Oracle® Retail POS Suite

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Oracle Retail POS Suite Operations Guide, Release 14.0

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Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
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- Do you need different information or graphics? If so, where, and in what format?
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Preface

Oracle Retail Operations Guides are designed so that you can view and understand the application's behind-the-scenes processing, including such information as the following:

- Key system administration configuration settings
- Technical architecture
- Functional integration dataflow across the enterprise
- Batch processing

Audience

Anyone who has an interest in better understanding the inner workings of the Oracle Retail POS Suite system can find valuable information in this guide. There are three audiences in general for whom this guide is written:

- Systems analysts and system operations personnel who need information about Oracle Retail POS Suite processes.
- Integrators and implementers who are responsible for implementing Oracle Retail POS Suite applications.
- Business analysts who need information about Oracle Retail POS Suite processes and interfaces.

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Related Documents

For more information, see the following Release 14.0 documentation sets:

- Oracle Retail Back Office documentation set
- Oracle Retail Central Office documentation set
- Oracle Retail Point-of-Service documentation set
- Oracle Retail Returns Management documentation set

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https://support.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

When you install the application for the first time, you install either a base release (for example, 14.0) or a later patch release (for example, 14.0.1). If you are installing the base release or additional patch releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch releases can contain critical information related to the base release, as well as information about code changes since the base release.

Improved Process for Oracle Retail Documentation Corrections

To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times not be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced on the Oracle Technology Network Web site, or, in the case of Data Models, to the applicable My Oracle Support Documentation container where they reside.

This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available on the Oracle Technology Network at the following URL:

http://www.oracle.com/technetwork/documentation/oracle-retail-100266.ht
ml

An updated version of the applicable Oracle Retail document is indicated by Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

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Documentation is packaged with each Oracle Retail product release. Oracle Retail product documentation is also available on the following web site:

http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html

(Data Model documents are not available through Oracle Technology Network. These documents are packaged with released code, or you can obtain them through My Oracle Support.)

Documentation should be available on this web site within a month after a product release.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Data Purge

Data purging is based upon logical sets of data. Logical sets of data can be contained in multiple tables. An example of a logical set of data is all the records associated to a particular retail transaction.

A purge of a logical set is not considered complete until all relevant rows of data are deleted.

Data purging is based upon a data-retention schedule whereupon all data existing prior to the computed date is purged. The data within this time frame must meet constraints as required. For example, if a customer wants to retain the last 180 days worth of retail transaction data, then the integer 180 should be passed into the purge retail transaction routine and the system will purge completed transactions more than 180 days old.

The stored procedures read the absolute value of a negative integer. For example, a value of -30 passed into the stored procedures is read as 30, and the data is retained for 30 days.

If no value is passed into the stored procedures, the default value is used. The default value is 30.

The number of data retention days is passed into the stored procedures. The constraints are built into the stored procedures and are therefore not parameterized.

A logical set purge succeed seven if data is not found in an expected table.

The Financial History and Financial Summary data purge scripts do not address the issue of the weekly sum of daily totals that no longer match weekly totals. For example, if the purge occurs on a Wednesday, the sum of the daily totals from Wednesday through Saturday will not match the weekly total that was based upon a Sunday through Saturday time frame.

Caution: Passing in a zero (0) as a parameter to the purge transaction routines results in the deletion of all completed transactional data. Oracle is not responsible for loss or damage of any sort that might incur from passing in zero as a parameter.

The retailer is fully responsible for the database configuration. Oracle assumes the purge routines operate within the confines of the database configuration, such as the size of the rollback segments and other such parameters that might affect the functioning of the purge routines.

Invoking Stored Procedures

The following are examples of how to invoke stored procedures for an Oracle database.

> **Note:** It is assumed that the user calling the stored procedures has the necessary privileges to invoke these procedures.

Stored Procedures on Oracle

The following examples show how to invoke the stored procedures on an Oracle database:

Example 1–1 Invoking The Stored Procedures—SQL Plus Method 1

```
SQL> EXECUTE cedure name (parameters)>;
Example:
EXECUTE PURGE_FN_SMY(90);
```

Example 1-2 Invoking The Stored Procedures—SQL Plus Method 2

```
SQL> BEGIN
SQL>  cedure name (parameters)>;
SQL> END;
Example:
SQL> BEGIN
SQL> PURGE_FN_SMY(90);
SQL> END;
```

Example 1–3 Invoking The Stored Procedures—SQL Plus Method 3

```
SQL> CALL  cancedure name (parameters)>;
Example:
CALL PURGE_FN_SMY(90);
```

You can choose to create a script file that contains these commands and have a scheduler execute the script on a nightly basis. To do this, you must be logged in to the database.

The scheduler must be able to log in to the database to run the scripts, or the login must be the first line in the script.

Calls to Invoke Stored Procedures

Table 1–1 contains the calls to use to invoke the stored procedures.

Table 1–1 Stored Procedure Calls

Subject Area	Procedure Call	Description
Advanced Pricing Rules	PURGE_PRDV(<number days="" of="" retention="">)</number>	Removes all advanced pricing rules older than the specified number of retention days.
Control Transactions	PURGE_CTL_TRN(<number days="" of="" retention="">)</number>	Removes all store operation, void, no sale, and bank deposit transactions older than the specified number of retention days.
Cross Channel Order	PURGE_COMMERCE_ ORD(<number days="" of="" retention="">)</number>	Removes all cross channel order-related transactions older than the specified number of retention days.
Duplicate Price Changes	PURGE_DUP_PRC_CHN_EV()	Removes all duplicated price change events older than the current date.
Employee Biometrics	PURGE_EMP_BIO	Removes all employee biometric data no longer associated with an employee.
EJournal	PURGE_EJRL(<number days="" of="" retention="">)</number>	Removes all EJournal tape records older than the specified number of retention days.
Financial Histories	PURGE_FN_HST(<number days="" of="" retention="">)</number>	Removes all financial totals from history tables older than the specified number of retention days.
Financial Summaries	PURGE_FN_SMY(<number days="" of="" retention="">)</number>	Removes all aggregate financial totals from summary tables older than the specified number of retention days.
Financial Transaction	PURGE_FN_TRN(<number days="" of="" retention="">)</number>	Removes all financial transaction-related tables that are older than the number of retention days specified and that meet the identified constraints. It then executes the PURGE_TRN procedure.
Layaways	PURGE_LY(<number days="" of="" retention="">)</number>	Removes all layaways in the completed, deleted, suspended, and voided status older than the specified number of retention days.
Orders	PURGE_ORD(<number days="" of="" retention="">)</number>	Removes all orders in the complete, canceled, suspended, and voided status older than the specified number of retention days.
Orders Common	PURGE_ORDER_COMMON	Removes all immediate order-related child tables that meet the passed in criteria.
		Note: This routine is only called by other purge routines and not directly executed.
Price Changes	PURGE_PRC_CHN_EV(<number days="" of="" retention="">)</number>	Removes all permanent price changes older than the specified number of retention days.
Promotions	PURGE_TMP_PRC_EV(<number days="" of="" retention="">)</number>	Removes all expired temporary price changes (promotions) older than the specified number of retention days.
Retail Transactions	PURGE_RTL_TRN(<number days="" of="" retention="">)</number>	Removes all sale, return, house account payment, instant credit enrollment, and redeem transaction types older than specified number of retention days.
Retail Transaction Common	PURGE_RTL_TRN_COMMON	Removes immediate retail transaction-related tables and also executes other purges common to all retail transactions that meet the passed in criteria.
		Note: This routine is only called by other purge routines and not directly executed.

Table 1-1 (Cont.) Stored Procedure Calls

Subject Area	Procedure Call	Description		
Retail Transaction Line Item	PURGE_RTL_TRN_LTM	Removes all immediate retail transaction-related child tables that meet the passed in criteria.		
		Note: This routine is only called by PURGE_RTL_TRN_COMMON and not directly executed.		
Sale Return Line Item	PURGE_SLS_RTN_LTM	Removes all immediate SaleReturnLineItem-related child tables that are older than the number of retention days specified.		
		Note: This routine is only called by PURGE_RTL_TRN_COMMON and not directly executed.		
Tender Line Item	PURGE_TND_LTM	Removes tender line items from a specific transaction. In the script, a specific transaction ID has to be specified.		
Training Mode Transactions	Removes all transactions PURGE_TRG_TRN(<number days="" of="" retention="">) Removes all transactions perform training mode older than the specinumber of retention days.</number>			
Transaction	PURGE_TRN	Removes all transaction header tables that meet the purge criteria.		

Data Purge Scripts

The following data purge scripts are available for Back Office, Central Office, Point-of-Service, and Returns Management:

- CreateProcedurePurgeAdvancedPricing.sql
- CreateProcedurePurgeControlTransaction.sql
- Create Procedure Purge Cross Channel Order. sql
- CreateProcedurePurgeDuplicatePriceChangeEvent.sql
- CreateProcedurePurgeEJournal.sql
- CreateProcedurePurgeEmployeeBiometrics.sql
- CreateProcedurePurgeFinancialHistory.sql
- CreateProcedurePurgeFinancialSummary.sql
- CreateProcedurePurgeFinancialTransaction.sql
- CreateProcedurePurgeLayaway.sql
- CreateProcedurePurgeOrder.sql
- CreateProcedurePurgeOrderCommon.sql
- CreateProcedurePurgePriceChangeEvent.sql
- CreateProcedurePurgePromotionEvent.sql
- CreateProcedurePurgeRetailTransaction.sql
- CreateProcedurePurgeRetailTransactionCommon.sql
- Create Procedure Purge Retail Transaction Line Item. sql

- Create Procedure Purge Sale Return Line Item. sql
- Create Procedure Purge Tender Line Item. sql
- Create Procedure Purge Training Mode Transaction. sql
- Create Procedure Purge Transaction. sql

Restricting Access To Data Purge Scripts

For more information about restricting access to data purge scripts, see the Oracle Retail POS Suite Security Guide.

Restricting Access	To	Data	Purge	Scripts
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Database

This chapter covers information regarding maintenance of the database.

Database Downtime in Central Office

Note: This information is only applicable if messages are being sent to the JMS queue.

When the Central Office database is down for maintenance or backing up, the Central Office application should be brought down as well. See your application server documentation for information on stopping the application server container running Central Office.

While the Central Office database is down, Point-of-Service continues sending messages containing retail transaction information to Central Office. This information cannot be persisted in the Central Office database until the database is once again available. If the database remains down, and the number of messages, sends, and retries exceeds a specified number, Point-of-Service stops attempting to send the messages to Central Office and instead places the messages into an error queue. At that point, manual intervention is required to resend the messages from Point-of-Service or to retrieve the messages from the error queue.