

Oracle® Retail Merchandising System

Release Notes

Release 13.2 (Replacement)

June 2011

This document highlights the major changes for Release 13.2 (Replacement) of Oracle Retail Merchandising System.

Replacement Release

The June 2011 release of Oracle Retail Merchandising System 13.2 completely replaces the original January 2011 release. This replacement release includes fixes to installers and test data that address some installation issues experienced by customers who installed the original January 2011 release.

Notes:

- Use the June 2011 replacement release for all new installations and reinstallations. Follow the instructions in the most recent version of the *Oracle Retail Merchandising System Installation Guide* for Release 13.2 (Revision 4 or higher).
 - After you have installed RMS 13.2, also apply the RMS 13.2.1 patch release, and any other patches released to date, to update RMS 13.2 to the currently supported release level.
 - Customers who have already installed RMS 13.2 using the January 2011 release do not need this replacement release.
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This replacement release includes the following updates:

- Updates to the application and database installers, including updates previously addressed in hot fix 11849744
- Fixes to the online help
- Changes to demo data
- Changes to translation scripts
- Resolution of compatibility issues with Oracle Database 11g (11.2.0.2)

Details of the changes included in this replacement release are described in the following document available at My Oracle Support:

Oracle Retail Merchandising System Release 13.2: Summary of Updates in the RMS 13.2 Replacement Release, June 2011 (ID 1331891.1)

This document summarizes the changes made in the June 2011 replacement release of RMS 13.2. These changes include improvements to the application and database installers, test data, and other changes that address installation issues experienced with the original release.

Access My Oracle Support at the following URL:

<https://support.oracle.com>

Product Overview

Oracle Retail Merchandising System (RMS) is used to execute core merchandising activities, including merchandise management, inventory replenishment, purchasing, vendor management, and financial tracking.

Oracle Retail Sales Audit (ReSA) provides the tools to evaluate point-of-sale data to ensure the accuracy and completeness of information exported to downstream systems used in optimization processes, financial reporting, and analysis.

Oracle Retail Trade Management (RTM) is used to manage the import process, including automating the steps necessary to import goods, managing file exchanges with trading partners, and providing a central database of critical import order information.

RMS Localized for Brazil

For Release 13.2, Oracle Retail has built a foundation for Brazil localization into applicable base products. The solution addresses the majority of taxation and legal requirements for Brazil.

Release 13.2 includes the new Oracle Retail Fiscal Management (ORFM) module, an optional module for RMS to support Brazil localization and the particular tax requirements of Brazil. ORFM is for retailers who have operations in Brazil. For more information, see "[Brazil Localization and Oracle Retail Fiscal Management](#)" later in this document.

Hardware and Software Requirements

See the *Oracle Retail Merchandising System Installation Guide* for information about the following:

- Hardware and software requirements
- Oracle Retail application software compatibility

For additional requirements specific to Oracle Retail Fiscal Management and RMS Brazil localization, see the *Oracle Retail Fiscal Management/RMS Brazil Localization Installation Guide*.

Functional Enhancements

RMS 13.2 introduces the following functional enhancements.

Custom Flexible Attribution

The Custom Flex Attribute Solution (CFAS) for RMS is a framework driven by metadata that can be used to support customer-specific customizations. CFAS is designed so that certain form windows can be customized to include additional fields or attributes. The CFAS framework enables you to set up additional attributes for existing RMS entities without having to change the existing screen or make any changes in the application code. The additional attributes can be new attributes needed to support external systems, or they can capture additional information from legacy systems. The CFAS framework also allows storage and validation of these attributes.

The additional attributes can be accessed using the menu options in the relevant form windows where they have been enabled. This ensures that the additional attributes do not clutter the existing screen when the attributes have not been implemented or used.

For more information on implementing and using the CFAS framework, see the *Oracle Retail Merchandising System Custom Flex Attribute Solution Implementation Guide*.

Future Cost Calculations

Future cost has been modified to allow synchronous, asynchronous, or batch processing controlled by a configuration table. Asynchronous mode has been modified to use Oracle Advanced Queuing functionality.

RMS can update an item's future costs in real time, so that base costs, deal-related costs, pricing costs, and margins are visible at the time that the user is making retail pricing decisions, without the need to wait for an overnight batch to run. This technical enhancement is leveraged by the new margin impact analysis forms in the cost change dialog.

A configuration table controls how updates are performed for each cost event type, and the updates for each event type can be performed in any of the following ways:

- Real-time synchronous
- Real-time asynchronous
- Once a day (batch)

The following events cause updates to an item/location pricing cost:

- New item/location for approved items
- Cost change approved
- Deal approved, disapproved, or closed
- Item/location primary cost pack updated (approved items only)
- Item reclassification
- Item estimated landed cost (ELC) component rate changes
- Merchandise hierarchy association changes above the department level
- Location cost zone change
- Organizational hierarchy change

- Supplier hierarchy change
- Item cost zone group change
- Item/location primary supplier or primary country change

SWIFT Letter of Credit

SWIFT is the Society for Worldwide Interbank Financial Telecommunication, a member-owned cooperative through which the financial world conducts its business operations.

In previous releases of RMS, the SWIFT 1998 standards were used for the interface with banks and uploaded in Oracle Retail Trade Management (RTM). Because companies have globally adopted the the SWIFT standards of 2008, RMS has been modified to accommodate those standards.

Technical Enhancements

The following technical enhancements are included in RMS Release 13.2.

Oracle Exadata Database Machine X2 Support

Oracle Exadata Database Machine X2 is a combination of smart software and industry-standard hardware. It provides database-aware storage services, such as the ability to offload database processing from the database server to storage, transparently, without affecting SQL processing and your database applications.

RMS Release 13.2 is supported on Oracle Exadata Database Machine X2 through the binary compatibility with Oracle Linux Release 5 Update 3 and Oracle Database 11g Release 2 Enterprise Edition on Oracle Real Application Clusters (RAC) 11g.

Oracle WebLogic Server 11g (Java 6)

For Release 13.2, the Oracle Retail merchandising operations management product suite uses Oracle WebLogic Server 11g, which replaces Oracle Application Server used in previous releases. Oracle WebLogic Server 11g is the industry's most comprehensive, standards-based platform for developing, deploying, and integrating enterprise applications. It provides the foundation for an application grid, an architecture that enables enterprises to pool and share resources with dynamic adjustment across multiple applications, to lower operational costs.

Platform Make File Changes

Prior to RMS 13.2, the precompiler options used for RMS batch programs restricts the SQL syntax to Oracle8 Database and Oracle8i Database syntax. For example, analytic functions introduced in Oracle9i Database, Oracle Database 10g, and Oracle Database 11g cannot be used in Pro*C batch programs because they will not compile. The workaround before RMS 13.2 was to move the functions to package functions or write a cursor using dynamic SQL.

RMS 13.2 modified the precompiler options in all platform make files (platform_*.mk) to allow the use of syntax for Oracle Database 11g and prior release levels. The changes to the platform make files are as follows:

- Added the compile option `common_parser=yes` to the `PROCFLAGS`
- Modified the `PROCFLAG` option `dbms=v8` to `dbms=NATIVE`

Credit Card Masking

Because Oracle Retail Sales Audit (ReSA) is not intended to be an authorization or settlement tool for credit card information, there is no need for credit card numbers to be stored. With this release, changes were made to validate that the credit card number sent to ReSA has been rendered unreadable by including characters in the number. Any credit card number sent to ReSA that contains only numbers is now rejected. This validation, along with the existing ReSA encryption functionality, allows retailers to protect sensitive data within ReSA.

Reports Translated

RMS and Oracle Retail Fiscal Management reports available through Oracle Business Intelligence (Oracle BI) have been translated into all languages supported for RMS.

Integration Enhancements

Oracle Retail Merchandising System Release 13.2 includes the following integration enhancements.

RMS and Oracle Retail Advanced Inventory Planning (AIP)

Internationalization

When RMS and AIP were first integrated, the AIP database was not internationalized for multibyte characters. AIP has now added multibyte character support. The RMS data extracts to AIP were modified through the removal of data substrings included in the extracts for description columns. In addition, the RMS_SKU_DESCRIPTION field was removed because it is no longer used by AIP.

Support for AIP In-Transit Functionality

The RETL extract script (rmse_aip_rec_qty.ksh) for received order quantity was modified to include in-transit quantity. In-transit is the amount of stock that has left the warehouse and is on its way to another warehouse or store.

RMS and Oracle Retail Store Inventory Management (SIM)

Unique Identification Number Support

Retailers who sell items such as electronics, cell phones, firearms, medications, or perishable grocery items are often required to manage the inventory at the unique item instance, to manage inventory in the store or to monitor potentially fraudulent activities. Release 13.2.1 of Oracle Retail Store Inventory Management (SIM) supports these business needs by tracking inventory by unique identification numbers (UIN) or attributes for a single item instance. Release 13.2 of RMS supports this functionality by allowing users to define which items will be tracked by unique identification numbers and the type of UIN that is applicable for an item. Serial-numbered inventory is tracked only in SIM.

RMS has been modified to provide SIM with the necessary data attributes required to support the UIN processes. The following attributes are defined in RMS at the item/location level:

- UIN Type
This attribute contains the type of the unique identification number (UIN) used to identify instances of the item at the location.
- UIN Label
This attribute contains the label for the UIN when displayed in SIM. Valid values are user-definable in the RMS code tables.
- Capture Time
This attribute indicates when the UIN should be captured for an item during transaction processing.
- External System Create UIN
This Yes/No indicator indicates whether a UIN is from an external system.

RMS and Oracle Retail Workspace

Forms In-Context Launch

Multiple RMS screens can now be launched in-context, to better support cross-functional flows from within Oracle Retail Workspace. Workspace is a retail-specific next-generation portal built using Oracle WebCenter, providing an integrated, targeted user experience for interacting with Oracle Retail applications and data. This enhancement allows any RMS screen to be opened from outside the RMS menu structure with the data context from which it was accessed.

Brazil Localization and Oracle Retail Fiscal Management

For retailers operating in Brazil, Release 13.2 of Oracle Retail Merchandising applications introduces new functionality designed specifically to support nota fiscal processes and other tax processing requirements. A new application named Oracle Retail Fiscal Management (ORFM) has been added to the merchandising operations management product suite to support Brazilian nota fiscal requirements. In addition to ORFM, enhancements have been added to RMS for certain foundation data and tax processing to further support Brazilian retailers.

For Brazil localization, the Oracle Retail product footprint includes all of the following applications:

- Oracle Retail Merchandising System (RMS)
- Oracle Retail Fiscal Management (ORFM)
- Oracle Retail Sales Audit (ReSA)
- Oracle Retail Warehouse Management System (RWMS)
- Oracle Retail Store Inventory Management (SIM)
- Oracle Retail Integration Bus (RIB)

Nota Fiscal

In Brazil, the movement of merchandise must be accompanied by a fiscal document called a nota fiscal (NF). The shipping location must generate the nota fiscal. When merchandise arrives at its destination, before the physical receiving of the merchandise can happen, the nota fiscal must be validated against the original requisition document (such as a purchase order) and the Brazilian fiscal system, to ensure that all information is correctly captured in the nota fiscal.

A nota fiscal contains the following information:

- Transaction details such as issuer, recipient, the items and quantities
- Financial details such as the costs for the items
- Taxation and fiscal details such as tax codes, tax values, *código fiscal de operações e prestações* (CFOP code), Cadastro Nacional de Pessoas Jurídicas (CNPJ) number, and other fiscal attributes used by the government to verify taxes for goods in transit
- Some additional information such as the license plate number of a vehicle, transporter's details, or payment date

The recipient of the goods must ensure that the movement of goods is accompanied by a valid nota fiscal. In case of discrepancies, the shipment may be accepted by issuing supporting correction documents, or the shipment may be rejected.

Oracle Retail Fiscal Management

The Oracle Retail Fiscal Management (ORFM) module is a module within RMS that manages the processes to create, receive, issue, match and print nota fiscal documents. ORFM supports the process of verification of merchandise costs, quantities, and taxation details before payment.

ORFM manages nota fiscal processing through integration with Oracle Retail Merchandising System (RMS), Oracle Retail Warehouse Management System (RWMS), and Oracle Retail Store Inventory Management (SIM). ORFM is also integrated with Mastersaf Tax Rules to get the taxation details for the transactions.

Business Processes

ORFM supports the following fiscal business operations:

- Purchase order receiving

The retailer issues a purchase order when buying merchandise from a supplier. When the merchandise is received, the accompanying nota fiscal is matched against the related purchase order.

For the inbound purchase order receipt process, additional validations and matching of quantity, tax, and cost must be performed before physical receiving of merchandising. The retailer must validate the nota fiscal before approving physical receipt. In case of discrepancies, ORFM supports resolution of cost, quantity, and tax discrepancies. Appropriate documents such as Return Nota Fiscal, Correction Letter, Merchandise Without NF Report, and Complementary NF Request are auto-generated on resolution of discrepancies.

- Triangulation purchase order

Triangulation is a process in which the retailer places a purchase order with the one supplier. However, another supplier (a distributor or facilitator) actually delivers the stock on behalf of the first supplier. This other supplier is called the delivery supplier. The payment for the merchandise is made to the first supplier.

For triangulation, one Nota Fiscal is sent by the supplier on whom the order is raised. The delivery supplier issues a Complementary Nota Fiscal to charge for any additional expenses (such as a change in tax rate/transportation expenses) incurred during the shipping of merchandise.

- Freight nota fiscal

Support is provided to capture freight expenses against one or more purchase order shipments using a freight nota fiscal and to enable processing of payment to third-party logistic providers.

- Returns to vendor

The generic process of returning merchandise to a vendor is complemented with generation of an outbound nota fiscal.

- Transfers

The base process of transferring merchandise between locations (both intra- and inter-company) is complemented with appropriate nota fiscal handling at the outbound and inbound locations.

- Repairs

The base process of a two-legged transfer has been extended to support a repair transaction. The process is supported with an appropriate nota fiscal generation

for the inventory movement from the retailer location to the external finisher that provides the repair service.

- Returns from customers or return merchandise authorizations

Nota fiscal handling for customer returns is supported in ORFM. When a customer returns merchandise, the retailer issues a return merchandise authorization to receive the merchandise in the store. The receipt of the merchandise happens in the Oracle Retail Warehouse Management System. There is no separate handling of customer returns in RMS.

- Inventory adjustments

There is a facility to generate nota fiscal documents for certain types of inventory adjustments, and make appropriate adjustments to the input tax credit for these inventory adjustments.

- *Nota Fiscal Eletrônica* (NF-e) processing

Nota Fiscal Eletrônica is a Brazilian national model for electronic fiscal documents, to substitute for the current system of issuing fiscal documents on paper. The application is integrated with Mastersaf for NF-e generation and transmission to the fiscal authority.

- SPED processing

Provision has been made to expose standard views for third-party fiscal reporting software, such as Mastersaf, to extract transactional data from the retail suite for legal and fiscal reporting.

External Tax Engine and Tax Integration Layer

The complex taxation structure in Brazil is not supported by the existing Oracle Retail VAT structure. To provide tax support for Brazil, the Retail Tax Integration Layer (RTIL) has been developed for this release to support integration with Mastersaf, a third-party tax engine used in Brazil. RTIL allows ORFM and RMS to call this third-party tax engine instead of the internal RMS VAT functionality.

RTIL is tightly coupled with a third-party tax solution called Mastersaf Tax Rules. This solution supports the complex tax structure of Brazil. RMS and ORFM are integrated with RTIL, while RTIL integrates with Mastersaf Tax Rules. Mastersaf Tax Rules also makes available content with the latest set of applicable tax rules for Brazil.

Product Support Considerations

For product support and logged defects, the new product identifier for Oracle Retail Fiscal Management is **9038**.

Some functionality is shared between RMS and ORFM modules. Transactions may be initiated in RMS and go through ORFM. For issues with transactions that may involve either RMS or ORFM processing, you can log defects against either RMS or ORFM. Each logged defect will be analyzed to determine the source of the reported issue.

ORFM can be patched separately from RMS; however, there may be instances in which fixes to ORFM depend on fixes to RMS. In such cases, these dependencies will be noted in release documentation.

RMS Brazil Localization

The following functional areas have been enhanced in the Brazil-localized release of RMS.

Foundation Data

Entities such as stores, warehouses, suppliers, partners, and outside locations have been changed to capture fiscal attributes. Parameters have been added at country level to indicate whether the application has country-specific transaction processing.

The VAT Code Maintenance form is used to maintain the applicable Brazilian tax codes applicable. This form was modified to disable tax rate definitions, because tax rates are determined based on the rules set up in Mastersaf Tax Rules. In Brazil, some of the taxes such as *Imposto sobre Circulação de Mercadorias e prestação de Serviços* (ICMS), *Programa de Integração Social* (PIS), and *Contribuição para Financiamento da Seguridade Social* (COFINS) are included in the unit cost of the item, while other taxes are applied over and above the unit cost. This is controlled through the new parameter named Include in NIC at the tax code level.

Item Costing

Base RMS supports a standard value-added tax (VAT) structure in which VAT is applied to the cost/retail of the item. In the existing VAT structure, there is only one tax applicable to an item at a location at any given time, and determination of cost that is either inclusive or exclusive of tax is a simple calculation. However, in countries such as Brazil, India, and Canada, there is a more complex tax structure. Under these regimes, there can be multiple taxes applied to the same item. In some cases, taxes are applied on other taxes or a combination of cost plus other taxes. This adds complexity to the calculation of the tax-exclusive cost and any related taxes.

For Brazil, an additional tax type has been added to RMS system options to handle this more complex tax structure. This tax type, and related cost and tax calculations, leverage integration with a third-party tax engine in Brazil. Under this structure, when the cost of an item is defined for the supplier, RMS captures the cost inclusive of the tax value and then derives the cost exclusive of the tax value. To determine the correct tax amount and cost basis, RMS passes the appropriate tax attributes to the tax engine. To make these calculations, that tax engine also requires location information. To achieve this, RMS allows you to designate a location as a default location, so that RMS can use the tax attributes of the default location to derive the correct tax amount and the cost value, exclusive and inclusive of tax, for the item.

Tax Changes

Changes have been made in RMS to support complex taxation for Brazil at the item and purchase order levels. RMS supports the following:

- Tax-on-tax concept
- Different tax applicability depending on fiscal parameters for item, location, supplier, and so on

Item Maintenance

To meet certain requirements in Brazil, changes have been made at the item master level. Three new forms have been added to the Item Maintenance dialog:

- Item Country form
- Items Fiscal Attributes form
- Item Costing form

Taxability Identifier at Transaction Level

In Brazil, tax determination for an item depends on the intended usage of the product. An item purchased for internal consumption versus an item purchased for resale could have different tax applicabilities. This is determined by a parameter called fiscal utilization. The fiscal utilization parameter determines the appropriate taxes, the impact on stock and costs, and the type of information to be sent to other systems. This parameter is captured for the following transactions in RMS:

- Purchase orders
- Transfers
- Mass returns transfers

Cost Management

In Brazil, taxes are applicable on the landed cost, which includes supplier unit cost, freight, and insurance charges. To identify freight and insurance, two new options have been added under the Expense category in the Cost Component Maintenance window.

Inventory Control

Two-Legged Transfers

The two-legged functionality has been extended to support repair transactions. Changes have been made to auto-receive the first leg at the finisher location. Corresponding nota fiscal handling is also enabled in ORFM.

Inventory Adjustments

Inventory adjustment messages are routed through ORFM. If the inventory adjustment messages have special reason codes, nota fiscal documents are generated automatically.

Weighted Average Cost Calculation

In Brazil, each physical location is assigned a CNPJ number. The inventory is always maintained at the physical location; however, RMS can maintain inventory at virtual locations. For Brazil, all virtual locations for a physical location should have the same CNPJ number. When RMS performs the weighted average cost (WAC) calculation for one virtual warehouse, it updates WAC for all other locations with the same CNPJ number. In other words, WAC is always maintained at the CNPJ level.

The supplier unit item cost is inclusive of some taxes such as the *Imposto sobre Circulação de Mercadorias e prestação de Serviços* (ICMS). This cost is represented in the system as the Negotiated Unit Cost (NIC). ICMS is a recoverable cost. The WAC is recalculated after removing all recoverable taxes from NIC. ORFM removes the recoverable taxes from the NIC. This cost is sent to RMS for WAC updating and transaction data posting.

Discontinued Support for Oracle Retail Data Warehouse (RDW) Interfaces

A new analytical application is in development. Because of this strategic decision, support for interface between Oracle Retail applications and Oracle Retail Data Warehouse has been discontinued for Oracle Retail 13.2 releases. Oracle Retail Extract, Transform, and Load (RETL) extract scripts for RDW are not supported for use with Oracle Retail 13.2 applications and databases.

Known Issues

The following are known issues for Oracle Retail Merchandising System Release 13.2. Fixes are in development.

RMS Known Issues

The following issues apply to RMS and associated products regardless of whether ORFM is installed.

Internal References	Description
2683/RMS	In these scenarios, deal income will be calculated incorrectly: <ul style="list-style-type: none">■ When a deal is set up for a supplier parent with multiple child suppliers, and the deal items are also set up for multiple child suppliers.■ When the deal currency differs from the currency of the deal locations.
3113/RTM	There is a mismatch in the file specifications used by the htstupld batch process and the conversion script used to convert the raw U.S. customs harmonized tariff schedule (HTS) file (ushts2rms), which causes a program failure. This issue was seen when processing a file from the year 2010.

Issues Specific to RMS/ORFM and Brazil Localization

The following issues apply to installations that include ORFM and Brazil localization.

Internal References	Description
877/ORFM	Multiple containers in a shipment are merged into a single container by ORFM on an intercompany, warehouse-to-warehouse regular transfer. This causes receiving issues at the destination warehouse.
3325/RMS 3327/ORFM 4540/RMS	There are known performance issues associated with the integration between RMS/ORFM and the Mastersaf Tax Rules engine.
6504/RMS	The ICMS-ST taxes for simple pack items are incorrectly calculated on the Item Costing screen.
6714/ReSA	A vat_item error occurs in the posupld program.
6786/RMS	When a simple pack item is viewed in the Item screen following a data upgrade from RMS 13.1.2, the Supplier link is displayed in red, because the simple pack tax data is not being calculated during the upgrade process.

Related Documentation

For more information, see the following documents in the Oracle Retail Merchandising System Release 13.2 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*
- *Oracle Retail Sales Audit Online Help*
- *Oracle Retail Sales Audit User Guide*
- *Oracle Retail Trade Management Online Help*
- *Oracle Retail Trade Management User Guide*

See also:

- *Oracle Retail Fiscal Management Data Model*
- *Oracle Retail Fiscal Management/RMS Brazil Localization Implementation Guide*
- *Oracle Retail Fiscal Management/RMS Brazil Localization Installation Guide*
- *Oracle Retail Fiscal Management Online Help*
- *Oracle Retail Fiscal Management User Guide*
- *Oracle Retail Merchandising Batch Schedule*
- *Oracle Retail Merchandising Data Conversion Operations Guide*
- *Oracle Retail Merchandising Implementation Guide*
- *Oracle Retail Merchandising Licensing Information*
- *Oracle Retail Merchandising System Custom Flex Attribute Solution Implementation Guide*
- *Oracle Retail POS Suite/Merchandising Operations Management Implementation Guide*
- *Oracle Retail RMS/ReSA Brazil Localization Online Help*
- *Oracle Retail RMS/ReSA Brazil Localization User Guide*
- *Oracle Retail Integration Bus documentation*
- *Oracle Retail Service Layer documentation*
- *Oracle Retail Extract, Transform, and Load documentation*

Supplemental Documentation

The following documents are available through My Oracle Support. Access My Oracle Support at the following URL:

<https://support.oracle.com>

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Oracle Retail Integration Bus Integration Guide (ID 1277421.1)

The RIB Integration Guide is an HTML document that summarizes the Oracle Retail messaging integration by functional area. Each functional area (or message family) includes the publishing and subscribing application's components, message documents, and TAFR operations (if applicable).

Oracle Retail Upgrade Guide 13.1 to 13.2 (ID 1073414.1)

Because the upgrade process varies among Oracle Retail applications, the *Oracle Retail Upgrade Guide* describes the approach that each Oracle Retail application takes for the upgrading, or uptaking, process, as well as product-specific upgrade assumptions and considerations. Actual procedures for the upgrade may be included in the application's Installation Guide.

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Value-Added Reseller (VAR) Language

Oracle Retail VAR Applications

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