

Oracle® Retail Predictive Application Server

Release Notes

Release 14.0.2

January 2015

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: The Web Tunneling functionality, currently available with the RPAS Classic Client, will no longer be supported starting with the next release of RPAS. This is a setting that is configured in the Advanced Settings of the EConfigure utility. Clients should be using VPN technology instead of Web Tunneling. All Web Tunneling functionality will also be removed from the RPAS Classic Client Web Deployment.

Note: In the next release of RPAS, the non-SSO version of RPAS Classic Client Web Deployment will no longer support the web-based administration interface which allows configuring domains from a web browser. Instead, all domains will have to be set up on the server by editing a properties file.

The SSO version will not be affected.

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 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 14.0.2:

Affected Component	Fixed Issue/Defect	Defect Number
Classic Client, Cell Navigation	Users were not able to navigate to the next cell using the tab key. Cell navigation using the tab key was broken because the current cell resources were not getting released correctly before moving to the next cell. The client code is fixed. There are no server changes.	19347207
Classic Client, Charting	Editing measure values in Chart view mode by dragging chart points and toggling to the Grid view mode resulted in losing the edited values. This is fixed by using the correct chart row indices.	20109354
Classic Client, Charting	The Client crashed when a user toggled to the Chart view when no hierarchy was there for one of the axes. This is fixed.	20287548
Classic Client, Export to Excel	As part of another defect, an enhancement was made for export functionality when a worksheet contained single hierarchy select measures. The code was working as designed before it was fixed incorrectly and resulted in this defect. Undoing the changes made for the enhancement fixes this defect.	19509755
Classic Client, Grid Display	With a worksheet had multi-hierarchy on the X or Y axis, multi-select did not hold when switching the select position on the other hierarchy. This was because, within the tree unselect code, the code looped through all groups even though only one group was to be processed. This is fixed.	18923789
Classic Client, Windowing	For read-only users, the New Window menu item within the Window menu was not available or was disabled when the current active window was maximized. The intention was to disable Custom Menu items for read-only users, but instead the New Window menu got disabled because of the code written to handle a specific MFC behavior. This is corrected by finding the position of the Custom Menu items and disabling it instead of disabling the New Window menu item.	18559351
Classic Client, Windowing	When there were more than nine windows open, the More Windows menu under Windows was clicked, and a window from the list of windows displayed was selected, a window different from the one selected was displayed at times. This was caused by a known MFC problem and is fixed by implementing custom More Windows functionality.	18559631, 19296900
Classic Client, Windowing	Instead of staying at the bottom of the window, the OK and Cancel buttons were floating around the Hierarchy Rollup pop-up screen when the window was resized. This is fixed by changing the Resizing property of the pop-up window.	19688969
Classic Client, Windowing	In a workbook with multiple tabs, a maximized window explicitly hidden by the user was still visible in all the tabs. This occurred due to known issues with MFC. This is fixed.	20021060

Affected Component	Fixed Issue/Defect	Defect Number
Classic Client, Windowing	A user opened the selection list of a SingleHier measure and, instead of selecting a hierarchy position from the list, the user toggled to another program running on the computer while keeping the selection list open. When the user toggled back to RPAS Client and pressed the cancel button, an exception was being thrown. This is fixed.	20192213
Classic Client, Workbook	Building of a workbook failed when the size of the data being loaded (positions from wizard page) exceeded 2GB. This occurred because 32-bit RPAS Classic Client can address only 2GB of data. Setting the LARGEADDRESSAWARE flag to true in the Client allows it to handle 4GB of data.	18551380
Classic Client, Workbook	Measure Profiles were listed in the order in which they were created and not in alphabetical or sorted order. The client is fixed to correctly sort the profiles.	19347030
Classic Client, Workbook	A newly created and saved attribute was not visible after reopening the workbook. This is fixed by converting the attribute display value to the appropriate case before writing it to XML.	19885098
Classic Client, Workbook	Upon changing a measure in a workbook that affects a Single Hier Select measure, the edited measure changed from showing labels to showing position names. This occurred because the position name was in uppercase and the client was not able to find a corresponding position label. This is fixed.	19988766
Fusion Client, Activity Taskflow	When multiple tasks pointed to the same workbook template, navigation using task link ran into blank tasks/steps. With this fix, the user will not run into blank activity and will see appropriate tasks expanded and the current step selected on task navigation as expected.	19696611
Fusion Client, ADF/Fusion UI	In a workbook, a user selected Product slice, which has levels expanded and is in Outline View. In the Levels tab, the user collapsed two levels and went to the Show/Hide tab. After moving a selection to hide and clicking Apply, a java.lang.IndexOutOfBoundsException occurred. This issue is fixed by changing to return lowest visible level instead of UI level.	18811825
Fusion Client, ADF/Fusion UI	The OK button on the timeout popup cannot be clicked to keep session alive; this splash screen pops up during custom menu execution. The way the splash screen for the custom menu is invoked is modified to fix this issue.	19335211
Fusion Client, ADF/Fusion UI	The Fusion Client left hand navigation tree did not render properly in some occasions. The code is modified to add the property UI page.	19512784

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client, Administration	When an Admin user with selective rights, such as Add User, Edit User, and Delete User, logged in to Fusion Client as the new user, went to User Administration, and clicked Add User, Fusion Client threw a NullPointerException. With this fix, a user can log in to Fusion Client as the new Admin user with selective rights on the User Administration workbook alone and access the further steps.	19678936
Fusion Client, Alerts in Workbook	Navigation occurred through blank cells after alerts were cleared. The code is fixed to handle the update of new alert positions in a workbook.	19342062
Fusion Client, Alerts in Workbook	An alert navigation issue is fixed that occurred when focus from a tiled worksheet with alert changes.	19531775
Fusion Client, Alerts Navigation	Upon creating (or opening) an Alert workbook, the Next/Prev buttons did not work the first time and the alert did not get highlighted. This issue is fixed by saving the alert position index when the workbook is saved.	18977115
Fusion Client, Alerts Navigation	An error message was displayed for a refreshworkbook action on a workbook without alertMeasures in it. This issue is fixed by handling the scenario where activeAlert is not present in the workbook.	19520911
Fusion Client, Alerts Navigation	Alert Manager navigation was failing if levels were changed using the right click menu. The Alert cache is reset for the context menu case.	19944762
Fusion Client, Bulk Fill	When the user chose all[Calendar] and tried to fill, the fill did not work correctly. The fix handles the level correctly.	19467081
Fusion Client, Bulk Fill	Quick fill was broken using Brazilian Portuguese (BR) in a browser. With this fix, the formatting is corrected and the formatted value is correctly set.	19490411
Fusion Client, Bulk Fill	The use of Edit or Fill on 100K cells quickly exhausted the Java heap and caused all user sessions to fail. This is fixed with a chunking strategy and an imposed hard limit of a minimum of 90K and ccp.max.selection.size (in rpaConfig.properties), default being 10K.	19580802
Fusion Client, Bulk Fill	When performing quick fill on cells that had some rules, an error was thrown in some cases. The exception is handled as the user is told that the fill could not complete since some of the cells are protected.	19767794
Fusion Client, Commit Status	There was a null pointer exception if a user navigated to a dynamic task, then to another activity group, and then to the Home page. This issue is fixed by adding a null check.	19786917
Fusion Client, Dynamic Attributes	A NullPointerException occurred when creating a new workbook with a cluster attribute. This issue is fixed by adding a null check to avoid adding null attribute definitions.	20069661

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client, Dynamic Position	An error occurred when attempting to delete a Dynamic Position when the Dynamic Position was the only product in the workbook. The error was visible in the logs. In the client, no error was visible. The only indication of failure was that the deleted position had not been deleted.	18051182
Fusion Client, Exception Management	Format / Dimension Styles for View and select only the view with fewer dimensions and for Dimension select only one of the dimensions that view does not have It would give NullPointerException. This issue is fixed by handling the case where the dimension is not in one or more of the views.	19597787
Fusion Client, Fill Clear	A NullPointerException was thrown after using the QuickFill button on a workbook to clear multiple cells when the measure was a string measure configured as a picklist. This issue is fixed by adding a null check for the case when the string measure value is blank and set to null.	19288653
Fusion Client, Fill Clear	Quick fill for date measure failed with an exception. This issue is fixed by skipping the format if they are date measures.	19596821
Fusion Client, Fill Clear	Clear was not giving any error with formatted columns when the browser language changed to Portugese[PR] on Firefox. The method is fixed to accept the formatted value.	19675082
Fusion Client, Fill Clear	In the Fill dialogue, the default value was not based on locale. This issue is fixed by formatting the fill value.	19675103
Fusion Client, Fill Clear	Fill and Clear were unsuccessful when no cells were selected. This issue is fixed by adding the required cells programmatically.	20135329
Fusion Client, Fill Clear	The clear operation when no cells were selected resulted in a null pointer exception. This issue is fixed by adding the null check and making the usage of Rollup Name consistent.	20227334
Fusion Client, Formatting	Bad format exceptions loading a view did not give the view name information. These formatting exceptions are wrapped with an AtlantisRuntimeException.	18155713
Fusion Client, Formatting Access	Changes to scaled measures were not accurate after selecting Calculate if WebLogic was started with a non-English locale. In this case, Italian, any percentage value or any value after a decimal point was getting truncated. The formatted value is now displayed according to locale.	19452418
Fusion Client, Grid Display	The color for undefined cells was not displaying correctly. This issue is fixed by setting the precedence for undefined cell.	18898454
Fusion Client, Grid Display	When a dynamic percent to parent measure was created from a measure that was not editable in an elapsed period, the extended measure used to become editable in the elapsed period. This issue is fixed by checking the elapsed condition for extended measures.	19851437
Fusion Client, Installer	An installer issue on Windows with install.cmd is fixed.	18780146

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client, Installer	An installation issue with GUI and text mode with retrieve credentials is fixed.	20112973
Fusion Client, Installer	The installer had some references to the WebLogic 10.3.5 jar. This issue is fixed.	20360370
Fusion Client, Level Splitting	Saving a split definition using Save Split before clicking OK on the New split dialog resulted in an error. This issue is fixed by removing the views-list reset on the Save Split action.	16317268
Fusion Client, Level Splitting	When level splitting was used on a DATE attribute, the date was not displayed and data was not split. This issue is fixed by converting the Date object to the rpas date string to make the comparison work.	18855909
Fusion Client, Level Splitting	The "Please select a split" error was seen by the user whenever the user tried to apply an already created split in one worksheet on another. This issue is fixed and table selection works as expected.	20196905
Fusion Client, Level Splitting	An incorrect error was displayed when a user clicked Ok without selecting any split from the list in the Select Split window. This issue is fixed by adding validation for no selection.	20285062
Fusion Client, Miscellaneous	When using Chrome to log in to Fusion Client, the login failed almost every other attempt with no message returned to the user. This issue is fixed by an ADF patch. See the <i>Oracle Retail Predictive Application Server Installation Guide</i> for the ADF patch number.	19219529
Fusion Client, Miscellaneous	While trying to change the levels of the product hierarchy, it was complaining of a violation in the comparison contract. The DataComparator is fixed.	19439295
Fusion Client, Non-RPAS Content	Using the ASO plug-in, when the user selected text and entered Ctrl-C, an exception occurred and the following error message was displayed: Please select any window for this operation. This issue is fixed by using the render property instead of visible for UI menus.	19031211
Fusion Client, Page Edge and Paging	When the DPM was activated for a hierarchy and two hierarchies in the Z-Axis were to be synchronized across the worksheets, only the first hierarchy on that axis was getting synchronized across the pages. This issue is fixed by setting Scrolled to true for the second dimension.	18715227
Fusion Client, Page Edge and Paging	When the user opened two worksheets having the Synchronize Page edge (Fusion Client) enabled, navigation using Real Time Alerts was not synchronized in both worksheets. This issue is fixed by adding a call to synchronizePageEdgePositions for the real time alert case.	18896846
Fusion Client, Page Edge and Paging	In an alert workbook with multiple worksheets with synchronized page edge enabled and horizontally tile, if a user navigated to the next/prev alert using the alert navigation buttons in the worksheet having alerts and the stretch panel collapsed, the page edge position was not updated in the top collapsed panel. This issue is fixed by refreshing the minimized area.	19631583

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client, Page Edge and Paging	The labels of lowest selected positions were not displayed on the view header when the page edge was collapsed. This issued is fixed by adding the missing naming container to the component path in the partial trigger.	20304343
Fusion Client, Performance Problem	A memory leak with Oracle WebLogic was creating permission objects by millions. This issue is fixed by an ADF patch. See the <i>Oracle Retail Predictive Application Server Installation Guide</i> for the ADF patch number.	19665676
Fusion Client, Pivot Table	Rows were not getting aligned properly after resizing. This issue is fixed by increasing the maximum height of the div tag which contains the row header.	18532306
Fusion Client, Pivot Table	Multiple row /column resizing caused an OutOfMemoryException. To fix the issue, the AtlantisSizingManager was changed to extend the SizingManagerImpl and not the SizingManager.	19780468
Fusion Client, Print Export	The style ID was missing for the read-only cell that had an exception and was causing the export to Excel to fail. The issues are fixed by adding the correct style ID.	19562461
Fusion Client, Print Export	Export to Excel was failing if the worksheet view was in Block mode and a few columns were collapsed. The indexing was not done properly for the cells adjacent to the merged cells and this was causing the issue.	20196994
Fusion Client, Search and Find	The user was unable to enter a left parenthesis character in the search box for a grid search. The fix escapes the character, the search box accepts the character, and the search correctly uses the character.	19466545
Fusion Client, Search and Find	The wizard did not find the item if there was a commit status update going in the background. This issue is fixed by stopping the polling if the workbook is not open.	20144786
Fusion Client, Sort	The label sort in Show and Hide was not sorting the labels correctly. Ascending and descending sort was inconsistent when labels included special characters (-, tab, space, and so on). The sort algorithm strength is changed to SECONDARY so that special characters are not ignored.	19447269
Fusion Client, Standard and Custom Wizard	When using the Favorite option while building the wizard, the results based on the Favorite were not shown on the Right Hand Side (RHS) of the wizard panel. This issue is fixed by using the level name and reloading the level if they are at a different level than the base level.	19061541
Fusion Client, Standard and Custom Wizard	Forecasts lists were not displayed in the Forecast Approval workbook wizard. This was displayed by clicking the previous or next buttons. The issue is fixed by enabling the User Interface (UI) component for forecasts list.	19552560
Fusion Client, Worksheet PQD	The Automatically Evaluate Position Queries option was not working correctly when switching between worksheet tabs. The issue is fixed by implementing autoevaluatePQD while switching the tabs.	18910884

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client, Worksheet PQD	When moving the Position Query (PQ) driving dimension from the Z-axis to X-axis while the filter is turned ON, the PQ still executed where the filter was still ON. Moreover, moving that driving dimension back to the Z-axis, the filter was still ON, however, the PQ icon appeared flat indicating that the filter was OFF. The fix is to force UI Bindings to refresh after a pivot swap and before a page edge refresh.	19345692
Fusion Client, Workbook Commit	A user with workbook read-only permission was able to commit. The correct condition is added to disable a commit.	20264271
Fusion Client, Workbook Open	A user could not do any workbook operations in the sales markdown step/planpreseason task. On opening workbooks, the views were unresponsive. This issue is fixed by handling the negative zindex.	18615301
Fusion Client, Workbook Open	The wizard was going blank with no tree objects. There was an error in sorting the data. The issue is fixed by updating DataComparator and the compare method for its custom alphanumeric compare.	19708231
Fusion Client, Workbook Open	When customer built a workbook, a Data Streaming error was issued at the end of the workbook build. The pivot table UI component is updated to validate the selection as part of its initialization. Any invalid selections are removed before being rendered on the page.	19797567
Fusion Client, Worksheet Windowing	When tiling the views, the visible views within a step were not sorted in alphabetical order (numerical sequence) or in order of views last touched. The tiling feature is enhanced to reorder the views based on the last touched order.	20183741
Config Tools	An error prevented the use of the maximum number of selectable positions functionality within the workbook build wizard process when the configuration for the domain contained a different RPAS name from the Tools name of the restricted dimension. This error is resolved and limiting the number of selectable positions within the wizard process now works regardless of whether the configuration uses the same RPAS name and Tools name for a dimension or different ones.	20039718
Config Tools	An error was preventing workbooks built by the RO plug-in from being saved when the configuration was subsequently saved and closed unless the Save As file operation was performed. The issue is resolved and workbooks generated by the RO plug-in now save correctly during the Save operation.	20137291
Config Tools, Config Manager	ConfigManager and rpasConfigMgr utilities were not properly processing changes to measure order within workbook profiles. The issue is resolved and a change in the order of profile measures is now detected and processed.	17853613

Affected Component	Fixed Issue/Defect	Defect Number
Config Tools, Config Manager	The ConfigManager and rpaConfigMgr utilities would encounter an error when one of the changes to a configuration was the removal of a custom menu item. This prevented the successful merging of configurations using the utilities. The issue is resolved and the utilities can now be used to merge configurations whose changes include the removal of custom menu items.	18459398
Config Tools, RpasInstall	RpasInstall now provides a descriptive warning message within its log when the input directory passed in as the value of the -in argument does not contain a .dat file for one or more of the configured hierarchies present in the configuration. This is intended to prevent an issue in which a domain may build without hierarchy positions for the missing hierarchy; this would cause issues when the domain was used.	19201230
Config Tools, RpasInstall	The rpaInstall utility would encounter an exception during the patch process when the domain being updated did not contain the expected directory structure. In cases where the domain being updated did not contain the /repos/measures directory (due to the directory being removed by non-RPAS operations), an exception would occur. This unexpected condition is now handled gracefully by rpaInstall and the process continues to completion.	19399904
Config Tools, RpasInstall	When patching a configuration using RPAS_LOG_LEVEL=Debug, erroneous error and warning messages were being displayed. This was caused by invalid new line characters in the configmeasure's description field. To resolve this issue, new line characters are now filtered out when the domain config project is loaded into Config Tools and saved.	19449019
Config Tools, RpasInstall	The rpaInstall utility was not always returning a non-zero exit code when the process ended due to an error condition. Only some failures were resulting in a non-zero return code. The issue is resolved and rpaInstall now returns with an exit code of 0 when the process exits normally and not due to an exception.	19551052
Config Tools, Workbook Tool	Dynamic hierarchy entries did not automatically update when a measure in the configuration was renamed. That prevented the workbook from being built. Dynamic Hierarchy entries, within the Workbook Configuration, now update the values of their measure and label measure attributes to reflect the new name for the measure when the measure is renamed within the Measure Tool.	18684645
Config Tools, Workbook Tool	An error in the Workbook Tool was preventing configuration of multiple refresh rule groups. An exception prevented the UI used for this configuration from being initialized resulting in a blank dialog. The issue is resolved and the UI for configuring multiple refresh rule groups now initializes so that it can be used.	19278684

Affected Component	Fixed Issue/Defect	Defect Number
Domain Utilities, Alert Manager	The alertmgr utility -findAlerts option was not throwing an error when an invalid alert category was specified. This behavior is corrected so that if all categories passed to alertmgr are invalid, RPAS will display a message on the shell. If some (but not all) alerts are invalid, RPAS will log a message and run findAlerts -sumAlerts for the valid categories.	20177661
Domain Utilities, CopyDomain	RPAS requires Cygwin as a Linux-like environment for executing shell commands on Windows. Prior to Cygwin, the standard was MKS. The windows version of the copyDomain utility had not been updated to use the gzip program (when specifying the -gzip option). It was still looking for mkzip. This is corrected so that copyDomain -gzip will use gzip instead of mkzip.	19781363
Domain Utilities, DomainInfo	The Administration Guide and online help for domaininfo utility both mention that the -d argument (used for specifying path to domain) was not necessary when using the -expectedversion command. This was not working as described. The code is modified so that domaininfo behaves as described in the Administration Guide and online help.	19950828
Domain Utilities, Dimension Manager	Patching a domain failed while trying to modify the size of a system dimension by adding new positions. The default bit size assigned at the time of domain conversion was found to be less than the bit size required at the time of patching as, normally, system dimensions are not modified. The dimension manager utility is fixed to allow resetting of the bit size for system dimensions.	18874205
Domain Utilities, exportMeasure	Temporary files created during exportMeasure were not deleted at the end of it. This is fixed.	19671983
Domain Utilities, exportMeasure	While running the exportMeasure utility with the redirect to log file option, the logged output did not log meaningful error details. Moreover, console output and redirected output had different contents. This has been fixed now.	19719280
Domain Utilities, LoadHier	LoadHier, with the -loadAll option, was not sending a warning when no data files were present in the input directory. The LoadHier code is modified and now logs a message to warn the user that input files are missing.	18710199
Domain Utilities, LoadMeasure	In multi-process mode, loadMeasure used to split up large RPL files in preparation for parallel loading, but ended up in error. This occurred because RPL files were not intended to split up in multi-process mode in the original design. The code is updated such that RPL load is split up only in single process mode and not split up while running in multi-process mode.	18762215
Domain Utilities, LoadMeasure	In multi-process mode, an error was encountered when multiple processes tried to remove purge files simultaneously. This is fixed by putting the relevant code in the try/catch block.	19063308

Affected Component	Fixed Issue/Defect	Defect Number
Domain Utilities, Mace	Mace expression was taking a long time to execute in a new domain that was built through a reclass. This occurred because, while calculating, mace was iterating through all the positions in the measure array even if all the positions were inactive. This is fixed by skipping empty arrays.	19630752
Domain Utilities, Move Domain	MoveDomain was not updating the sub-domain index arrays maintained in the configmeasdata database which indirectly affects loadmeasure from functioning properly. When an absolute path was passed in to the XML file as an input to MoveDomain, the path was not getting mapped to the relative path stored inside the domain. The utility code is fixed to properly convert the relative path to an absolute path.	18619228
Domain Utilities, pqdMgr	If there were more than one PQD for the dimensions in an hierarchy, using pqdMgr -export used to result in duplicate entries in the output file. This is fixed.	19166112
Domain Utilities, pqdMgr	The PqdMgr utility was not able to load XML files that had hierarchy names in uppercase. This is fixed.	20146604
Domain Utilities, reconfigureGlobal DomainPartitions	While reconfiguring global domain partitions to create new sub-domains, the user selections and workbooks in the first domain were getting copied over to the newly created sub-domains. The reconfiguring utility is fixed to prevent copying of the user selections and workbooks from the first domain to the newly created domain.	19002155
Domain Utilities, reconfigureGlobal DomainPartitions	While running reconfigGlobalDomainPartitions, if the input data file contained partition positions different from those defined in the reconfig binary input XML file or those specified in the command line arguments, the error message that was being shown was not meaningful. The code is updated to return a meaningful error message.	19568491
Domain Utilities, ReindexDomain	Forced Higher Based Intersection (FnHBI) measures, having one of the dimensions from a partitioned hierarchy, were not getting reindexed properly. The reindexDomain utility is fixed to properly set the dimension registry path.	18647060
Domain Utilities, syncNAValue	Using syncNAValue with the -d option and absolute path of a global domain resulted in the utility going into an infinite loop. This occurred because child processes spawned for each local domain were expecting a relative path from the global domain instead of an absolute path. This is fixed so that the child processes get the correct path for local domains.	19898051
Domain Utilities, wbatch	Parallel auto workbook builds using wbatch from the same domain were failing due to lock contention when multiple -maxProcesses options were used. There was a deadlock situation between two processes where each process was waiting on the other to release a lock. The server is modified to allow exclusive access of the locks separately to each process.	18680293

Affected Component	Fixed Issue/Defect	Defect Number
Domain Utilities, wbbatch	A segmentation or memory fault was reported when trying to build an Alert Manager workbook using the wbbatch utility. This occurred because wbbatch fetched active alerts from WorkbookBuildConfiguration and set them. Later, while validating the wizard, getSelection was called for ActiveAlert which led to an error because active alert selection had not been initialized. This is resolved by calling getSelection for ActiveAlert only if active alerts were not set previously.	19439254
Domain Utilities, wbbatch	When the Next Build Date was set in the future, wbbatch returned a correct message: "The auto workbook '#' was scheduled to be built in future. Not Build." but returned exit code as 2 which was incorrect. This is fixed such that wbbatch will return an exit code of 0 if the next build date is in future.	19674148
RpasTemplates, Auto Workbook Maintenance	The Autoworkbook maintenance edit screen allowed invalid values such as -1, 0.1, or 979879879797979798846544443 for the frequency in days entry since no validation was being done for frequency value. Validation is added.	18606107, 20145787
Server, Alert Manager	Hierarchy ranging during an Alert Manager workbook build was taking a long time to finish which caused delays to the workbook build. The Alert Manager code is now optimized to efficiently iterate over the alerted cells during ranging.	18682170
Server, Alert Manager	alertmgr -sumAlerts returned an unhelpful exception if -findAlerts was not run before it. Since findAlerts was not yet run, there were no alerts in the alert_resolved array, so alertmgr was not able to convert the NA type during the -sumAlerts run. To resolve this issue, the alerts are skipped that do not yet exist in the alert_resolved array.	18755553
Server, Dynamic Attributes	Dynamic attributes were being looked up using the user name instead of user ID which was causing an exception to be thrown. The dimension attribute manager is fixed to use user ID instead of user name.	18950057
Server, Dynamic Attributes	On Workbook build, a new measure set returned null to the measure pointer if the measure names were in lower case in the measure set and in upper case in the dynamic dimension attributes. This caused the workbook build to fail. To resolve the issue, the measure names are converted to lowercase.	19187997
Server, ODBC Driver	Users were not able connect to RPAS using ODBC driver if the user name was specified in uppercase or in mixed case. This is fixed.	19782838
Server, Wizard PQDs	Wizard PQDs were not loading properly when the domain was upgraded from 13.4.1.HF to 13.4.3. This was due to the presence of a new field in the newer version of PQDs. The version check logic is modified to handle the new PQD file format.	19002088, 19031260

Affected Component	Fixed Issue/Defect	Defect Number
Server, Workbook	Auto-fill of a clustered attribute did not work for never-displayed rollup levels. On autobanding, the new instance of the measure did not aggregate for dimensions above the current dimension level. The code is fixed to aggregate the new measure instance for higher dimensions.	17732914
Server, Workbook	Building a promotion maintenance workbook sometimes resulted in an empty workbook without any worksheets visible. In fact, the worksheet was there but it was set as hidden. The code is fixed so that the worksheet remains visible.	18712982
Server, Workbook	Committed values were not showing up in the workbook when it was built from the master domain. This was a side effect of the fix made for defect 18601109. The server code is fixed to consider the corner case where the destination array need not be cleared.	18850564
Server, Workbook	Images for image measures were not getting displayed when the workbook contained hier mod. Workbook creation code bypassed setting up of image measures when the workbook contained hier mod. This is fixed.	18950316
Server, Workbook	Images for image measures were not getting displayed when the workbook contained hier mod. Workbook creation code bypassed setting up of image measures when the workbook contained hier mod. This is fixed.	18959880
Server, Workbook	This bug caused a No transaction initialized error message to be shown when a context selection XML was used to build the workbook. To resolve this issue, the server transaction that handles the build workbook request is updated.	19004891
Server, Workbook	The workbook build used to fail because of incorrect referencing of the Calendar hierarchy. This is fixed.	19346764
Server, Workbook	Building of a workbook failed when the measure type for attribute measures was being fetched from the source measure and the source measure was not included in the workbook. This issue is resolved by reading the measure type from the attribute measure and not from the source measure.	19489045
Server, Workbook	This bug caused a No transaction initialized error message to be shown when a context selection XML was used to build the workbook. To resolve this issue, the server transaction that handles the build workbook request is updated.	19888096
Server, Workbook	Trying to open a workbook after renaming a position on a dimension that had label translation enabled resulted in an error. This is fixed.	20103621
Server, Workbook	A position that was informal earlier but had been formalized in the domain could be modified even after formalization. This had the potential of corrupting the hierarchy data and should not have been allowed. Extra validations have been added to ensure that formal or deleted positions in the domain cannot be modified.	20130874

Affected Component	Fixed Issue/Defect	Defect Number
Server, Workbook	If a workbook was created based on a template that included a Percentage of Parent (POP) integer measure and if that POP measure was formatted (for example, changed the precision), an error was being encountered. This is fixed.	20191191
Server, Workbook	An error was being encountered while creating a workbook without using the wizard and that had a pre-ranging mask. Putting the measure to cached mode while fetching the mask arrays base interaction solves this issue.	20191235
Server, Workbook, Custom Menu, DPM	During the concurrency testing of workbook build, custom menu, and DPM operations, the Hmaint and Language databases were getting locked by one process while forcing other processes to wait for the locks to be released until the lock time-out and then to throw contention errors. To resolve this issue, the duration of these locks is optimized during all of the three operations.	18762411
Server, Workbook, Custom Menu, DPM	During the concurrency testing of workbook build, custom menu, and DPM operations, the Hmaint and Language databases were getting locked by one process while forcing other processes to wait for the locks to be released until the lock time-out and then to throw contention errors. To resolve this issue, the duration of these locks is optimized during all of the three operations.	18950173
Server, Workbook, Hiermod	Using hiermod to remove an image-enabled dimension from a workbook template caused an Aggregation Type exception. This occurred because measures for the image-enabled dimension were copied to the workbook regardless of whether the dimension existed or not. To resolve this issue, the image measures are filtered out for dimensions that do not exist in the workbook.	20071115
Server, Workbook Format	While trying to patch a domain with a modified configuration where the default aggregation of one of the measures used in the template level styles was modified, the user and group level styles were not getting updated with the modified configuration. This resulted in a workbook build error. This is fixed by updating the styles at users/groups level along with template level during patch installation.	19140806

Known Issue

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

Known Issue/Defect	Defect Number
For picklist measures in Fusion Client, a blank entry is available at the top of the list. It is used to indicate the NA value of the picklist measure. If the picklist measure is configured with a special value, it will cause an issue as Fusion is not informed about the special value, and the value gets treated as the regular NA value. Users may notice this discrepancy during export to Excel. This issue does not arise on the Classic Client. Currently, the suggested workaround is for the customer to disable the special value for such kind of measures. A fix is planned in the subsequent SE patches.	19780310

Related Documentation

For more information, see the following documents in the Oracle Retail Predictive Application Server 14.0.2 documentation set:

- *Oracle Retail Predictive Application Server Administration Guide for the Fusion Client*
- *Oracle Retail Predictive Application Server Installation Guide*
- *Oracle Retail Predictive Application Server User 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 14.0.2 Cumulative Fixed Issues (Doc ID 1663326.1)

This document details the fixed issues and defects for all RPAS patch releases prior to and including the current release for the 14.0 code line.

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.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

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