Oracle® Retail Predictive Application Server

Release Notes

Release 13.3.1

June 2012

The Oracle Retail Predictive Solutions are a set of products used for generating forecasts, developing trading plans, and analyzing customer behavior. These products use predictive technology to examine historical data and to predict future behavior. The Oracle Retail Predictive Solutions run from a common platform called the Oracle Retail Predictive Application Server (RPAS) that includes features such as:

- Multidimensional databases

- Hierarchical data (product, time, and business location hierarchies)

- Aggregation and spreading of data

- Workbooks and worksheets for displaying and manipulating data

- Wizards for creating and formatting workbooks and worksheets

- Menus, quick menus, and toolbars

- Exception management and user-friendly alerts

Hardware and Software Requirements

See the *Oracle Retail Predictive Application Server Installation Guide* for hardware and software requirements.

> **Note:** After the 13.3.1 release, AIX 5.3 will no longer be supported.

> **Note:** Due to known ADF issues related to the use of Google Chrome, the RPAS Fusion Client may drop support for Chrome in the next release until these issues are resolved. For additional details on these issues, see "Known Issues".

Cygwin

Cygwin is required if the RPAS Server is to be installed on Windows operating systems. You can find more information about downloading this product at http://www.cygwin.com.

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For installation guidance, see the following note on My Oracle Support (https://support.oracle.com):

Cygwin Setup Guide for RPAS (Doc ID 1333398.1)
This document details necessary options you should select when installing Cygwin to make it function properly with RPAS.

Upgrade Notes

When upgrading RPAS, note the following issues:

Patching RPAS

Do not set the Drpas.maxProcesses setting within the RIDE_OPTIONS environment variable. There is a known issue with using this option with this variable. This known issue is documented in bug 13587312 in the Known Issues table.

Patching Domains

When applying any RPAS server upgrade, you should also run a configuration patch over the domains that are upgraded. There are times where the configuration resources have been updated and the domain must be patched to reflect those changes. An example of this situation is presented in bug 9680094.

Chart Formats

Bugs 9297192 and 9837542 describe problems with uninitialized chart formats saved with saved formats. This leads to potential issues such as unavailable legends to intermittent crashing. It also prevents chart formats from being inherited from a higher level saved format. These issues have been fixed for uninitialized chart formats created in the future, but the solution does not resolve issues with preexisting saved formats.

Because the RPAS Classic Client uses a third party chart control, it cannot be determined which chart formats have been initialized and which ones are invalid. The only solution is to determine if the window is in grid or chart mode.

A saved format schema update has been introduced that erases any chart formats for all windows in grid mode. This is a one-time update, and once completed, the user does not need to save the windows in chart mode again.

To keep a template with saved styles containing chart formats, perform the following steps:

> **Note:** These instructions are required if you are upgrading from a version of RPAS prior to 13.2. If you are upgrading from 13.2, these instructions do not apply.

1. Before upgrading, create or open a workbook for that template.

2. Navigate to the windows with chart formatting you want to preserve.

3. Toggle the window to chart mode.

4. Save the formats to the level (user, group, or template) in which you want the chart formats.

5. After upgrading, create a new workbook for that template.

6. Optional: Toggle the windows back to grid mode.

7. Save the formats as described in Step 4.

For more information about the patching process, see the *Oracle Retail Predictive Application Server Installation Guide*, the *Oracle Retail Predictive Application Server Administration Guide for the Classic Client*, and the *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*.

Default bitSizes

The rule, expr, meas, wb, and wbq dimensions come with a default bitSize. Their bitSizes should not be increased after a new domain is built. When the domain is upgraded and/or patched, these dimensions were found to get fragmented and eventually hit the threshold level for the available address space. The user gets a message to reindex them. There is no need to increase the bitSize for these dimensions and only defragging is sufficient to bring the address space back to the required level.

The following commands must be run on the domain after it is upgraded and/or patched if the message to reindex appears on any of these dimensions.

reindexDomain -d *<dompath>* -dimSpec **rule** -force

or

reindexDomain -d *<dompath>* -dimSpec **expr** -force

or

reindexDomain -d *<dompath>* -dimSpec **meas** -force

or

reindexDomain -d *<dompath>* -dimSpec **wb** -force

or

reindexDomain -d *<dompath>* -dimSpec **wbq** -force

or

reindexDomain -d *<dompath>* -dimSpec **rule,expr,meas,wb,wbq** -force

Functional Enhancements

RPAS 13.3.1 includes the following functional enhancements:

Fusion Client Multi-Solution Taskflow

The RPAS Fusion Client allows for a single point of access for multiple RPAS solutions. This is referred to as a multi-solution taskflow. In the past, users would have to log into solutions, as well as individual domains of that solution, separately. Now, with multi-solution taskflow, users can log into the Fusion Client and have access to multiple solutions and domains. Therefore, a taskflow can contain activities from a single RPAS solution or from multiple solutions.

Multi-solution taskflow introduces a sense of domain transparency. Users logged into the Fusion Client have access to all the domains (simple, master, and local) to which the user has access. They do not need to select a single domain or profile to log into. Based on their position level security, the user is transferred to the appropriate domain. If they have access to multiple domains for the same solution, the user has the option to select the domain they want to work in based on the positions of the partition level.

With the introduction of multi-solution taskflow, Fusion Client user authentication happens external to the RPAS based authentication. This requires the use of either Lightweight Directory Access Protocol (LDAP) or Single Sign-on (SSO). Even with this external authentication, users still need to be configured in the RPAS solutions and have all security setting maintained in those solutions.

For more information, see the *Oracle Retail Predictive Application Server Configuration Tools User Guide* and *Oracle Retail Predictive Application Server User Guide for the Fusion Client*.

Fusion Client Show Members with Alert

Using the active alert, positions of the dimensions that are contained in the base intersection of the alert measure can be ranged to display just the positions that are alerted. This functionality was previously available in the Classic Client. For more information, see the *Oracle Retail Predictive Application Server User Guide for the Fusion Client*.

Save State of Dimension Tile Area in Fusion Client

The state (that is, expand or collapse) of the dimension tile area in the Fusion Client can now be saved as part of the formatting as well when the workbook is saved. For more information, see the *Oracle Retail Predictive Application Server User Guide for the Fusion Client*.

Utilization of Configured Two-Tree Wizard Labels in Fusion Client

The right and left label for a two-tree wizard can be configured in the Configuration Tools. Prior to 13.3.1, the Fusion Client would not display these configured labels. Now, they are visible in the Fusion Client. For more information, see the *Oracle Retail Predictive Application Server Configuration Tools User Guide*.

Technical Enhancements

RPAS 13.3.1 includes the following technical enhancements:

SSL Support

In order to meet Oracle security standards for product security, Secure Socket Layer (SSL) support is being added to RPAS release 13.3.1. This new feature adds configurable SSL to all TCP/IP connections and provides secure communication channels between the RPAS client and server processes. The RPAS Classic Client supports one-way, two-way, and no SSL options. The RPAS Fusion Client only supports two-way SSL.

For more information, see the *Oracle Retail Predictive Application Server Administration Guide for the Classic Client* and *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*.

Software Operating Environment Upgrades

> **Note:** For the complete list of infrastructure requirements, see the *Oracle Retail Predictive Application Server Installation Guide*.

The following are enhancements to the software operating environment options for RPAS release 13.3.1:

- Oracle JRockit 1.6

  RPAS release 13.3.1 is supported for use with Oracle JRockit 1.6.

- Supported Web Browsers

  RPAS Fusion Client release 13.3.1 is supported for use with the following browsers:

  - Mozilla Firefox 4.0+ on Microsoft Windows XP

  - Mozilla Firefox 7+ on Microsoft Windows 7

- Oracle Linux 5.8

  RPAS Platform release 13.3.1 is supported for use with Oracle Linux 5.8.

Integration Enhancement

RPAS 13.3.1 includes the following integration enhancement:

Oracle Data Integrator (ODI)

The certification of Oracle Data Integrator (ODI) is upgraded from 10.1.3.5 to 11.1.1.5.

Noteworthy Defect Fixes

The following noteworthy defect fixes and enhancements are included in RPAS 13.3.1.

Affected Component	Fixed Issue/Defect	Defect Number
Alerts	When an alert was registered using the alertmgr utility, the category ID was being displayed instead of the category label in the alert manager window of either client. The alert category label was not populated. The category ID was populated from measure attributes and set for the alert description. Now, the category label for the alert description is populated by getting the category label from the appropriate array. The user is able to see the category label in the alert manager window in both clients.	13467449

Affected Component	Fixed Issue/Defect	Defect Number
Alerts	The alertmanager utility would fail with an error message similar to the following when running the find alerts process: "DBCloser::close();- Encountered exception: Invalid database access for 'xxxx': Restricted: Close at line number 299 of file rpas/MultiDatabaseOpener.cpp." The alert manager utility failed when executing a specific alert expression. An aggregate level is used on the RHS of the alert expression. To evaluate a measure at the aggregate level on the right hand side, temporary aggregate level measures are created. At the end of evaluation, these temporary aggregate level array files needed to be removed. As the right hand side measure databases were opened in read-only mode, they were restricted for write access. Because of the write restriction, the process was failing while cleaning the temporary array. This fix allows the alert manager utility to run without error.	13520651
Alerts	While trying to run a refresh rule on the client for a workbook, it gave an exception similar to the following: "CalcEngineException: Rule r0000 in refresh rule group xxxxx does not have exactly one expression". When a workbook was built with alert manager, it created refresh rules in the same rule group for all alert measures instead of creating separate rules for each alert measure. When validating the rules, the calculation engine throws the exception because it expects one expression per each refresh rule. This is updated so that a new refresh rule is created for each alert measure.	13615027
Alerts	A DB Server crash occurred when the user pressed the back button in the wizard pages while building a workbook via the Alert Manager. This was happening because attempts were made to access a database without having transaction context. This context is added so that navigating to a previous wizard page does not crash the DB Server.	13859616
Attributes	When an attribute was defined at an aggregated level, an update to the measure at the aggregate level did not update the attribute value. This was caused by the logic not checking whether the aggregate array was out of date. It assumed that the aggregate array was valid if it existed. The timestamp of the aggregate array is now checked to make sure that it is updated if the base array is updated.	13636496
Attributes	Using a newly created attribute for sorting or display caused an exception. The cause was that the attribute internal name was DATT_x, which is upper case but the position name must be in lower case for the DATT dimension. Now, the user is not able to use the attribute right after it is created.	13811055
Building/Patching Domains	Some users experienced problems running rpasInstall when using Cygwin on a Windows machine. When attempting to execute RPAS server utilities to build or update a domain, rpasInstall would fail with a message describing permissions problems. RPAS and rpasInstall are modified to be more robust when executing on Cygwin in order to handle differences in environment.	13408361

Affected Component	Fixed Issue/Defect	Defect Number
Building/Patching Domains	When users set the maxProcesses argument through RIDE_OPTIONS, the patch installation would fail. The dimension manager server utility no longer supports the maxProcesses argument. When rpasInstall made the call to dimensionMgr as part of the patch, it tried to use that argument. This resulted in dimensionMgr throwing its usage. The rpasInstall utility no longer makes use of the maxProcess argument in calls to dimensionMgr, even when a maxProcesses argument is set in RIDE_OPTIONS.	13587312
Calculation Engine	Two problems were found with certain RPAS functions. The attribute function threw an error when the index was out of range and the index function did not operate correctly in a workbook when used with scalar measures. The error for the attribute function is now caught correctly. The calculation engine is also updated to handle the case of the index function being used with scalar measures.	11738047
Calculation Engine	Hierarchy modifier [clnd].current did not work properly with the index function. The function had the keyword "CURRENT" hard-coded in the code and did a case sensitive comparison against it. As a result, it did not recognize the keyword in lower case or mixed case. Case insensitive comparison is now performed when testing the current keyword.	13065829
Calculation Engine	RPAS gave the following error when a user tried to build a workbook: "RPASBTreeException: ArrayKeyCompression:: compress failed." The reason was that the lookup expression was failing on a condition that did not allow the left hand side and right hand side measures to be above the base intersection using the level modifier. RPAS does not support the use of the level modifier with the lookup function on the right hand side of the expression (or any modifier). The condition is updated to allow the left hand side measure to be above the base intersection.	13435847
Calculation Engine	The ranksort procedure was not working at aggregate levels when the measure being ranked was a recalc measure that was a quotient (or a product) of 2 measures. The procedure was using TOTAL as the default aggregation method for all measures. It was not considering the aggregation type of the source measure. For the recalc case, use the measure instance that is aggregated by the calculation engine instead of using the aggregation type of total.	13458562
Calculation Engine	The ranksort procedure threw an exception when the left hand side measure was calculated at a level higher than its base intersection. There was validation in ranksort which was throwing the exception. That validation was disabled for a long time, but it was re-enabled in 13.3. The validation is removed that is preventing the left hand side ranksort measure to be calculated at a higher level.	13538886

Affected Component	Fixed Issue/Defect	Defect Number
Calculation Engine	The calculation of a recalc measure at aggregate levels was not correct. Recalculation was not updating all positions at an aggregate level, instead only updating those positions that were visible on the worksheet. When rolling up to the highest level, only the last position that was visible was calculated. Any previous positions that were visible were not recalculated correctly. The reason was that the tracking of changes was getting cleared on each calculation cycle. The following scenario outlines the steps taken to see this issue. First, the user would scroll down on the worksheet and have aggregate levels not visible on the screen but available on the worksheet. The user would edit a value, calculate, make a second edit, perform another calculate, and then scroll up to view the aggregate levels. The aggregate changes due to the first edit were lost and only the updates due to the second edit were processed. A condition is added to handle this calculation sequence and the aggregate levels should be calculated and displayed correctly.	13548866
Calculation Engine	The measure being calculated as a result of a multiSource expression was not correctly set when opening a new workbook even though the source measures had data. The underlying cause was that the result of a multiSource expression was not getting calculated when the user tried to expand the outline mode where both the base level and aggregate level intersections were displayed on the workbook. Only the base level values were getting calculated. The right hand side measure cells at aggregate level intersections were being treated as not changed even though the multiSource expression was hit when the levels were expanded. The users should now see that the measure gets calculated when lower levels are brought into focus and also see the values in the newly built workbook.	13630946
Calculation Engine	During the expression evaluation, the calculation engine read scalar measures on the right hand side of the expression in read/write mode. The reason being, that whenever the calculation engine found that the scalar measure had a populated cell instead of a changed NA value, it set the NA value of the scalar measure with the populated cell value and then cleared the populated cell. This caused a database contention issue when the scalar measure was being accessed by multiple processes which were spawned across local domains. Currently, the only time a scalar measure gets populated with a cell value instead of its NA value being replaced is when loadMeasure loads the data into the scalar measure. The utility currently does not change the NA value of the scalar measure. It has been modified to set the NA value of the scalar measure instead of populating the cell value. Now, when the scalar measure gets used in an expression on the right hand side, the calculation engine does not find any populated cell in the scalar measure which would prevent the scalar measure from being accessed with a write lock simultaneously by different processes. This eliminates the database contention.	13742924

Affected Component	Fixed Issue/Defect	Defect Number
Calculation Engine	Calculation results were inconsistent when working in a workbook with partially elapsed periods and one that was completely un-elapsed. Existing percent values were not holding after values were calculated for another time period. This issue only occurred in workbooks that were partially elapsed. The issue was related to how the calculation engine was handling the caching of values. Now, the calculation results are correct in both a completely un-elapsed as well as partially elapsed workbook.	13821200
Calculation Engine	On Windows XP, all editable measures were read-only at aggregate levels after upgrading to a version of 13.3.0. A previous fix to set recalc measures read-only at aggregate levels had a issue and made all recalc measures read-only. For each recalc measure in a workbook, it is now considered to be edited and so it generates an ordered expression list and checks that there is a shiftMode and a recalc measure in the group of expressions. Only then the aggstate of the recalc measure is set to read-only.	13927324
Calculation Engine	When evaluating the transformSum expression within a rule group with different intersections on the right hand side, the calculation engine threw a DB access exception. With this setup, the database for the input measure was set to read-only. However, within the procedure, it tried to open the array in write even though all it did was read. This caused the database access error. The read-only iterator is now used and the expression runs without error.	13982306
Classic Client	After building a workbook that contains an alert, the following warning was generated even though the intersections of the alert and workbook are the same: "The intersection XXXXXX for the alert:XXX is not visible on this window. Find next Alert will be disabled." An incorrect check was performed. This condition is corrected and the user does not see the warning message.	13066422
Classic Client	The alert disabled pop-up message should only be displayed once in a workbook. However, the pop-up showed up in every window of every tab of a workbook. Code was missing to check whether the alert measure was hidden or not on the worksheet. Hence, the warning message was showing if the alert measure was part of the worksheet. The warning message is filtered out if the alert measure is hidden on the worksheet. Now, the user sees the warning message once.	13147494
Classic Client	Date cells that contain NA were displayed as 12310001##0000000, where ## could be any hour value depending on the time zone and DST when the measure was created. New domains (created in 13.2 or later) did not have time zone and DST adjustments in their NA dates, so the issue went unnoticed. Domains upgraded from 13.0 have an hour introduced into the NA date value. Now when checking a date string to see if it is NA, only the date portion is checked. The time portion is ignored because it may vary due to time zone and DST. Therefore, NA cells are blank in the table.	13340989

Affected Component	Fixed Issue/Defect	Defect Number
Classic Client	Alerts did not display date and time within the Alert Manager. The data was not being read from the server. It is updated so the user can see the date and time for the alerts.	13356059
Classic Client	For in-context launch, the Classic Client asked for username and password even if they had been specified in the xml file. The autologon flag was disabled. Now, in-context launch users are not asked for username and password if they already specify this information in the xml file.	13441708
Classic Client	When using Automatic Calculation on a workbook, if the user made multiple entries, the last entered cell was getting reverted when the full calculation happened. The user was able to enter multiple values, even though after a single entry, the calculation took place. The second entry was being lost. The client is updated such that if a user is able to do this double entry, the second entry is not lost.	13501599
Classic Client	When the 'range' parameter was set for a date measure and the client was not displaying time for that measure, there may have been unexpected results when selecting the start or end date that was on the measure's range. When a date was selected in the drop-down calendar, an OleDateTime is constructed with a time of noon on the selected day. That time was then validated against the minimum and maximum times in the measure's range parameter. If the time was not valid, a message was displayed. However, the displayed message did not display the time values, making is unclear what was wrong. Now, when the user selects a date on the pop-up calendar, the current time of day in the cell is preserved. However, if the date selected is either the start or end of the measure's range parameter, then the time of day is adjusted if necessary to pass validation. This allows the start and end dates to be picked regardless of the current time of day in the cell.	13628443
Classic Client	If a workbook had both elapsed and unelapsed time periods, copying and pasting one cell did not work. Unelapsed periods were being treated as elapsed. Now, the correct elapsed condition is validated and a single cell can be copied.	13630986
Classic Client	When creating a dimension split at an aggregate level and then drilling down, the resulting combined dimension could have a very large position count resulting in an error stating something similar to the following: "DimRegistryException: DimRegistry::addCalendarPositions failed for "xxxx" too many positions (480) would be created for a bit size of 8". Instead of using the aggregate level dimension's bit size, the new logical dimension uses the lower dimension's bit size.	13631976
Classic Client	The Classic Client did not have the copyright date updated to include 2012. This is updated.	13635715

Affected Component	Fixed Issue/Defect	Defect Number
Classic Client	The client was unexpectedly shut down when hiding a dimension created by a logical hierarchy in a dimension split. This was caused by trying to access data from a null node. The user is now able to hide the dimension created by the logical hierarchy.	13724396
Classic Client	The cut, copy, and paste keyboard shortcuts did not work when editing a cell. The application had accelerator keys defined that map Ctrl-X, Ctrl-C, and Ctrl-V to cut, copy, and paste menu commands. These commands were processed instead of cut, copy, or paste within the cell edit. The client now checks if an edit control currently has focus. If so, the command (that is, Ctrl-V, Ctrl-X, or Ctrl-C) is forwarded to the edit control instead of passing the command to the server side operation.	13815883
Classic Client	An error similar to the following was seen when building any workbook: "Cannot find rollup[XXXX]. Using the top dimension [alldimXXXX] instead." Workbook rollups were not getting found when building the workbook. The reason was due to a case mismatch on the client. The rollups for a dim were stored in lower-case in the client, while what was getting passed to the client was mixed-case. As a result, the rollup info was getting lost. The case for the dim name is changed to lowercase so that rollups for the dim can be brought into the workbook and workbooks build correctly.	13871239
Classic Client	When sorting measure data that has a Special Value set for the NA value, an error occurred when trying to sort this measure as there was a mismatch in the data type. The sorting code has been updated to use the measure's NA value instead of the special value. Now the sort should execute without errors.	13871444
Classic Client	Scrolling in a wizard screen did not work when there were more than approximately 32,000 positions. Once the user went beyond this range, the scroll would reset to the top position in the list. This issue is resolved and the proper scrolling should occur even if the number of positions is a large number.	13894503
Client Classic and Fusion	When locked cells are present in a worksheet, the calculation process takes significantly longer than when they are not present. The cause was that for each calc operation, the window context got relocked. This can be optimized by caching the previous context and only performing locking if the context changed. The user should see an improvement on calculate when cells are locked in a worksheet.	13940800
Commit ASAP	The commit status for a workbook was lost when the commit success/failure queue grew to more than a thousand entries. The reason was that the commit queue was hardcoded to only keep 1000 of the recent entries. Two environment variables are added, RPAS_COMMIT_SUCCESS_MAX and RPAS_COMMIT_FAILED_MAX, to control the maximum number of entries to be kept in the respective queue. If the variable is not set or has a value of 0, then the default of 1000 is used.	13701286

Affected Component	Fixed Issue/Defect	Defect Number
Commit ASAP	When a Commit ASAP task finished, it attempted to delete the snapshot workbook. This involved both removing the workbook from metadata and deleting the directory. However, if another process had the metadata database locked, a warning was logged and the workbook was not deleted. The Commit ASAP task was then marked as succeeded. The problem was a result of contention due to workbooks being built. The resolution is to close all databases during workbook build before building the workbook statistics. The building of statistics does not need any databases and can take significant time on a busy system. Commit ASAP also uses a longer timeout when accessing the metadata. These changes should significantly reduce the chance of the problem occurring. However, it cannot be completely eliminated.	13884940
Configuration Tools	Users received an incorrect validation message when attempting to add a double quote character to a measure description. The message stated that descriptions could not contain double or single quotes when only double quotes are disallowed. The validation message are altered to remove references to single quotes as they are not an invalid character for measure descriptions.	8968532
Configuration Tools	Users could become confused about the expected behavior of measures within the RPAS Client. This confusion was caused by the fact that the measures were configured with a spread type of NONE. This spread type is meant to be used primarily with certain special aggregation types (recalc, hybrid, popcount, ambig, and ambig_pop). When used with other agg types (that is, Total), the behavior of the measure can be different from expectations within the RPAS client. In order to prevent confusion in the future, there is now a validation within the Configuration Tools that alerts the user that a measure has a configured spread type of NONE when not using one of the special aggregation types. This validation takes the form of a warning that informs the user that the combination of spread and agg types could result in unexpected behavior in workbooks.	9667273
Configuration Tools	Users of the rpasConfigMgr utility noticed change records that should not appear in the change log. As a side effect, those contents would be improperly removed from the target configuration when the change log was applied in the merge operation. An error in the change detection would report that a labeled intersection with a scalar intersection definition would be reported as the deletion of the labeled intersection even if both the base and mod configurations had a scalar intersection for the labeled intersection. The utility now properly detects the fact that label intersections with scalar definitions are not changes. No change record is created and the attribute is not deleted.	11789770

Affected Component	Fixed Issue/Defect	Defect Number
Configuration Tools	Closing a configuration when there was an active edit session in the measure component tree in the Measure Tool would result in the loss of the edit. The tree was not ending the edit session and so the new value was not processed prior to the close event. The tools now explicitly end any active edit sessions within the tree before processing the close action and saving the configuration.	12617977
Configuration Tools	Users experienced unexpected rejection of what should have been valid candidates for names within the hierarchy tool. Under certain circumstances, the name validation package within the tools could get out of synch with the data model. This resulted in the package thinking one or more names were in use when they were not. As a result, when the name was entered, it would be rejected as duplicate even though no actual member of the data model was using the name. The act of changing the RPAS name of a hierarchy did not update the naming validation package. This caused the out-of-synch behavior of the tool. Changing the RPAS name of a hierarchy now properly updates the naming package.	13019572
Configuration Tools	Users would experience problems attempting to set a label measure for a dynamic hierarchy. The UI would not process the change and, as a result, the field in the dynamic hierarchy panel would not update when a measure was selected. Changes to the event handling code within the dynamic hierarchy table have resolved the update issue. The cell now properly re-paints with the newly selected value.	13243916
Configuration Tools	Users of the RPAS Client would experience an error when running custom menu items. The custom menu item argument field contained spaces which caused the problem. Additional validation is added to the Configuration Tools custom menu item argument field to flag the value as invalid if it contains whitespace.	13246971
Configuration Tools	Rules that contained a reference to the root dimension of a hierarchy within a dimension specification would fail rpasJni validation even though correct. The hierarchy registration process has been modified to allow the correct registration of hierarchies. Use of the root dimension of a hierarchy no longer causes dimension specifications to be incorrectly flagged as invalid.	13258510
Configuration Tools	Specifying a range for a date measure was not resulting in the range being applied to that measure. The configuration tools were accepting range values of either 8 or 14 digits. When users entered a 14 digit value, the lack of specification for milliseconds was resulting in a value that RPAS could not use and so it was discarded. The tools now validate that the range values for date measures are either 8 or 17 digits. This results in values that RPAS can use and are applied within the client.	13360109

Affected Component	Fixed Issue/Defect	Defect Number
Configuration Tools	When importing a workbook template through the plug-in API, the workbook group label was not being properly imported. It would always be set to "EMPTY GROUP LABEL" regardless of the value in the imported template workbook. When importing the list of attributes for a workbook, the plug-in framework was skipping the workbook group label. This omission in the list of workbook attributes prevented the property from being set. The plug-ins now properly import the workbook group label as part of the workbook import process.	13360491
Configuration Tools	When users performed the delete rule action with more than a single rule selected, they would notice that the delete rule operation would only target a single rule in the selection and not all of them. The delete rule operation was only ever intended to apply when there was a single selection. There are subsequent dialogs which would not work when trying to take multiple rule inputs. The error was that the Delete Rule menu item was not properly disabled when there was a multi-select. The Delete Rule menu item was disabled when there was a multi-select. The delete operation within the toolbar is now disabled in this circumstance.	13361519
Configuration Tools	Users reported difficulties in editing position query names. Upon double-clicking on a position query name to begin an editing session, users would receive a validation error message pop-up and the edit would be canceled.

A focus issue was resulting in the edit session being ended as soon as it began. Furthermore, the validation engine did not take into account the fact that the position query being edited was the one causing the duplicate name (that is, the name PositionQuery0 is not duplicate when the pos query named position query 0 is the one being edited). As such, ending an editing session in which a name was not actually changed resulted in a false duplicate name pop-up.

The focus issue is corrected. Users can now initiate edits on position query names as expected. Furthermore, the validation engine has been updated to prevent pop-ups when an editing session ends without changing the name of the edited position query. | 13419091 |
| Configuration Tools | Users expressed concern that the displayed values for cardinality and reindex threshold for the user and lang dimension might result in confusion for the user. The dimensions in question are not configurable. They are RPAS internal dimensions. However, the dimension table displays them as having the default values of very small and 25, respectively. The presence of values for these dimensions might lead users to think those values could be configured when they cannot. The cardinality and reindex threshold fields now display as blank for the user and lang dimensions. | 13447163 |

Affected Component	Fixed Issue/Defect	Defect Number
Configuration Tools	Users would experience exceptions within the Configuration Manager when attempting to merge configurations that involved the addition of styles to one of the modified configurations. The reason was that one of the checks was not properly written and would result in an exception when checking for the deletion of the parent of the newly added style. The tool is updated to perform the check properly and the exception no longer occurs.	13623647
Configuration Tools	The Configuration Tools did not validate for the appearance of the level modifier on the left hand side measure of a recalc expression. This is not a valid expression, but users of the tools received no warning. An explicit check for this condition is added to the additional validation steps that are performed within the Configuration Tools. This condition is now caught and an error is generated for it in the UI and tasklist.	13690807
Configuration Tools	When using the Configuration Manager, users experienced a NullPointerException when processing collisions as part of the merge process. The presence of an empty refresh rule group list in the workbook being processed was not anticipated. The Configuration Manager now checks for a null refresh group string before attempting to process the refresh rule groups. When this occurs, the algorithm handles it correctly without an exception.	13717950
Configuration Tools	Using the Configuration Manager to process changes to dimensions that invalidated the starts and label starts of the dimension of a hierarchy (that is, inserting a new dimension or changing the width property of a dimension) did not update the starts and label starts of the dimensions of that hierarchy. Although the triggering change was correctly applied, there was no check to determine if the applied change would invalidate the starts of the dimensions in that hierarchy. The Configuration Manager now checks to see if it should trigger a recomputation of starts for dimensions. When a change could require this, the Configuration Manager now updates the starts of all dimensions in the hierarchy.	13717968
Configuration Tools	Attempts to use the Configuration Manager to manage changes that involved re-ordering the hierarchies would not result in the output configuration showing the new order. Although the Configuration Manager was properly updating the order attribute, it was not properly using that information to change the index order of the hierarchies in the configuration. When the output configuration was loaded, the old index order would remain. The Configuration Manager now explicitly re-orders the data model when new hierarchies are inserted or when the order attribute of a hierarchy is changed. This results in the changed hierarchies reflecting the new order in the output configuration.	13717985
Configuration Tools	The copyright information in the Configuration Tools was not updated correctly to indicate 2012. This is updated.	13789558

Affected Component	Fixed Issue/Defect	Defect Number
Configuration Tools	When attempting to save a merge operation from the Configuration Manager, users experienced an exception that prevented the save from working. The reason was that the tool was attempting to initialize the default save location based on a resource that had been freed, resulting in a NullPointerException. The Configuration Manager now makes use of a different resource to determine the default save location. The new resource does not get freed and the NullPointerException no longer occurs.	13856808
Configuration Tools	Users of the Configuration Manager could initiate a merge operation without providing paths to the configurations to be merged. If one or more of the input configurations were not specified, the application would enter an unstable state when attempting to process changes. This would result in partially rendered screens and unresponsive controls. There was no check to make sure that paths to configurations were specified before beginning the merge operation. The Configuration Manager now validates the paths have been specified for each of the input configurations. If one or more is not specified, the Configuration Manager does not allow the user to proceed with the merge.	13909744
Configuration Tools	Rules that contained the elapsed keyword were incorrectly marked as invalid. The validation message stated that the measure "r_elapsed" does not exist in the domain. This was a result of the move to integer indexing that made the name of the internal measure to be all lower case instead of previously being in all upper case. The change in case caused the measure to not be recognized. The check for r_elapsed is now case insensitive which results in correct validation.	13958024
Configuration Tools	Users were allowed by the tools to enter names for workbook only dimensions that were longer than four characters. These longer names were not properly handled by the server. Anything longer than four characters was being removed from the dimension name which could create issues with uniqueness. The tools now validate workbook only dimension names as RPAS dimension names and values longer than four characters are flagged as invalid.	13963055
Contention	Workbook calculations were causing the wbdata database to be locked. If calculations were long, this could lead to locking out other users who actually needed access to wbdata. The process is updated to not require the use of wbdata unless absolutely necessary.	13407747
Convert Domain	When running the convertDomain utility, trash_xxx directories under the user directories were not converted. Since arrays in these directories are not functional and are not used in any operation, they are not going to be converted. The convertData utility now filters out these directories and ignores all files.	13481067

Affected Component	Fixed Issue/Defect	Defect Number
Convert Domain	When patching a domain from release 13.2.3 to 13.3.X, the "day" dimension position format did not get converted to lowercase after users converted the domain. The diminfo array output for the day dimension did not include a lowercase d. A new upgrade module is added that converts all position formats to lowercase. The lowerfunction only converts non-escaped characters to lowercase. All escaped sequences are not changed.	13728808
Convert Domain	When converting a domain from 13.2.3 to 13.3.0 or later, the following error may have interrupted the convert process: DimensionException: Position 'xxx' does not exist in dimension 'yyyy'. This error was thrown when converting dynamic attributes. Dynamic attribute data contains a list of measure and intersections in a string. The string value can go out of date. The convertDomain utility should continue and ignore this error. The convert logs need to be checked after conversion for a list of arrays that were not able to be converted. A message is added at the end of the convertDomain process to remind the user to check the logs.	13815004
Convert Domain	Informal and formal position status of positions got switched during convertDomain. The cause was that the list of informal positions was not correctly calculated. This issue is resolved and the positions are correctly converted.	13956940
Convert Domain	The convertDomain utility did not set the local domain path correctly when there was only one subdomain in a global domain environment and the path was set to use absolute paths. During array conversion, it stored the value to the NA cell when the array had only one cell. This caused the populated iterator in convertDomain to fail in getting the path. The process is updated to rebuild the r_subdomainindex array based on the r_subdomainpath array.	14064386
Convert Domain	The copyDomain utility failed whenever a subset of the global domain was being created using the clone option. The sub domainpath and index arrays were not updated and used accordingly during clone operations. Also, the sub domain path's partition dimension was converted to a standalone dimension. The partition dimension is changed in the sub domain path array to standard dimension. All code is removed that tries to manipulate that dimension during clone operations. The utility should now run without errors.	13539546
Copy Domain	The copyDomain utility was supposedly deleting workbooks at the end of the copyDomain process when used with the "-copyWorkbook none" option. This was a bug due to a misleading log statement. The utility was not actually copying over all the workbooks to the destination domain. copyDomain is fixed to not attempt to delete workbooks when a user has tried the "-copyWorkbook none" option. This prevents the misleading log message "Destroying all workbooks" at the end of the process.	9908229

Affected Component	Fixed Issue/Defect	Defect Number
Copy Domain	The copyDomain utility was not working correctly with using the XML file and clone option. It would not copy the master domain data. The domain pointer was not set back correctly before calling mapData. This is updated and the data is copied for the master domain.	14026985
Copy Domain	The copyDomain utility corrupted the master pointer in the destination's subdomains. The master pointer from subdomain to master was not correctly set. The pointer is now regenerated for each subdomain by the copyDomian utility.	14032620
Copy Domain	The copyDomain utility with the clone option would not correctly copy the domain when there were informal positions in the non-cloned domain. For example, if the user only wanted to clone ldom1 but there were informal positions on the partition hierarchy in ldom2, the utility did not copy the domain correctly. The copyDomain utility relies on loadHier to do clean up of the positions. However, loadHier did not purge informal positions. If these positions were in another subdomain, loadHier would not correctly detect which subdomain to clean and purge. This would render the destination domain as invalid. The process is updated to pre-purge the position before loadHier. The copyDomain process works correctly.	14081341
Cygwin	Running scripts from a custom menu under Cygwin was not consistent with MKS. In some scenarios, the script would not even be executed. The Windows interpreter cmd.exe needed to be passed the shell name with which to execute the scripts when started from Cygwin. To make the behavior consistent with MKS, code is changed to selectively under Cygwin set the menu action from "*test.sh" to "* sh -c test.sh". This does not require any changes on the domain or configuration.	13826800
Dimension Splitting	Creating a dimension split failed after adding a new DPM position. The user received an exception similar to the following: "Dimension Exception: Position '' does not exist in dimension 'xxxx'." The reason was that the dynamic attribute used for splitting is updated only when the source measure has been updated. It was not updated after a DPM position was created. Now, the dynamic attribute is not updated and can be used by the dimension split.	13724100
Domain Build/Patch	During a domain build with rpasInstall, if the environment variable RPAS_PROCESSES was set to a value greater than 1, the process would try to register/unregister measures in multi-process mode. However, measure data has been centralized and multi-processes are actually trying to access the same database. This threw a database lock timeout exception causing the installation to fail. Since measure data is centralized, there is no need to do this in multiple processes. This is corrected.	13899111 13943153

Affected Component	Fixed Issue/Defect	Defect Number
Domain Utilities	When running the copyDomain utility with the clone option, an exception was thrown and interrupted the cloning process and the domain was not copied. The exception would state something similar to the following: "copyDomain failed: Caught std::exception!basic_string::append." The cause was that there were labels or position names that were longer than the specified length within the defined dimension properties. In the cloning process, it called loadHier to trim down the domain using a fixed-width input file. However, if the name or label was longer than the specified width, the utilities tried to append a negative value and hence threw an exception. The process is updated so that a comma-separated file is created for the loadHier call instead of a fixed-width file. This correctly handles issues with oversized names and labels.	13814180
DPM	When trying to add a DPM position on the product hierarchy after a dynamic hierarchy had been added, the user got an error stating that DPM is not supported in the master domain workbook even though the user is logged into the local domain. At the time of creating a dynamic attribute, the process's current domain is internally set to the master domain and is not reset back to the local domain. The process is updated to internally restore the domain back to the current local domain. The user should no longer see any exceptions when attempting to add a DPM position after adding a dynamic hierarchy.	13703479
DPM	An illegal position name error was displayed when an informal DPM position name was modified. When the informal position was modified, the old dimension registry was renamed with the new position name. When setting the label for the position in the language database, the old cached position name was used instead of the new position name. The dimension registry cache is now reset after renaming the informal position name in the dimension registry. Now, the user does not encounter the error message.	13854506
Dynamic Hierarchy	During a workbook build for a template with dynamic hierarchy, it was possible that the server threw a position does not exist exception even though the position was specified in the measure array. This was caused by a user specified mix-case position name. The mix-case position got inserted to the dimension and had a problem reading the map correctly since all positions should be in lower case.	13465307
Dynamic Hierarchy	When the workbook hierarchy was not a subset of the domain hierarchy due to hierarchy modifications and there was a dimension moved from one branch to another, an exception was thrown regardless of whether there was an issue with the data or not. This was caused because RPAS could not determine the dimension status for the dimension that was moved from one branch to another. Now, the user is able to build the workbook without error.	13492618

Affected Component	Fixed Issue/Defect	Defect Number
Export Data	When the exportMeasure utility was run to export data at an aggregate level over a workbook, the first run exported the data correctly but the same command run a second time did not export any data. The utility created an aggregate array during the first run and cleared the values after the successful export. The second run of the utility reused the aggregate arrays, but did not perform the actual aggregation. Since the arrays were previously cleared, no data was exported. The exportMeasure utility is updated to re-do the aggregation on every call and now exports data consistently.	13655933
Export Data	The exportData utility failed when run with both the -params and -processes options. When the utility was run with the -processes option, parallel processes were launched with subdomains as their domain path. The parameter array tried to be restored from the subdomains but this array did not exist in the subdomains, hence the failure. Only string type scalar measures are allowed as parameter arrays for exportData, so the format is only stored at the master domain level and the user can now export the data properly.	14027701
Functions	Certain expressions that use cell value as a lookup against a dimension are case sensitive, leading to invalid data in the output. Position names are expected to be in lower case. The following functions are updated to have the comparison be case-insensitive: ■ lookup: fixed to be case insensitive ■ flookup: fixed such that the position name supplied can have mixed case ■ index: verified that it is case insensitive ■ transform: fixed and verified to be case insensitive	13805640
Fusion Client	When saving a chart with its size set to Current Size, the resulting *.PNG file was zero bytes in size and did have any data in it. This is resolved.	9259347
Fusion Client	The last searched position was being retained in the single hierarchy select search dialog. The query model is now being cleared after the search dialog has been dismissed.	11064684
Fusion Client	In the open workbook dialog, the server returned the current user name instead of the workbook owner name. This error is resolved.	12313886 12427921
Fusion Client	After blanking out the scaling parameters in the Page Setup dialog, a null pointer exception error was thrown. Blanking out the values caused the values to be set as NULL and parsing them threw the error. The client is changed to use default values if the values have been made null by a user.	12339838
Fusion Client	After performing a Save As within a workbook, calculations were writing directly to the newly saved workbook. This was because the workbook was not correctly opened. This open workbook is corrected and data is not directly written to the workbook.	12344654

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client	A null pointer exception error occurs when attempting to open a saved workbook because the workbook formatting had a saved measure position not existing in the built workbook. Therefore, an exception occurred when attempting to scroll to the non-existing measure position. A validation check is added to verify that the position users attempt to scroll to, is a valid position.	12661418
Fusion Client	The workbook label was not reflecting a change made when it was relabeled in the Save As dialog. This is corrected.	12765491
Fusion Client	The commit status was not being updated correctly if the commit was run as part of a custom menu. A fix is made to the Fusion Client to check the submission date of the last commit status queue record. If the submission date before and after the custom menu execution ID is different, the Fusion Client starts the polling to determine the commit status to display in the tool bar area.	12789379
Fusion Client	The application ran into an exception when all values of a data attribute used in a level split were NULL. The RPAS Server returned NULL date as '010100010000000' value. For cell and attribute values, this was mapped as NULL. But when an attribute of date type with value NULL was used for the level split, the server ended up sending the split position label for it as '01010001000000'. Since the attribute value and the split position name did not match, split filtering ended up with no valid rows; showing the no data to display message. The situation with the NULL date as described is resolved.	12847885
Fusion Client	When page scroll buttons were clicked fast, at times the pivot table data did not reflect the current page selection on the page edge. Post page scroll, a pivot table refresh was requested. When a new refresh request coincided with a current in-progress refresh, the pivot table seemed to ignore the new request. The page edge is fixed to ignore the scroll requests when the pivot table refresh is in-progress from the last scroll.	12944270
Fusion Client	Undefined rows shown when levels higher than a split level were displayed in outline mode. The algorithm to identify valid rows handled multiple splits incorrectly and ended up flagging undefined rows as valid. The client is updated to associate the base dimension and the split dimensions together and use them as related groups to identify valid rows.	12972656
Fusion Client	Issues were found when trying to select multiple measures in the measure Show/Hide dialog. When multiple measures were selected from the available list, the user tried to drag and drop them to the visible list into a desired spot where they wanted them to appear. Only one of them displayed in that spot and the other measures appeared at the bottom. This behavior is updated so the measures are inserted in the correct spot.	12987631

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client	For a hierarchy that has multiple branches, the branch ordering on the Dimension popup of the two-tree wizard changed after a level was selected and the dialog closed and re-opened. The order was changing based on the user selection. The order of the dimension branches is now alphabetical and not based on the user selection.	13011010
Fusion Client	The application ran into a no data to display error when editing a cell and then immediately clicking on a step in the task flow. This condition is resolved.	13013803
Fusion Client	The error dialog when exporting more than 200,000 cells was automatically dismissed when the user tried to export using File > Export. The dialog waits for the user to dismiss it if a quick Export is done from the toolbar. This is updated so that the error dialog remains until dismissed by the user.	13022531
Fusion Client	When an attribute column in the client was blank, the exported file loaded into Excel would hide the column. This is corrected to still display the column in Excel.	13022537
Fusion Client	The print/export of data was using hardcoded data cell formatting and not using the styles from the PivotTableStyles.properties file. The print/export now uses that file for data cell formatting.	13050755
Fusion Client	Three issues related to the Find functionality in the wizard are addressed: 1. The Find functionality did not circle through the search after the search was complete, meaning it did not start over again. 2. The Previous and Next option in the Find functionality did not work correctly when a new value was searched by in the same search window. The search seemed to behave randomly. Find now picks up the newly entered value and starts the search from the current selected row. If no row is selected, Find starts from the first row. 3. Find next did not scroll to the new search result after a previous result was added as selected (by clicking Add). All three scenarios are fixed.	13077023
Fusion Client	The lock for a position was not reflected if that position was in the page edge. This is corrected.	13092747
Fusion Client	When performing a search and the search string is the first element in the pivot table, subsequent searches of the same string would always highlight the first occurrence of the searched string. This is updated so the user is able to run subsequent searches successfully.	13262193
Fusion Client	The user was not presented the Alert Worksheet Selection dialog box to select which worksheet to add the alert. This dialog is once again displayed to the user.	13366051

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client	The measure range for a measure was not being enforced when the current value was ambiguous. In the validation of the new value, the previous value was checked. The previous value was null or unset. The validation was not performed in this case. The range is now checked when the previous value is null.	13372277
Fusion Client	Clicking on open existing workbook threw a Null Pointer Exception from the homepage in a simple domain environment. This is resolved.	13475913
Fusion Client	When a workbook was saved by performing a save as with an edit pending and protection processing in place, it caused a no data to display error. The protection processing partial updates should not run during save as processing. The client now prevents this partial update to the pivot table because it does a full pivot table refresh. Users now see the workbook page instead of the no data to display error.	13480761
Fusion Client	When a user tried to create a workbook for a task with multiple steps, the user was not taken to the first step when created at the task level. This was the case when building the workbook while in another open workbook for the same task. The user would be taken to the same step instead of the first step as expected. A new workbook is now opened at the first step since it was built at the task level.	13497808
Fusion Client	On the Fusion Client, committing the Security Admin workbook cased a DimRegistryException on a global domain with translation. This was caused by the Fusion Client using commit ASAP instead of commit now. If translation is turned on, dimensions that are translatable have an associated r_xxxlabel measure created. The copy workbook function, used when creating a commit ASAP entry, needed to find all paths for the measure and needed to load the partition dimension. However, the Security Admin template only has hierarchy, but not dimensions within the hierarchy. Loading the partition dimension in the workbook caused the dim registry exception. Now, the partition dimension is forced to be included in the workbook that is built. This also includes dimensions above the partition dimension. Also, measures are filtered that do not exist in the original workbook during the copy for commit ASAP. This filters only the template system measures.	13539318
Fusion Client	Certain admin workbooks that were only supposed to be available in the master domain of a global domain environment were available in the local domains. When tried to be built in the local domains, users would receive an error. These workbooks are now correctly not allowed from the local domains.	13594403
Fusion Client	The dimension popup dialog was shown for the last selected window instead of the window where the tile was clicked, if that was the first operation on the new window. This is corrected to first set the selected window and then bring up the dialog.	13604536

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client	Certain RPAS administrative workbooks (like Security Administration and Translation Administration) were available to end users in a local domain in a newly built 13.3 domain through the Fusion Client. Users received an error when trying to access these workbooks. This was because the templates upper case template names were used and not updated to all lower case, as they should have been because template names are all lower case in 13.3.X. The Security Administration and Translation Administration workbooks are not available in local domains.	13614289
Fusion Client	The find previous option did not pick the new search value unless find next was performed first. The find previous was dependent on the find next to set the search text. The find previous functionality is fixed to pick up any changes in search text.	13623981
Fusion Client	On first tab navigation, drag-drop did not pivot-swap dimensions on the page edge. This was due to incorrect handling of the internal ID for the source and target tiles. The Fusion Client is updated to correctly update the tile IDs and allow for this pivot to take place.	13642448
Fusion Client	When going to fill a numeric cell, the value was not fully selected when navigating from the measure selection to the value text box. This meant that there were extra steps required to edit the value since the default value is 0.0. The client in most other causes would highlight the value. Now, a user can navigate from the measure selection to the value text box and the value is highlighted.	13647061
Fusion Client	Measure column widths were not getting persisted to saved formats nor recognized as part of the workbook open. The Fusion Client was not fully tracking column header width settings for measures from the format settings nor reading them back correctly. The client is updated to correctly maintain and send cell sizing information for measures to the server.	13650402
Fusion Client	The delete workbook confirmation message was badly phrased and missing a space between two sentences. The message is changed from "Deleting these workbook(s) will permanently remove it.Are you sure you want to delete?" to "Deleting will permanently remove the workbook(s). Are you sure you want to delete?".	13656396
Fusion Client	The selected positions in the Hierarchy Maintenance workbook wizard were remembering the previous selection and confusing the user since the selection on the server was different from what was reflected in the UI. This was seen when a user would cancel out of the wizard. When going back into the wizard, the selection was displayed as the one made when the wizard was canceled and not the one that was used for the last workbook build. This was incorrect. The client was not updating the selection based on the server values and was instead persisting an invalid selection list. This is updated to always refresh each time the wizard is launched.	13682788

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client	Clicking on the page edge scroll immediately after doing an export to Excel caused a NullPointerException. The client is updated to handle this situation.	13682801
Fusion Client	In the Open Workbooks dialog, using the Find functionality would not highlight the workbook that was found. This is corrected so that the workbook that is found is highlighted and can be directly opened.	13683491
Fusion Client	For Auto Workbook Maintenance, the user was allowed to enter any input for the build label. The build label is used as the name of the workbook that will be generated. Quotes cannot be used in a workbook name, but the client allowed them to be entered. This input is now validated to ensure it meets the workbook name requirements.	13731227
Fusion Client	The warning dialog did not get dismissed when there was an error while deleting workbooks. This is corrected.	13736212
Fusion Client	Users received a null pointer exception when trying to open a Measure Analysis workbook when there were no workbooks present. After getting a message stating that there are no workbooks and asking whether they would like to create one and selecting Yes, they would get the exception. The admin flag was not being passed to the new workbook and it tried to retrieve the template name from the selected item which was null. The admin flag is now passed and the wizard is displayed instead of an error.	13738484
Fusion Client	The find alert did not work properly if positions were hidden or added to the view while running the find alert. Alert hits were stale when new positions were added or existing positions were hidden. Alert hits and current search index are cleared and reloaded in this situation.	13790172
Fusion Client	When anything in the workbook had been modified, the Revert menu item was being enabled. Even after executing a Revert, the menu item remained enabled. It should be based on data changes since the last save. Data edits were not being tracked separately from other edits like formatting changes, locks, and so on. This is updated and the Revert option is only enabled when the data in the workbook is changed.	13797372
Fusion Client	The application threw an exception when all the values of the string attribute in level split had NULL values. The split filtering matched attribute values against the split position label to identify invalid rows. When NULL and the position label was defaulted to the internal name, the filtering did not find any match and ended up with no rows, leading to the error. The client is updated to handle this empty label scenario.	13797778
Fusion Client	The client would allow a user to create an exception format with just clear styles, which was confusing. For exception formats, clear styles means to leave the cell's original formatting unchanged. While this is useful for some styles for a condition, it is not useful to have all styles set this way. To avoid confusion about how this works, the Apply button is disabled when all of the styles for a condition are clear.	13807848

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client	If a user did not select the workbook template in the alert manager wizard, the client would throw an exception and crash. By default, now either the last workbook selected is pre-selected or the first workbook is pre-selected if going through the wizard for the first time.	13816503
Fusion Client	If a user saved a favorite in a wizard with User privileges, they could not update the privileges to World. When trying to do that, the favorite would stay as User. This is corrected.	13825597
Fusion Client	When errors occurred in the communication with the RPAS server, the exception stack trace was printed out but did not have the name of the user whose session encountered the error. This information is added. Also, information is added (at the log4j info level) that indicates when users log in and log out of the client.	13829811
Fusion Client	In a two-tree wizard, the Find value entered in the left panel (Available Items) is carried over to the Find value in the right panel (Selected Items) after selecting Add All. It is expected that when Add All is selected, only positions get copied over to the right side, not the find value as well. This is corrected.	13852083
Fusion Client	The Fusion Client allowed an informal position to be added to a locked position. This should have been prevented. The user cannot add/modify/delete a locked position. It does not prevent DPM operations with locked positions.	13859169
Fusion Client	Windowing implementation ignored the minimized state of the windows while selecting the current window, leading to incorrect window selection. For example, if the last step you performed before saving and closing the workbook was to minimize a window, that window would be the active window when re-opening the workbook even thought it is minimized. This is corrected.	13868194
Fusion Client	When a session timed out in one session, another session would also be affected. In this case, the second session that did not time out would receive an message stating "unable to connect to data store." Now, the first session correctly times out and does not affect the second session.	13893236
Fusion Client	While selecting positions in the select domain screen, the table listing the positions jumped up and down while trying to repaint. The repaint of the table is removed. The user can now only select/unselect position by clicking the checkbox.	13893537
Fusion Client	The user was unable to open any admin workbook when given access to only templates under the Administration activity. The admin workbooks did not have step information and the application was trying to set the step and returning a null pointer exception. This step is skipped for admin workbooks and the user can open the workbook.	13909802

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client	An exception was thrown when opening a workbook with a saved chart within the format. The workbook would load only half way and then the exception would be displayed. This was fixed as part of ADF patch 14682197.	13932468
Fusion Client	The Paste Special option was enabled after the user performed a Copy or Cut. This option should only be enabled when a Copy Special or Cut Special is performed.	13933794
Fusion Client	When a workbook build resulted in an error, the error flashed on the screen and the user was taken back to the previous page they were in. The navigation to the previous page caused the error to get dismissed too quickly. An error page is now displayed as a popup and requires the user to dismiss it before the previous page is reopened.	13946943
Fusion Client	The user was unable to save the fact that the active alert in a workbook had changed. This was because the save button was not enabled due to the fact that the Fusion Client did not recognize that a change was made to the workbook. A new transaction is added to enable the save button when the active alert is changed.	13951156
Fusion Client	Opening a file that was exported to Excel that contained ambig cells that displayed the ambig character '?' would cause an error in Excel when opening saying there was an error in parsing 'Table'. This was because the cell type for Boolean, float, and integer measures to number. However, the aggregate value was a question mark and Excel did not like that. Logic was added to consider the ambig status when determining the Excel cell type. If it is an ambig cell, set the type to string instead of number. Users can now export with ambig data in a workbook.	13955908
Fusion Client	Reverting a workbook and committing it was causing an exception. This issue is resolved.	13967237
Fusion Client	Page scroll did not honor layer-based scrolling based on current selected layer. With a split on the page edge, it just scrolled to the next valid slice. The algorithm is fixed to honor layer-based scrolling.	13979496
Fusion Client	Navigation to the find dialog from the page edge with level split threw a null pointer exception. This issue is resolved.	13979840
Fusion Client	The Undo sort option in the context menu was enabled when there was nothing to undo. If the user selected this option, a null pointer exception would be thrown. This option is now correctly disabled in the context menu when there is no sort to undo.	13980004
Fusion Client	Two errors appeared while opening a workbook already opened by another user instead of just one error. Opening of a workbook threw the exception which was handled and caused the code to continue causing the other error to appear. The code is changed to re-throw the error instead of handling it and show an error popup instead of adding a message to the page. The close of the popup takes the user to a safe state.	13981740

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client	Position display in the pivot table got unpredictable and incorrect when the expand/collapse feature was used with a split on the y axis. The mapping rebuild was missing after the expand/collapse. The y axis mapping instance is now cleared so that a new instance is created when performing the expand/collapse.	13983936
Fusion Client	There was an issue with hierarchy protection processing where read-only styles were not getting applied immediately to protected cells when data in the pivot table was edited. When the pivot table was edited, the full refresh on the pivot table was not working. Now the entire window is refreshed including the page edge, pivot table tool bark, and pivot table.	13986647
Fusion Client	Clicking View All under the Save As dialog threw an exception. This issue is resolved.	13995535
Fusion Client	The user received an error message when cancelling the open workbook dialog when they were currently in an unsaved workbook. The workbook path was null for the unsaved workbook and clicking cancel tried to read the domain path from the workbook path object causing a null pointer exception. Now, the user should not get the exception.	13995701
Fusion Client	After copying a view and then changing the view, the wrong data would be visible on the screen. The dimensions inside the worksheet view had incorrect references to the original view after the copy. The correct reference to the worksheet view in the dimension is now made. The issue is resolved.	13995885
Fusion Client	When using Windows 7 and the Chrome browser, sometimes the window buttons would disappear. After a restore or other window action, not all window buttons would appear as they should. A minimum width is added to the toolbar containing the window buttons to make sure it is big enough so all buttons can be displayed.	13997413
Fusion Client	The measure range validations were not being honored. The client allowed users to edit values above the specified range. The range checking using the measure range was not being used. The range set is now being checked for user-entered values.	14005590
Fusion Client	Entering a double quote in a pivot table string cell edit popup editor would cause an exception to be displayed in the browser. The correct behavior is to display an error message and allow the user to correct the input. Currently, single quote and double quote are not valid inputs for a string measure. The popup editor was not handling the exception that was being thrown when setting the value with an invalid input. A catch block is added to handle the exception and display an error message. After the error message is dismissed, the user can correct the input.	14021883

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client	Values for configuration-defined attributes were not reloaded on calculate or even on the Update Attribute action. Fusion Client only reloads attributes for user-defined attributes on the Update Attribute action. The calculate action does not reload any attribute values. A temporary resolution is added to reload values for all attributes (both configured and user-defined) on Update Attribute action.	14022618
Fusion Client	After upgrading a domain and using the Fusion Client, the Security Administration and Translation Administration workbooks both had errors when trying to build. The error was a data streaming error. When a position was not found in the translation array, it broke the loop instead of continuing. This condition is corrected and the workbooks now build.	14027704
Fusion Client	The row header column was not being displayed at all if the dimension had a user-defined width, but value for the width. This could happen by resizing the column as small as possible in the Classic Client. The Fusion Client was receiving a width of 0 for this row header and therefore not displaying the row header. A change is made to protect against width values that are 0 or too small. The smallest displayed width is now 6 pixels in the Fusion Client and any setting below that is adjusted to 6. This is enough width to see some of the row header and show the resize cursor to adjust the column.	14037166
Fusion Client	While opening or creating a workbook, there was a double refresh of the navigation tree and the windows causing an unpleasant user experience. The refresh methods were doing both updating of the model and partially updating the UI. A flag is now passed to determine if the UI needs to be partially updated or not. While opening or creating workbooks, it is better to do a full page refresh instead of just a partial page rendering, so avoiding the partial updates in those cases.	14050188
Fusion Client	The Fusion Client was no longer doing a partial cell update after a calculate and did a full pivot table refresh. The cache was being cleared before the updated cells were being calculated. The clear cache call is removed. This allows the method to update the cache and produce a list of cells that have changed and need to be updated in the worksheet.	14059747
Fusion Client	Resort on pagination was not working if the sort was on a row header. The code to determine if a sort was applied on page scroll was indirectly assuming the sort was on a column. The code is changed to account for the possibility of the sort on a row column.	14059873
Fusion Client	All cells were shown as undefined when a level split was created on the page edge, even when a valid position was scrolled to post split. This issue is resolved.	14064695
Fusion Client	Changing the name of an informal position in the DPM editor was failing when the dimension had only one level. The informal position was not being set to the correct value in the object that was sent to the RPAS server. The correct name is now set and the operation proceeds without error.	14107897

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client	When a user tried to delete dynamic positions, the client threw a Null Pointer Exception. The context menu was being updated for selected position(s) that were stale. Specifically, when the position name changed or the position was deleted. The lookup for the position would fail because the selection was not cleared before the update. The position is now verified first before it is checked. The order in which the update to the context menu and the selected area are out of sequence.	14117918
Fusion Client / Configuration Tools	Users who configured workbooks and assigned them to the workbook group Analysis would see duplicate entries for those workbooks in the taskflow. This template group is used internally by RPAS to contain system workbooks. The specification of analysis within the configured workbook template caused the server to incorrectly return the configured workbook when providing the Fusion Client with the list of RPAS system workbooks. The Configuration Tools now validates that a workbook cannot be placed with the Analysis, Admin, or UserAdmin workbook groups as they are reserved for RPAS system workbooks.	13350624
Hierarchies	The label for workbook only dimensions did not show up in the client. The cause is that the labels configured in the tools were not propagated to the template formatting. The label is now properly set in the template formatting and seen correctly in a workbook.	13963061
Hierarchy	Workbooks are not getting built after running the reindexDomain utility. The user would get a DimRegistryException error message. The reason is that just before running reindexDomain, the domain hierarchy was modified so that all positions belonging to one of the sub-domains were removed. As a result, the r_ subdomainpath array in the master domain was also modified to reflect the change causing it to defrag. However, when reindexDomain next ran with the -processes option, none of the arrays got reindexed. This condition is resolved. Now, users can build workbooks without encountering problems.	13810404
Hierarchy Loading	An error was thrown when removing a partition level position from a domain. The exception was similar to the following: "Exception: DimensionException: Position 'xxx' does not exist in dimension 'info'." The reconfigGlobalDomainPartitions utility threw this error while removing partition position when the partition dimension was the base dimension. Both the loadHier and reconfigGlobalDomainPartitions utility did not anticipate this scenario. A condition is added to handle the condition when the base dimension is equal to the partition dimension and no error is thrown.	13857189
Hierarchy Loading	The reconfigGlobalDomainPartitions utility had an error in dataMover when moving multiple partition positions to multiple domains with multiple processes. The cause was that when maxProcesses was set to greater than 1, another process was spawned to perform measure data transfer, but the primary process did not close all the metadata before spawning the process. These locks are now all released before spawning the mover processes.	13963389

Affected Component	Fixed Issue/Defect	Defect Number
Loading Data	When loading a measure that had a load intersection above the base intersection, the loadmeasure utility failed with a non-descriptive message. The utility does not support spreading of data on a load so the error condition was correct. However, the message needed to be more descriptive. The message is updated.	13442709
Loading Data	When loading measures with the -datFile option and a rpl file extension, some of the local domains would fail when running in multi-process mode. A blank rpl file was pre-created in all local domains for the sub-processes to know which measure it should clear the data for. However, the splitter process did not refresh the blank file with a header line which is required for the -datFile option. When the sub-processes encountered that blank file, it did not know which measure to clear and threw an exception. Now, a header line is populated for pre-created files.	13558463
Loading Data	When using the loadMeasure utility with the -datFile option to load a scalar measure, the utility threw an exception for invalid dimension. The utility was expecting each record to have at least one dimension. The utility is updated so when there are no dimensions found, it loads the measure as a scalar.	13683170
Loading Data	The loadMeasure utility accepted both the -datFile and -splitOnly/-noSplit options together. This resulted in data not getting loaded. To resolve the issue, an extra check is added to not allow the combination of -datFile and -splitOnly/-noSplit.	13815850
Loading Data	The loadMeasure utility did not move local processed files to the input/processed directory when run with the -datFile option. The utility is updated to correctly move the files to the processed directory as expected.	13852677
Patching Domain	After patching a domain, some measure data arrays were recreated. Some of these arrays were recreated with incorrect dimensionality. These measures had their default agg updated. When this property was added, RPAS assumed that the array at the base intersection needed to be rebuilt, wiping out all data in the process. Furthermore, it was not correctly rebuilding arrays for higher based intersection measures which only exist in the master domain. The process is updated to exclude higher based intersection measures when the current domain is a subdomain and to not recreate the base intersection measure arrays. The data does not get wiped out after patching.	13442899
Patching Domain	Data for measures was cleared after patching a domain when any measure label or description was changed in the configuration. When trying to modify the measure, if the description attribute was mentioned then the suffix arrays were getting recreated. The existing measure array was getting destroyed before creating a new one. A condition is added to update the suffix array only if the defagg is changed. Now data should not be cleared out.	13568490

Affected Component	Fixed Issue/Defect	Defect Number
Performance	A performance issue was found during certain workbook open operations. It was found that during this workbook operation, the language database was being open/closed several thousand times. The open code is updated to restructure the accessing of the language database to reduce the number of times it is being opened and closed. This reduces the workbook open times.	13407661
Performance	Expression optimization picked the incorrect measure to loop over when the index function was the only function in the decision branch of an inner if statement. This caused certain expressions to run much longer than in the past. The optimization is updated and now users should see performance matching previous versions on expressions that contain that condition.	13810686
Reindex Domain	The reindexDomain utility was creating a new dimension registry version when the operation was manually killed. The version number assignment logic was not reading the current reindex status properly. This property got set to true when the reindex started, and if aborted in the middle, would remain as true until a subsequent run went through to completion. Now, the issue is corrected by properly reading and checking the existing version and the reindex status and retaining the version of the previous run that was aborted in the middle.	13498216
Reindex Domain	If an improper argument was specified for the reindexDomain utility, it disregarded that argument, and if the rest of the arguments were valid, it went ahead and ran the utility. All improper arguments are now checked. An invalid argument exception is thrown when such arguments are passed to the utility.	13510930
Reindex Domain	Running the reindexDomain utility with multiple processes after measures had been added or removed caused some of the measure information to become corrupt. This was because the reindex of the measure metadata was not handled correctly in multi-process mode. The reindex utility is updated to reindex the measure data in single process mode before spawning children processes.	13632465
Reindex Domain	The reindexDomain utility was not defragging all of the dimensions when used with a -hier option. This was happening due to a problem that caused some dimensions belonging to a particular hierarchy to not be processed while other dimensions from that hierarchy were getting processed. The reindexDomain is altered to not bypass any dimensions while processing a hierarchy with no dimSpec specified.	13800561
Reindex Domain	The reindexDomain utility was not defragging all of the dimensions of a hierarchy when used with the -hier option and one dimension belonging to that hierarchy needed defragging. The utility was ignoring the fact that with the -hier option, if any dimension belonging to the hierarchy specified needed reindexing, then all the dimensions for that hierarchy must be reindexed. The utility is updated to correctly work in this condition.	13805254

Affected Component	Fixed Issue/Defect	Defect Number
Reindex Domain	Patching a domain may have caused the RULE dimension to run out of space and fail. However, the RULE dimension could not be re-indexed to reclaim lost space. The reason is that RULE is not like other dimensions as they do not have hier and its arrays are non-standard. To ensure rules are matching the configuration, the patch process re-registers all rules in the configuration. The process created holes in the RULE dimension and advanced the ID pointer and eventually ran out of space. The reindexDomain process can now run on the RULE dimension.	14022722
Reindex Domain	The reindexDomain utility put incorrect information in subdomain's masterpath.cfg when the local domain was outside of the master domain. The path to the domain was not calculated correctly. The utility is updated to set the correct path.	14080861
Security	A user was not allowed to view positions within the Security Maintenance Workbook that the user had been restricted to in a previous process or by another user within that workbook. The workbook was incorrectly using position level security to restrict positions included in the workbook. Instead, the workbook should always build with all positions. This issue is resolved.	13532956 10192948
Sorting	The simple sort functionality for ascending and descending was not working. When doing a simple sort, the measure's NA value was not being used even if the Special Value Type was NULL. This is updated and the simple sort is working correctly.	13991134 13946322
Transfer Data	The transferData utility was not working when called with the -processes option set to more than 1 and the source domain path being passed in the command line was not an absolute path. This was happening due to incorrect handling of the source domain path in a global domain setup when run in parallel on a global domain. The utility is updated to always convert the source domain path to the absolute path before passing it to the child processes that are spawned.	13880643
Translation	Russian translation for the term "Commit" was incorrectly translated for many strings. The reason was that commit and save were translated incorrectly in Russian in multiple places. New translations are added to correct the issue.	13370402
Translation	The Position Maintenance option was not translated into Russian. This translation is updated.	14007295
Translation	Some Polish characters were showing up with garbage characters in the Classic Client. The codepage for Polish was not correct. This is updated and new DLLs are created.	14033188

Affected Component	Fixed Issue/Defect	Defect Number
Upgrading Domains	For domains that were converted from previous versions and had measure attributes defined, the default value column in the dimension info array would still remain in upper case. This upper case value later was used to be inserted into the measure dimension array causing some of the measures not being able to rollup to certain attributes. This caused an exception in the Fusion Client when building the security admin workbook. The message would state "Not all positions have valid parents." The convertDomain utility is updated to convert the value to lower case.	13611190
Upgrading Domains	When running the convertDomain utility with multi-processes, there may be a file system error saying that no more file handlers are available. The cause is that within convertData, the source database was kept open until the end of the process instead of closing it after it had been processed. It now closes both the destination and source databases after they have been processed.	13682930
Upgrading Domains	When converting a domain with a style/format that contains the ALLDIM<hier> dimension style, the convertDomain utility throws a ConvertDomainException. The ALLDIM<hier> dimension is an internal dimension and should be filtered and processed differently from other normal dimensions. The convertDomain utility should now be able to convert the domain with a style on the ALL level.	13805620
User Management	When creating a user in RPAS, it was possible to create a user with no user name. When trying to delete this user, an error would be generated stating that the removal of the users database failed. The user creation process is updated to not allow the creation of a user with a blank user name.	13501685
Utilities	The loadHier utility did not remove the subdomain that had all positions purged. This was the case when using the purgeAge of zero when running the utility. This is corrected.	13893255
Utilities	When the user file description ulimit was not set to unlimited, running reconfigGlobalDomainPartitions or copyDomain -clone may have caused a file error. The utilities are updated to close processed measure databases. The problem occurred when it created a new subdomain. Two additional problems are fixed as well. Position names in reconfigpartition.xml are now converted to lower case names to match the names in the dimension. During add, it was possible for users to add a subdomain, but not provide any records in the input data file. The empty domain was not removed at the end. This is fixed.	13935144
Utilities	The convertDomain utility may have core dumped on Unix or Linux machines when updating the styles in a subdomain. Internally, the dimension space was prematurely freed causing an error. The processing is updated to hold the dimension space until styles are updated. Therefore, the utility should no longer create a core dump.	13955286

Affected Component	Fixed Issue/Defect	Defect Number
Utilities	The optimizeDomain utility failed in multi-process mode with a meta.db locking error. During initialization of subdomain processes, the utility held a read lock of the master domain's meta database. This read lock caused the master process to fail. Now, the read lock is released once it has finished the initialization step.	13972184
Wizards	A wizard that contains a ranged set of positions was incorrectly displaying positions that were not part of the pre-range. This would occur only when the ranged positions were empty. Now, a cancel wizard error message is displayed when there are no positions selected by pre-range masking. The user does not see any unintended positions.	13778136
Workbooks	Two access issues are resolved with system workbooks. The first issue was that the security admin template was being displayed to users when logged into a local domain. This workbook should only be accessible via the master domain. The second issue was related to the building of the translation admin workbook. The user would receive an error stating "Not all positions have valid parents." The reason was found to be that an alert category was configured with mixed case in the configuration tools. The mixed case position name should not be allowed. The system now forces the use of lower case position names in the alert category.	13636640
Workbooks	When a user created a workbook and saved the workbook with world access, the workbook was permitted to be accessed by another user before it was closed. The second user should receive an error message stating that the workbook is open by another user. After creating and saving the workbook, the workbook was not getting locked. Now, workbook save internally calls the open function after saving. This locks the workbook so that is cannot be opened by another user.	13967147

Known Issues

The following table contains issues that have been identified for the current release.

Affected Component	Known Issue/Defect	Defect Number
Alerts	The insert alert functionality does not work for non-Admin users in the same workbook where it does work for Admin users.	14196106
Calculation Engine	An error occurs when editing a variance measure as the first edit in a workbook. If another measure is edited and calculated first, the edit to the variance measure does not produce an error.	14164629
Classic Client	Users are unable to resize a hierarchy column on the Y axis in the Classic Client. This appears to occur only when there are two hierarchies on the Y axis, and the user changes the text color of positions within the innermost hierarchy.	9862083

Affected Component	Known Issue/Defect	Defect Number
Classic Client	When using the Classic Client, the Page Setting button does not allow the format of the printout from the Print Preview action. Also, the orientation cannot be changed as the options are disabled.	13459187
Classic Client	After changing the RPAS name of a template through the Configuration Tools and then patching the domain with the modified configuration, the RPAS Classic Client displays two versions of the template.	14091116
Classic Client	When a date measure has a special value type set to User Entered, this means that the date should be entered in the format of YYYYMMDD. This is not happening and the user can enter any format they desire and any random numbers.	14094418
Classic Client	When a user modifies the row height and saves the format to the template, the changes are not saved. When a new workbook is built, the format changes to row height are not taking effect. Column width works, but the row height reverts back to what it originally was.	14107684
Classic Client	While in Outline View, if a user tries to export data from the Client using Export Sheet, the output seems to be incorrect.	14116568
Classic Client	When trying to use the Delete button in a cell, nothing happens. It should return the cell to its NA value.	14163071
Classic Client	When moving some points in the graph, after moving the first point and while moving the second point, the first point moves back to the previous value. After pressing calculate, the first point moves back to the edited value.	14177196
Configuration Tools	The Apply Pattern functionality is exhibiting a number of behaviors that are confusing to the user. In particular, the interaction between this functionality and the rule pooling functionality causes the use of the Use Existing Rule and Create New Rule components to result in the opposite of the expected behavior. The Use Existing Rule results in the creation of a new rule.	13361559
Configuration Tools	The Configuration Tools do not allow the user to add the measure in the workbook hierarchies tab. This makes it difficult to create dynamic hierarchies.	13970989
Configuration Tools	The Configuration Manager merge tool can identify new and modified label intersections, but it does not add or modify them.	14186883
Fusion Client	Large values do not appear with exponential notation. Instead, the exact value is shown.	9218544
Fusion Client	Sometimes clicking on a button in a dialog does not do anything in Google Chrome.	10318422
Fusion Client	When using Google Chrome and the Fusion Client, the calendar popup does not display when users click the Calendar icon of date measures. Users can enter the value manually, but not through the popup.	12338888

Affected Component	Known Issue/Defect	Defect Number
Fusion Client	Several issues have been found with picklist and single hierarchy date selection measures when using the Google Chrome browser. This includes times when the drop down of a picklist measure cannot be selected to see the values. The down arrow is not available to the user because of the size of the column. For date single hierarchy select measures, the date picker will not display. **Note:** These two issues are ADF issues. To work around the date picker issue, the user can directly enter the date into the cell instead of using the date picker. If experiencing the other picklist issues, it is recommended that the user move to a different browser.	13729120
Fusion Client	If a user drags a dimension tile outside of the page edge area into the pivot table area while the page is refreshing, the user can get the dimension tile button stuck to the pointer.	13836189
Fusion Client	Page synchronization does not work when navigating in the page axis by using the find next alert functionality.	14013079
Fusion Client	The user interface is empty and freezes navigation when the view is saved and then reopened in split view.	14103448
Fusion Client	When a workbook is opened that was created and committed by another user, the commit status cannot be displayed. It states "Unable to get commit status."	14186591
Fusion Client	When using an SSO enabled Fusion Client deployment and the solution is not available (for example, the DomainDaemon is not started), the user is brought to a screen stating "No solutions found" after logging in to the SSO environment. There is a logout button on this screen in the top right corner. The user is not logged out of SSO after clicking that option. It is expected that the user should be logged out and taken to the SSO login screen.	14190477
Insert Measure	When the inserted measure is a scalar measure with allowed aggs, after the measure is inserted in the workbook, it will not be visible in the Visible Measures list after the workbook is saved and reopened.	13035017
Single Sign-On	When using Oracle Single Sign-On (SSO), the user names returned to RPAS are in all caps. If using SSO, user names should be created in all caps for SSO to work correctly.	10075212
Translations	Chinese translation cannot be seen for Dimension Attributes.	13485613
Translations	The save window in the Classic Client is not translated correctly to Chinese.	13513058
Upgrading	When using the Drpas.maxProcesses setting within the RIDE_OPTIONS environment variable, the patch process fails. When upgrading to 13.3.1, do not have the maxProcesses setting, or the patch fails.	13587312

Related Documentation

For more information, see the following documents in the Oracle Retail Predictive Application Server 13.3.1 documentation set:

- *Oracle Retail Predictive Application Server Installation Guide*

- Oracle Retail Predictive Application Server User Guide for the Fusion Client

- Oracle Retail Predictive Application Server Configuration Tools User Guide

- *Oracle Retail Predictive Application Server Administration Guide for the Classic Client*

- *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*

Supplemental Documentation at My Oracle Support

The following document is available through My Oracle Support. Access My Oracle Support at the following URL:

https://support.oracle.com

Cygwin Setup Guide for RPAS (Doc ID 1333398.1)

This document details necessary options you should select when installing Cygwin to make it function properly with RPAS.

Oracle Retail Predictive Application Server 13.3.1 Cumulative Fixed Issues (Doc ID 1357743.1)

This document details the fixed issues and defects for all RPAS patch releases prior to and including the current release.

Previous Releases

For information on previous Oracle Retail Predictive Application Server release enhancements and additional information, refer to the release notes and documentation that accompany the previous releases.

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