

Oracle® Retail Predictive Application Server

Release Notes

Release 13.0.4

July 2009

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 *RPAS Installation Guide* for information about the following:

- Hardware and software requirements
- Oracle Retail application software compatibility information

Note: The RPAS Client will not be supported on Windows 2000 after the 13.0.4 release. The RPAS Server will not be supported on Sun Solaris 9 after the 13.0.4 release.

13.0.4 Patching Process

RPAS patches can be applied directly to an existing installation of the same major release. However, if moving from one major release to another, customers should install the new release first, and then patch it with the latest patch for that release. RPAS does not require customers to incrementally patch their installation.

An important aspect of patching is upgrading the existing RPAS domain to be compatible with the most recent patch that has been applied. This can be done with the RPAS utility `upgradeDomain`.

Though RPAS encourages customers to stay up-to-date with releases and patches, it is possible that some customers may not have been able to update to the current patch. At the time of the release of the 13.0.4 patch, Oracle Retail is aware of customer implementations that are still below version 12.1. Oracle Retail advises such customers to be sure to follow the process outlined in the 12.1 version of the *RPAS Installation Guide* to convert their pre-12.1 domain to a post-12.1 domain. Fundamental changes have been made to RPAS's storage layer, and pre-12.1 domains are not upgradeable to 13.0.4 domains simply with the use of the upgradeDomain utility.

For details of the patching process, please see the *RPAS Installation Guide* and the *RPAS Administration Guide*.

Technical Enhancements

RPAS 13.0.4 includes the following technical enhancements.

Translated Files

The translated .ovr files are now released in UTF-8 encoding. Any changes to these files need to be done with a UTF-8 capable editor.

Fixed Issues/Defects

The following table contains issues or defects that have been fixed for the current release.

Fixed Issue/Defect	Defect Number
Deleted DPM positions appeared in the Show/Hide dialog on the RPAS Client. Additionally, DPM Rollup became Formal when a workbook was rebuilt. These issues have been fixed.	7417201
Versioning mismatches for different utilities have been corrected.	7500499
When a workbook was built using the Auto-workbook build, it was built as an English-only workbook. Auto-workbook functionality is now enhanced so that the workbooks are built as multilingual.	7574353
When a Boolean measure with POPC aggregation was calculated at the aggregate levels, type-mismatch errors occurred. Although this is a usage error, the popcount aggregation was removed from the list of suggested aggregation methods for Boolean and Date-type measures.	7612074
Changing the active alert caused some positions to be hidden. This has been fixed—now automatic filtering on the new alert measure is not available. As a result, a warning appears in cases where the old filtering caused all alert positions of the new measure to be hidden.	7705371
The F-10 and F-11 functionality for finding the next alert did not start from where the user was. This has been fixed by modifying the code to be aware of the point where the user has shifted to by breaking the sequence of traversal and continuing the navigation from that point in a sequence.	7707931
The measure report from the RPAS Configuration Tools can now be generated from the command line.	7830873

Fixed Issue/Defect	Defect Number
The Edit/Fill operation in the RPAS Client now respects the upper and lower bounds on cells.	82106445
The RPAS Client occasionally crashed if changes were made on both tabs of the Show/Hide menu. This has been corrected.	8210716
Scalar measures registered through RPASINSTALL defaulted to a start value of -1. For scalar measures, the fieldStart property should default to 1 rather than -1, as it does in the regmeasure utility. The rtkappcnfgmeas utility was changed to conform.	8223343
Executing rpasInstall without its mandatory parameters failed but returned a success code (return code is 0). The install process has been fixed to exit with a return code of 1 when the usage message is triggered.	8227148
The RPAS Configuration Tools (version 13.0.3) allowed a maximum of 256 bytes for the label widths. When a length greater than 256 was entered for a dimension label, the corresponding field turned red. The label widths have been changed to allow 271 bytes.	8251533
The dimension level security was ignored when the hierarchy was not in the workbook wizard. When the workbook was built, a check was made to see if the dimension had been ranged down during the wizard process. If it was not ranged down, a copy was directly made from the dim_chnl array from hmaint.db. If the dimension was ranged down in the wizard, the ranged down dimensions would be taken while the workbook was being built. Therefore, when the dimensions were a part of the wizard, the problem didn't occur. This issue has now been fixed.	8259092
RPAS allowed the usage of the same name and label of an existing formal position to a DPM position addition. A check against existing internal names now prevents this.	8263677
When building an LP4 Plan In Season workbook, an Out of Memory error occurred. The workbook could not be used and the memory usage in the domain increased significantly. This has been fixed by adding two measures to reduce memory usage for the attribute value.	8272254
In the New Rule tool in the RPAS Configuration Tools, the Back button functioned but the Next button did not. Also, if the Close/OK was closed in the Rule dialog while in the Rule Name/Description window, any formula(s) would be lost. The logic to disable the Back button has been corrected to fix this.	8278392
The transformSum and transformProp functions were not being executed within the workbook in RPAS 13. TransformAgg did not handle the Internal/External Position map correctly, which caused the problem. This has been fixed.	8278707
The "measurerange=" value entered into the range field of the measure resulted in the editor failing to dismiss, which corrupted the view of the table. A failed range check caused by the lack of a second argument led to this ArrayIndexOutOfBoundsException. The range check has been added, and now the value is properly handled and marked as invalid.	8282721
Users were not able to edit a measure description that contained a single quote because the edit was always rejected. In general, the editor component rejects double and single quotes for all properties. A check to allow single quotes has been added to fix the issue.	8291475

Fixed Issue/Defect	Defect Number
When rules in the rule tool were removed, followed by an undo, the filtering on the rule pane stopped functioning reliably. A check has been added to prevent the IndexOutOfBoundsException from causing this. Now, when switching rule groups, the new rule group populates the display with the existing filter in place.	8292877
When changing some formatting attributes in the RPAS Client, the background color changed as well. The background color has been initialized to prevent this from occurring.	8292928
When the aggregation method was changed to hybrid, RPAS caused an error when building the workbook with the measure. This has been fixed.	8293043
In two tree wizard headers, %1 was displayed instead of a hierarchy name. This has been fixed: the hierarchy name is now displayed.	8293084
When translations are enabled before the initial hierarchy load, the labels are correctly loaded as the default language. However, when the dimension translations are added to an existing domain, all labels are blank unless the translations in the default language are also loaded. This has been fixed so that it defaults to the external position names when the default language is not loaded.	8297420
In RPAS 13 and beyond, the Configuration Tools did not save when the Use Custom Wizard check box was selected unless the Custom Wizard field was specified. This property now an independent property, and the check box persists.	8297729
The translated position labels in the global domain were not displayed when connected to a sub-local domain. This was due to an issue with the way dimensionMgr was set up for dimension positions on sub domains. This has been fixed.	8305211
When using .csv data files for loading string measures, the width property was ignored and strings longer than the specified width were loaded. This has been fixed. The string is now truncated to the maximum width specified.	8306764
The incremental load always ignored the current NA value and assumed it to be 0. At the end of the loading process, the NA value was actually changed to 0. This has been fixed so that the user does not see a change in the NA value after the incremental load.	8307794
A debug statement was printed even when the debug log level in the environment variable was overridden by the -loglevel parameter. This occurred because the debug statement was encountered after processing the environment variable but before processing the command line parameter. This has been fixed by commenting out the unnecessary debug statement.	8308111
When closing a maximized worksheet, the worksheet continued to appear on the screen. This has been fixed.	8323733
The RPAS Configuration Tools populated the task list with an error for measures that were checked as dimension attributes but that did not provide a dimension attribute name. The absence of any value for the dimension attribute name is now correctly treated as not providing an optional value rather than providing a value of "".	8323934

Fixed Issue/Defect	Defect Number
When changing a measure name and then saving and closing a configuration, the user could not open the configuration again if there was an extended measure whose base measure had the name change. This occurred because the extended measure was not automatically updated when the corresponding base measure names were changed. This has been resolved.	8324287
Some workbooks could not be deleted from the RPAS Client due to the case sensitive nature of the workbook name comparison. This issue has now been fixed.	8327595
Utilities such as fixArray failed to complete their operation when they ran on corrupted B-Tree arrays. The fixArray and copyDomain utilities the RPAS support libraries have been updated to better repair, verify, and transform the B-Tree arrays when their headers are corrupted.	8339211
A Linux specific issue resulted in reporting a false failure even when the shell script executed through a custom menu was completed successfully. Linux specific code has been added to properly report the success or failure of a shell script execution through custom menus.	8342253
When loading a calendar hierarchy with invalid day values where the month/day values were set to 0 (such as 20090100), no warnings were issued. This occurred because the date values were checked against the maximum value but not the minimum during validation. The loadHier process now fails when it encounters such invalid dates.	8355706
Dynamic sorting worked incorrectly with numeric measures; it behaved as if the content of the measure was always a string. This has been fixed by setting the sort type based on the measure type.	8356404
When modifying an image-enabled attribute in a workbook, the attribute would not be saved. This occurred because the workbook was not flagged when no other changes were made. This has been fixed by updating the controller logic.	8359338
The Save Attribute dialog box remained open even after closing the Attribute Definitions dialog box. This has been fixed, and now it is not possible to click other windows when the input dialog is open.	8363629
The AIP custom wizards were not showing all the active SKUs in the global domain even though they were shown in the local domains. This occurred because the pointers from the master to local domains were not updated after the loadhier process. Now, these pointers are regenerated at the end of each hierarchy load.	8368687
When mace invalidated an expression, it returned a 0. It now returns a non-zero when the execution of rules and rule groups do not complete normally.	8371796
When the summary value was changed and the volume group spread menu option was executed, it did not spread the delta to the affected stores in the volume group as expected and created an out-of-balance situation. The transformSpread functionality has been corrected to handle this.	8374162
When building a workbook, an error message appeared: "IllegalTranslation: LHS Dimension must equal specified dimension." This has been fixed.	8374649

Fixed Issue/Defect	Defect Number
Multiple error log lines were printed in the LoadMeasure utility. This made filtering a particular error message difficult since the error message was more than one line long. This has been fixed.	8391573
When autosaved, the _autosaved suffix appended to the workbook name was not translated to any of the supported non-English languages. This has been fixed.	8401782
A domain could be built successfully, but it could not be patched without the RPAS Install process causing an error. This occurred because a hierarchy with no dimensions was in the configuration. This has been fixed by introducing a check to skip such hierarchies and continue the install.	8408749
Locking a cell caused the wrong positions to be locked. This occurred when the right-hand-side cells in the spreadsheet were locked, when the cells were manually resized by the user, and when the spreadsheet was in zoom mode. This issue has been resolved now that the cell identification logic has been modified to consider each cell's size.	8409998
When measures with mismatching intersections were used in a timeShift call, RPAS produced incorrect results until the 13.0.2 release. Starting in the 13.0.3 release, an error message was sent when this occurred, but the message did not help the user identify the problem. In the 13.0.4 release, the user receives more detailed feedback when such calls are made.	8415535
When command line utilities did not print the output as library code, this changed the loglevel and did not set it back to the previous state. This issue has been resolved, and now the output is printed as expected.	8423358
When attempting to use the copy/paste worksheet functionality for worksheets that contained more than two position queries in the workbook designer of the Configuration Tools, problems occurred. The workbook duplicator, which handles Style ORs for P2P, has been modified and the worksheets now copy correctly.	8429829
When locking and unlocking cells, sometimes the incorrect cells were locked. This was due to an incorrect calculation of a cell size in the viewable screen area. This issue has been resolved. The calculation logic now locks the proper cells.	8432737
When opening an autosaved workbook, an Unexpected Cell Type error occurred. This was due to a string value being saved in a Boolean internal measure during the autosave process. This issue has been fixed. Now, the Boolean value is written back to the measure.	8432866
When the RPAS Client was used for the first time on an NT server, a foundation.ini file needed to be created, but unless the Client was installed in a standard location, it failed to create this file and therefore would not start. This was resolved by modifying the logic to create the file so that it worked independent of where the Client is installed.	8437159
When the RPAS Client Uninstall was used, it deleted shared dll files without prompting. This caused other RPAS Client installations to receive an error when starting the Client. This has been fixed.	8437371
The outer dimension positions were reset when the user scrolled through the inner dimensions in the Z Slice reason. This has been fixed, and users can now freely select dimensions one level down without scrolling back to the position they were in before.	8437513

Fixed Issue/Defect	Defect Number
Changing the base intersection of a measure used in a position query caused the workbook to crash. The trigger dimensions of a position query were stored in a string and were only calculated when the result dimension of the POS query was set. If another property changed, the trigger dimension would not update, causing the crash. This has been resolved.	8443853
When renaming and deleting workbooks, an error occurred. This has been fixed.	8448485
When users selected Apply Pattern while working on a filtered rule group, the wrong rule was used as the pattern for the operation. This issue has been fixed.	8463655
The worksheet tab title disappeared when a workbook was built using the RPAS Alert Manager. This occurred because a line to add the group ID and the tab's label was missing during this process. This issue has been resolved.	8470750
Errors occurred when attempting to connect to the domain using the JDBC client jdbcisql. This has been fixed by modifying the make files, and now the connection can be made successfully.	8471252
A RuleException error occurred in the Measure Analysis workbook upon the workbook build. This occurred because measures with defagg as RECLC were listed in the Measure Analysis workbook template. This has been fixed. The RECLC measures from the Measure Analysis workbook template are now prescreened.	8484756
When adding multiple DPM positions, the entire calculation group was executed after each position addition. Now, the calculation cycle is triggered at the end of the additions when the user closes the DPM position definition window.	8490670
After upgrading to RPAS 13.0.3.5, running loadHier on the planning domain caused an "RpasBTreeException:ArrayKeyCompression::decompressfailed:" error occurred. This has been corrected in the fixArray utility.	8493935
After a workbook was built, the date measures were displayed as 12310001 for cells that had an NA value. This has been fixed, and now the NA date cells are blank.	8503151
In environments that use a language other than English, the user was unable to add new positions in a workbook from a domain that was DPM enabled. When this happened, an error message occurred. This was caused by an ID mismatch for non-English dll. It has been fixed by synchronizing all language resource files with the default resource file.	8507487
RPAS did not move the fnhbi measure data for HBI dimensions on a partition hierarchy. This occurred because the function in the loadHier utility that was responsible for moving data for fnhbi measure was broken. This has been resolved.	8510663
In workbooks containing both HBI and non-HBI measures, the domain array values were not wiped out when the HBI values were wiped out and the workbook was committed. This issue has been fixed.	8516346
Users were unable to cut and paste at the aggregate levels. This has been fixed.	8523100

Fixed Issue/Defect	Defect Number
PNIMap deleted a position from all local domains if called from a global domain. This new behavior caused existing DPM functionality to fail in 13.0. This has been resolved.	8539428
After upgrading to RPAS 13.0.3.5, running loadHier on the planning domain caused an "RpasBTreeException:ArrayKeyCompression::decompressfailed:" error occurred. This has been corrected in the fixArray utility.	8493935
After a workbook was built, the date measures were displayed as 12310001 for cells that had an NA value. This has been fixed, and now the NA date cells are blank.	8503151
In environments that use a language other than English, the user was unable to add new positions in a workbook from a domain that was DPM enabled. When this happened, an error message occurred. This was caused by an ID mismatch for non-English dll. It has been fixed by synchronizing all language resource files with the default resource file.	8507487
RPAS did not move the fnhbi measure data for HBI dimensions on a partition hierarchy. This occurred because the function in the loadHier utility that was responsible for moving data for fnhbi measure was broken. This has been resolved.	8510663
In workbooks containing both HBI and non-HBI measures, the domain array values were not wiped out when the HBI values were wiped out and the workbook was committed. This issue has been fixed.	8516346
Users were unable to cut and paste at the aggregate levels. This has been fixed.	8523100
PNIMap deleted a position from all local domains if called from a global domain. This new behavior caused existing DPM functionality to fail in 13.0. This has been resolved.	8539428
After upgrading to RPAS 13.0.3.5, running loadHier on the planning domain caused an "RpasBTreeException:ArrayKeyCompression::decompressfailed:" error occurred. This has been corrected in the fixArray utility.	8493935
After a workbook was built, the date measures were displayed as 12310001 for cells that had an NA value. This has been fixed, and now the NA date cells are blank.	8503151

Known Issues

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

Known Issue/Defect	Defect Number
For some Windows machines, when the user clicks any editable cell where there is already a real number, only one digit of the value is displayed before everything disappears. Internally, the whole value is still there, and when the user clicks out of the cell, the original number returns. This behavior has been observed only on some machines. The reason for this display issue is under investigation.	8613396

Related Documentation

For more information, see the following documents in the Oracle Retail Predictive Application Server 13.0.4 documentation set:

- *Oracle Retail Predictive Application Server Installation Guide*
- *Oracle Retail Predictive Application Server Administration Guide*
- *Oracle Retail Predictive Application Server Configuration Tools Online Help*
- *Oracle Retail Predictive Application Server Configuration Tools User Guide*
- Oracle Retail Demand Forecasting documentation

Previous Releases

For additional 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.

Supplemental Documentation at My Oracle Support

The following document is available through My Oracle Support (formerly Metalink). Access My Oracle Support at the following URL:

<https://metalink.oracle.com>

Oracle Retail Predictive Application Server 13.0.4 Cumulative Fixed Issues (Doc ID 844679.1)

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

Copyright © 2009, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this software or related documentation is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, duplication, disclosure, modification, and adaptation shall be subject to the restrictions and license terms set forth in the applicable Government contract, and, to the extent applicable by the terms of the Government contract, the additional rights set forth in FAR 52.227-19, Commercial Computer Software License (December 2007). Oracle USA, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

This software is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications which may create a risk of personal injury. If you use this software in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure the safe use of this software. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software in dangerous applications.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

This software and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Value-Added Reseller (VAR) Language

Oracle Retail VAR Applications

The following restrictions and provisions only apply to the programs referred to in this section and licensed to you. You acknowledge that the programs may contain third party software (VAR applications) licensed to Oracle. Depending upon your product and its version number, the VAR applications may include:

(i) the software component known as **ACUMATE** developed and licensed by Lucent Technologies Inc. of Murray Hill, New Jersey, to Oracle and imbedded in the Oracle Retail Predictive Application Server - Enterprise Engine, Oracle Retail Category Management, Oracle Retail Item Planning, Oracle Retail Merchandise Financial Planning, Oracle Retail Advanced Inventory Planning, Oracle Retail Demand Forecasting, Oracle Retail Regular Price Optimization, Oracle Retail Size Profile Optimization, Oracle Retail Replenishment Optimization applications.

(ii) the **MicroStrategy** Components developed and licensed by MicroStrategy Services Corporation (MicroStrategy) of McLean, Virginia to Oracle and imbedded in the MicroStrategy for Oracle Retail Data Warehouse and MicroStrategy for Oracle Retail Planning & Optimization applications.

(iii) the **SeeBeyond** component developed and licensed by Sun Microsystems, Inc. (Sun) of Santa Clara, California, to Oracle and imbedded in the Oracle Retail Integration Bus application.

(iv) the **Wavelink** component developed and licensed by Wavelink Corporation (Wavelink) of Kirkland, Washington, to Oracle and imbedded in Oracle Retail Mobile Store Inventory Management.

(v) the software component known as **Crystal Enterprise Professional and/or Crystal Reports Professional** licensed by SAP and imbedded in Oracle Retail Store Inventory Management.

(vi) the software component known as **Access Via™** licensed by Access Via of Seattle, Washington, and imbedded in Oracle Retail Signs and Oracle Retail Labels and Tags.

(vii) the software component known as **Adobe Flex™** licensed by Adobe Systems Incorporated of San Jose, California, and imbedded in Oracle Retail Promotion Planning & Optimization application.

(viii) the software component known as **Style Report™** developed and licensed by InetSoft Technology Corp. of Piscataway, New Jersey, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.

(ix) the software component known as **DataBeacon™** developed and licensed by Cognos Incorporated of Ottawa, Ontario, Canada, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.

You acknowledge and confirm that Oracle grants you use of only the object code of the VAR Applications. Oracle will not deliver source code to the VAR Applications to you. Notwithstanding any other term or condition of the agreement and this ordering document, you shall not cause or permit alteration of any VAR Applications. For purposes of this section, "alteration" refers to all alterations, translations, upgrades, enhancements, customizations or modifications of all or any portion of the VAR Applications including all reconfigurations, reassembly or reverse assembly, re-engineering or reverse engineering and recompilations or reverse compilations of the VAR Applications or any derivatives of the VAR Applications. You acknowledge that it shall be a breach of the agreement to utilize the relationship, and/or confidential information of the VAR Applications for purposes of competitive discovery.

The VAR Applications contain trade secrets of Oracle and Oracle's licensors and Customer shall not attempt, cause, or permit the alteration, decompilation, reverse engineering, disassembly or other reduction of the VAR Applications to a human perceivable form. Oracle reserves the right to replace, with functional equivalent software, any of the VAR Applications in future releases of the applicable program.