Oracle® Retail Predictive Application Server

Release Notes

Release 14.0.1

May 2014

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.

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> **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
```

Functional Enhancements

The functional enhancements described below are included for Fusion Client in this release.

Quick Fill, Fill Shortcut from Pivot Table Toolbar

To facilitate quick editing, users can use the Fill button on the pivot table toolbar and fill the selected cells. Quick fill takes the fill value from the top left cell from the selections and fills it to the entire selected cells. The Del key from the keyboard can be used to clear the selected cells. Users can revert their changes after Fill/Clear by invoking the Undo action. The Fill behavior from the pivot table toolbar is slightly different from the Fill edit menu option. For more details on this functionality, see the *Oracle Retail Predictive Application Server User Guide for the Fusion Client*.

Resizing Pivot Table Rows and Columns

Users can now resize multiple rows and columns on the pivot table. A user can select multiple row or column headers (contiguous or non- contiguous), and drag a row or column header to adjust the height or width respectively. These changes can also be persisted to the template using the Save Format feature. For more details on this functionality, see the *Oracle Retail Predictive Application Server User Guide for the Fusion Client*.

Technical Enhancement

The technical enhancement described below is included in this release.

> **Note:** The list below announces the addition of Oracle Retail support for the technology described. See the Installation Guide requirements section for critical information, such as whether the enhancement below replaces previous versions or is supported in addition to already existing versions.

Web Browsers

RPAS 14.0.1 is supported for use with the following web browsers:

- Microsoft Internet Explorer 10
- Mozilla Firefox ESR 24
- Google Chrome version 34

Noteworthy Defect Fixes

The following noteworthy defect fixes are included in RPAS 14.0.1:

Affected Component	Fixed Issue/Defect	Defect Number
Classic Client - Export to Excel	Position labels of the SingleHierSelect measure were not getting exported to Excel through Classic Client. Fixing the client code resolves the issue.	18160701
Classic Client, Workbook	Trying to select multiple cells using shift + select was not selecting all the cells. The issue is resolved by fixing the Classic Client.	17750763
Classic Client - Workbook	Users were not able to select measures on a Measure Analysis workbook unless they selected the LOC and PROD tiles on the workbook. On the client, previously selected nodes were not cleared which was preventing new selections. Fixing the client resolves the issue.	17766882
Classic Client - Workbook	Mouse click and drag did not let users select multiple cells. This issue is resolved by fixing the Classic Client.	17815958
Classic Client - Workbook	The z-order index of the worksheets is now handled properly while building workbooks.	18275503, 18376201
Classic Client - Workbook	Worksheets were switching tabs when the user navigated a few times across different tabs. Classic Client is fixed to resolve the issue.	18392142
Classic Client - Workbook	Worksheets started to appear under the wrong tabs when the user navigated across tabs a few times. The client is fixed to properly display the worksheets while switching tabs.	18331989, 18392142
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 properly sort the profiles.	18346795, 18391985
Fusion Client - Charting	An issue with drilling in a pie chart is fixed.	17966803
Fusion Client - Copy/Paste	The Commit button/menu shows correct status after performing copy special /paste special.	17424618
Fusion Client - Dim Popup	When the previous scroll position on the levels tab (Dim Popup) was beyond the first page, on the next navigation, the scrolled position and scroll bar would get out-of-sync. This issue is fixed.	17849638
Fusion Client - Export to Excel	After exporting a workbook with Dimension Format, the product column alignment in Excel was incorrect. With this fix, the alignment issue is resolved.	17966735
Fusion Client - Extension Framework	Create workbook from the home page alert manager now confirms unsaved changes.	17568453
Fusion Client - Extension Framework	Navigation among steps in a saved workbook was causing the workbook to be reopened. This is now fixed.	17662882
Fusion Client - Extension Framework	Only one client locale per deployment for Solution Plug-ins was supported. This restriction is now removed.	17936690

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client - Extension Framework	Solution Plug-ins should now pick up the default L10n files if external ones are not available.	17943258
Fusion Client - Extension Framework	The Fusion Client extension framework plug-in menus and menu items now support localization.	18071431
Fusion Client - Fill/Clear	Users should not see null when clear is applied and the custom menu should work fine, even if a measure's NA value is null.	17973759
Fusion Client - Find	Users were getting an incorrect warning message on the open workbook dialog after executing Find more than once. This is fixed and users can open the selected workbook.	18285953
Fusion Client - Guided Launch	The proper error message is displayed when trying to build a workbook with an invalid template, indicating that step is invalid.	17780370
Fusion Client - Guided Launch	Launch correctly opens a workbook by name.	17809291
Fusion Client - Installer	The installer no longer creates an unwanted resources folder.	17033328
Fusion Client - Installer	Fusion Client installer forced the same password for the truststore with multiple installations on different managed servers. This is now fixed.	17812717
Fusion Client - Measure Analysis	In Fusion Client, aggstate was still Writable if aggstate had been set to read-only and basestate was set to write. This is fixed.	17920152
Fusion Client - Measure Attributes	Fusion client handles the attribute names consistently to avoid null pointer exceptions.	18097111
Fusion Client - Measure Profile	With a missing default measure profile, Fusion Client would run into a null pointer exception. Now, it handles this situation gracefully by creating a default measure profile as appropriate.	18197882
Fusion Client - Pivot Table	Single hierarchy select with calendar periods are now correctly sorted.	18323458
Fusion Client - POView	POView Solution Plug-in is now scrollable when page size is reduced.	17779009
Fusion Client - POView	All columns are now displayed in the local language selected.	17971751
Fusion Client - PQD	An issue with automatically evaluating position queries together with worksheet synchronization is fixed.	18391684
Fusion Client - Show Attributes	An issue with drag/drop attributes from visible to available or vice-versa was not working on Show attributes. This is fixed.	18262232
Fusion Client - Single Hierarchy Select	Attempt to make the drop-down lists box width close to the column width in a single hierarchy is fixed.	18139557
Fusion Client - Wizard	With a large number of items, wizard performance was degraded. The code is now optimized for performance.	18261341

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client - Wizard	When Wizard had selections, find was not wrapping around at ends to continue the search. This is fixed and Find previous/last works as expected.	18261387
Fusion Client - Wizard	Wizard selections were getting cleared when an alternate hierarchy was chosen for selected tree. This issue is fixed.	18261411
Fusion Client - Wizard	Wizard gives a useful message to the user when no selection is made.	18058038
Fusion Client - Workbook	Selecting synchronize hierarchy after a few selections and multiple levels was throwing a Null Pointer Exception. This is fixed.	18000927
Fusion Client - Workbook Save	Workbook Save functionality is correctly getting enabled when using the text pop-up to edit string measures.	18050073
Fusion Client - Worksheet View	To debug bad format exceptions when loading a view, the user gets the view name (not label) with a localized message of the exception.	18155713
Java Bridge Layer	The Fusion Client wizard process is affected due to a case mismatch issue in the Java interface. The dimension rollup name was getting sent in upper case. Fixing the Java bridge layer to send the rollup name in lower case resolves the issue.	18269609
Config Tools	Config Tools was returning an exception when the user tried to open a configuration after deleting a hierarchy. Tools was trying to access a hierarchy object without doing a null check. Adding a null check resolves the issue.	18269048
Config Tools - Domain Patching	RpasInstall was providing incorrect information to the Oracle Retail Demand Forecasting (RDF) plug-ins which resulted in the plug-ins not able to correctly update the domain. The error in rpasInstall is corrected. The RDF plug-ins now receive the correct information.	18182806
Config Tools - Domain Patching	The configuration made use of hierarchy indirection such that the Tools name and RPAS name were different for the dimensions of the domain. When rpasInstall attempted to register the User-Defined Definitions (UDD), it used the Tools name and not the RPAS name in the call to regUserDim. This resulted in a failure from the utility. The regUserDim calls made from rpasInstall now properly make use of the RPAS name attribute of dimensions involved in the call.	18313146, 18420806
Config Tools - Real Time Alerts	The presence of the r_elapsed measure was preventing Tools from setting up the real time alerts measure. RPAS internal measure r_elapsed was not defined in the measure configuration, but was configured as a hidden measure for the workbook. This was preventing the real time alerts editor from showing up. Fixing the Tools code to handle the hidden measures resolves the issue.	18545005

Affected Component	Fixed Issue/Defect	Defect Number
Config Tools - RpasInstall	Utility reguserdim, when called from inside RpasInstall, failed to register a UDD when the RPAS name attribute of the dimension was different from the Tools name attribute. Calling it from the command line registered the UDD successfully. When RpasInstall attempted to register UDD, it made use of the Tools name attribute while making a call to reguserdim. Fixing RpasInstall to use the RPAS name attribute of the dimension resolves the issue.	18420806
Config Tools - Validation	Config tools validation is modified to skip the CalendarPositionMap validation through JNI.	17435369, 18685562
Config Tools - Workbench	When a user tried to save the base GA configuration to a different folder, the curve and forecast levels were getting removed. The Config tools workbench module is fixed to resolve the issue.	18037038
DomainDaemon	The DomainDaemon error message is corrected to properly inform the user when the -wallet argument is missed when starting DomainDaemon.	18109017
DomainDaemon	The DomainDaemon usage is changed. The wallet location must now be specified on the start command and all subsequent commands. For more information, see the *Oracle Retail Predictive Application Server Administration Guide*.	18306325
DomainDaemon	DomainDaemon is modified not to ask for wallet information when invoked with the -ssl 3 option.	18390941
DomainUtilities - ConvertDomain	ConvertDomain was failing and not reporting the error properly due to the presence of selection (.sel) files. When the selection files were deleted, ConvertDomain ran successfully. Fixing ConvertDomain to properly convert user selections resolves the issue.	17955427
DomainUtilities - ConvertDomain	Convert Domain did not convert the workbook category properly. It was changing the category name from a string to an integer. The category string in the dim_wbq array was getting replaced with its internal position name which is an integer. Fixing the convert domain resolves the issue.	18269428
Domain Utilities - ConvertDomain	After converting the domain, the queued workbooks were not building properly. Some of the dimension names in the styles were in upper case. Convert domain missed converting them to lower case which caused a subsequent build issue. Fixing the convert domain utility resolves the issue.	18269537
Domain Utilities - dimAttrMgr	The domain utility dimattrmgr now has a -report option to provide the details about static and dynamic attributes created by the user. This option lists out the domain and workbook attributes and split definitions associated with those attributes.	18442691
Domain Utilities - Export Data	Export data with the -range option did not work correctly when the innermost dimension contained only numeric positions. The numeric positions were treated as position indices causing the range to fail. Export data is fixed to resolve the issue.	17796895

Affected Component	Fixed Issue/Defect	Defect Number
Domain Utilities - Mace	Mace was running into a race condition when it spawned processes across several local domains. Mace was trying to remove a directory which did not exist. Adding a check whether the directory exists or not resolves the issue.	17789251
Domain Utilities - Mace	Mace was reporting a memory allocation error as a note and not as an error. Fixing the utility base code resolves the issue.	17950753
Domain Utilities - Optimize Domain	OptimizeDomain is fixed to filter Higher Based Intersection (HBI) measures while processing local domains.	17979824
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.	18340635, 18398618
Domain Utilities - RPAC	The ability to set and assert values at aggregate levels is now provided in RPAC.	17707899
Domain Utilities - scanDomain	Scan Domain was taking longer to finish as user directories were included in the scanning. Fixing Scan Domain to filter user directories improves the performance.	18015759
Domain Utilities - SyncNAValue	This utility now has a -report option to provide a list of measures whose measure NA values differ from their measure array's NA value. For more information, see the *Oracle Retail Predictive Application Server Administration Guide*.	18308267
Domain Utilities - SyncNAValue	The SyncNAValue utility is modified to make it to work on the entire domain. An additional -report option is provided to list the measures whose measure and array NA values are different.	18391199
RpasFunctions - ResizeProfile	ResizeProfile was aborting when the destination length was less than or equal to 0. It is now fixed to return an NA value, log a message, and continue without aborting.	18322162
Server - Bridge	While marshalling position format data, the bridge transcodes the data from the client code page into the server code page. When the position format was empty, this caused an issue. Fixing the bridge layer to transcode only when the string length is greater than zero resolves the issue.	18391805
Server - Calc Engine Aggregation	Calc engine was failing when both the Left Hand Side (LHS) and Right Hand Side (RHS) measures in an expression had their aggregation method as hybrid. The reason is the temporary array generated by calc engine during the aggregation did not have its NA value set properly. Fixing the NA value of the temporary array by setting it to the RHS measure's NA value resolves the issue.	17905011

Affected Component	Fixed Issue/Defect	Defect Number
Server - Calc Engine Spreading	Spreading for EOP measures was not working correctly when executed through a custom menu, which is a full mode evaluation compared to incremental mode. The spreading logic is corrected to keep the spreading behavior the same for both full and incremental mode evaluation.	17869824
Server - Calc Engine	String replication was causing issues during calc engine spreading. The replp spread method was not handling the string replication correctly. Fixing the spreading logic resolves the issue.	18397707
Server - Copy/Paste	If cells locked at the base level were aggregated and then pasted with copied values, the locked cells were getting updated at the base level. The paste functionality on the server side is corrected to check whether a cell is locked or not.	17824753
Server - Format	Saved styles were causing a forecast approval workbook build to fail. The saved styles were showing a worksheet which was later removed. Fixing the styles logic resolves the issue.	17858513
Server - MultiSource	The existing LHS measure values were not getting cleared while executing MultiSource. It is now fixed. The LHS measure is cleared before the RHS measure values are set.	18238072, 18391889
Server - RPAS Functions	The RPAS Attribute function was taking longer to execute. Server code is modified to fix the performance issue.	18178132, 18504511
Server - Special Expression	Running a RankSort expression using Mace resulted in a memory allocation error. Fixing the memory allocation and memory cleanup resolves this issue.	17860491, 18422449
Server - Workbook	Workbook build issues were caused due to a case mismatch in the format data. Fixing the template code on the server side by converting the case to lower resolves the issue.	18391839
Server - Workbook POP	Pasting data from a POP measure at a higher intersection into another POP measure at a lower intersection was causing issues. Creating a measure instance for the destination measure at the auxiliary intersection of the source measure fixes this problem.	18301548, 18422488

Known Issues

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

Affected Component	Known Issue/Defect	Defect Number
Fusion Client - Pivot Table	In certain cases, after row resize, rows get misaligned.	18532306
Fusion Client - Translation	Users were observing traditional Chinese characters instead of simplified Chinese characters even when the language selected was simplified Chinese. This issue is being researched.	16552922

Related Documentation

For more information, see the following documents in the Oracle Retail Predictive Application Server 14.0.1 documentation set:

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

- *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 14.0.1 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.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit
http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit
http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

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