

Oracle® Retail Predictive Application Server

Release Notes

Release 13.3.3

E51512-02

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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.

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>.

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

Noteworthy Defect Fixes

The following noteworthy defect fixes are included in RPAS 13.3.3:

Affected Component	Fixed Issue/Defect	Defect Number
Classic Client - Alert Navigation	Alert navigation using F10/F11 was not working properly. Client and server changes are made to fix the issue.	17605951
Classic Client - Auto Position Query	Auto position query functionality was not working properly. Modifying the classic client code related to auto position queries resolves the issue.	16943112
Classic Client - Attributes Display	When displaying attribute labels on the left axis, the position of the attribute labels after the first was off. The position of the attribute labels did not get adjusted for the width of the folder icons on the tree. Modifying the code that was adjusting the attribute label positions to account for the width of the folder icons on the tree fixes the issue.	9693314

Affected Component	Fixed Issue/Defect	Defect Number
Classic Client - Chart	When in chart mode, if hierarchies were rearranged such that there were no hierarchies on the z axis and if the user tried to position the cursor on a data point, the client crashed. Fixing the charting code in classic client resolves the issue.	17031251
Classic Client - Copy/Paste	Copy/Paste was not working properly as paste operation pastes only one row when two rows were copied. This was a classic client issue and fixing the client resolves the issue.	17305759
Classic Client - Copy Special	When a user tries to do a copy special with all dimensions unselected, the classic client crashes. The cell bound check was not used when all dimensions were unselected. Using the bound check resolves the issue.	17167255
Classic Client - Format	The wrong foreground worksheet was getting displayed after saving and reopening a workbook. The style format was not working properly when multiple worksheets were opened in overlapped format. Fixing the client side code resolves the issue.	16754988
Classic Client - Grid View and Display	The color gradients for shading dimensions on the grid axis were too small and not noticeable. For shading dimensions, the client creates color gradients from the axis fill color to a lighter tint of that same color. If the axis fill color is light, then the range from that color to the light version of that color is small. When that is divided into many gradients, the difference between the gradients may become unnoticeable. That behavior combined with the default color being light makes it necessary for users to change the axis fill color in order for dimension shading to be useful. Client side changes are made to maintain a minimum difference between color gradients to fix this issue.	16575821
Classic Client - Grid View and Display	On the classic client, when all dimensions on CLND hierarchy were unchecked, an exception occurred. Changes are made to classic client to handle the case when all dimensions are unchecked to fix the issue.	17592221
Classic Client - Grid View and Display	Workbook saved with a z axis position upon closing and reopening does not open up at the saved position, but opens at the first position on the z axis. Classic client is modified to fix the issue.	17823672
Classic Client - Wizards	Wizard selections were not getting unselected on a two tree wizard. Fixing the classic client code related to wizard selections resolves the issue.	17163967
ConfigTools - Adding Components	The control+insert key accelerator in config tools fails to add a major component. Swing appears to be consuming the key event, unlike other key combinations (for instance insert without the ctrl modifier), the focused control does not receive an event for the key press. Tools is modified to fix the issue.	16090009

Affected Component	Fixed Issue/Defect	Defect Number
ConfigTools - Measure Profile	<p>When using Java 7, users would experience a problem in which the entries of a measure profile in the workbook tool would be randomly ordered. Any operation upon the profile would scramble the order of elements in the profile. A change to the sort implementation in Java 7 uncovered a bug in the comparator used in measure profiles. Although the bug exists, no matter what version of Java is being used, it has no effect on profile ordering prior to Java 7.</p> <p>The error in the comparator for measure profile entries is corrected. Measure profile ordering should now work as intended.</p>	17503079
ConfigTools - Rename	<p>The right-click menu within the measure tool contains a menu item "Rename." When this item was selected, there was no effect. The menu item used to result in the creation of an editing session within the class tree. Tools is modified to fix this issue.</p>	16090025
ConfigTools - Rule Validation	<p>In config tools, the task list shows Rule Group Error in RED; however, no error was listed in the rule definitions for the rule group, Rules within the Group or expressions within the Rule. Fixing the rule validation code in tools resolves the issue.</p>	16762076
Domain Utilities - CopyDomain	<p>CopyDomain failed to clone a sub-domain when the sub-domain was located outside the master domain. Fixing the copyDomain code resolves the issue.</p>	17190985
Domain Utilities - LoadHier	<p>LoadHier during reclassification was taking longer to finish. Performance tuning LoadHier code fixes this issue.</p>	16963073
Domain Utilities - LoadMeasure	<p>LoadMeasure was not working properly when .clr files were used to load the measure data in multi-process mode. Fixing the LoadMeasure code resolves the issue.</p>	17081905
Domain Utilities - Move Domain	<p>MoveDomain was not working properly while trying to move only local domains. Fixing the MoveDomain code resolves the issue.</p>	16986351
Domain Utilities - ReindexDomain	<p>The reindexDomain restart and recovery functionality was not working properly. Fixing the reindexDomain code resolves the issue.</p>	17271602
Domain Utilities - Wbatch	<p>Wbatch was not returning the proper error status code when the auto workbook build failed where wbatch was run with a -processes option. To fix this issue, Wbatch is modified to return the proper error status code whenever the auto workbook build fails.</p>	16787207
Fusion Client, Copy/Paste	<p>For Firefox, the cut/copy/paste is done in the Fusion Client and does not use the clipboard. signed.applets.codebase_principal_support flag is no longer supported. Users have to use Copy from External/Paste to External instead of the clipboard option.</p>	17820189
Fusion Client, Copy Special/Paste	<p>Users are now able to commit updated cell values after performing Copy Special and Paste Special.</p>	17424618

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client, Dynamic Tasks	The IndexOutOfBoundsException while opening/creating a workbook when dynamic tasks are involved is resolved.	17436832
Fusion Client, Editing	When the base intersection of the measure and worksheet are different, Fusion Client was not allowing editing of the measure. This is fixed.	16485724
Fusion Client, Elapsed Lock	Elapsed locks were not appropriately reflected when position names were not unique across levels within the calendar dimension. This is fixed.	16828163
Fusion Client, Export to Excel	These characters are not allowed to be entered in worksheet name: : \ / ? * [] * Export to Excel gives an error while opening the file if these characters are part of a worksheet name.	17213112
Fusion Client, Find	An exception during the Find operation on worksheet is fixed. This was happening as the find selection was defaulting to invalid edge. It now defaults to the page-edge for the search.	16740296
Fusion Client, Images	For security around loading images, users are now only allowed to enter URLs from hosts configured in the rpasConfig.properties.	17037528
Fusion Client, Level Splitting	A null pointer exception on exiting level split dialog is fixed.	17816667
Fusion Client, Picklist	The issue replicating a picklist measure from aggregate level is fixed.	16345156
Fusion Client, Pivot Table	Whenever a user performs a pivot swap after entering a value in the outline view on an aggregated level and does not calculate before the pivot swap, the value from the edited cell was being pushed to all cells on the worksheet. This issue is fixed.	16440113
Fusion Client, Pivot Table	An issue with resizing the column header row vertically which caused rows in the pivot table to mis-align is fixed.	16634722
Fusion Client, POP	The percent of parent measure creation error in the Measure Analysis workbook is fixed.	17316577
Fusion Client, Show/Hide	Incorrect hiding of Calendar positions is fixed.	17279233
Fusion Client, Wizard	The ClassCastException when shuttling a large number of positions from the available to selected tree in the wizard is fixed.	16404926
Fusion Client, Wizard	The date formats for dimension attributes on the wizard page is correctly applied.	16724128
RPAS Server - Attributes	When scalar measures were used as attribute measures, only values and not labels were getting displayed for the attributes. Fixing the server code to display the attribute label when scalar attribute measures are used resolves the issue.	16774859
RPAS Server - Copy/Paste	Copy/Paste functionality was broken as it was pasting in to elapsed cells. Fixing the server side copy/paste functionality resolves the issue.	17300141

Affected Component	Fixed Issue/Defect	Defect Number
RPAS Server - Copy/Paste	Copy/Paste was overwriting locked cells during the pasting operation. The checks to verify whether a cell is locked or not were not working correctly and letting the paste operation overwrite a locked cell in a corner case. Modifying the copy/paste code on the server side fixed the issue.	17776940
RPAS Server - DimRegistry	DimRegistry wbq back up files pertaining to certain dimensions were causing the reindexDomain run to fail and corrupt the dimRegistry. Fixing the dimRegistry code and the patchwbq script resolves the issue.	17276864
RPAS Server - Dimension Attributes	While patching a domain where measures based on newly added hierarchies were used as Dimension Attribute measures, results in an exception being thrown. Fixing the Dimension Attribute Manager resolves the issue.	17274923
RPAS Server - Domain Config	UserGroups could not be deleted as the user group arrays report had users in them. Fixing the user group code in the domain config resolves the issue.	17318795
RPAS Server - DPM	When modifying the rollup of a DPM position, the rollup aggregation for measures were not recalculated. The function to update the aggregation was getting triggered only when adding or deleting a position. Changes to update the aggregation even while modifying the position rollups fixes the issue.	16673055
RPAS Server - Elapsed Locks	Elapsed locking functionality was broken when the same dimension names were used across dimensions. Fixing both the server and client to uniquely identify the position names by passing both the dimension name and the position names resolves the issue.	17665827
RPAS Server - ExportData	ExportData with the -range option was not working correctly when exporting data for positions with numeric names. This case was not handled by ExportData code currently. Modifying ExportData to handle numeric position names fixes the issue.	17796826
RPAS Server - Fetch	More data was getting fetched from the domain for a workbook view than was actually getting displayed. Fixing the workbook code to properly fetch the data fixes the issue.	17582224
RPAS Server - Format	During workbook build, a format style exception was getting thrown. Possible cause could be that the domain configuration was modified and the domain was patched without running the update styles option. Format code changes are made to fix this issue.	17623074
RPAS Server - Hierarchy Maintenance	After using Hierarchy Maintenance to update a user-defined dimension in the Location Hierarchy, an error message results i when the user attempts to go back into Hierarchy Maintenance. The DimensionMap cache was not getting cleared. This caused wrong positions to be deleted thereby corrupting the user-defined dimension array. This problem was seen only on AIX system and not on NT because of the way static globals of std::set / std::map are handled. Fixing the array level code resolves the issue.	16754638

Affected Component	Fixed Issue/Defect	Defect Number
RPAS Server - Java Bridge	Fusion client was displaying a -0.0 due to an issue in the Java bridge code. Fixing the Java bridge code resolves the issue.	16191251
RPAS Server - Multi Source Special Expression	The perform aggregation functionality of multi source special expression was not working. When the performAggregation flag in multisource function was set to true, it tried to find the nearest RHS measure with base intx below the base intx of the LHS measure and then aggregate it. However, the map used to find this closest intersection was not getting created properly. Fixing the multi source code to properly generate the map resolves the issue.	17462980
RPAS Server - Spreading	Spreading was not working correctly when triggered through a custom menu for some measures. The measures involved have a spread type of 'Period End' which works fine in incremental mode. But a custom menu executed in full mode is where this spreading was not working properly. Changes are made to the spreading logic to properly spread in full mode (for the Period End spread type) to fix the issue.	17673528
RPAS Server - Upgrade Module	A server exception was getting thrown while closing a workbook. The domain initially had an issue which was caused during the convert and upgrade of the domain. Fixing the upgrade module resolves the issue.	17205227
RPAS Server - Workbook Build	Lock contentions were observed while building and opening a workbook. MeasureStore code is modified to resolve lock contentions which fixes the issue.	16540567
RPAS Server - Workbook Build	Server exception was getting thrown during workbook build. Fixing the workbook code resolves the issue.	16850503
RPAS Server - Workbook Build	When trying to build a workbook where, for example, PROD hier in the workbook has a root higher than the domain root, the workbook build fails when trying to build it using a workbook only dimension. MeasureStore code is modified to handle this case to fix this issue.	17759675
Translations	Russian translations were incorrect for some of the AlertManager symbols. Proper translations are provided to fix this issue.	16362937
Translations	Russian Translations for an error message were not correct. The text is corrected to fix this issue.	17030187

Known Issues

The following table contains the known issue that has been identified for the current release:

Affected Component	Known 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 rpaInstall made the call to dimensionMgr as part of the patch, it tried to use that argument. This resulted in dimensionMgr throwing its usage. The rpaInstall utility no longer makes use of the maxProcess argument in calls to dimensionMgr, even when a maxProcesses argument is set in RIDE_OPTIONS.	13587312

Related Documentation

For more information, see the following document in the Oracle Retail Predictive Application Server 13.3.3 documentation set:

- *Oracle Retail Predictive Application Server Installation Guide*

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 13.3.3 Cumulative Fixed Issues (Doc ID 1608805.1)

This document details the fixed issues and defects for the RPAS 13.3 release and all RPAS 13.3.x patch releases since 13.3, including the 13.3.3 patch 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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