

Oracle® Retail Predictive Application Server

Release Notes

Release 14.1.3

July 2016

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 133398.1)

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.

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 14.1.3:

Affected Component	Fixed Issue/Defect	Defect Number
Classic Client	Whenever a user tried to build the Auto Workbook Maintenance workbook in the Classic Client, it sometimes crashed after selecting an owner for the workbook. The format of the stored selections changed recently, and the new and old formats are just different enough to cause a problem. Going forward, both formats can be read, but will only be written in the new.	23001137
Config Tools	An error in the rule validation system used by the Configuration Tools was resulting in rules that contained the <code>resize</code> or <code>resizeProfile</code> functions being marked as invalid when they were, in fact, valid. This error is corrected.	22730129
Config Tools	A bug prevented the Configuration Tools from opening some existing configuration. The bug is fixed.	23013990
Config Tools, Translation	In one narrow case (the picklist measure range was typed in to the measure property in Configuration Tools, the range was overridden at the workbook level, and the overridden range contained only one list item), translations were not being generated for picklist measure list values. This is fixed; translations will now be generated in this case.	21503580
Configuration, Functions	For measures stored in the relational database in domains using Hybrid Storage Architecture (HSA), the timeshift procedure was giving incorrect results. This is corrected.	22653122
Configuration, Functions	The <code>rounddown</code> function was giving results that were slightly off in some cases. The function is modified to give the expected results in these cases.	22979300
Export to Excel	When exporting data to Excel, the formatting of the headers and cells was sometimes inconsistent. This is fixed.	22726803
Fusion Client	If a custom menu runs past the session timeout specified in <code>config.properties</code> , when the timeout pop-up is thrown, it is blocked by the custom menu execution notice. The result is that the user cannot click on the Ok button to keep the session alive. The interaction between these two notices is modified so that the Ok button for timeouts is always accessible.	19335211
Fusion Client, Alert Manager	A user trying to open the Alert Manager, without having access to all of the dimension positions to be used in that workbook, received an error. This behavior is amended to generate a warning message instead (and not build the workbook).	23097962
Fusion Client, Classic Client	RPAS was occasionally showing "-0.0" after multiplying a zero by a negative number. RPAS now treats and shows any zero value as just a zero, without a sign.	23247698
Fusion Client, Copy/Paste	The "Paste from External" operation in Copy/Paste was not obeying the limit set by the property <code>ccp.max.selection.size</code> in <code>rpasConfig.properties</code> . The code now properly respects this limit.	23111596
Fusion Client, Dimension Splitting	When using level splitting on a DATE attribute, the date was not displayed and data was not split. The portion of the code preventing this from working is fixed.	20111000

Affected Component	Fixed Issue/Defect	Defect Number
Fusion Client, Pivot Table	At high screen resolutions (1600 x 900, 1920 * 1080, and higher) and text size set to 125% of normal or greater, the pivot table rows were not aligning correctly. The style associated with the pivot table that was causing this is updated to eliminate this problem.	21222589
Fusion Client, Pivot Table	Moving a dimension tile to the second from the left spot on the z-axis sometimes resulted in an error pop-up. This was only observed on views that were copies of other views. This is fixed.	22110020
Fusion Client, Server	The communication between the RPAS Server and the Fusion Client was not distinguishing between a measure's NA value or its special value. This caused some confusion, as a given cell's contents on screen might not show the same value in an export. The communications layer between the server and the client is enhanced to clearly distinguish between the measure's NA value and its special value.	20425395
HSA, Aggregation	Shared measures (those that live in the RDM) in a workbook were not updated at aggregate levels when the Refresh button was pushed. This is fixed.	22652938
HSA, Commit	On a domain with HSA enabled (only), it was not possible to commit a measure where the base intersection contained a dimension belonging to an alternate hierarchy. This is fixed.	22811051
HSA Utilities	There have been a few occasions where one or more fact table partitions have been created with a system-generated name, instead of the expected "P###" name. In every case, it has been the last one or two partitions in a table that get the system-generated name. This causes most HSA functions to not work when that incorrectly named partition is encountered. This is corrected.	22597777
HSA Utilities	In some cases, where there was a partitioned RDM and all users had separate tablespaces, loadFactData failed. This was because the staging tables are created in the DATA_MART tablespace, and the FACTLOAD user did not have a quota on that tablespace. To resolve this issue, prepareSchemas.sql is updated with additional statements to give quota (fixed to 500 M) for BATCH, FACTLOAD, DATA_MART, WKBK, and ETL users.	22752943
HSA Utilities	Renaming a fact group using patchRDM and then attempting to build a workbook that contained a measure from the renamed factgroup failed. The utility is updated to make sure the renamed tables are accessible for workbook builds.	22782499
HSA Utilities	The utility rdmMgr was crashing when the -schemaInfo parameter was a directory instead of a file. A check is added to detect this situation and warn the user.	22808165
HSA Utilities	Some materialized views were not being refreshed as designed, leading to problems with some commits and the use of the utility transferFactData. To address these concerns, the materialized views are replaced with regular views.	23022458

Affected Component	Fixed Issue/Defect	Defect Number
HSA Utilities	The utility loadDimData was failing when the DB parameter SQL92_SECURITY was set to TRUE. This basically means that a user must also have SELECT authority on an object if executing an UPDATE or DELETE which has a WHERE clause. This is resolved by granting the SELECT privilege on the dimension translation table in addition to INSERT, UPDATE, and DELETE privileges. Users experiencing this problem should re-execute the grantPrivileges.sql file to resolve the issue.	23087768
HSA Utilities	The rdmPartitionManager utility generated a very large redo and undo log while running on exceptionally large domains. This could possibly cause problems when the log size approached the available disk size. To address this concern, the single update and commit is broken into smaller updates with individual commits.	23087871
HSA Utilities	When a fact group had a single fact, and its fact group name was changed, patchRDM updated the fact table name but not the associated index's name. The code is changed to rename the index along with everything else.	23179122
HSA Utilities	Adding a new shared measure to a new group caused patchRDM to fail in some cases. The observed case was with a measure that had an intersection that was a single dimension in the product hierarchy, and that dimension was below the partition dimension. This case is now detected and handled appropriately.	23239822
HSA Utilities	The utility loadDimData stopped working after running upgradeRDM to upgrade the environment from 14.1 to 14.2 or later. The cause of the problem has been identified and corrected.	23336309
HSA Utilities	When loading a new calendar hierarchy file which purges the oldest year and adds a new year, loaddimdata purges data as expected, but does not load the new calendar positions. The logic used to create the new positions is adjusted to correct this issue.	23575681
Real Time Alerts, Custom Menus	Real-Time Alerts (RTA) and Custom Menus (CM) were not interacting well in specific situations. The exact use case involved editing a cell flagged by RTA, and then using a CM to take some action on the edited data. Doing this a few times would produce the error. This is resolved.	23182192
Server, Logging	The server logging is enhanced to capture more information about issues with attributes, styles, and so on. This should allow faster identification of issues related to these areas when problems arise.	23248841
Server Utilities	The utility regMeasure was allowing registration of measures with an absolute path to the measure's database. This was causing problems for other utilities, such as copyDomain. This is changed so that regMeasure converts absolute paths to relative paths.	23060299
Server Utilities	Toggling the "Saved Access" type in the Auto Workbook Maintenance workbook was clearing previously-entered information. This is corrected.	23081522

Affected Component	Fixed Issue/Defect	Defect Number
Server Utilities	The convertDomain utility was introducing errors into the domain structure, causing other utilities, such as reindexDomain, to fail. This was happening in one spot in the code, where an array's listed size was different from its actual size. This error is corrected.	23095156
Server Utilities	The usage for DomainDaemon is updated to clarify the usage of the argument -debuggerWait.	23220755
Server Utilities	RPAS was occasionally leaving behind files used in processing commands (for example, a mace command, followed by fixDomain). RPAS now properly cleans up after itself in these cases.	23235695
Server Utilities	The behavior of the utility wbmgr was confusing around whether to use the internal RPAS user ID or the name generally shown for a user (not necessarily the same). As a result, calling the utility with the wrong user specifier did not do what was intended. The utility now clearly shows the two different values, and the behavior matches the documentation.	23342112
Server Utilities, HSA Utilities	The utility loadHier was failing when several conditions were present: the new product hierarchy file caused the removal of positions, the positions removed were enough to completely remove a local domain, and the domain was using HSA. This was due to the timing of refreshing caches used during the process. The cache refresh strategy is shifted to prevent this occurrence.	23002405
Server Utilities, rpasInstall	Attempting to register measures with empty label fields (for example, as part of a domain build) was generating errors. The code is updated to work properly when a measure has an empty label field.	23021247
Translations	The date format specified for the Swedish language was incorrect. This is fixed.	22996290
User Accounts	When a user's account was locked by the administrator, and that user attempted to log in, the user was not informed that their account was locked. This is corrected.	22506515
Workbooks, Editing	Attempting to input "1-" (as opposed to "-1") was causing an error. It is now possible to enter negative numbers as, for example, "1-".	22649686
Workbooks, Editing	In a workbook, attempting to input an integer equal to the maximum allowed value for the cell caused an unhelpful error. Going forward, the same cell will take the maximum value, and if it cannot handle an input, the error message is more informative.	22658119
Workbooks, Profiles	Switching profiles could sometimes cause an error depending on where the measure tile was located. This is fixed.	22611753

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, Hierarchies	After creating a workbook and displaying Product and Measure on the Y-axis, sometimes the Product label is not completely displayed. If the row or column is resized, the label may disappear completely. Changing the column width or the height or width of an adjacent column will often, but not always, restore the label.	22648527
Fusion Client, Picklists	As a result of another enhancement, in some cases, Fusion Client is adding a measure's NAValue as a picklist option. The control over when this option is added and when it is not needs to be refined.	23309998
Fusion Client, Wizards	While using the wizard to create a new workbook, and selecting a large number of positions within a step, the number for "Rows Selected" is not displayed correctly. Only the leftmost digits are displayed fully, the fourth digit is partially shown, and all the digits to the right of that are obscured. There is also an issue where this field is not accurately reporting the actual number of selected items. This appears to be related to the number of items selected, and for smaller selections, the number shown matches the number selected.	19149826, 23509554
Fusion Client, Wizards	In some cases, it is necessary to click the Remove All button several times in order for all of the items removed from the selected list to the available list.	20157358
Fusion Client, Wizards, Find	When creating a workbook in a global domain containing a large number of products (approximately 100k), the Find in the Available Products tree in the Wizard is unable to keep the position. The Find seems to jump down to the position and then it jumps away. The issue only seems to occur when working in the Global domain.	21644575
Server Utilities, Alert Manager	The Batch Alert Manager (on the home page) is sometimes showing data incorrectly. For example, it might show a local domain instead of a global domain at the root of the tree in the tree view, or alerts may not sum correctly. The actual alerts are being calculated properly, however.	23481387

Related Documentation

For more information, see the following documents in the Oracle Retail Predictive Application Server 14.1.3 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 User Guide for the Fusion Client*
- *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 14.1.3 Cumulative Fixed Issues (Doc ID 1926954.1)

This document details the fixed issues and defects for all RPAS patch releases prior to and including the current release for the 14.1 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

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