADE_FAILS</code> , to enable users to turn off this automatic purge on failure behavior. (Tri-88997)
Upload Location	Smart Attach and Batch Process now display progress indicator messages on the command line when uploading spaces (e.g., "Uploaded 50 of 134 records...") as the upload runs. (Tri-84142)
Web Graphics	Applying a graphic report to a drawing in web graphics that has an attached region entity now renders the report correctly. (Tri-89213). Note that published Regions in Web Graphics remains unsupported.
Web Graphics	Attached asset entities are now visible from the web graphics section. (Tri-91833-IV43132)

Area of Change	Description
Web Graphics	Resolved an issue that caused the as-delivered Charged To Organization report to fail to run in either web graphics or IBM TRIRIGA CAD Integrator/Publisher (Apply Report). The issue occurred because the Hatch Field that was specified on the report definition did not have at least one space with an associated Organization. In general, if a graphic report has an associated object result that may not exist, for example no Organization associated to a space, then this issue occurs. An alternate method is to remove the Hatch Field from the report. (Tri-69901)

IBM TRIRIGA CAD Integrator/Publisher 12.0 Enhancements

The enhancements to the IBM TRIRIGA CAD Integrator/Publisher for this release include the following:

Area of Impact	Description
Globalization	<p>IBM TRIRIGA CAD Integrator/Publisher is available in the following languages supported by IBM TRIRIGA: Brazilian Portuguese, Chinese (Simplified and Traditional), Czech, Dutch, French, German, Hungarian, Italian, Japanese, Norwegian, Polish, Russian, Spanish, Swedish, and US English.</p> <p>IBM TRIRIGA CAD Integrator/Publisher for AutoCAD supports multi-byte characters in drawings, windows, and records. IBM TRIRIGA CAD Integrator/Publisher for MicroStation supports multi-byte characters in IBM TRIRIGA CAD Integrator/Publisher windows and in IBM TRIRIGA records.</p>
Architecture	IBM TRIRIGA CAD Integrator/Publisher now uses a common Java framework.
Process Improvements	The process flow has been improved to be more intuitive and streamlined.
Usability	The navigation in the menus and user interfaces has been improved. The user interfaces include tooltips and intuitive labels that expose more information at the level where the user is most likely to see it and where it is most helpful. If necessary, users can click links to view more detailed information. Improved and expanded system and program messages make it easier for users to resolve problems on their own.
Application Definitions	<p>The application definitions are managed by an IBM TRIRIGA administrator and are centralized in the IBM TRIRIGA environment.</p> <p>A user can pull data from a CAD drawing to populate any IBM TRIRIGA field that is specified in the application definition mappings.</p>

Area of Impact	Description
Graphic Reports	Label styles, label filters, and graphic reports are centralized in the TRIRIGA environment. IBM TRIRIGA CAD Integrator/Publisher users can reuse existing web graphic reports, label styles, and label filters, or create their own unique label styles, label filters, and CAD themes. A field in a graphic report can be identified as a hatch pattern locator field. This field can then be used to specify the hatch pattern, scale, and angle to be used when the report is rendered in IBM TRIRIGA CAD Integrator/Publisher.
Smart Attach	CAD drawing information can be attached and published at one time, from one interface with the Smart Attach feature.
Administration Tools	An IBM TRIRIGA administrator manages the product-wide configurations by using the new CAD Integrator tools in the IBM TRIRIGA administration tools. These configurations are available to all users that have appropriate security group privileges.

IBM TRIRIGA CAD Integrator/Publisher 12.0 Changes

The major changes to IBM TRIRIGA CAD Integrator/Publisher for this release include the following:

Area of Change	Description
Administrator Console	The new CadIntegrator thread setting in the Threads Manager controls the number of threads the platform allocates to IBM TRIRIGA CAD Integrator/Publisher when attaching a drawing. (Tri-37460)
Architecture	The architectural changes in IBM TRIRIGA CAD Integrator/Publisher 12.0 resolved or invalidated a large number of outstanding IBM TRIRIGA CAD Integrator/Publisher issues from prior releases.

IBM TRIRIGA Application Object Migration Packages

IBM TRIRIGA delivers application object migration packages using two different methodologies:

- **Incremental Package:** Each application release is a separate file named TRIRIGA_<version>.zip. The latest incremental package is for IBM TRIRIGA 10.3.1.
- **Cumulative Package:** The entire suite of IBM TRIRIGA applications in one file named TRIRIGA_<version>_Cumulative.zip. Cumulative packages save substantial time when you are upgrading across several releases. The latest cumulative package is for IBM TRIRIGA 10.1.



Note - To request access to IBM TRIRIGA software releases prior to IBM TRIRIGA 10.2 and IBM TRIRIGA Application Platform 3.2, submit a ticket through the IBM Software Support site at www.ibm.com/support.

Use the method that best meets your needs. Incremental package files might be best to upgrade across one or two releases. The cumulative file might be best to update from an earlier version of the application. Be aware, however, that the cumulative file is large and takes a long time to download, load, and import. After you have the object migration package files downloaded, follow the steps in this chapter to accomplish your application updates.

Applying the Application Object Migration Package



Attention - Before you perform an upgrade to IBM TRIRIGA 10.3, you must 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.

The IBM TRIRIGA 10.3.1 release includes one incremental application package containing enhancements, fixes, and corrections for the IBM TRIRIGA 10 applications, as described earlier.

If you are upgrading from IBM TRIRIGA 10.2.x, apply the SQL script to update the system fields. Then use the 10.3, the 10.3.0.1, and the 10.3.1 incremental application packages.

If you are upgrading from IBM TRIRIGA 10.1, use the 10.2.0.1 and 10.2.0.2 incremental application packages, apply the SQL script to update the system fields, and then use the 10.3, the 10.3.0.1, and the 10.3.1 incremental application packages.

If you are upgrading from TRIRIGA 9, use the 10.1 cumulative package, the 10.2.0.1 and the 10.2.0.2 incremental packages, apply the SQL script to update the system fields, and then use the 10.3, the 10.3.0.1, and the 10.3.1 incremental application packages, as described in "[Important Installation and Upgrade Information](#)". Optionally, you can use incremental packages instead of the 10.1 cumulative package and the 10.2.0.1, 10.2.0.1, 10.2.0.2, 10.3, 10.3.0.1, and 10.3.1 incremental packages. You must proceed in this sequence:

1. Upgrade to TRIRIGA Application Platform 2.7.2.3.
2. Load each incremental object migration package that is later than your current application version, in order, up to and including 9.7.1. Depending on your current application version, you may need to apply the 9.0.1, 9.0.2, 9.0.3, 9.0.4, 9.0.5, 9.0.6, 9.1, 9.1.1, 9.1.2, 9.1.3, 9.5.0, 9.5.1, 9.5.1Supp, 9.6.0, 9.6.0_Gantt, 9.6.1, 9.6.2, 9.7.0, and 9.7.1 packages. See the *TRIRIGA 9.1 Release Notes* for information about applying the 9.1 package. Perform each package sequentially, in the order listed above. Wait until all of the steps below are complete for an incremental object migration package before beginning the next.
3. Upgrade to IBM TRIRIGA Application Platform 3.3.1.
4. Load each incremental object migration package for 10.0, 10.1, 10.2.0.1, 10.2.0.1, 10.2.0.2, apply the SQL script to update the system fields, and load each incremental object migration package for 10.3, 10.3.0.1, and 10.3.1. Perform each package sequentially, in the order listed above. Wait until all of the steps below are complete for an incremental object migration package before beginning the next.

If you use the 10.1 cumulative package, you must also apply the 10.2.0.1 and 10.2.0.2 incremental packages, apply the SQL script to update the system fields, then apply the 10.3 and the 10.3.0.1 incremental packages, and then apply the 10.3.1 incremental package.

Please read and follow “Importing Objects” in the *IBM TRIRIGA Application Platform 3 Object Migration User Guide* for a description of how to import application packages. The following summarizes a few Import features you may find helpful:

Summary

To see all warnings and errors found during validation, click the Summary action on the top of the Object Migration screen. The Package Summary report appears.

The Object Summary at the top of the Package Summary report lists statistics for each object type, with the warnings and errors hyperlinked to the corresponding summary section further down in the report.

The body of the Package Summary report contains a separate section for each object type with warnings or errors or both. Within these sections, you can see the object name, module and business object if appropriate for the object type, and the corresponding warning or error messages.

Comparison

Object Migration offers two comparison methods to find out more information about the differences between uploaded items and existing items in the system. You can compare the entire upload with the Comparison Report action or compare individual items with the Compare action in the Objects panel. The comparison logic is the same for the Comparison Report and an individual Compare, with the main difference being that one compiles the result into a file and the other displays the result in the user interface.

Comparison Report

A Comparison Report compares every object in the uploaded package with objects in the target system. The result is a tab-delimited .txt file. Each row in the Comparison Report represents one

difference or conflict between the uploaded package and the target system. For example, if a business object has 10 differences, there will be 10 lines in the Comparison Report, one for each.

Compare

The Compare action looks at just one object and compares what is in the uploaded package to what is in the target system. To compare one of the objects in the upload with its counterpart in the target system, select the object in the Navigation panel. The object displays in the Objects panel. Select an item in the Objects panel and click Compare.

Logging

The import process in Object Migration generates informational messages when an object's dependent object names cannot be determined or verified. The message identifies the name of the object that has an issue and lists its invalid references by type and where they were referenced. These messages are sent to a log file named `ObjectMigration.log`. This file is located in the `log` directory of your IBM TRIRIGA installation, for example at `C:\TRIRIGA\log\ObjectMigration.log`.

The `ObjectMigration.log` is configured in the `log4j.xml` file located in the `config` directory of your IBM TRIRIGA installation, for example at `C:\TRIRIGA\config\log4j.xml`. Be sure to review these settings and edit as desired before performing Object Migration.

It is very important to review the `ObjectMigration.log` after each Object Migration event.



Note - To help resolve any circular dependencies or references, the system automatically imports the package two times. After each pass, the system refreshes the system cache.

Import Patch Helper Record

Whether you use the cumulative object migration package and the 10.2.0.1, 10.2.0.2, 10.3, 10.3.0.1, and 10.3.1 incremental packages or a set of version-specific incremental object migration packages, you must run the patch helpers for each application version between your current application version and 10.3.1, including 10.3.1. Use the steps below to import the patch helper files for each version, in version number sequence. The patch helper records update the Application Version record and trigger workflows that update and create other essential information within the database.

Wait for one patch helper to complete before beginning the next. Some patch helpers may take a long time to complete. After a patch helper completes, either clear all application server caches or restart the application server.

How To Import the Patch Helper Record

Step 1 From the destination system, select **Tools > Administration > Data Integrator**.

Step 2 Select the following values in the Upload File section:

Module: triHelper

Business Object: triPatchHelper

Form: triPatchHelper

How To Import the Patch Helper Record

Import Type: Add

Action: triCalculate

Step 3 Browse to identify the package to be imported.

Step 4 Click **Upload File** and click **OK**.

You will receive a notification in your Reminders portal section when the import process completes.

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>.

Related Documentation

You will find the documentation for this release in the IBM TRIRIGA 10 Information Center http://pic.dhe.ibm.com/infocenter/tivihelp/v49r1/topic/com.ibm.tri.doc_10.3.1/welcome.html and in the IBM TRIRIGA Application Platform 3 Information Center http://pic.dhe.ibm.com/infocenter/tivihelp/v49r1/topic/com.ibm.tap.doc_3.3.1/welcome.html. The documentation in the information centers can be found in online information center topics, or in PDF files, or both.

This release introduces the following new documentation:

- *IBM TRIRIGA 10 Real Property Information Model Reference Manual* (PDF), which can be found at <https://www.ibm.com/developerworks/community/wikis/home?lang=en#/wiki/IBM+TRIRIGA1/page/Real+Property+Information+Model>
- *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>

This release includes updates to the following documentation:

- "Installing IBM TRIRIGA Application Platform" (online topic) or *IBM TRIRIGA Application Platform 3 Installation and Implementation Guide* (PDF)
- "Integrating, publishing, and reporting on CAD drawing information" (online topic) or *IBM TRIRIGA CAD Integrator/Publisher User Guide* (PDF)
- "Managing leased and owned property contracts" (online topic) or *IBM TRIRIGA 10 Lease and Owned Property Contract Management User Guide* (PDF)
- "Managing portfolio data" (online topic) or *IBM TRIRIGA 10 Portfolio Management User Guide* (PDF)
- "Managing real estate environmental sustainability" (online topic) or *IBM TRIRIGA 10 Real Estate Environmental Sustainability User Guide* (PDF)

- “Managing reservations and reservable resources” (online topic) or *IBM TRIRIGA 10 Reservation Management User Guide* (PDF)
- “Requesting services” (online topic) or *IBM TRIRIGA 10 Request Central User Guide* (PDF)
- “Strategic facility planning” (online topic) or *IBM TRIRIGA 10 Strategic Facility Planning User Guide* (PDF)
- “Web graphics in IBM TRIRIGA Application Platform graphics sections” (online topic) or *IBM TRIRIGA Application Platform 3 Graphics User Guide* (PDF)
- *Application Building for the IBM TRIRIGA Application Platform 3* (PDF)
- *Application Building for the IBM TRIRIGA Application Platform 3: Data Management* (PDF)
- *IBM TRIRIGA 10 Application Administration User Guide* (PDF)
- *IBM TRIRIGA 10 Connector User Guide* (PDF)
- *IBM TRIRIGA 10 Document Management User Guide* (PDF)
- *IBM TRIRIGA 10 Facility Assessment User Guide* (PDF)
- *IBM TRIRIGA 10 Getting Started User Guide* (PDF)
- *IBM TRIRIGA 10 Maintenance and Service Management User Guide* (PDF)
- *IBM TRIRIGA 10 Procurement Management User Guide* (PDF)
- *IBM TRIRIGA 10 Program and Project Management User Guide* (PDF)
- *IBM TRIRIGA 10 Space and Move Management User Guide* (PDF)
- *IBM TRIRIGA Application Platform 3 Administrator Console User Guide* (PDF)
- *IBM TRIRIGA Application Platform 3 Localization User Guide* (PDF)
- *IBM TRIRIGA Application Platform 3 Reporting User Guide* (PDF)
- *IBM TRIRIGA Application Platform 3 User Experience User Guide* (PDF)
- *IBM TRIRIGA Connector for Business Applications 3 Technical Specification* (PDF)

This release retires the following documentation:

- *IBM TRIRIGA 10 Report List*

Support

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

Notices

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