

# **Oracle® Retail Predictive Application Server**

Release Notes

Release 13.0.1

May 2008

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- (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 and Oracle Retail Demand Forecasting 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.
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- (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.
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- (x) 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.



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# Preface

A Release Notes document can include some or all of the following sections, depending upon the release:

- Overview of the release
- Functional, technical, integration, and/or performance enhancements
- Assumptions
- Fixed and/or known issues/defects

Because of their brevity, Release Notes do not include chapters, appendices, or a table of contents.

## Audience

Release Notes are a critical communication link between Oracle Retail and its retailer clients. There are four audiences in general for whom a Release Notes document is written:

- Retail clients who wish to understand the contents of this release.
- Integrators and implementation staff who have the overall responsibility for implementing Oracle Retail Predictive Application Server into their enterprise.
- Business analysts who are looking for high-level functional information about this release.
- System analysts and system operation personnel who are looking for high-level functional and technical content related to this release.

## Related Documents

For more information, see the following documents in the Oracle Retail Predictive Application Server Release 13.0.1 documentation set:

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

## Customer Support

<https://metalink.oracle.com>

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

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## Review Patch Documentation

For a base release (".0" release, such as 13.0), Oracle Retail strongly recommends that you read all patch documentation before you begin installation procedures. Patch documentation can contain critical information related to the base release, based on new information and code changes that have been made since the base release.

## Oracle Retail Documentation on the Oracle Technology Network

In addition to being packaged with each product release (on the base or patch level), all Oracle Retail documentation is available on the following Web site:

[http://www.oracle.com/technology/documentation/oracle\\_retail.html](http://www.oracle.com/technology/documentation/oracle_retail.html)

Documentation should be available on this Web site within a month after a product release. Note that documentation is always available with the packaged code on the release date.

## Conventions

**Navigate:** This is a navigate statement. It tells you how to get to the start of the procedure and ends with a screen shot of the starting point and the statement "the Window Name window opens."

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**Note:** This is a note. It is used to call out information that is important, but not necessarily part of the procedure.

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This is a code sample  
It is used to display examples of code

A hyperlink appears like this.

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# Release Notes

## Overview

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

## Current Patch - RPAS 13.0.1

### Release Information

The following table provides information about the current release.

Release Information	Details
Code Cut Off Date	May 2, 2008
Supported OS, Server and Compilers	Sun Solaris 9 and 10: gcc 4.1.1 AIX 5.3 (TL5 or greater): gcc 4.1.1 HP-UX 11.23 (Itanium): aCC 6.15 Oracle Enterprise Linux 5: gcc3.4.6
Supported OS, Client	Windows NT, 2000, XP, Vista
Required 3rd Party Software	JRE 1.5 (installed on client and server machines)

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**Note for HPUX, AIX and Solaris Customers:** The libz.sl/libz.so is required by RPAS. The PATH environment variable should also include the directory in which it is located on the server. The environment variable for shared libraries is LD\_LIBRARY\_PATH for Solaris, LIBPATH for AIX, and SHLIB\_PATH for HPUX. This shared library typically comes pre-installed on AIX and Solaris operating systems; however, it does not come installed on HPUX servers and is not part of the standard C library. Libz.sl/libz.so may be obtained by contacting your Operating System customer representative.

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## Functional Enhancements

### Image Display in the RPAS Client

The ability to view images associated with specific positions is critical for assortment planning and may also be useful for other activities such as store planning. As part of the system configuration process, a workbook and specific dimensions for any non-calendar hierarchy may be enabled for image display. When image display is enabled, the user may:

- View an image associated with a chosen position.
- Compare images associated with two or more positions.
- Scroll through images of positions visible on the grid without having to bring up image displays for each of those positions individually.
- If permitted by the template, save, replace or remove the image associated with a chosen position.

A configuration and backend process may also be used to support the load of image paths for one or more positions of a dimension at a time. The paths of the images should be stored in a measure called “r\_images\_<dimension name>” where “<dimension name>” should be replaced with the RPAS name of the image-enabled dimension (e.g., “r\_images\_sku” if loading image paths for the “sku” dimension). This measure is single-dimensional, defined on the image enabled dimension. An .ovr file is required with position names and the image paths for those positions formatted according to the RPAS measure load formats. The loadMeasure utility is then used to load this data into the domain.

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**Note:** See the *RPAS Configuration Tools User Guide* and the “Position Images” section in the *RPAS User Guide* for more information on Image Display.

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## More Robust Elapsed Time Handling in Workbooks

Many RPAS models will cover a time horizon where some of the time periods are in the past, and other periods are in the future. There is special logic for handling such models; in particular, the manner in which time periods that are in the past (referred to as “elapsed periods”) affect spreading and the measure modifications. The bottom level time period, which is the latest elapsed period, is set through a rule.

RPAS assumes that time periods that are elapsed contain actuals, and that these actuals should not be editable. Therefore, all measures cannot be edited during elapsed periods. For positions at aggregated levels in a time hierarchy, the position is only elapsed when the last bottom level time period descended from it has elapsed.

RPAS allows you to change the elapsed threshold after a workbook is built using the workbook refresh or calculation processes. Using the elapsed threshold measure `r_elapsed` from a refresh or calc rule group, users can modify the elapsed threshold and avoid rebuilding their workbooks. In order to take advantage of this feature, you need to modify the workbook configuration such that the corresponding refresh or calc rule group contains a rule for updating the `r_elapsed` measure. This scalar measure should be included in a workbook so that it can be edited directly, or so that it is calculated or refreshed as an effect of editing other measures. At the end of the calc or refresh cycle, the RPAS Server inspects the elapsed threshold for any change. Any changes to the elapsed threshold are passed to the RPAS Client, which then reloads the new set of position locks.

In summary, this feature:

- Provides a configurable and automatic mechanism to update elapsed time data locks in workbooks.
- Removes the need for the user to rebuild workbooks due to stale data locks.
- Allows for elapsed time data locks to be updated through the execution of refresh and calc rules.

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**Note:** See the *RPAS Configuration Tools User Guide* for more information on Elapsed Period Locking.

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## Oracle User Interface Standards

The “Swan” user interface is a set of user interface definitions designed by Oracle. These interface definitions create a consistent interface for Oracle products and an improved user interface for application users. The Oracle Retail Predictive Application Server client has been updated to use the “Swan” color palette and fonts. In Oracle Retail Predictive Application Server, the following changes were made:

- The default read-only grid background color has changed from gray to white.
- The default writable grid background color changed from white to light blue.

This is a visible change to default read/write field colors for retailers upgrading from versions of RPAS prior to 13.0.

## Technical Enhancements

### Single Sign-On Enablement

RPAS can be enabled to use Oracle Application Server Single Sign-On (SSO). SSO is a component of Oracle Identity Management. In an SSO environment, a user signs on once with user name and password during a Web browser session. The SSO server authenticates the user, and this SSO identity is propagated to each SSO-enabled application used within the same browser session.

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**Note:** See the *RPAS Installation Guide* and the *RPAS Administration Guide* for more information.

**Note:** Please refer to the Known Issues section at the end of these Release Notes for information on a defect related to SSO.

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### Integration with Oracle Retail Workspace (ORW)

RPAS can be integrated with Oracle Retail Workspace (ORW). The integration between these applications is discretionary, and no data flows between the applications. ORW provides a single point of access to the Oracle Retail applications used by your business. It also provides an integrated platform that can display operational and analytical information from multiple sources. ORW functionality provides single sign-on, central launch, role-based security, user management and retailer-specific customization capabilities. ORW also provides a kit and instructions for dashboard development. For more information, see the Oracle Retail Workspace documentation.

### Oracle Configuration Manager

Oracle Configuration Manager is an optional configuration data collector that provides continuous tracking of key Oracle and system configuration settings for machines on which it is installed. This tool collects configuration details for customer environments and uploads them to a repository that is viewable through the Software Configuration Manager Metalink Web site. The OCM collector is optionally installed as part of your application installation.

Using Oracle Configuration Manager can reduce a retailer's support costs by providing extra configuration information that otherwise requires a phone call or e-mail correspondence.

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**Note:** Sensitive configuration information (such as passwords) is not included in Oracle Configuration Manager data collection.

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## Java 1.5 (5) Support

RPAS 13.0 requires Java 1.5. The 11.0, 11.1, 12.0 and 12.1 versions of RPAS currently support Java 1.4. A new environment variable value is required in the PATH variable:

- Variable Value: path to the root of the Java client directory (e.g.,  
/Java/jre1.5.0\_14/bin/client;)

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**Note:** See the *RPAS Installation Guide* for more information.

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## Operating System Certifications

The following Operating System Certifications have been completed for this release:

- AIX 5.3
- SUN Solaris 9 and 10
- HP 11.23 Itanium
- Oracle Enterprise Linux 5
- Windows NT, XP, Vista
  - Client-only certification
  - RPAS server support provided solely for prototyping purposes

## New RPAS Procedures

RPAS has added several new procedures that may be configured in any RPAS solution.

- **RankSort**  
Returns the rank of intersections given the rank order (ascending or descending), the measure to rank upon and the dimensions to rank over.
- **transformSum**  
Converts data across hierarchies using sum aggregation.
- **transformMax**  
Converts data across hierarchies using max aggregation.
- **transformOr**  
Converts data across hierarchies using or aggregation.
- **transformProp**  
Converts data across hierarchies using proportional spreading.
- **transformEven**  
Converts data across hierarchies using even spreading.
- **transformRepl**  
Converts data across hierarchies using replicate spreading.

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**Note:** See the *RPAS Configuration Tools User Guide* for more information on the usage of these procedures.

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## Buffer Size Enhancements

RPAS now allows the specification of an absolute minimum size for the buffer of a dimension. If both the minimum buffer size and buffer minimum percentage are defined, the dimension is re-buffered to generate the appropriate buffer positions based on the higher value.

For example, on a dimension with 100 currently in-use positions, if the minimum and maximum percentages were 10% and 20%, then about 15 available buffer positions would be created. If a minimum buffer size of 25 is defined, then the dimension would get re-buffered to have 25 positions since that is the larger value. However, if the dimension then grew to 200 current in-use positions, the percentage target would grow to 30 buffer positions, and the 25 position minimum would no longer be relevant. The primary advantage to the new minimum buffer size is that it works well for dimensions which have very few current positions (or even none).

The new minimum buffer size can be set in one of following ways:

- A new optional field is supported in the hierarchy.xml file at domain creation time as shown below:  
`<buffer_size_min>20</buffer_size_min>`
- Using the `-minBufferSize` command with the `dimensionMgr` utility

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**Note:** See the *RPAS Administration Guide* for more information.

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## dimensionMgr Utility Enhancements

`dimensionMgr` utility enhancements have been implemented to provide improved support for dimension buffering, Dynamic Position Maintenance (DPM), and translation.

- The output of the `-specs` command now indicates whether DPM is enabled.
- The `-enableDPM` command allows the updating of a domain to enable DPM on a particular dimension.
- The `-enableTranslation <width>` command allows dimensions in a multi-lingual domain to be updated to allow the loading of translated labels.
- The `-minBufferSize` command can impose an absolute minimum for the buffer of a dimension.

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**Note:** See the *RPAS Administration Guide* for more information.

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## Java Special Expression API

The Java Special Expression API is a work in progress, and the interfaces are not yet stable and will not be supported in the future. All code written against this interface may have to be re-factored in the future

## Integration Enhancements

### Comma Separated Value (CSV) Flat File Format for Data Load and Export

RPAS now provides the ability to load and export data using the CSV format in addition to the existing support for flat files in fixed formats. This ability:

- Reduces the size of the data files by eliminating the unnecessary blank characters needed in the fixed format.
- Allows for the faster loading of input files since it reduces the required amount of I/O.
- Includes support for reducing the size of the data files by providing a compressed representation for repeated measure values.
- Includes enhancements to the loadMeasure and loadHier utilities.
- Includes new utilities (exportHier and exportMeasure) that provide support for the export of hierarchy and measure data in CSV flat file format.
- Includes support for exporting data at an aggregated level or the level lower than the base intersection of the measure.

#### exportHier Utility

exportHier is a command-line utility that may be used to export all the positions in a hierarchy, including rollup relationships, from RPAS. By default, the utility assumes that the file will have a CSV flat file format with fixed width format as an optional argument. The utility will export all hierarchy positions, but the file may be specified to include only formal or informal positions. The resulting file will have a .dat extension.

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**Note:** See the *RPAS Administration Guide* for more information.

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#### exportMeasure Utility

exportMeasure is a command-line utility that may be used to export domain or workbook measure data from RPAS in either CSV or fixed width file format. A single measure, or multiple measures, may be exported based a specified intersection. If the measure's base intersection is not the same as the export intersection, the measure's default aggregation method will be used to aggregate data to an intersection higher than base, or replication will be used for spreading measure data if the data is required at an intersection lower than base. exportMeasure also allows a simple compression method that can skip duplicated values line by line. This utility:

- Supports export data in a user specified range, which can be a single mask measure, or a range specified on Calendar dimension, or a combination of the two.
- Supports multiple processes for better performance in a global domain environment.

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**Note:** See the *RPAS Administration Guide* for more information.

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## loadHier Utility Enhancements

loadHier has been enhanced to support the load of hierarchy data into RPAS using a CSV or fixed width flat file format. The utility has also been enhanced to allow a simple compression method that can skip duplicated values line by line. Due to the compression algorithms used in the CSV format, the -nosort option will automatically be activated when CSV is detected. To use a CVS (Comma Separated Value) formatted file to load hierarchy data, place “.csv” before the file extension (e.g., “calendar.csv.dat”).

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**Note:** See the *RPAS Administration Guide* for more information.

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## loadMeasure Utility Enhancements

loadMeasure has been enhanced to support the load of measure data into RPAS using a CSV or fixed width flat file format. The utility has also been enhanced to allow a simple compression method that can skip duplicated values line by line. To use a CVS (Comma Separated Value) formatted file to load measure data, place “.csv” before the file extension (e.g., “rsal.csv.ovr”).

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**Note:** See the *RPAS Administration Guide* for more information.

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## Re-using Aggregate RPAS Reporter Tool Queries

Aggregated results from previous RPAS Reporter Tool (ODBC driver) queries against a global domain or workbook are stored and are available for reuse. Aggregation results are stored by the user in the master domain in a folder called AggregateDatastore. Database and array names are constructed from measure names and the corresponding intersection at which data is stored. Aggregations are maintained throughout the life of a connection. At its termination, each connection cleans up all the aggregate data generated during its life time.

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**Note:** See the *RPAS Administration Guide* for more information.

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## Oracle Retail Quality Assurance Methodology

The RPAS Quality Assurance Team is responsible for ensuring that each patch released to our customers meets high quality standards. In addition to the verification of high priority customer defects fixed within the patch, the following testing summarizes the QA test methodology employed for each patch release based on RPAS 13.0.

### Supported Platforms

Testing is conducted on all supported operating systems. RPAS 13.0.1 is certified on AIX 5.3, HP 11.23 Itanium, Solaris 9, Solaris 10 and Linux.

## Testing Configurations

A total of seventeen configurations are utilized to test the breadth of functionality within the RPAS platform and applications. Simple domain, global domain, and multi-language environments are employed using the following GA configurations:

- Demand Forecasting with Promote, Grade, and Curve
- Grade
- Curve
- Merchandise Financial Planning Retail
- Merchandise Financial Planning Cost
- Merchandise Financial Planning ChannelPlan
- Item Planning
- Category Management
- Replenishment Optimization
- A domain that will load files in the CSV format
- Assortment Planning
- Size Profile Optimization

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**Note:** The AIP Development and QA teams are responsible for ensuring the quality of AIP against each RPAS patch release.

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## Automated Testing

Test automation is employed wherever possible by both the RPAS QA team and the RPAS Development team to verify the quality of the patch release. Automated testing includes the execution of the following:

- An automated domain build and patch/upgrade process verifies 274 unique environments.
- The RPAS Testing Framework (RTF) covers 159 test scripts per supported operating system, including the verification of simple and complex rule group calculations.
- Automated regression testing of:
  - **RPAS Domain Utilities**  
116 test scripts per supported operating system.
  - **RDF Winters Forecasting Test**  
16 test scripts per supported operating system
- 2000+ nightly unit tests executed against the patch release code.

## Manual Testing

The following functional areas are manually tested by the QA team on each supported operating system:

- RPAS Client/Server Testing includes the following:
  - Auto Workbook Building
  - Alerts
  - Alerts in Global Domains
  - Flookup
  - Global Domain Functionality
  - RPAS Client Smoke Test
  - Dimension Splitting
  - Dynamic Position Maintenance
  - Adding Images in the RPAS Client
  - Elapsed Time Handling
  - ODBC and BI tests
  - Dynamic Hierarchies
  - exportHier Utility
  - NA Value Testing
  - Nonconforming Expression Evaluation
  - Position Repartitioning
- RPAS Configuration Tools Testing includes the following:
  - Configuration Conversion
  - Hierarchy and Dimension Smoke Test
  - Measures Smoke Test
  - Rule Group Simulator Smoke Test
  - Rule Pooling Smoke Test
  - Rules Smoke Test
  - Technical Smoke Test (includes Alerts, Data Interface Tool, File Menu Options, Solution Extensions, Reports, Task List, DPM, and PNI)
  - Utilities Smoke Test (includes the Functional Library Manager, Measure Extractor, Rule Extractor, and Rule Renamer)
  - Workbooks and Wizards Smoke Test
  - Hierarchy Indirection
- Retail Demand Forecasting (RDF), Grade and Curve Test Suite includes the following:
  - In addition to the verification of all functionality unique the applications, the test suite includes extensive testing of each application's batch process.
  - Moving Average Forecasting
  - Sku Cloning



- GA Planning Template Testing includes the following:
  - Merchandise Financial Planning Templates (includes ChannelPlan, Cost, and Retail)
  - Item Planning
  - Category Management (CM)
  - Replenishment Optimization (RO)
  - Regular Price Optimization (RPO)

### **Risk-Based Testing**

The functional areas that are manually verified during a patch cycle are determined using the Risk-Based Testing methodology. This process begins with the creation of a master feature list for RPAS 13.0. This list is periodically reviewed by the QA, Development, and Product Management teams to determine the likelihood that a feature will encounter issues, and what the customer impact will be if the feature is not working properly. Based on these criteria, a risk assessment ranking from 2 to 8 is assigned to each feature (with 2 being the lowest risk). For each patch release, the feature list is sorted based on the risk assessment ranking. Based on available QA team capacity (and assessment of the defects to determine high risk areas); the feature cut-off line is determined.

### **Translations Testing**

The RPAS QA team is responsible for the verification of the released translation packs against each patch release. Tests are executed against the RDF, RO, and RPO GA configurations using ten different language packs in each environment on one of the supported operating systems. Testing includes verification of the following:

- Opening the client
  - Login window
  - Copyright information
- Building a workbook
  - New window tabs and options
  - Wizard screens/buttons
  - Hierarchy tiles
  - Worksheet tabs
  - Measure labels
- Workbook functions
  - Save
  - Calculate
  - Commit
  - Close
  - Open
  - Delete

- All menu options
  - File
  - Edit
  - View
  - Format
  - Window
  - Custom; i.e., click on file menu and all options in the menu are translated.
- Button Toolbar
  - Names
  - Pop-up labels

For translation testing, the following languages are tested:

- One European Language (French, Spanish, Portuguese, German, Italian)
- One Asian Language (Chinese Simplified, Chinese Traditional, Japanese, Korean)
- Russian

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**Note:** The remaining languages will be opened in the RPAS Client for a simple spot check.

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## Performance Enhancements

Oracle Retail's internal performance studies across different test areas have concluded that RPAS 13.0 and RPAS 12.1 are faster platforms than version 12.0. In general, upgrading customers should see improved batch windows (MACE expressions and rule group execution) and workbook builds, and comparable performance times for online calculations (with certain online calculations seeing a minor degradation).

However, architectural changes which removed the dependency on third party support for data storage has been shown to cause performance degradations in certain workbook procedures such as Open, Close, Save, and Delete operations. Of these operation, Save has the biggest impact on a day-to-day basis to our end users; thus, performance improvements have been implemented in the RPAS 13.0.1 patch. Users will only see the degradation during the initial Save of a workbook, and subsequent saves will not be affected.

Also included in 13.0.1 are performance improvements to workbook Delete operations. In regards to Open and Close operations, the frequency, performance, and business impact on a per user /daily basis has been shown to be insignificant. Nonetheless, improvements to these areas will be implemented if/when opportunities are identified.

RPAS strives to continually improve performance. Oracle Retail is especially reactive to high business impact issues that are identified by our customers. Such issues receive top priority and attention and RPAS has a consistent track record of delivering timely resolutions to our customers.

## Fixed Issues/Defects

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

Known Issue/Defect	Defect Number
Corrected an issue in the RPAS client that prevented the manual entry of an expression in a cell if the cell contained the NA value (0).	6488846
Corrected an issue in MACE that prevented the proper use of "ignore" when the LHS measure of an expression was HBL.	6612537
Corrected an issue in the Find Next Alerts menu that prevented the menu from being properly disabled when the Alert Navigation Threshold was not exceeded.	6664657
Corrected an issue in the RPAS Configuration Tools that prevented the proper cloning of workbook templates, such that custom menus with multiple menu items were being created with non-unique menu IDs.	6671826
Corrected an issue in the RPAS client that prevented the proper display of hierarchy positions for measures using the SingleHierSelect UI type. Users will now see the proper display of the position label.	6690151
Corrected a DomainDaemon issue that prevented a new session from occurring if the DomainDaemon temp directory was accidentally deleted by the administrator. Upon initiating a new session, the DomainDaemon will now check for the existence of the temp directory. If it is not present one will be created.	6696286
Corrected an issue that caused the client to report an error upon editing when a cell at the beginning or ending of time series was selected, and when a measure that was part of the time series had two agg methods.	6734724
Enhanced the createRpasDomain script to support the -version command.	6770130
Corrected workbook contention issues caused when loglevel audit was utilized.	6808074
Corrected an issue with the TransformSum procedure that prevented LHS measures from calculating properly when an expression using the procedure was run in a workbook (incremental mode).	6817044
Corrected an issue that prevented connection to the JDBC client.	6827695
Enhanced the Copy feature to allow the copy of Reclc display-only measure values. However, these values can only be pasted to non-reclc measures.	6834092
Corrected an issue with the wbbatch utility that caused batch auto-workbook builds to fail under certain circumstances.	6838239
Corrected issues in the Add User Group wizard that prevented valid user group names from being registered.	6847560
Corrected an issue in the RPAS client that prevented the proper pasting from the clipboard to data values along a column.	6863742
Corrected an issue encountered in non-English versions of RPAS applications that prevented the display of up/down buttons in the Show/Hide dialog. These buttons are used to order the display of measures.	6882605
Corrected an issue in the RPAS client that prevented column and row formatting changes to be retained when the data was aggregated to the ALL level.	6917840

Known Issue/Defect	Defect Number
Corrected an issue that prevented data from properly aggregating when using the Hybrid Aggregation agg type.	6921928 6922091
Corrected an issue in the RPAS client that prevented non-administrative users from access information provided in the "Help" and "About" menus.	6922532
Corrected an issue in the RPAS client that prevented the hierarchy label from displaying when the view was aggregated to the ALL level and viewed in Outline View.	6927037
Corrected an issue in the RPAS calculation engine that allowed individual rules contained within a rule group to succeed even though the rule group failed to execute.	6927604
Implemented general performance enhancements to support RDF batch processes.	6941038
Corrected issues with the copyDomain utility to prevent the utility from copying measure loads, hierarchy staging databases and the output directory when called using the -clone parameter.	6941070
Corrected an issue with Alternate Hierarchies that prevented an alternate from having more than 100 dimensions. This limit has been expanded to 1000 dimensions.	6956482
Implemented performance improvements to the copyDomain utility when executed with the -clone parameter.	6966234
Corrected an issue with measures using hybrid aggregation that prevented the RPAS Reporter Tool from querying data using this agg type.	6993361
Corrected an issue in the RPAS Reporter Tool caused when the number of conditions on an inner table exceeded "42", causing the return of no results. The issue was resolved almost exclusively by the SQL engine vendor.	6994775
Corrected issues in the RPAS client that caused the client to crash when applying multiple dimension splits to measures using Hybrid Aggregation.	6995593
Corrected an issue in the RPAS Reporter Tool causing the unnecessary return of an empty range for special cases when merging two "ANDed" condition lists in the driver.	7013448
Implemented several changes to the Copy/Paste behavior based on the source and destination measures' UI type. Please see the Appendix of the <i>RPAS User Guide</i> for more information.	N/A
Two-tree wizard filter position by measure improvements. Please see the "Hierarchy Pre-Ranging" section of the <i>RPAS Configuration Tools User Guide</i> for more information	N/A

## Known Issues/Defects

The following table contains issues or defects for the current release.

Known Issue/Defect	Defect Number
For SSO support with the Web Launch application, you must download the required package via Metalink, reference patch number 6963869.	6963869
Help functionality cannot currently be accessed from within the following areas of the RPAS interface: <ul style="list-style-type: none"><li>▪ File – New window</li><li>▪ File – Open window</li><li>▪ File – Delete window</li><li>▪ Workbook Wizard tree</li></ul>	7111596

## Previous Releases

For additional information on previous RPAS release enhancements and additional information, refer to the release notes and documentation that accompany the previous release.