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Oracle® Retail Merchandising System
Release Notes
Release 12.0.5

September 2007

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Oracle® Merchandising System Release Notes, Release 12.0.5

Value-Added Reseller (VAR) Language

(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.

(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 Store Inventory Management.

(v) the software component known as **Crystal Enterprise Professional and/or Crystal Reports Professional** licensed by Business Objects Software Limited ("Business Objects") 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 **i-net Crystal-Clear™** developed and licensed by I-NET Software Inc. of Berlin, Germany, to Oracle and imbedded in the Oracle Retail Central Office and Oracle Retail Back Office applications.

(x) the software component known as **WebLogic™** developed and licensed by BEA Systems, Inc. of San Jose, California, to Oracle and imbedded in the Oracle Retail Value Chain Collaboration application.

(xi) 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.

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 performance enhancements
- Assumptions
- Fixed defects
- Known issues

Audience

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

- Retail clients who want to understand the contents of this release
- Staff who have the overall responsibility for implementing Oracle Retail Merchandising System in their enterprise
- Business analysts who want high-level functional information about this release
- System analysts and system operation personnel who want high-level functional and technical content related to this release

Related Documents

For more information, see the following documents in the Oracle Retail Merchandising System Release 12.0.5 documentation set:

- Oracle Retail Merchandising System Data Model
- Oracle Retail Merchandising System Installation Guide
- Oracle Retail Merchandising System Online Help
- Oracle Retail Merchandising System Operations Guide
- Oracle Retail Merchandising System Reports User Guide
- Oracle Retail Merchandising System User Guide

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

Review Patch Documentation

For a base release (".0" release, such as 12.0), 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

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."

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

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

A hyperlink appears like this.

Release Notes

Overview

Please review the defect reports included with this release to establish the impact on your business operations. These documents contain detailed information about the software fixes included in this patch release.

Oracle Customer Support investigates submitted issues with the assumption that all release patches have been applied. While it is at the client's discretion when to apply patches, delays in their application can complicate the support process. When Oracle Retail Customer Support investigates a potential software defect, it is assumed that you have applied all patches for a given module before the issue was discovered.

To assist in the patch review, Oracle Customer Support provides a system-level assessment by assigning a priority. In addition, a cross-reference spreadsheet is provided to assist with this research.

Applying Source Code

Before installing RMS 12.0.5, confirm that RMS 12.0 and all subsequent patches have been successfully applied.

Before applying the patch source files over your code:

- Copy the original files to a different directory before you copy over them, in case you need to refer to them at a later date.
- Note whether any modules have been customized. If so, the customizations must be reapplied to the new version of the module, or the fix may need to be applied to the custom version of the code.

Defect Fixes and Documentation

A defect fix is a modification to the base Oracle Retail code (for example, a bug fix, a performance enhancement, or a functional enhancement). Each defect fix that is included in this patch has a corresponding defect report titled <*defect-number module-name*>.PDF (for example, 1234567 nxprcno.PDF).

In the same folder, the file named DEFECT MODULE XREF RMS 12.0.5.XLS lists every defect number and the modules and scripts that are included in the patch. Review each defect report carefully before this patch is implemented. Please note that scripts *do not* preserve data. Make sure that all data is backed up before you run any script.

Functional Enhancements

Integration with Oracle Retail Strategic Store Solutions

RMS and ReSA previously had generic functionality to integrate with a variety of POS (Point of Sale) and other store systems. With this release, additional new optional functionality has been added so that RMS and ReSA integrate even more tightly with the Oracle Retail Strategic Store Solutions products.

Applications within Oracle Retail Strategic Store Solutions include the following and more:

- Oracle Retail Point-of-Service (ORPOS)
- Oracle Retail Back Office (ORBO)
- Oracle Retail Central Office (ORCO)

For additional information on RMS, ReSA, and Oracle Retail Price Management (RPM) integration with Oracle Retail Strategic Store Solutions, see the *Oracle Retail Strategic Store Solutions Implementation Guide*. See also the RMS Operations Guide and the RPM Operations Guide.

ORPOS and ReSA Integration

ORPOS and ReSA are integrated by means of an interface file RTLOG that contains all the transaction information from ORPOS. This integration capability is enhanced in following ways:

- RTLOG data files from ORPOS are in encrypted form to provide better security for critical information (such as credit card numbers) contained within the file. These files are decrypted on the ReSA side and uploaded into the database.

- ReSA receives transactions at a workstation level. ReSA can be set up to check for missing or duplicate transactions at either the store level or the workstation level. ReSA can also be set up to balance transactions at the workstation level or the cashier level. Previously, the RTLOG interface file format previously did not accept both a workstation number and a till number; it thus compromised ReSA functionality to check missing or duplicate transactions and balancing, as only either one of these was possible.

  To handle this, a new functionality was devised, as follows:

  - Stores send till numbers in the RTLOG Register field. This allows for balancing.
  - Stores send a combination of workstation number and transaction number in the RTLOG transaction number field.

  The new field WKSTATION_TRAN_APPEND_IND is added to the table SYSTEM_OPTIONS. This field determines how the transaction number field is written in the RTLOG file. If the system option is 'Y', a transaction number is the workstation_id appended with the transaction number. Depending upon the value of this field, either existing functionality is triggered for missing or duplicate check, or new functionality is triggered to examine transaction number by workstation.

Additional Security for Credit Card Data in ORPOS and ReSA Integration

Optional functionality has been added to Oracle Retail Sales Audit (ReSA) to allow you to more tightly control access to credit card data (credit/debit card numbers and expiration dates). These new options are as follows:

- Continue handling credit card data in the same manner as currently.

- Discard credit card data as part of the intake process into ReSA. If you do not have a business use for this data, discarding it here allows you to eliminate any risk of unintended access to this data in ReSA and any downstream applications.

- Continue to accept credit card data into ReSA, but control access to the data. With this option, you specify the users who can have access to credit card data. Those users have access to view and update credit card data, but a new audit trail is created that shows each time credit card data was accessed. All other users can use ReSA as before, except that they will be unable to view or update credit card data in any ReSA windows, reports, or database tables.

RTLOG data from ORPOS is loaded into ReSA. This data contains some vital information such as credit card numbers. To provide more protection, and for compliance with the PCI (Payment Card Industry) standard, ReSA is enhanced with a new field CC_SEC_LVL_IND in the SYSTEM_OPTIONS table. This field indicates the desired level and type of credit card data protection. It can be set up at install time to any of the following options:

- None—This is the existing functionality. Credit card data from RTLOG is saved to the ReSA database, and any valid user can access that data.

- Restricted Access—Credit card data from RTLOG is saved to the ReSA database, but only specified users (determined by role) are able to access it.

- Discard credit card data—Any credit card data in RTLOG is ignored and not saved to the ReSA database.

Note the following security considerations:

- In the case of 'Restricted Access', only those users who have CC access should run the batch program saimptlogi/saimptlog.

- The CC access role is to be created only when the system option CC_SEC_LVL_IND is set to 'R'. It is recommended that the owning schema should be granted the new CC access role.

- System directories where decrypted files are located should be accessible only to users with CC privileges.

RMS and ORPOS Integration

An enhanced approach was taken to integrate RMS and ORPOS. Integration is done by means of XML extracts. The RMS portion of the data flow produces XML files. These XML files are for organizational hierarchy, merchandise hierarchy, coupon information, coupon pricing, and item-location data.

Some features of these extract files are as follows:

- Data is provided in the agreed XML / XSD file format.

- For merchandise and organizational hierarchies, the files provide a snapshot of all current relevant data.

- For item-location, coupon, and coupon pricing data, even if there are multiple changes related to an item/coupon, only one record is extracted that reflects the resulting end state after all of the changes.

These different extract files are bundled together to create a .jar file for each store, thus creating a separate data file for each ORPOS store. If an RPM pricing XML extract is available, it is also included in this bundle.

Note that there are some data conditions required to filter the RMS data extracted to the XML files. This filtering is required mainly because ORPOS has these limitations on data types. Some of these conditions are:

- Store value length <= 5
- Chain value length <= 4
- Item value length <= 14
- UOM length <= 2
- Diff_1 length <= 20
- Diff_2 length <= 6
- Unit retail <= 999999.99

Integration with Oracle E-Business Suite (Oracle Financials)

Previously, version 11.0.6 of RMS and ReSA could be integrated with version 11.5.10 of Oracle E-Business Suite. With this release, this integration has been extended so that RMS and ReSA version 12.0.5 can be integrated with versions 11.5.10 and 12.0.2 of the Oracle E-Business Suite.

For more information, see the Oracle Retail/Oracle E-Business Suite Integration Guide available from the Metalink Note: 458221.1. Please note that this guide is not considered generally-available (GA) documentation. See also the RMS Operations Guide and the Oracle Retail Invoice Matching (ReIM) Operations Guide.

Integration with Oracle Store Inventory Management (SIM)

With this release, RMS and ReSA version 12.0.5 can be integrated with SIM 12.0. SIM software manages physical inventory functions that can be performed in a store (with the exception of selling the items).

Technical Enhancements

Language Enablement

RMS is now translated into the Italian language, in addition to the other languages already available for RMS.

Upgrades to Requirements

For information related to upgrades to the RMS requirements (for example, Database Server, Application Server, and so on), see the RMS Installation Guide.

Noteworthy Issues Fixed

The following defects and issues are addressed in the RMS 12.0.5 release:

Defect Number	Summary
5951324	When more than 20 children were created for an item through differentiators, there were some performance issues.
6147350	In response to this defect, significant improvements were made to the RMS Installation Guide. Additional steps and clarifications were made with the insertion of the section, "Configure Oracle Application Server 10g for RMS." These steps will also ensure that the online help is installed and configured correctly.
6147350	(Also Service Request 6331119.994, and related defects 6406223.992 and 6280853) Significant improvements were made to navpane2.htm. There was an issue within the code of the navigation pane in online help that caused the RMS application to close when the context-sensitive help button was selected. The navigation pane has been fixed and the application is functioning properly.
6269890	There was a missing primary key index on database table ITEM_SUPP_COUNTRY_LOC.
6317116	There was a primary key index missing due to a duplicate index in ITEM_SUPP_COUNTRY_LOC, MRT_ITEM_LOC, and ALLOC_HEADER database tables.

Known Issues

Transferring Messages from SIM

In certain situations when there are multiple virtual warehouses attached to one physical warehouse, and Oracle Retail Store Inventory Management (SIM) sends a message to RMS for a transfer of merchandise, an invalid error message is produced.

Defect 6353688

A network error is received when calling an API to scale an order. This issue seems to be isolated to the Linux environments.