# Oracle® Retail Predictive Application Server

Release Notes

Release 14.0.3

June 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.

### 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.

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## 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 14.0.3:

| Affected Component | Fixed Issue/Defect | Defect Number |
|---|---|---|
| Classic Client | When a user selected a region of cells to copy and that selection scrolled off the screen, only the visible part of the selection was actually copied to the clipboard. This is corrected. | 20532890 |
| Classic Client | Attempting to sort a column of dates by clicking on the column header could cause an exception to be thrown. This happened when the date measure had a special value NULL type. This is corrected. | 20631170 |
| Classic Client | RPAS now warns, but does not forbid, users from saving a workbook with an existing name. | 20638146 |
| Classic Client, Charting | In most cases, users are able to drag points around on a measure in the grid view and have the results saved to the underlying measure. This fix addresses an infrequent scenario where this was not the case. | 20659651 |

| Affected Component | Fixed Issue/Defect | Defect Number |
|---|---|---|
| Config Tools | There are many updates and improvements with Java 8. Some of these affect how certain things within the Configuration Tools are handled. The Configuration Tools are updated to work with both Java 7 and Java 8. | 20421040 |
| Config Tools | In some cases, the Configuration Tools did not recognize a copy of a rule (to a new rule group) as an edit, so the changes were not retained on a save. This is fixed. | 20521608 |
| Config Tools | Running the rules validation in Configuration Tools could sometimes cause a valid rule to be flagged as invalid. This is corrected. | 20611667 |
| Config Tools | Under some conditions, using the filter in the column header of the measure interface could produce inaccurate results. This is corrected. | 20695377 |
| Config Tools | Even though the Configuration Tools allow rule names to include an underscore ("_"), the filter on the Add Existing Rules popup did not allow users to actually use that character to search for existing rules. This is corrected. | 21035338 |
| Config Tools | Trying to load a configuration in the Configuration Tools caused an error when a position query in the solution was based on a measure that existed in a separate solution, and that measure had not been imported from the first solution. This condition no longer causes an error, and loads correctly allowing the underlying cause to be addressed. | 21135626 |
| Config Tools | For picklist measures with workbook-level overrides, translation placeholders were not being generated by the Configuration Tools. This oversight is addressed. In addition, all translations for overridden properties are contained in the file r_measlabel.ovr, unlike normal picklist translations, which are contained in r_measpicklist.ovr. | 21157252 |
| Fusion Client | Cells in a pivot table can potentially have more than one style that applies. The order in which these styles are evaluated to be applied was sometimes obscuring information important to the user. The evaluation of the order in which styles are applied is adjusted. | 18898454 |
| Fusion Client | In a wizard, selecting all calendar positions prior to the elapsed threshold incorrectly resulted in data for that time frame being editable. This is no longer the case. | 20229634 |
| Fusion Client | In some cases, it was possible to get Fusion Client into a nonresponsive state by editing a cell, clicking Enter, and then clicking Calculate. This is no longer possible. | 20306848 |
| Fusion Client | Opening a workbook at the global level that was intended to be used in a local domain could sometimes cause an initialization error in the Fusion Client at workbook build time. The conditions that lead to this error are now checked for and handled. | 20343412 |
| Fusion Client | In a workbook with multiple views and level splits, the edit dialog did not keep track of what splits were applied to which views. This is corrected. | 20355322 |

| Affected Component | Fixed Issue/Defect | Defect Number |
|---|---|---|
| Fusion Client | In a workbook wizard, the Find Next arrow was forgetting its place, preventing further searching for a value. This is corrected. | 20501382 |
| Fusion Client | The wizard for the Measure Analysis workbook was incorrectly remembering the user's selections for measures. This is fixed. | 20554415 |
| Fusion Client | Previously, when dealing with a picklist-type measure, it was not clear whether the user was saving the picklist NA value or the configured special value. This is clarified to be the NA value. | 20557438 |
| Fusion Client | A measure with aggState read only could still appear as editable on a worksheet with a base intersection higher than that of the measure. Fusion Client now detects this case and correctly does not allow editing of the measure in the workbook. | 20604671 |
| Fusion Client | A very particular set of steps could cause a Java exception in Microsoft Internet Explorer 10 when resizing a row or column. The underlying code gap is closed. | 20709662 |
| Fusion Client | When adding a position through Dynamic Position Maintenance (DPM), the code was incorrectly clearing associated formatting information. The formatting is now retained. | 20778987 |
| Fusion Client | When a measure has a set of picklist values defined by another measure with a special value defined, it was often showing blank instead of the selected option or the assigned special value. This behavior is updated to show the selected option, or if that is the null value, show the measure's special value. | 20894926 |
| Fusion Client | In the ant.install.properties file used for Fusion Client installation, if the /logs and /tmp directories were specified to be the same directory, the install failed. The installer now checks for this condition and warns the user when it is detected. | 20989505 |
| Fusion Client | In the dimension popup boxes on a worksheet, the validation code was being called repeatedly when the user clicked Ok or Apply. This resulted in the same warning being displayed multiple times to the user. The code now only calls the validation code once in this circumstance. | 21088904 |
| Fusion Client | In the dimension popup box, making changes in the Attributes and Sort tab and clicking Apply resulted in attributes, selected to be visible attributes, not actually being visible. This is fixed. | 21155400 |
| RPAS Installer | This issue is a follow-on to the Config Tools fixed defect 21157252. It addresses a fix for an issue found during testing in another part of the product. | 21263912 |
| RPAS Server | References to extended measures could persist in saved formats even after the extended measures had been deleted. This resulted in the extended measures still being available in the workbook. Patching now updates the saved formats to match the actual extended measure definitions. | 20103069 |

| Affected Component | Fixed Issue/Defect | Defect Number |
|---|---|---|
| RPAS Server | The domain utility copyDomain was running instances of mapData sequentially, even with the maxProcesses parameter set greater than one. Other sub-processes invoked by copyDomain were running in parallel. With this fix, mapData is executed in parallel as expected. | 20431817 |
| RPAS Server | Running copyDomain with the -skipInput or -clone parameter did not create either the input or output directories in the destination domain. This might have caused problems when attempting to run batch on the cloned domain. The copyDomain utility is updated to create the input, input/processed, and output directories in the destination domain if they do not already exist. | 20517437 |
| RPAS Server | Due to the discovery of vulnerabilities, support for several SSL protocols is discontinued. Updating to Java 7 update 75 or later is also strongly recommended. | 20531711 |
| RPAS Server | Attempting to sort a column of dates by clicking on the column header could cause an exception to be thrown. This happened when the date measure had a special value NULL type. This is corrected. | 20567775 |
| RPAS Server | The wbmgr utility was interpreting a supplied value as a user name for the -list argument, but as a user ID (internal RPAS user identifier) for the -remove argument. This was resulting in inconsistent and confusing behavior in the utility. This is corrected to be consistent in interpreting the supplied value as a user name. | 20616541 |
| RPAS Server | A new environment variable, RPAS_ALERTNAVIGATIONTHRESHOLD, is added to specify the override for the default threshold in the alertMgr utility. This should help with some usability issues with alertMgr. | 20866174 |
| RPAS Server | In some cases, reclassing part of the hierarchy from one local domain to another could result in the loss of some measure data. This is corrected. | 20926427 |
| RPAS Server | In some cases, reclassifying positions was running much more slowly than expected. The speed of this operation is sensitive to the selection of the iteration method done by the code. With this fix, the formula that controls the selection of the iteration method is tuned. | 21217258 |
| RPAS Server | The regMeasure utility was not respecting the environment variable RPAS_PROCESSES, and was instead running serially over each local domain. This could result in a performance hit when dealing with a significant number of local domains. RPAS_PROCESSES is now utilized by regMeasure. | 21235517 |
| RPAS Server, Alert Manager | A new environment variable is added to allow more control over the alert navigation threshold in the Alert Manager. | 20866185 |

| Affected Component | Fixed Issue/Defect | Defect Number |
|---|---|---|
| RPAS Server, Classic Client | When adding a DPM position in the Classic Client, the system auto-advanced to the next DPM position when the user clicked Apply. If the user subsequently clicked OK, two positions were created. This behavior is revised so that the dialog does not auto-advance to the next DPM position. | 20644341 |
| RPAS Server, Formatting | Users may occasionally have experienced a style format exception when trying to open a saved workbook. This was due to some style elements being saved with inconsistent names. This should no longer occur. | 21129787 |
| RPAS Server, Mace | Occasionally, running a rule group in a local domain would fail, while running each expression in the rule group individually would succeed. This was due to some array metadata being out of date. This is corrected. | 20702363 |
| RPAS Server, Mace | Mace was sometimes reporting a failed rule group evaluation due to being unable to remove directories used in a calculation. | 21092115 |
| RPAS Server, Mace | In some cases where an expression contained a javaexpression, running that expression in mace could succeed while running a rule that contained that expression might fail. This was because of slight variations in how RPAS managed the locking of the measure arrays involved. The locking strategies are updated to allow these types of expressions to run regardless of context. | 21104972 |
| RPAS Server, Rules | The attribute function was sometimes calculating an incorrect value at an aggregate level. This calculation is adjusted to give the correct value in this case. | 21065197 |

## Known Issues

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

| Known Issue/Defect | Defect Number |
|---|---|
| The number of rows selected is truncated when more than three digits are entered in the Fusion Client wizard. This requires an ADF fix. | 19149826 |
| Row misalignment occurs after scrolling with a browser zoom greater than 125%. This requires an ADF fix. | 19501266 |
| Users are not able to move tiles without an error occurring. A workaround is available, but the issue is still being investigated. | 20992568 |

## Related Documentation

For more information, see the following documents in the Oracle Retail Predictive Application Server 14.0.3 documentation set:

- *Oracle Retail Predictive Application Server Administration Guide for the Classic 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 14.0.3 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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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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