

Oracle® Retail Pricing Operations Guide



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Preface

This *Oracle Retail Pricing Cloud Service Operations Guide* provides critical information about the processing and operating details of Product, including the following:

Audience

This guide is for:

- Systems administration and operations personnel
- Systems analysts
- Integrators and implementers
- Business analysts who need information about Product processes and interfaces

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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.
<i>italic</i>	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.

1

Introduction

Oracle Retail Pricing provides the ability to define, maintain, and review price changes, clearances, and promotions as well as provides the ability to pass approved price events onto downstream selling systems.

Pricing functionality provides support for initial pricing, regular price changes, clearance markdowns, and promotions. It also offers the ability to upload price changes, clearance and promotion events in multiple ways including spreadsheet induction, bulk upload, or web service. The user interface supports price change or clearance wizards for entering multiple price events at once as well as a quick entry panel for quickly adding these types of price events.

Pricing also supports an offer wizard for entering and maintaining offers within a promotion. Offers can be at the item or transaction level and Pricing supports multiple templates for different offer types.

Pricing functionality provides support for initial pricing, regular price changes, clearance markdowns, and promotions. It also provides for the execution of these price events to update the selling systems, such as Xstore POS, and to update the item/location price and stock ledger when the price changes go into effect.



Note:

Users should not access Oracle Retail Pricing during the Retail Merchandising System (Merchandising) batch window as it may cause some unpredictable results.

2

Pricing Batch Processes

This chapter discusses batch processing within Oracle Retail Pricing.



Note:

Details around incoming/outgoing file storage are available in the "Merchandising File Transfer Service" section of the *Merchandising Operations Guide - Vol 2*.

Table 2-1 Functional Descriptions and Dependencies

Batch processes	Details
BDI Clearance Publishing	This batch process utilizes BDI (Bulk Data Integration) to facilitate the bulk data movement to stage clearance data. The batch job BDI_PRICING_CLR_TX_JOB stages clearance data.
BDI Price Change Publishing	This batch process utilizes BDI (Bulk Data Integration) to facilitate the bulk data movement to stage clearance data. The batch job BDI_PRICING_PC_TX_JOB stages price change data.
Clearance Cache Batch	This batch process stages pre-built JSON Messages to be used by the item/price Rest Service for clearance data.
ClearanceInductionBatch	This batch program allows the user to upload clearance events in bulk.
ClearancePriceChangePublishBatch	This batch process formats and stages output of clearance price change price events to be published via a flat file format.
ClearanceRDEDataBatch	This batch populates clearance data to be replicated to RDS for RDE to use.
futureRetailPurgeBatch	This timed multi-threaded batch deletes records from the future retail that are past the retention period of the associated price events.
FutureRetailRollUpBatch.sh	This batch attempts to roll up timelines at a lower level by comparing lower level timelines to higher levels and removing any lower level timelines that match higher level timelines exactly.
itemReclassBatch	When items are moved from one department/class/subclass to another in the merchandising system, this batch process accordingly sets the correct department/class/subclass for these items in the Future Retail table as well as updating the department as necessary in the RPM_ITEM_LOC table.
NewItemLocationBatch	This batch ranges item locations by putting them into the future retail table. Item and locations are fed to this program through the RPM_ITEM_LOC_WS table, which is populated by a Merchandising process.
NightlyBatchCleanup	This batch performs "clean up" logic against Pricing database objects.
Price Change Cache Batch	This batch process stages pre-built JSON Messages to be used by the item/price Rest Service for price change data.
PriceChangeInductionBatch	This batch program allows the user to upload regular price changes in bulk.
PriceEventExecutionBatch	This batch process performs the necessary work to start (regular price change, clearance price change, promotions) and end (price clearances, promotions) pricing events.

Table 2-1 (Cont.) Functional Descriptions and Dependencies

Batch processes	Details
priceEventExecutionForChunkCCEmergencyEvents	This batch process performs the work to start and end emergency pricing events which were processed in chunk conflict checking.
ProcessPendingChunkBatch	The batch looks for any events from the chunk conflict checking process that need additional processing due to errors, and reprocesses them using regular conflict checking.
Promotion Cache Batch	This batch process stages pre-built JSON Messages to be used by the item/promo Rest Service for promotion data.
PromotionInductionBatch	This batch program allows the user to upload promotions in bulk.
Promotion Publishing	This batch process utilizes BDI (Bulk Data Integration) to facilitate the bulk data movement to target applications. The batch job BDI_PRICING_PROMO_OFFER_TX_CYCLE_JOB stages promotion data.
PurgeBatch	This purge batch calls most of the purge logic into one purge process.
PurgeGttCaptureBatch	This batch process deletes records from gtt data capture tables.
PurgeItemLocPayloadUnusedCCBatch	This batch specifically cleans up data related to staged payloads, conflict data for non-existent events and deleted items/item-locations.
RegularPriceChangePublishBatch	This batch process formats and stages output of regular price change price events to be published through a flat file format.

BDI Clearance Publishing (BDI_PRICING_CLR_TX_JOB)

This program utilizes BDI (Bulk Data Integration) to facilitate the bulk data movement to target applications. The batch job BDI_PRICING_CLR_TX_JOB is defined in the Merchandising JOS batch job admin to stage clearance data.

The program can be scheduled ad hoc, recurring, and nightly depending on the needs of each retailer. Each run of the program will include changes for approved clearances since the previous run.

Scheduling Constraints

Table 2-2 BDI_PRICING_CLR_TX_JOB Scheduling Constraints

Schedule Information	Description
Frequency	Ad hoc, Recurring, Nightly
Scheduling Considerations	not applicable
Pre-Processing	not applicable
Post-Processing	not applicable
Threading Scheme	not applicable

Restart/Recovery

N/A

Key Tables Affected

Table 2-3 Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_CLR_BDI_HELPER_WS	Yes	No	No	No
RPM_CLEARANCE	Yes	No	No	No
RPM_PRICE_EVENT_PAYLOAD	Yes	No	No	No

Design Assumptions

N/A

Output

BDI extractor jobs call respective BDI functions to extract data from Pricing tables to BDI outbound staging table `CLEARANCE_OUT`.

Table 2-4 BDI Outbound Staging Table `CLEARANCE_OUT`

Name	Null	Type	Description
BDI_SEQ_ID	No	NUMBER	BDI Internal Column
BDI_APP_NAME	No	VARCHAR2(50)	BDI Internal Column
BDI_DATASET_TYPE	Yes	VARCHAR2(20)	BDI Internal Column
BDI_DATASET_ACTION	Yes	VARCHAR2(20)	BDI Internal Column
REC_ID	No	NUMBER(10,0)	The ID of the record
RECORD_TYPE	No	VARCHAR2(50)	The record type. Valid values (Create/Update/Delete)
CLEARANCE_ID	No	NUMBER(15,0)	The clearance ID
ITEM	Yes	VARCHAR2(25)	The item ID
LOCATION	Yes	NUMBER(10,0)	The location ID
LOCATION_TYPE	Yes	VARCHAR2(30)	The location Type. Valid values (S 'Store' or W 'Warehouse').
EFFECTIVE_DATE	Yes	TIMESTAMP(2)	Effective date of the clearance
RETAIL	Yes	NUMBER(20,4)	The clearance retail for the item location
UOM	Yes	VARCHAR2(25)	The retail unit of measure
CURRENCY	Yes	VARCHAR2(25)	The currency for the location
RESET_INDICATOR	No	NUMBER(1,0)	Indicates if the clearance event is a reset. Valid values: 0- The record is not a reset; 1 – The record is a reset.

BDI Price Change Publishing (BDI_PRICING_PC_TX_CYCLE_JOB)

This program utilizes BDI (Bulk Data Integration) to facilitate the bulk data movement to target applications. The batch job BDI_PRICING_PC_TX_JOB is defined in the Merchandising JOS batch job admin to stage clearance data.

The program can be scheduled ad hoc, recurring, and nightly depending on the needs of each retailer. Each run of the program will include changes for approved price changes since the previous run.

Scheduling Constraints

Table 2-5 BDI_PRICING_PC_TX_CYCLE_JOB Scheduling Constraints

Schedule Information	Description
Frequency	Ad hoc, Recurring, Nightly
Scheduling Considerations	not applicable
Pre-Processing	not applicable
Post-Processing	not applicable
Threading Scheme	not applicable

Restart/Recovery

N/A

Key Tables Affected

Table 2-6 Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_PC_BDI_HELPER_WS	Yes	No	No	No
RPM_PRICE_EVENT_PAYLOAD	Yes	No	No	No
RPM_PRICE_CHANGE	Yes	No	No	No

Design Assumptions

N/A

Output

BDI extractor jobs call respective BDI functions to extract data from Pricing tables to BDI outbound staging table PRICE_CHANGE_OUT.

Table 2-7 BDI Outbound Staging Table PRICE_CHANGE_OUT

Name	Null	Type	Description
BDI_SEQ_ID	No	NUMBER	BDI Internal Column
BDI_APP_NAME	No	VARCHAR2(50)	BDI Internal Column
BDI_DATASET_TYPE	Yes	VARCHAR2(20)	BDI Internal Column
BDI_DATASET_ACTION	Yes	VARCHAR2(20)	BDI Internal Column
REC_ID	No	NUMBER(10,0)	The ID of the record
RECORD_TYPE	No	VARCHAR2(50)	The record type. Valid values (Create/Update/Delete)
PRICE_CHANGE_ID	No	NUMBER(15,0)	The price change ID
ITEM	Yes	VARCHAR2(25)	The item ID
LOCATION	Yes	NUMBER(10,0)	The location ID
LOCATION_TYPE	Yes	VARCHAR2(30)	The location Type. Valid values (S 'Store' or W 'Warehouse')
EFFECTIVE_DATE	Yes	TIMESTAMP(2)	Effective date of the price change
RETAIL	Yes	NUMBER(20,4)	The new regular retail for the item location
UOM	Yes	VARCHAR2(25)	The retail unit of measure
CURRENCY	Yes	VARCHAR2(25)	The currency for the location
RETAIL_CHANGE_IND	No	NUMBER(6,0)	Indicates whether the retail changed with this price change

Clearance Cache Batch

Table 2-8 ClearanceCacheBatch Details

Module Name	ClearanceCacheBatch.sh
Description	Build/Update JSON Cache data for Clearances
Functional Area	Clearance
Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	ClearanceCacheBatch.sh

Design Overview

The ClearanceCacheBatch pre-builds JSON messages that are used by downstream systems via the item/price Rest Endpoint for Clearance events.

The process will look for data on RPM_ICL_PRICE_EVENT_PAYLOAD and RPM_PRICE_EVENT_PAYLOAD to determine what message structures to build and what flags to set to provide accurate action values when processing a service request.

Scheduling Constraints

Table 2-9 ClearanceCacheBatch Scheduling Constraints

Schedule Information	Description
Frequency	Ad hoc, Recurring
Scheduling Considerations	N/A
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	The process is threaded based on clearance ids from RPM_CLEARANCE_PAYLOAD.

Restart/Recovery

N/A

Key Tables Affected

Table 2-10 ClearanceCacheBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_CLR_JSON_THREAD_WS	Yes	Yes	No	Yes
RPM_ICL_PRICE_EVENT_PAYLOAD	Yes	No	No	Yes
RPM_PRICE_EVENT_PAYLOAD	Yes	No	Yes	No
RPM_CLEARANCE_PAYLOAD	Yes	No	No	No
RPM_CLR_JSON_CACHE	Yes	Yes	Yes	No

Design Assumptions

N/A

ClearanceInductionBatch (Clearance Induction Batch)

Table 2-11 ClearanceInductionBatch Details

Module Name	ClearanceInductionBatch.sh
Description	Clearance bulk upload process
Functional Area	Clearance
Module Type	Business Processing
Module Technology	Java
Catalog ID	

Table 2-11 (Cont.) ClearanceInductionBatch Details

Runtime Parameters	<div>ClearanceInductionBatch.sh <incoming-dir-path> <Template_Key> [filter_Str]</div> <ul style="list-style-type: none">• The first argument is the path where the induction input files are placed.• The second argument is the name of the standard clearance template key. This is a mandatory argument.• The third argument is optional and, when provided, accepts the following values:<ol style="list-style-type: none">1. XML - indicates that the batch has to look for xml files in the given incoming-dir-path and process them.2. ZIP - This is the default value when nothing is provided. The process will look for zip files containing xml files and process them sequentially.
--------------------	---

**Note:****File naming standards**

XML file:

The file should have a prefix of CLIND. Ex: CLIND_ABC-10.10.18.xml

The file should contain the data in the format suggested by standard clearance upload template.

ZIP file:

The file should have a prefix of CLIND. Ex: CLIND_ABC.ZIP

The xml files with in the zip file should also have the prefix of CLIND.

Design Overview

The clearance induction batch process perform the necessary work to upload clearances in bulk. For the bulk upload, clearance data will be present in XML format with the data formatted in the standard clearance upload template. This batch accepts the clearance data present in XML format and also as zip files of xml files formatted in the standard template.

Scheduling Constraints

Table 2-12 ClearanceInductionBatch Scheduling Constraints

Schedule Information	Description
Frequency	Ad hoc, Recurring
Scheduling Considerations	N/A
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	N/A

Restart/Recovery

N/A

Key Tables Affected

Table 2-13 ClearanceInductionBatch Key Tables Affected

Table	Select	Insert	Update	Delete
S9T_TEMPLATE	Yes	No	No	No
SVC_PROCESS_TRACKER	Yes	Yes	Yes	No
S9T_ERRORS	Yes	Yes	No	No
RPM_CORESVC_CLEARANCE_ER	Yes	Yes	No	No
RPM_SVC_CLEARANCE	Yes	Yes	Yes	No
RPM_CLEARANCE	Yes	Yes	Yes	Yes
RPM_CLEARANCE_GROUP	Yes	Yes	Yes	Yes

Design Assumptions

N/A

ClearancePriceChangePublishBatch (Clearance Price Change Publish Batch)

Table 2-14 ClearancePriceChangePublishBatch Details

Module Name	ClearancePriceChangePublishBatch.sh
Description	Clearance events are exported
Functional Area	Clearance
Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	ClearancePriceChangePublishBatch.sh <outgoing-dir-path>

Design Overview

The ClearancePriceChangePublishBatch program formats and stages output of clearance price change price events.

The corresponding clearancePriceChangePublishExport shell script produces a pipe ("|") delimited flat-file export based on the output of the ClearancePriceChangePublishBatch.

The batch looks for price events in the RPM_PRICE_EVENT_PAYLOAD table with a MSG_FAMILY of 'ClrPrcChg' and distributes those events to multiple threads based on the

settings in the RPM_BATCH_CONTROL table. Each thread reads in its set of clearance price change events from tables RPM_PRICE_EVENT_PAYLOAD and RPM_CLEARANCE_PAYLOAD and generates output in RPM_PRICE_PUBLISH_DATA. After the flat file is generated (see the following format), the associated records in the payload tables are deleted.

Then the flat-files per location based on the data from payload table that need to be published/processed will be created and zipped and copied to the outgoing-directory-path provided as a batch parameter.

Scheduling Constraints

Table 2-15 ClearancePriceChangePublishBatch Scheduling Constraints

Schedule Information	Description
Frequency	Ad hoc, Recurring
Scheduling Considerations	N/A
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	The ClearancePriceChangePublishBatch program is threaded, using RPM_BATCH_CONTROL. The LUW is a single clearance price change event.

Restart/Recovery

N/A

Key Tables Affected

Table 2-16 ClearancePriceChangePublishBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_PRICE_EVENT_PAYLOAD	Yes	No	No	No
RPM_CLEARANCE_PAYLOAD	Yes	No	No	No

Output File

FHEAD - REQUIRED: File identification, one line per file.

FDETL - OPTIONAL: Price Change Event (Create or Modify).

FDELE - OPTIONAL: Price Change Event (Delete).

FTAIL - REQUIRED: End of file marker, one line per file.



Note:

File naming standards

The naming convention for the flat file will be (CLRPC_<timestamp>_<location>_<loc_type>.dat), where <timestamp> is the current system time stamp, <location> is the location ID and <loc_type> is the type of the location where 'S' is for Store and 'W' is for Warehouse. The zip file naming convention will be (CLRPC_<timestamp>.zip).

Output File Layout

Table 2-17 Output File Layout

Record Name	Field Name	Field Type	Default Value	Description
FHEAD	Record Descriptor	Char(5)	FHEAD	File head marker
	Line ID	Number(10)	1	Unique line identification
	File Type	Char(5)	CLRPC	Clearance Price Changes
	Export timestamp	Timestamp		System clock timestamp (YYYYMMDDHHMISS)
	Location	Number(10)		Location identifier
	Location Type	Char(1)		S = Store, W = Warehouse
FDETL	Record Descriptor	Char(5)	FDETL	File Detail Marker (1 per clearance create or modify)
	Line ID	Number(10)		Unique line identification
	Event Type	Char(3)		CRE = Create, MOD = Modify
	Id	Number(15)		Clearance identifier
	Item	Char(25)		Item identifier
	Effective Date	Date		Clearance Effective Date (YYYYMMDDHH24MISS)
	Selling Retail	Number(20,4)		Selling retail with price change applied
	Selling Retail UOM	Char(4)		Selling retail unit of measure
	Selling Retail Currency	Char(3)		Selling retail currency
	Reset Clearance Id	Number(15)		Clearance reset identification
FDELE	Record Descriptor	Char(5)	FDELE	File Detail Delete Marker (1 per clearance delete)
	Line ID	Number(10)		Unique line identification
	Id	Number(15)		Clearance identifier
	Item	Char(25)		Item identifier
FTAIL	Record Descriptor	Char(5)	FTAIL	File tail marker

Table 2-17 (Cont.) Output File Layout

Record Name	Field Name	Field Type	Default Value	Description
	Line ID	Number(10)		Unique line identification
	Number of lines	Number(10)		Number of lines in file not counting FHEAD and FTAIL

Design Assumptions

N/A

ClearanceRDEDataBatch

Table 2-18 ClearanceRDEDataBatch Details

Module Name	ClearanceRdeDataBatch.sh
Description	Populates clearance data to be replicate to RDS for RDE to use.
Functional Area	Clearances
Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	ClearanceRdeDataBatch.sh

Design Overview

This batch process will use staged clearance payload data and create/update data that is replicated to RDS for use by RDE.

Scheduling Constraints

Table 2-19 ClearanceRDEDataBatch Scheduling Constraints

Schedule Information	Description
Frequency	Hourly Ad hoc
Scheduling Considerations	N/A
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	N/A

Restart/Recovery

N/A

Key Tables Affected

Table 2-20 ClearanceRDEDataBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_CLEARANCE_PAYLOAD	Yes	No	No	No

Design Assumptions

N/A

FutureRetailPurgeBatch

Table 2-21 FutureRetailPurgeBatch Details

Module Name	FutureRetailPurgeBatch.sh
Description	Purges future retail data that is past the retention period.
Functional Area	Future Retail
Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	futureRetailPurgeBatch.sh

Design Overview

This batch is a timed multi-threaded process that purges future retail data that are past the retention periods of their corresponding price events.

Scheduling Constraints

Table 2-22 FutureRetailPurgeBatch Scheduling Constraints

Schedule Information	Description
Frequency	Nightly
Scheduling Considerations	This process must be executed during the batch window. As it runs, other processes must not access the future retail tables.
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	The batch uses bookmark logic to process merchandise hierarchies in a round robin fashion and running for a specific timeframe depending on the value of BATCH_TIME_LIMIT_HOURS in RPM_BATCH_CONTROL.

Restart/Recovery

Restart/Recovery is inherent in the design of this program, as records are deleted after processing they would not be picked up when the program is run again.

Key Tables Affected

Table 2-23 FutureRetailPurgeBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_FUTURE_RETAIL	Yes	No	No	Yes

Design Assumptions

N/A

FutureRetailRollUpBatch (Future Retail Roll Up Batch)

Table 2-24 FutureRetailRollUpBatch Details

Module Name	FutureRetailRollUpBatch.sh
Description	Attempts to roll up timelines on future retail if lower level timelines match higher levels.
Functional Area	Future Retail
Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	futureRetailRollUpBatch.sh

Design Overview

This batch attempts to roll up lower level timelines to existing higher level timelines (for example, from Item/Location to Parent/Location) by comparing two related timelines and removing the lower level timelines if the two match exactly for all records.

Scheduling Constraints

Table 2-25 FutureRetailRollUpBatch Scheduling Constraints

Schedule Information	Description
Frequency	Nightly
Scheduling Considerations	This process must be executed during the batch window. As it runs, other processes must not access the future retail tables.
Pre-Processing	N/A
Post-Processing	N/A

Table 2-25 (Cont.) FutureRetailRollUpBatch Scheduling Constraints

Schedule Information	Description
Threading Scheme	This batch is threaded by item.

Restart/Recovery

The batch uses bookmark logic to process merchandise hierarchies in a round robin fashion and running for a specific timeframe depending on the value of BATCH_TIME_LIMIT_HOURS in RPM_BATCH_CONTROL.

Key Tables Affected

Table 2-26 FutureRetailRollUpBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_FUTURE_RETAIL	Yes	No	Yes	No

Design Assumptions

N/A

ItemReclassBatch (Item Reclass Batch)

Table 2-27 ItemReclassBatch Details

Module Name	ItemReclassBatch.sh
Description	Updates Pricing tables when a merchandise hierarchy change is made in RMS.
Functional Area	Future Retail
Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	ItemReclassBatch.sh

Design Overview

When items are moved from one department/class/subclass to another in the merchandising system, this batch process accordingly sets the correct department/class/subclass for these items in the Future Retail table and the Pricing Item/Location table if the item has move departments.

This batch also removes the zones of the old primary zone group from zone future retail and item zone price tables, if the item's old department had a different primary zone group than the new department.

Scheduling Constraints

Table 2-28 ItemReclassBatch Scheduling Constraints

Schedule Information	Description
Frequency	Nightly
Scheduling Considerations	Must be run during the batch window.
Pre-Processing	The RPM_ITEM_MODIFICATION table has been populated by the Merchandising reclassification batch process.
Post-Processing	N/A
Threading Scheme	Batch is multi-threaded based on old department and item_parent. Thread LUW is defined in rpm_batch_control. <ul style="list-style-type: none">• STYLE and all its SKU's should be in same thread. One thread can have multiple STYLEs.• One old department can be spread across multiple threads if it has more than LUW records. One thread should have only one old department.

Restart/Recovery

N/A

Key Tables Affected

Table 2-29 ItemReclassBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_FUTURE_RETAIL	Yes	No	Yes	No
RPM_ITEM_MODIFICATION	Yes	No	No	No
RPM_ITEM_MODIFICATION_THREAD	Yes	Yes	Yes	Yes
RPM_ZONE_FUTURE_RETAIL	Yes	No	No	Yes
RPM_ITEM_ZONE_PRICE	Yes	No	No	Yes

Design Assumptions

N/A

NewItemLocationBatch (New Item Location Batch)

Table 2-30 NewItemLocationBatch Details

Module Name	NewItemLocationBatch.sh
Description	Updates Pricing tables for new item/locations in RMS
Functional Area	Future Retail

Table 2-30 (Cont.) NewItemLocationBatch Details

Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	<p>NewItemLocationBatch.sh [N / {E <error commit count>} / {R [<process ID>}}]</p> <p>Where</p> <p>The 'status' argument (N/E/R) is optional and directs the application as to what "status" to process. If it's not specified, the batch will default it to 'N'ew mode. The last argument can be optional or required depending upon the status argument as describe in the section below:</p> <p>Valid values for the status argument are:</p> <p>'N'ew: This will process records with status of N (New) from the staging table. When the batch is run in this mode, the last argument is not needed.</p> <p>'E'rror: This will process records with status of E (Error) from the staging table. When the batch is run in this mode, the batch can have the error commit count argument as an optional argument. Error commit count is optional and is used only when the status argument is 'E'. If not specified, the batch will use the logical unit of work for processing</p> <p>'R'estart: When the batch is run in this mode, then the process_id argument is required. This mode will only restart the rolling up functionality that is part of location move. It will call the RPM_NEW_ITEM_LOC_SQL.ROLLUP_NIL_DATA for the threads that are not in completed status in RPM_NIL_ROLLUP_THREAD. A required valid process ID parameter will also need to be passed in as well to indicate what process ID the batch should restart.</p>

Design Overview

The NewItemLocationBatch program ranges item locations by putting them into the future retail table. Item locations are fed to this program via the RPM_ITEM_LOC_WS table, which is populated by an RMS process.

Scheduling Constraints

Table 2-31 NewItemLocationBatch Scheduling Constraints

Schedule Information	Description
Frequency	Ad hoc
Scheduling Considerations	Must not have more than one instance running at a time.
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	<p>The NewItemLocationBatch is a multi-step and multi-threaded batch, meaning each of the two steps (inheritance process and rollup process) has its own independent threading. The first part, which is the insert to future retail table and inheritance process, is threaded by related item-locations where "related" means transaction items under a single parent items and locations within a zone that is part of a primary zone group.</p> <p>If there are price events, then it chooses a path based on batch control settings similar to the ones for a price event approval from UI, and it chooses to go to chunking or bulking based on setting and the volume of data.</p>

Restart/Recovery

Processing Stage Rows in Error Status

This program is set up to re-process (re-attempt) rows that end up in error status. In the event that an error occurs during the processing of new status rows, the program should update the status on the stage table with E along with an error message. Once the error has been fixed, you can re-run this program with status E in an attempt to get the item/loc into Pricing.

Key Tables Affected

Table 2-32 NewItemLocationBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_FUTURE_RETAIL	Yes	No	Yes	No
RPM_ITEM_LOC	Yes	No	No	No
RPM_STAGE_ITEM_LOC	Yes	No	Yes	No
RPM_STAGE_ITEM_LOC_CL EAN	Yes	No	No	No
RPM_NIL_ROLLUP_THREA D	Yes	No	Yes	No
RPM_NIL_BULKCCPE_PRO CESS_ID	Yes	No	No	No

Design Assumptions

N/A

NightlyBatchCleanup (Nightly Cleanup Batch)

Table 2-33 NightlyBatchCleanup Details

Module Name	NightlyBatchCleanup.sh
Description	Nightly clean up on pricing tables
Functional Area	All
Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	NightlyBatchCleanupBatch.sh PRE/POST

Design Overview

The nightlyBatchCleanup batch program performs "clean up" logic against certain database structures.

Scheduling Constraints

Table 2-34 NightlyBatchCleanup Scheduling Constraints

Schedule Information	Description
Frequency	Nightly batch cycle
Scheduling Considerations	This batch should be run before the nightly batch window in "pre" mode and after the nightly batch window in "post" mode.
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	N/A

Restart/Recovery

N/A

Key Tables Affected

Table 2-35 NightlyBatchCleanup Key Tables Affected

Table	Select	Insert	Update	Delete
S9T_TEMPLATE	Yes	No	No	No
SVC_PROCESS_TRACKER	Yes	No	No	No
S9T_ERRORS	Yes	Yes	Yes	No
RPM_CORESVC_PRICE_CHANGE_ERR	Yes	No	No	No
RPM_SVC_PRICE_CHANGE	Yes	No	Yes	No
RPM_PRICE_CHANGE	Yes	No	No	No
RPM_PRICE_CHANGE_GROUP	No	Yes	No	No

Design Assumptions

N/A

Price Change Cache Batch

Table 2-36 PriceChangeCacheBatch Details

Module Name	PriceChangeCacheBatch.sh
Description	Build/Update JSON Cache data for Regular Price Changes
Functional Area	Regular Price Changes
Module Type	Business Processing
Module Technology	Java

Table 2-36 (Cont.) PriceChangeCacheBatch Details

Catalog ID	
Runtime Parameters	PriceChangeCacheBatch.sh

Design Overview

The PriceChangeCacheBatch pre-builds JSON messages for that are used by downstream systems via the item/price Rest Endpoint for Price Change events.

The process will look for data on RPM_ICL_PRICE_EVENT_PAYLOAD and RPM_PRICE_EVENT_PAYLOAD to determine what message structures to build and what flags to set to provide accurate action values when processing a service request.

Scheduling Constraints

Table 2-37 PriceChangeCacheBatch Scheduling Constraints

Schedule Information	Description
Frequency	Ad hoc, Recurring
Scheduling Considerations	N/A
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	The process is threaded based on price change ids from RPM_PRICE_CHG_PAYLOAD.

Restart/Recovery

N/A

Key Tables Affected

Table 2-38 PriceChangeCacheBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_PC_JSON_THREAD_WS	Yes	Yes	No	Yes
RPM_ICL_PRICE_EVENT_PAYLOAD	Yes	No	No	Yes
RPM_PRICE_EVENT_PAYLOAD	Yes	No	Yes	No
RPM_PRICE_CHG_PAYLOAD	Yes	No	No	No
RPM_PC_JSON_CACHE	Yes	Yes	Yes	No

Design Assumptions

N/A

PriceChangeInductionBatch (Price Change Induction Batch)

Table 2-39 PriceChangeInductionBatch Details

Module Name	PriceChangeInductionBatch.sh
Description	Price Change bulk upload process
Functional Area	Price Change
Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	<p>PriceChangeInductionBatch .sh <incoming-dir-path> <Template_Key> [filter_Str]</p> <ol style="list-style-type: none">1. The first argument is the path where the induction input files are placed.2. The second argument is the name of the standard price change template key. This is a mandatory argument.3. The third argument is an optional and when provided accepts the following values:<ol style="list-style-type: none">a. XML - indicates that the batch has to look for xml files in the given incoming-dir-path and process them.b. ZIP - This is the default value when nothing is provided. The process will look for zip files containing xml files and process them sequentially.

**Note:****File naming standards**

XML file:

The file should have a prefix of PCIND. Ex: PCIND_ABC-10.10.18.xml

The file should contain the data in the format suggested by standard price change upload template.

ZIP file:

The file should have a prefix of PCIND. Ex: PCIND_ABC.ZIP

The xml files with in the zip file should also have the prefix of PCIND

Design Overview

PriceChangeInductionBatch uploads regular price changes in bulk. For the bulk upload, price change data will be present in XML format with the data formatted in the standard price change upload template. This batch accepts the price change data present in XML format and also as zip files of xml files formatted in the standard template.

Scheduling Constraints

Table 2-40 PriceChangeInductionBatch Scheduling Constraints

Schedule Information	Description
Frequency	Ad hoc, Recurring
Scheduling Considerations	N/A
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	N/A

Restart/Recovery

N/A

Key Tables Affected

Table 2-41 PriceChangeInductionBatch Key Tables Affected

Table	Select	Insert	Update	Delete
S9T_TEMPLATE	Yes	No	No	No
SVC_PROCESS_TRACKER	Yes	Yes	Yes	No
S9T_ERRORS	Yes	Yes	No	No
RPM_CORESVC_PRICE_CHANGE_ERR	Yes	No	No	No
RPM_SVC_PRICE_CHANGE	Yes	No	Yes	No
RPM_PRICE_CHANGE	Yes	No	No	No
RPM_PRICE_CHANGE_GROUP	No	Yes	No	No

Design Assumptions

N/A

PriceEventExecutionBatch (Price Event Execution Batch)

Table 2-42 PriceEventExecutionBatch Details

Module Name	PriceEventExecution.sh
Description	Starts events that need to be executed on a given date.
Functional Area	Price Change
Module Type	Business Processing
Module Technology	Java

Table 2-42 (Cont.) PriceEventExecutionBatch Details

Catalog ID	
Runtime Parameters	PriceEventExecutionBatch.sh [restartInd Y N] Where the last argument of the PriceEventExecutionBatch indicates if the run should start over (use a value of N) or pick up where the previous run left off (use a value of Y).

Design Overview

The price event execution batch process performs the necessary work to start (regular price change and clearance price change) and end (reset) clearance pricing events.

The batch programs process regular price change and clearance price change events that are scheduled for the run date. Restartability features allow events missed in past runs of the batch to be picked up in later runs. When posting information in the ITEM_LOC and PRICE_HIST table, the batch process respects the active dates of their associated price events.

Clearances

- Clearance markdowns that are scheduled to take place are executed. These include all clearances whose effective dates are \leq VDATE+1.
- Clearances that are scheduled to be completed (reset) are completed.

Regular price changes

- Regular price changes that are scheduled to take place are executed. These include all price changes whose effective dates are \leq VDATE+1.

Scheduling Constraints

Table 2-43 PriceEventExecutionBatch Scheduling Constraints

Schedule Information	Description
Frequency	Nightly
Scheduling Considerations	Salstage (Merchandising) should run before Price Event Execution. Price Event Execution should run before the Storadd (Merchandising) batch.
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	N/A

Restart/Recovery

The program is restartable and will pick up any events remaining to be processed in a given run.

Key Tables Affected

Table 2-44 PriceEventExecutionBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_PRICE_CHANGE	Yes	No	Yes	No
RPM_CLEARANCE	Yes	No	Yes	No
ITEM_LOC	Yes	No	Yes	No
PRICE_HIST	Yes	Yes	No	No
TRAN_DATA	Yes	Yes	No	No

Design Assumptions

N/A

PriceEventExecutionForChunkCCEmergencyEvents Batch

The priceEventExecutionForChunkCCEmergencyEvents process performs the necessary work to start and end Emergency Price Events that are processed through chunk conflict checking. For more details on chunk conflict checking, see the ProcessPendingChunkBatch batch design.

Usage

The following command runs the priceEventExecutionForChunkCCEmergencyEvents job:

```
priceEventExecutionForChunkCCEmergencyEvents.sh
```

Detail

The priceEventExecutionForChunkCCEmergencyEvents batch program process Emergency regular price changes and clearance price changes that are scheduled to run on vdate or less than vdate. All processes for the emergency batch are similar to the priceEventExecutionBatch in the above that it is also update Merchandising tables in one batch. It is calling the same function with different parameter so that the system knows to process an Emergency Price Events or Non-Emergency Price Events.

Primary Tables Involved

- RPM_CHUNK_CC_STAGE_PEE
- RPM_PRICE_CHANGE
- RPM_CLEARANCE

Threading

The threading for priceEventExecutionForChunkCCEmergencyEvents batch is similar to the priceEventExecutionBatch. It utilizes concurrent processing and is threaded by a number of

item-locations affected by the pricing events to be executed. For more detail, please see the PriceEventExecutionBatch process in the Threading section.

ProcessPendingChunkBatch Batch

Pricing can utilize chunk processing for conflict checking of price events, to optimize performance for large events.

To determine if a price event should be processed through chunking, there is a row on the RPM_BATCH_CONTROL table with PROGRAM_NAME column equal to "Bulk Conflict Check App Service".

- The value of the THREAD_LUW_COUNT column of a row on the RPM_BATCH_CONTROL table with PROGRAM_NAME column equal to "Bulk Conflict Check App Service".

The conflict checking process utilizes chunking if the number of item/locations for a price event is greater than or equal to the THREAD_LUW_COUNT times a factor of 2.5.

Pricing then uses the value of the THREAD_LUW_COUNT column of a row on the RPM_BATCH_CONTROL table with PROGRAM_NAME column equal to "Bulk Conflict Check App Service" as the chunk size. If this is NULL, the chunk size will be 10,000.



Note:

This can be best illustrated by considering a price change set up for a style with 10,000 items and a zone with five locations.

The above mentioned bulk conflict checking process would be able to have only one thread that could process all 50,000 item/locations involved with one price event as suggested above. By chunking those 50,000 item/locations into smaller groupings, multiple threads can be utilized to execute the conflict checking process.

The ProcessPendingChunkBatch program attempts to reprocess push-back logic for threads that encountered errors in chunk conflict checking.

Usage

The following command runs the ProcessPendingChunkBatch job:

```
ProcessPendingChunkBatch.sh
```

Details

The batch looks for any push-back threads that completed with error and any price events that encountered errors in the post-push-back logic and attempts to reprocess them using the same logic that is used during the regular conflict checking processing.

Assumptions and Scheduling Notes

The ProcessPendingChunkBatch process can be run ad-hoc - the event of a price event moving to a pending status triggering the need to run this batch. Prior to running this batch, a DBA needs to verify what issues were encountered that caused a price event to be moved to a pending status (issues like unable to extend table space). These issues need to be rectified

prior to running this batch. If no action is taken to resolve these issues, the batch will likely encounter the same issues and the price events will be left in a pending status.

Primary Tables Involved

- RPM_BULK_CC_PE_CHUNK
- RPM_BULK_CC_PE_THREAD
- RPM_FUTURE_RETAIL_WS
- RPM_FUTURE_RETAIL

Threading

The ProcessPendingChunkBatch program is threaded in that it will reuse the same threading logic used by the conflict checking engine when attempting to reprocess push-back threads.

Promotion Cache Batch

Table 2-45 PromotionCacheBatch Details

Module Name	PromotionCacheBatch.sh
Description	Build/Update JSON Cache data for Promotions
Functional Area	Promotions
Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	PromotionCacheBatch.sh

Design Overview

The PromotionCacheBatch pre-builds JSON messages for that are used by downstream systems via the item/promo Rest Endpoint for Promotion events.

The process will look for data on RPM_ICL_PRICE_EVENT_PAYLOAD and RPM_PRICE_EVENT_PAYLOAD to determine what message structures to build and what flags to set to provide accurate action values when processing a service request.

Scheduling Constraints

Table 2-46 PromotionCacheBatch Scheduling Constraints

Schedule Information	Description
Frequency	Ad hoc, Recurring
Scheduling Considerations	N/A
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	The process is threaded based on offer ids from RPM_PROMO_OFFER_PAYLOAD.

Key Tables Affected

Table 2-47 PromotionCacheBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_PROMO_JSON_THRE AD_WS	Yes	Yes	No	Yes
RPM_ICL_PRICE_EVENT_P AYLOAD	Yes	No	No	Yes
RPM_PRICE_EVENT_PAYLO AD	Yes	No	Yes	No
RPM_PROMO_OFFER _PAYLOAD	Yes	No	No	No
RPM_PROMO_JSON_CACH E	Yes	Yes	Yes	No

Design Assumptions

N/A

PromotionInductionBatch (Promotion Induction Batch)

Table 2-48 PromotionInductionBatch Details

Module Name	PromotionInductionBatch.sh
Description	Promotion bulk upload process
Functional Area	Promotion
Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	<p>PromotionInductionBatch.sh <incoming-dir-path> <Template_Key> [filter_Str]</p> <ol style="list-style-type: none">1. The first argument is the path where the induction input file(s) are located. It can be a file or a directory.2. The second argument is the name of a promotion template key. This is a mandatory argument.3. The third argument is an optional and when provided accepts the following values:<ul style="list-style-type: none">• XML - indicates that the batch has to look for xml files in the given incoming-directory-path and process them.• ZIP - This is the default value when nothing is provided. The process will look for zip files containing xml files and process them.

**Note:****File naming standards**

XML file:

The files should have a prefix of PMIND. Files without this prefix are ignored. Ex: PMIND_ABC-10.10.18.xml

The file should contain the data in the format suggested by the given promotion upload template key argument.

ZIP file:

The file should have a prefix of PMIND. Files without this prefix are ignored. Ex: PMIND_ABC.zip

The xml files with in the zip file should also have the prefix of PMIND otherwise they will be ignored.

Design Overview

The promotion induction batch process perform the necessary work to upload promotions in bulk. For the bulk upload, promotion data will be present in XML format with the data formatted in a promotion upload template matching the given template key argument. This batch accepts the promotion data present in XML format and also as zip files of xml files.

Scheduling Constraints

Table 2-49 PromotionInductionBatch Scheduling Constraints

Schedule Information	Description
Frequency	Ad hoc, Recurring
Scheduling Considerations	N/A
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	N/A

Key Tables Affected

Table 2-50 PromotionInductionBatch Key Tables Affected

Table	Select	Insert	Update	Delete
S9T_TEMPLATE	Yes	No	No	No
SVC_PROCESS_TRACKER	Yes	Yes	Yes	No
S9T_ERRORS	Yes	Yes	No	No
RPM_CORESVC_PROMO_ER	Yes	Yes	No	No

Table 2-50 (Cont.) PromotionInductionBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_SVC_PROMO	Yes	Yes	Yes	No
RPM_SVC_PROMO_OFFER	Yes	Yes	Yes	No
RPM_SVC_PROMO_OFFER _COND	Yes	Yes	Yes	No
RPM_SVC_PROMO_OFFER _COND_MERCH	Yes	Yes	Yes	No
RPM_SVC_PROMO_OFFER _RWD	Yes	Yes	Yes	No
RPM_SVC_PROMO_OFFER _RWD_MERCH	Yes	Yes	Yes	No
RPM_SVC_PROMO_OFFER _ZONE_LOC	Yes	Yes	Yes	No
RPM_PROMO	Yes	Yes	Yes	Yes
RPM_PROMO_OFFER	Yes	Yes	Yes	Yes
RPM_PROMO_OFFER_CON D	Yes	Yes	Yes	Yes
RPM_PROMO_OFFER_CON D_MERCH	Yes	Yes	Yes	Yes
RPM_PROMO_OFFER_REW ARD	Yes	Yes	Yes	Yes
RPM_PROMO_OFFER_REW ARD_MERCH	Yes	Yes	Yes	Yes
RPM_PROMO_OFFER_ZON E_LOC	Yes	Yes	Yes	Yes

Promotion Publishing (BDI_PRICING_PROMO_OFFER_TX_CYCLE_JOB)

This program utilizes BDI (Bulk Data Integration) to facilitate the bulk data movement to target applications. The batch job BDI_PRICING_PROMO_OFFER_TX_CYCLE_JOB is defined in the Merchandising JOS batch job admin to stage promotions data.

The program can be scheduled ad hoc, recurring, and nightly depending on the needs of each retailer. Each run of the program will include changes for approved price changes since the previous run.

Scheduling Constraints

Table 2-51 BDI_PRICING_CLR_TX_JOB Scheduling Constraints

Schedule Information	Description
Frequency	Ad hoc, Recurring, Nightly
Scheduling Considerations	N/A

Table 2-51 (Cont.) BDI_PRICING_CLR_TX_JOB Scheduling Constraints

Schedule Information	Description
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	N/A

Restart/Recovery

N/A

Promotions Integration

The Pricing Cloud Service will communicate promotional offers at a rule criteria level instead of the item/location level, where applicable. Offers in an approved or active state and candidates for integration when edited.

The table below contains examples of message types that are created when certain activities are triggered by the user:

Table 2-52 Promotions Integration Examples

Message Type	Activities in Promotion UI
OfferCreate	This message type is generated when the user changes the state of an Offer to Approved state.
OfferDelete	This message type is generated when the following action happen: <ul style="list-style-type: none"> The user changes the state of an Offer to Delete state The user deletes an Offer
OfferHeaderUpdate	This message type is generated when the user updates the Promotion Offer Header information that is already in Approved state, for example, changing the start date, end date, comments, or coupon code of the promotion.
OfferCondUpdate	This message type is generated when the user updates the Condition information of an Offer, for example, changing the spending type or the spending value.
OfferRwdUpdate	This message type is generated when the user updates the Reward information of an Offer, for example, the reward value (change_type, change_amount, change_percent, etc.) of a promotion.
OfferRwdMerchAdd	This message type is generated when the user adds merchandise hierarchy to a promotion Reward list.
OfferCondMerchAdd	This message type is generated when the user adds merchandise hierarchy to a promotion Condition list.
OfferCondMerchDel	This message type is generated when the user deletes merchandise hierarchy from Promotion Condition list.
OfferRwdMerchDel	This message type is generated when the user deletes merchandise hierarchy from Promotion Reward list.
OfferLocAdd	This message type is generated when the user adds a location to a promotion.
OfferLocDel	This message type is generated when the user deletes a location to a promotion.

Table 2-52 (Cont.) Promotions Integration Examples

Message Type	Activities in Promotion UI
OfferCancel	This message type is generated when the user cancel a Promotion Offer.
OfferCondMerchCancel	This message type is generated when the user cancel a merchandise hierarchy from the Condition List of Promotion Offer.
OfferRwdMerchCancel	This message type is generated when the user cancel a merchandise hierarchy from the Reward List of Promotion Offer.
OfferLocCancel	This message type is generated when the user cancel a location of Promotion Offer.

Payload Tables

The table below lists Payload tables that are used to hold staged data for BDI population:

Table 2-53 Payload Tables that Hold Staged Data for BDI population

Table	Description
RPM_PRICE_EVENT_P AYLOAD	Message header level data - shared with PC and CLR Payload data. For promotion offers, the RIB_TYPE field will hold the same values as what is staged in the RPM_PROMO_OFFER_PUB_WS.PUB_TYPE_CODE table.
RPM_PROMO_OFFER _PUB_WS.PUB_TYPE_ CODE	This table is populated for all promotion offer messages.
RPM_PROMO_OFFER _PAYLOAD	Offer header level data. This table is populated for all promotion offer messages.
RPM_PROMO_OFR_C ND_MRCH_PAYLOAD	This table holds the payload information of the merchandise nodes associated with a promotion offer condition. This table is only populated when the condition for an approved offer has new merchandise data added to it or deleted from it.
RPM_PROMO_OFR_R WD_MRCH_PAYLOAD	This table holds the payload information of the merchandise nodes associated with a promotion offer reward. This table is only populated when the reward for an approved offer has new merchandise data added to it or deleted from it.
RPM_PROMO_OFFER _LOC_PAYLOAD	This table holds the payload information of the location nodes associated with a promotion offer. Only store data will be on this table - any zones associated with an offer will be exploded out to store level. This table is only populated when an approved offer has new zone/loc data added to it or deleted from it.
RPM_PROM_OFR_CN CL_ITEM_PAYLOAD	This table holds the payload information for items cancelled from active promotion offers. This table is only populated for active offers when merchandise is cancelled from a reward or condition.
RPM_PROM_OFR_CN CL_LOC_PAYLOAD	This table holds the payload information for locations cancelled from active promotion offers.
RPM_PROMO_OFFER _CANCEL_PAYLOAD	This table holds the payload information for when active promotion offers are cancelled as a whole.

Payload Population Logic

In many situations, the payload population logic will only populate a small piece of data about an offer (the action along with the promotion and offer ids). In these situations, the BDI extraction logic will use the promotion offer operational tables as the main source of data to stage in the BDI tables rather than the payload tables. In all scenarios, the RPM_PRICE_EVENT_PAYLOAD and RPM_PROMO_OFFER_PAYLOAD tables will be utilized.

BDI data population retrieves the data from both the Payload tables and also Promotion Operational tables depending on the message type.

In order to populate the data into BDI tables more efficiently, a workspace tables called RPM_PROMO_BDI_HELPER_WS is used. This workspace table will be inserted with the data from the two main payload tables that drives the whole processes, rpm_price_event_payload and rpm_promo_offer_payload tables.

Once the workspace table is populated, the system will perform some cleanup activities so that if the same promotions are being updated more than once, it will only write one Update message with the latest information into BDI tables. If the Promotion is being created and then Deleted, it will not get written into BDI tables at all. In order to avoid multiple update messages under the same promotion as mentioned previously, the system will retrieve the data from the Promotion Operational tables itself in order to get the latest data set of a promotion. The only time that payload tables records any activities is when a Promotion is deleted from the system, any merchandise hierarchy is deleted from a Promotion Condition or Reward, location is deleted from promotion and Canceling Promotion. Once the cleanup processed is done, the data will be inserted into BDI tables.

The table below maps which message structures use which payload or operational tables to build the BDI data:

Table 2-54 Message Structures to Build the BDI data

Message Type	Source Tables	Target Tables
OfferCreate	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROMO_OFFER, RPM_PROMO_OFFER_COND, RPM_PROMO_OFFER_COND_MERCH, RPM_PROMO_OFFER_REWARD, RPM_PROMO_OFFER_REWARD_MERCH, RPM_PROMO_OFFER_ZONE_LOC	PRC_PAYLD_MSG_HDR_OUT, PROMO_OFFER_OUT, PROMO_OFFER_COND_OUT, PROM_OFR_CND_MRCH_OUT, PROM_OFR_REWARD_OUT, PROM_OFR_RWD_MRCH_OUT, PROMO_OFFER_LOC_OUT
OfferDelete	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD	PRC_PAYLD_MSG_HDR_OUT, PROMO_OFFER_OUT
OfferUpdate	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROMO_OFFER	PRC_PAYLD_MSG_HDR_OUT, PROMO_OFFER_OUT
OfferCondUpdate	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROMO_OFFER_COND	PRC_PAYLD_MSG_HDR_OUT, PROMO_OFFER_COND_OUT

Table 2-54 (Cont.) Message Structures to Build the BDI data

Message Type	Source Tables	Target Tables
OfferCondMerchAdd	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROMO_OFFER_COND_MERCH	PRC_PAYLD_MSG_HDR_OUT, PROM_OFR_CND_MRCH_OUT
OfferRwdUpdate	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROMO_OFFER_REWARD	PRC_PAYLD_MSG_HDR_OUT, PROM_OFR_REWARD_OUT
OfferRwdMerchAdd	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROMO_OFFER_REWARD_MERCH	PRC_PAYLD_MSG_HDR_OUT, PROM_OFR_RWD_MRCH_OUT
OfferCondMerchDel	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROMO_OFR_CND_MRCH_PAYLOAD	PRC_PAYLD_MSG_HDR_OUT, PROM_OFR_CND_MRCH_OUT
OfferRwdMerchDel	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROMO_OFR_CND_MRCH_PAYLOAD	PRC_PAYLD_MSG_HDR_OUT, PROM_OFR_RWD_MRCH_OUT
OfferLocAdd	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROMO_OFFER_LOC_PAYLOAD	PRC_PAYLD_MSG_HDR_OUT, PROM_OFFER_LOC_OUT
OfferLocDel	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROMO_OFFER_LOC_PAYLOAD	PRC_PAYLD_MSG_HDR_OUT, PROM_OFFER_LOC_OUT
OfferCancel	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROMO_OFFER_CANCEL_PAYLOAD	PRC_PAYLD_MSG_HDR_OUT, PROM_OFR_CANCEL_OUT
OfferCondMerchCancel	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROM_OFR_CNCL_ITEM_PAYLOAD	PRC_PAYLD_MSG_HDR_OUT, PROM_OFR_CNCL_ITM_OUT
OfferRwdMerchCancel	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROM_OFR_CNCL_ITEM_PAYLOAD	PRC_PAYLD_MSG_HDR_OUT, PROM_OFR_CNCL_ITM_OUT
OfferLocCancel	RPM_PRICE_EVENT_PAYLOAD, RPM_PROMO_OFFER_PAYLOAD, RPM_PROM_OFR_CNCL_LOC_PAYLOAD	PRC_PAYLD_MSG_HDR_OUT, PROM_OFR_CNCL_LOC_OUT

BDI Tables

The message structure in the BDI tables will that even though there is a hierarchical relationship between tables, each table will not reference an ID for the entity above it. Rather, each full message will be identified by a unique ID that is stored on all tables - the PAYLOAD_ID column on each BDI table. Thus, for an OfferCreate message, each of the seven

BDI tables populated will have data with the same PAYLOAD_ID value and the consuming system will need to understand the structure of the tables in relation to each other for that specific message type.

The table below lists the each BDI table and its parent table from a high level perspective:

Table 2-55 BDI Tables

BDI Table	Parent Table
PRC_PAYLD_MSG_HDR_OUT	none
PROMO_OFFER_OUT	PRC_PAYLD_MSG_HDR_OUT
PROMO_OFFER_COND_OUT	PROMO_OFFER_OUT
PROMO_OFR_REWARD_OUT	PROMO_OFFER_OUT
PROM_OFR_CND_MRCH_OUT	PROMO_OFFER_COND_OUT
PROM_OFR_RWD_MRCH_OUT	PROMO_OFR_REWARD_OUT
PROMO_OFFER_LOC_OUT	PROMO_OFFER_OUT
PROMO_OFR_CANCEL_OUT	PRC_PAYLD_MSG_HDR_OUT
PROM_OFR_CNCL_ITM_OUT	PRC_PAYLD_MSG_HDR_OUT
PROM_OFR_CNCL_LOC_OUT	PRC_PAYLD_MSG_HDR_OUT

Key Tables Affected

Table 2-56 BDI Key Tables Affected

Table	Select	Insert	Update	Delete
PRC_PAYLD_MSG_HDR_OUT	Yes	No	No	No
PROMO_OFFER_OUT	Yes	Yes	No	No
PROMO_OFFER_COND_OUT	Yes	No	No	No
PROMO_OFR_REWARD_OUT	Yes	No	No	No
PRC_PAYLD_MSG_HDR_OUT	Yes	No	No	No
PROMO_OFFER_COND_OUT	No	Yes	No	No
PROMO_OFR_REWARD_OUT	No	Yes	No	No
PROM_OFR_CND_MRCH_OUT	No	Yes	No	No
PROM_OFR_RWD_MRCH_OUT	No	Yes	No	No
PROMO_OFFER_LOC_OUT	No	Yes	No	No
PROMO_OFR_CANCEL_OUT	No	Yes	No	No
PROM_OFR_CNCL_ITM_OUT	No	Yes	No	No

Table 2-56 (Cont.) BDI Key Tables Affected

Table	Select	Insert	Update	Delete
PROM_OFR_CNCL_LOC_OUT	No	Yes	No	No

Output

BDI extractor jobs call respective BDI functions to extract data from Pricing tables to BDI outbound staging tables which mirror the structure of the Pricing promotions tables.

PRC_PAYLD_MSG_HDR_OUT

Table 2-57 PRC_PAYLD_MSG_HDR_OUT

COLUMN	TYPE	NULLABLE	COMMENT
BDI_SEQ_ID	NUMBER	No	bdi internal column
BDI_APP_NAME	VARCHAR2(50)	No	bdi internal column
BDI_DATASET_TYPE	VARCHAR2(20)	Yes	bdi internal column
BDI_DATASET_ACTION	VARCHAR2(20)	Yes	bdi internal column
PRC_PAYLD_MSG_HDR_ID	NUMBER(10)	No	The unique payload ID for the message.
MESSAGE_TYPE	VARCHAR2(50)	No	The type of message associated to the payload_id.

PROMO_OFFER_OUT

Table 2-58 PROMO_OFFER_OUT

COLUMN	TYPE	NULLABLE	COMMENT
BDI_SEQ_ID	NUMBER	No	bdi internal column
BDI_APP_NAME	VARCHAR2(50)	No	bdi internal column
BDI_DATASET_TYPE	VARCHAR2(20)	Yes	bdi internal column
BDI_DATASET_ACTION	VARCHAR2(20)	Yes	bdi internal column
PROMO_OFFER_ID	NUMBER(10)	No	The payload ID of the promotion offer.
PAYLOAD_ID	NUMBER(10)	No	The message payload ID.
PROMO_ID	NUMBER(10)	No	The promo ID.
OFFER_ID	NUMBER(10)	No	The offer ID.
OFFER_DESC	VARCHAR2(1000)	Yes	Offer description.
OFFER_CUST_DESC	VARCHAR2(1000)	Yes	The customer description of the offer.

Table 2-58 (Cont.) PROMO_OFFER_OUT

COLUMN	TYPE	NULLABLE	COMMENT
LEVEL_CODE	NUMBER(2)	Yes	The level of the offer. Valid values are: 0 - Item, 1 - Transaction.
TYPE_CODE	NUMBER(2)	Yes	The type of the offer. Valid values are: 0 Item Simple, 1 Transaction Simple, 2 - Transaction Buy Get
TEMPLATE_ID	NUMBER(2)	Yes	The template of the offer. Valid values are: 0 - Get Discount, 1 - Buy X Get Discount, 2 - Spend X Get Discount, 4 - Get Y For Discount
START_DATE	TIMESTAMP(6)	Yes	The start date and time of the offer.
END_DATE	TIMESTAMP(6)	Yes	The end date and time of the offer.
COMMENTS	VARCHAR2(4000)	Yes	The comments for the offer.
COUPON_CODE	VARCHAR2(160)	Yes	The coupon code for the offer.
COUPON_CODE_REQ_IND	NUMBER(1)	Yes	Indicates if the coupon code is required.
DISTRIB_RULE_CODE	VARCHAR2(6)	Yes	The distribution rule code. Possible values are under CODE_TYPE 'OFDR'.
EXCLUSIVE_DISCOUNT_IND	NUMBER(1)	Yes	Indicates whether or not this offer is exclusive of other discounts.
GENERATED_BY	VARCHAR2(1)	Yes	The creator of the promotion. Possible values are under CODE_TYPE 'PRCT', S - Supplier and R - Retailer.
PRIMARY_SUPPLIER	NUMBER(10)	Yes	The primary supplier for the item/locations.
PURCHASE_TYPE	NUMBER(1)	Yes	The purchase type. Possible values are under CODE_TYPE 'PRTP', 0 - Owned, 1 - Consignment and 2 - Concession.

PROMO_OFFER_COND_OUT

Table 2-59 PROMO_OFFER_COND_OUT

COLUMN	TYPE	NULLABLE	COMMENT
BDI_SEQ_ID	NUMBER	No	bdi internal column
BDI_APP_NAME	VARCHAR2(50)	No	bdi internal column

Table 2-59 (Cont.) PROMO_OFFER_COND_OUT

COLUMN	TYPE	NULLABLE	COMMENT
BDI_DATASET_TYPE	VARCHAR2(20)	Yes	bdi internal column
BDI_DATASET_ACTION	VARCHAR2(20)	Yes	bdi internal column
PROMO_OFFER_COND_ID	NUMBER(10)	No	The payload ID of the condition of a promotion offer.
PAYLOAD_ID	NUMBER(10)	No	The message payload ID.
PROMO_ID	NUMBER(10)	No	The promo ID.
OFFER_ID	NUMBER(10)	No	The offer ID.
COND_ID	NUMBER(15)	No	Condition ID.
BUY_SPEND_TYPE	NUMBER(1)	No	The buy spend type of the condition. Valid values are: 0 - Quantity, 1 - Amount
BUY_SPEND_VALUE	NUMBER(20, 4)	No	The buy spend value of the condition.
BUY_UOM	VARCHAR2(4)	Yes	The buy UOM of the condition.

PROMO_OFR_REWARD_OUT

Table 2-60 PROMO_OFR_REWARD_OUT

COLUMN	TYPE	NULLABLE	COMMENT
BDI_SEQ_ID	NUMBER	No	bdi internal column
BDI_APP_NAME	VARCHAR2(50)	No	bdi internal column
BDI_DATASET_TYPE	VARCHAR2(20)	Yes	bdi internal column
BDI_DATASET_ACTION	VARCHAR2(20)	Yes	bdi internal column
PROMO_OFR_REWARD_ID	NUMBER(10)	No	The payload ID of the reward of a promotion offer.
PAYLOAD_ID	NUMBER(10)	No	The message payload ID.
PROMO_ID	NUMBER(10)	No	The promo ID.
OFFER_ID	NUMBER(10)	No	The offer ID.
REWARD_ID	NUMBER(15)	No	Reward ID.
CHANGE_TYPE	NUMBER(1)	No	Type of change for the reward. Valid values: change by amount (1), change by percent (0), fixed price (2)
CHANGE_AMOUNT	NUMBER(20,4)	Yes	The change by amount or fixed price amount.
CHANGE_PERCENT	NUMBER(7,4)	Yes	Percentage value when change type is change by percent.
QTY_TO_DISC	NUMBER(7,4)	Yes	The quantity to discount.
QTY_TO_DISC_UOM	VARCHAR2(4)	Yes	UOM of the discount quantity.

Table 2-60 (Cont.) PROMO_OFR_REWARD_OUT

COLUMN	TYPE	NULLABLE	COMMENT
APPLY_TO_IND	NUMBER(1)	No	The apply to indicator of the reward. Valid values: Regular only - 0; Clearance only - 1; Regular and Clearance - 2

PROM_OFR_CND_MRCH_OUT

Table 2-61 PROM_OFR_CND_MRCH_OUT

COLUMN	TYPE	NULLABLE	COMMENT
BDI_SEQ_ID	NUMBER	No	bdi internal column
BDI_APP_NAME	VARCHAR2(50)	No	bdi internal column
BDI_DATASET_TYPE	VARCHAR2(20)	Yes	bdi internal column
BDI_DATASET_ACTION	VARCHAR2(20)	Yes	bdi internal column
PROM_OFR_CND_MRCH_ID	NUMBER(10)	No	The payload ID of the condition of a promotion offer.
PAYLOAD_ID	NUMBER(10)	No	The message payload ID.
PROMO_ID	NUMBER(10)	No	The promo ID.
OFFER_ID	NUMBER(10)	No	The offer ID.
COND_ID	NUMBER(15)	No	Condition ID.
MERCH_LVL	NUMBER(2)	No	The merchandise level. Valid values are: 1 - Department; 2 - Class; 3 - Subclass; 4 - Parent Item; 5 - Parent/Diff Item; 6 - Transaction Item; 8 - All Departments; 11 - Supplier and/or Brand. Note - Supplier and/or Brand data can be included for Department, Class, or Subclass levels.
DEPT	NUMBER(4)	Yes	Department ID.
CLASS	NUMBER(4)	Yes	Class ID.
CLASS_ID	NUMBER(10)	Yes	The unique class ID value.
SUBCLASS	NUMBER(4)	Yes	Subclass ID.
SUBCLASS_ID	NUMBER(10)	Yes	The unique subclass ID value.
ITEM	VARCHAR2(25)	Yes	Item.
DIFF_ID	VARCHAR2(10)	Yes	Differentiator ID.
SUPPLIER_SITE	NUMBER(10)	Yes	Supplier Site ID
BRAND_NAME	VARCHAR2(30)	Yes	Brand Name
EXCLUDE_IND	NUMBER(1)	No	The exclude indicator.

PROM_OFR_RWD_MRCH_OUT

Table 2-62 PROM_OFR_RWD_MRCH_OUT

COLUMN	TYPE	NULLABLE	COMMENT
BDI_SEQ_ID	NUMBER	No	bdi internal column
BDI_APP_NAME	VARCHAR2(50)	No	bdi internal column
BDI_DATASET_TYPE	VARCHAR2(20)	No	bdi internal column
BDI_DATASET_ACTION	VARCHAR2(20)	No	bdi internal column
PROM_OFR_RWD_MRCH_ID	NUMBER(10)	No	The payload ID of the merchandise node associated with the promotion offer reward.
PAYLOAD_ID	NUMBER(10)	No	The message payload ID.
PROMO_ID	NUMBER(10)	No	The promo ID.
OFFER_ID	NUMBER(10)	No	The offer ID.
REWARD_ID	NUMBER(15)	No	Reward ID.
OFFER_REWARD_MERCH_ID	NUMBER(15)	No	The unique id for the offer reward merch record.
MERCH_LVL	NUMBER(2)	No	The merchandise level. Valid values are: 1 - Department; 2 - Class; 3 - Subclass; 4 - Parent Item; 5 - Parent/Diff Item; 6 - Transaction Item; 8 - All Departments; 11 - Supplier and/or Brand. Note - Supplier and/or Brand data can be included for Department, Class, or Subclass levels.
DEPT	NUMBER(4)	Yes	Department ID.
CLASS	NUMBER(4)	Yes	Class ID.
CLASS_ID	NUMBER(10)	Yes	The unique class ID value.
SUBCLASS	NUMBER(4)	Yes	Subclass ID.
SUBCLASS_ID	NUMBER(10)	Yes	The unique subclass ID value.
ITEM	VARCHAR2(25)	Yes	Item.
DIFF_ID	VARCHAR2(10)	Yes	Differentiator ID.
SUPPLIER_SITE	NUMBER(10)	Yes	Supplier Site ID
BRAND_NAME	VARCHAR2(30)	Yes	Brand Name
EXCLUDE_IND	NUMBER(1)	No	The exclude indicator.

PROMO_OFFER_LOC_OUT

Table 2-63 PROMO_OFFER_LOC_OUT

COLUMN	TYPE	NULLABLE	COMMENT
BDI_SEQ_ID	NUMBER	No	bdi internal column
BDI_APP_NAME	VARCHAR2(50)	No	bdi internal column
BDI_DATASET_TYPE	VARCHAR2(20)	Yes	bdi internal column
BDI_DATASET_ACTION	VARCHAR2(20)	Yes	bdi internal column
PROMO_OFFER_LOC_ID	NUMBER(10)	No	The payload ID of the location node associated with the promotion offer.
PAYLOAD_ID	NUMBER(10)	No	The message payload ID.
PROMO_ID	NUMBER(10)	No	The promo ID.
OFFER_ID	NUMBER(10)	No	The offer ID.
LOCATION	NUMBER(10)	Yes	Location for the offer.
EXCLUDE_IND	NUMBER(1)	No	The exclude indicator.

PROMO_OFR_CANCEL_OUT

Table 2-64 PROMO_OFR_CANCEL_OUT

COLUMN	TYPE	NULLABLE	COMMENT
BDI_SEQ_ID	NUMBER	No	bdi internal column
BDI_APP_NAME	VARCHAR2(50)	No	bdi internal column
BDI_DATASET_TYPE	VARCHAR2(20)	Yes	bdi internal column
BDI_DATASET_ACTION	VARCHAR2(20)	Yes	bdi internal column
PROMO_OFR_CANCEL_ID	NUMBER(10)	No	The payload ID of the offer cancellation.
PAYLOAD_ID	NUMBER(10)	No	The message payload ID.
PROMO_ID	NUMBER(10)	No	The promo ID.
OFFER_ID	NUMBER(10)	No	The offer ID.
CANCEL_DATETIME	TIMESTAMP(6)	No	The date and time that the offer cancellation takes effect.

PROM_OFR_CNCL_ITM_OUT

Table 2-65 PROM_OFR_CNCL_ITM_OUT

COLUMN	TYPE	NULLABLE	COMMENT
BDI_SEQ_ID	NUMBER	No	bdi internal column
BDI_APP_NAME	VARCHAR2(50)	No	bdi internal column
BDI_DATASET_TYPE	VARCHAR2(20)	Yes	bdi internal column
BDI_DATASET_ACTION	VARCHAR2(20)	Yes	bdi internal column

Table 2-65 (Cont.) PROM_OFR_CNCL_ITM_OUT

COLUMN	TYPE	NULLABLE	COMMENT
PROM_OFR_CNCL_ITM_ID	NUMBER(10)	No	The payload ID of the item cancellation from the offer.
PAYLOAD_ID	NUMBER(10)	No	The message payload ID.
PROMO_ID	NUMBER(10)	No	The promo ID.
OFFER_ID	NUMBER(10)	No	The offer ID.
REWARD_COND_IND	VARCHAR2(1)	No	Indicates if the merch is cancelled from a condition or a reward. Valid values: C - Condition; R - Reward
COND_ID	NUMBER(15)	Yes	Condition ID.
REWARD_ID	NUMBER(15)	Yes	Reward ID.
MERCH_LVL	NUMBER(2)	No	The merchandise level. Valid values are: 1 - Department; 2 - Class; 3 - Subclass; 4 - Parent Item; 5 - Parent/Diff Item; 6 - Transaction Item; 8 - All Departments; 11 - Supplier and/or Brand. Note - Supplier and/or Brand data can be included for Department, Class, or Subclass levels.
DEPT	NUMBER(4)	Yes	Department ID.
CLASS	NUMBER(4)	Yes	Class ID.
CLASS_ID	NUMBER(10)	Yes	The unique class ID value.
SUBCLASS	NUMBER(4)	Yes	Subclass ID.
SUBCLASS_ID	NUMBER(10)	Yes	The unique subclass ID value.
ITEM	VARCHAR2(25)	Yes	Item.
DIFF_ID	VARCHAR2(10)	Yes	Differentiator ID.
CANCEL_DATETIME	TIMESTAMP(6)	No	The date and time that the offer cancellation takes effect.
SUPPLIER_SITE	NUMBER(10)	Yes	Supplier Site ID
BRAND_NAME	VARCHAR2(30)	Yes	Brand Name

PROM_OFR_CNCL_LOC_OUT

Table 2-66 PROM_OFR_CNCL_LOC_OUT

COLUMN	TYPE	NULLABLE	COMMENT
BDI_SEQ_ID	NUMBER	No	bdi internal column
BDI_APP_NAME	VARCHAR2(50)	No	bdi internal column
BDI_DATASET_TYPE	VARCHAR2(20)	Yes	bdi internal column
BDI_DATASET_ACTION	VARCHAR2(20)	Yes	bdi internal column

Table 2-66 (Cont.) PROM_OFR_CNCL_LOC_OUT

COLUMN	TYPE	NULLABLE	COMMENT
PROM_OFR_CNCL_LOC_ID	NUMBER(10)	No	The payload ID of the location cancellation from the offer.
PAYLOAD_ID	NUMBER(10)	No	The message payload ID.
PROMO_ID	NUMBER(10)	No	The promo ID.
OFFER_ID	NUMBER(10)	No	The offer ID.
LOCATION	NUMBER(10)	Yes	Location cancelled from the offer.
CANCEL_DATETIME	TIMESTAMP(6)	No	The date and time that the offer cancellation takes effect.

Purge Batch (PurgeBatch)

Here are the steps in the purge process:

- Delete price changes which are in worksheet, rejected, or submitted status with an effective date beyond the reject hold days.
- Remove price changes with effective dates beyond the price change history months retention setting. This is completed by dropping partitions which meet the date criteria.
- Delete clearances which are in worksheet, rejected, or submitted status with an effective date beyond the reject hold days.
- Remove clearances with effective dates beyond the clearance history months retention setting. This is completed by dropping partitions which meet the date criteria.
- Delete all but the most recent zone future retail entry with an effective date before vdate.
- Delete price change induction data for successful upload processes and those with an action date beyond the process retention days.
- Delete clearance induction data for successful upload processes and those with an action date beyond the process retention days.
- Truncate all the Bulk CC processing tables.
- Truncate all UI, item creation, and item/location ranging workspace tables.

System Options

System options used for purge configuration:

- RPM_PURGE_CONFIG_OPTIONS.PRICE_EVENTS_REJECT_HOLD_DAYS
- RPM_PURGE_CONFIG_OPTIONS.PRICE_CHANGE_HIST_MONTHS
- RPM_PURGE_CONFIG_OPTIONS.CLEARANCE_HIST_MONTHS
- SYSTEM_OPTIONS.PROC_DATA_RETENTION_DAYS

Usage

PurgeBatch.sh

Scheduling Constraints

Table 2-67 PurgeBatch Scheduling Constraints

Schedule Information	Description
Frequency	Nightly
Scheduling Considerations	not applicable
Pre-Processing	not applicable
Post-Processing	not applicable
Threading Scheme	not applicable

Restart/Recovery

N/A

Key Tables Affected

Table 2-68 PurgeBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_ZONE_FUTURE_RETAIL	Yes	No	No	Yes
RPM_ZONE_LOCATION	Yes	No	No	Yes
RPM_ITEM_ZONE_PRICE	Yes	No	No	Yes
RPM_PRICE_CHANGE	Yes	No	No	Yes
RPM_CLEARANCE	Yes	No	No	Yes
RPM_PRICE_CHANGE	Yes	No	No	Yes
RPM_PRICE_CHANGE_GROUP	Yes	No	No	Yes
RPM_CLEARANCE	Yes	No	No	Yes
RPM_CLEARANCE_GROUP	Yes	No	No	Yes
RPM_ZONE_FUTURE_RETAIL	Yes	No	No	Yes
SVC_PROCESS_TRACKER	Yes	No	No	Yes
S9T_FOLDER	Yes	No	No	Yes
S9T_ERRORS	Yes	No	No	Yes
RPM_SVC_PRICE_CHANGE	Yes	No	No	Yes
RPM_CORESVC_PRICE_CHANGE_ERR	Yes	No	No	Yes
SVC_PROCESS_TRACKER	Yes	No	No	Yes
S9T_FOLDER	Yes	No	No	Yes
S9T_ERRORS	Yes	No	No	Yes
RPM_SVC_CLEARANCE	Yes	No	No	Yes
RPM_CORESVC_CLEARANCE_ERR	Yes	No	No	Yes
RPM_BULK_CC_PE_ITEM	Yes	No	No	Yes
RPM_BULK_CC_PE_LOCATION	Yes	No	No	Yes

Table 2-68 (Cont.) PurgeBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_BULK_CC_PE_CHUNK	Yes	No	No	Yes
RPM_BULK_CC_PE_THREAD	Yes	No	No	Yes
RPM_BULK_CC_PE_SEQUENCE	Yes	No	No	Yes
RPM_BULK_CC_PE	Yes	No	No	Yes
RPM_PE_CC_LOCK	Yes	No	No	Yes
RPM_CONFLICT_CHECK_RESULT	Yes	No	No	Yes
RPM_PC_MAINT_LOC_WS	Yes	No	No	Yes
RPM_PC_MAINT_ITEM_WS	Yes	No	No	Yes
RPM_PC_MAINT_WS	Yes	No	No	Yes
RPM_PC_GROUP_SEARCH_WS	Yes	No	No	Yes
RPM_CLR_MAINT_LOC_WS	Yes	No	No	Yes
RPM_CLR_MAINT_ITEM_WS	Yes	No	No	Yes
RPM_CLR_MAINT_WS	Yes	No	No	Yes
RPM_CLR_GROUP_SEARCH_WS	Yes	No	No	Yes
RPM_OFFER_ZONE_LOC_WS	Yes	No	No	Yes
RPM_OFFER_CON_RWD_MERCH_WS	Yes	No	No	Yes
RPM_OFFER_REWARD_WS	Yes	No	No	Yes
RPM_OFFER_COND_WS	Yes	No	No	Yes
RPM_OFFER_WS	Yes	No	No	Yes
RPM_PROMO_WS	Yes	No	No	Yes
RPM_PROMO_OFFER_SEARCH_WS	Yes	No	No	Yes
RPM_PROMO_CANCEL_MERCH_WS	Yes	No	No	Yes
RPM_PROMO_CANCEL_ZONE_NODE_WS	Yes	No	No	Yes
RPM_PROMO_OFFER_PUB_WS	Yes	No	No	Yes
RPM_PE_CREATE_ITEM_WS	Yes	No	No	Yes
RPM_PE_CREATE_LOC_WS	Yes	No	No	Yes
RPM_PE_CREATE_WS	Yes	No	No	Yes
RPM_PE_CREATE_SUMMARY_WS	Yes	No	No	Yes
RPM_OI_PC_PEND_APPRV_EOW	Yes	No	No	Yes
RPM_OI_PC_PEND_APPRV_DAY	Yes	No	No	Yes
RPM_OI_CLR_PEND_APPRV_EOW	Yes	No	No	Yes
RPM_OI_CLR_PEND_APPRV_DAY	Yes	No	No	Yes
RPM_OI_UPCOMING_OFFER_WS	Yes	No	No	Yes
RPM_ROWID_TEMP	Yes	No	No	Yes
RPM_STAGE_ITEM_LOC_RETAIL_TEMP	Yes	No	No	Yes

PurgeGTTCaptureBatch (Purge GTT Capture Batch)

Table 2-69 PurgeGTTCaptureBatch Details

Module Name	PurgeGttCaptureBatch.sh
Description	Truncates data from the GTT capture related tables.
Functional Area	Various
Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	PurgeGttCaptureBatch.sh

Design Overview

This batch truncates data from the GTT capture related tables.

Scheduling Constraints

Table 2-70 PurgeGTTCaptureBatch Scheduling Constraints

Schedule Information	Description
Frequency	Ad hoc
Scheduling Considerations	Should be run during batch window.
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	N/A

Restart/Recovery

N/A

Key Tables Affected

Table 2-71 PurgeGTTCaptureBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_RFR_GTT_DATA_CAPTURE	Yes	No	No	No
RPM_RPILE_GTT_DATA_CAPTURE	Yes	No	No	No
RPM_CSPFR_GTT_DATA_CAPTURE	Yes	Yes	Yes	No
RPM_CLR_GTT_DATA_CAPTURE	Yes	No	No	No

Table 2-71 (Cont.) PurgeGTTCaptureBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_FRILE_GTT_DATA_CAPTURE	Yes	No	Yes	No

Design Assumptions

N/A

PurgeItemLocPayloadUnusedCCBatch

Table 2-72 PurgeItemLocPayloadUnusedCCBatch Details

Module Name	PurgeItemLocPayloadUnusedCCBatch.sh
Description	Deletes data from the system for items/item-locs deleted from RMS; deletes payload data as necessary; deletes conflict data for events no longer in the system.
Functional Area	Various
Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	PurgeItemLocPayloadUnusedCCBatch.sh

Design Overview

This batch cleans up data from the system for items/item-locs deleted from RMS; deletes payload data as necessary; deletes conflict data for events no longer in the system.

Scheduling Constraints

Table 2-73 PurgeItemLocPayloadUnusedCCBatch Scheduling Constraints

Schedule Information	Description
Frequency	Nightly
Scheduling Considerations	Should be run during batch window.
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	N/A

Restart/Recovery

N/A

Key Tables Affected

Table 2-74 PurgeltemLocPayloadUnusedCCBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_PRICE_CHANGE	No	No	No	Yes
RPM_CLEARANCE	No	No	No	Yes
RPM_PROMO_OFFER_COND_MERCH	No	No	No	Yes
RPM_PROMO_OFFER_REWARD_MERCH	No	No	No	Yes
RPM_ITEM_LOC	No	No	No	Yes
RPM_FUTURE_RETAIL	No	No	No	Yes
RPM_PRICE_EVENT_PAYLOAD	No	No	No	Yes
RPM_PRICE_CHG_PAYLOAD	No	No	No	Yes
RPM_CLEARANCE_PAYLOAD	No	No	No	Yes
RPM_CON_CHECK_ERR	No	No	No	Yes
RPM_CON_CHECK_ERR_DETAIL	No	No	No	Yes

Design Assumptions

N/A

RegularPriceChangePublishBatch (Regular Price Change Publish Batch)

Table 2-75 RegularPriceChangePublishBatch Details

Module Name	RegularPriceChangePublishBatch.sh
Description	Price Change events are exported for integration to other systems.
Functional Area	Price Changes
Module Type	Business Processing
Module Technology	Java
Catalog ID	
Runtime Parameters	RegularPriceChangePublishBatch.sh <outgoing-dir-path>

Design Overview

The RegularPriceChangePublishBatch program formats and stages output of regular price change price events.

The corresponding regularPriceChangePublishExport shell script produces a pipe ("|") delimited flat-file export based on the output of the RegularPriceChangePublishBatch.

The batch looks for price events in the RPM_PRICE_EVENT_PAYLOAD table with a RIB_FAMILY of "REGPRCCHG" and distributes those events to multiple threads based on the

settings in the RPM_BATCH_CONTROL table. Each thread reads in its set of regular price change events from tables RPM_PRICE_EVENT_PAYLOAD and RPM_PRICE_CHG_PAYLOAD and generates output in RPM_PRICE_PUBLISH_DATA.

A flat-file per location based on the data from payload table that need to be published/processed will be created. The naming convention for the flat file will be (REGPC_<timestamp>_<location>_<loc_type>.dat), where <timestamp> is the current system time stamp, <location> is the location ID and <loc_type> is the type of the location where 'S' is for Store and 'W' is for Warehouse.

Scheduling Constraints

Table 2-76 RegularPriceChangePublishBatch Scheduling Constraints

Schedule Information	Description
Frequency	Ad hoc, Recurring
Scheduling Considerations	N/A
Pre-Processing	N/A
Post-Processing	N/A
Threading Scheme	The RegularPriceChangePublishBatch program is threaded, using RPM_BATCH_CONTROL. The LUW is a single price change event.

Restart/Recovery

N/A

Key Tables Affected

Table 2-77 RegularPriceChangePublishBatch Key Tables Affected

Table	Select	Insert	Update	Delete
RPM_PRICE_EVENT_PAYLOAD	Yes	No	No	No
AD				
RPM_PRICE_CHG_PAYLOAD	Yes	No	No	No
D				

Output Files

FHEAD (required): File identification, one line per file.

FDETL (optional): Price Change Event (Create or Modify).

FDELE (optional): Price Change Event (Delete).

FTAIL (required): End of file marker, one line per file.

**Note:****File naming standards**

The naming convention for the flat file will be (REGPC_<timestamp>_<location>_<loc_type>.dat), where <timestamp> is the current system time stamp, <location> is the location ID and <loc_type> is the type of the location where 'S' is for Store and 'W' is for Warehouse. The zip file naming convention will be (REGPC_<timestamp>.zip).

Output File Layout

Table 2-78 Output File Layout

Record Name	Field Name	Field Type	Default Value	Description
FHEAD	Record Descriptor	Char(5)	FHEAD	File head marker
	Line ID	Number(10)	1	Unique line identifier
	File Type	Char(5)	REGPC	Regular Price Changes
	Export timestamp	Timestamp		System clock timestamp (YYYYMMDDHHMISS)
	Location	Number(10)		Location identifier
	Location Type	Char(1)		S = Store, W = Warehouse
FDETL	Record Descriptor	Char(5)	FDETL	File Detail Marker (1 per price change create or modify)
	Line ID	Number(10)		Unique line identifier
	Event Type	Char(3)		CRE = Create, MOD = Modify
	Id	Number(15)		Price Change identifier
	Item	Char(25)		Item identifier
	Effective Date	Date		Effective Date of price change (YYYYMMDDHH24MISS)
	Selling Unit Change Ind	Number(1)		Did selling unit retail change with this price event (0 = no change, 1 = changed)
	Selling Retail	Number(20,4)		Selling retail with price change applied
	Selling Retail UOM	Char(4)		Selling retail unit of measure
	Selling Retail Currency	Char(3)		Selling retail currency
	Multi-Unit Change Ind	Number(1)		Did multi-unit retail change with this price event (0 = no change, 1 = changed)
	Multi-Units	Number(12,4)		Number of multi-units
	Multi-Unit Retail	Number(20,4)		Multi-Unit Retails
	Multi-Unit UOM	Char(4)		Multi-Unit Retail Unit Of Measure
	Multi-Unit Currency	Char(3)		Multi-Unit Retail Currency

Table 2-78 (Cont.) Output File Layout

Record Name	Field Name	Field Type	Default Value	Description
FDELE	Record Descriptor	Char(5)	FDELE	File Detail Delete Marker (1 per price change delete)
	Line ID	Number(10)		Unique line identifier
	Id	Number(15)		Price Change identifier
	Item	Char(25)		Item identifier
FTAIL	Record Descriptor	Char(5)	FTAIL	File tail marker
	Line ID	Number(10)		Unique line identifier
	Number of lines	Number(10)		Number of lines in file not counting FHEAD and FTAIL

Design Assumptions

N/A

3

ReST Services

This chapter gives an overview about the Pricing ReSTful Web service implementation and the APIs used in Pricing. For more information on the ReST architectural style applied for building Web services, access the following URL:

<http://www.oracle.com/technetwork/articles/javase/index-137171.html>

To provide visibility to the background processing that's occurring, services write to the `JOB_AUDIT_LOGS` table in the database. Reports can be built based on this to provide visibility to what is happening in the background. Additionally, to assist users and developers in troubleshooting any error that may arise, the payload that was processed is also stored in the `JOB_AUDIT_PAYLOAD` table in the database.

Once the nightly batch run has started, web service execution will be halted, and users will receive a warning message that the nightly batch run has commenced.

Introduction

Pricing ReST support several web services, including the ability to query data and the ability to create and update data within the solutions. A few were built specifically to support mobile applications. These may not be useful for general use, however if you wanted to build your own mobile applications leveraging these services, this can be done. The ReSTful Web services Java code cannot be customized.

Common Characteristics

Services are secured using J2EE-based security model.

- **Realm-based User Authentication:** This verifies users through an underlying Realm. The username and password are passed using HTTP basic authentication.
- **Role-based Authorization:** This assigns users to roles; authenticated users can access the services with Pricing application roles or custom roles that are assigned to:
 - For Pricing: `PRICING_APPLICATION_ADMINISTRATOR_JOB`
- The communication between the server and client is encrypted using one-way SSL. In non-SSL environments the encoding defaults to BASE-64 so it is highly recommended that these ReST services are configured to be used in production environments secured with SSL connections.
- If you are using Merchandising data filtering, that will apply to the services as well. The user ID used for the calling the service should be added to the Merchandising `SEC_USER` table (`APP_USER_ID`), and then associated to the appropriate group in `SEC_USER_GROUP` table.

Standard Request and Response Headers

Pricing ReSTful web services have the following standard HTTP headers:

```
Accept: application/xml or application/JSON
Accept-Language: en-US
```

**Note:**

Accept-Language is not mandatory, and defaults to en-US. User can change it though, in case they need content in a specific language.

Depending on the type of the operation or HTTP method, the corresponding response header is updated in the HTTP response with the following codes:

- GET/READ : 200
- PUT/CREATE : 201 created
- POST/UPDATE : 204
- DELETE : 204

Standard Error Response

Example response payload in case of service error is depicted below:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<messagesRDOes>
  <messagesRDO>
    <message>REST Service Version Mismatch</message>
    <messageType>ERROR</messageType>
    <status>BAD_REQUEST</status>
  </messagesRDO>
</messagesRDOes>
```

- Message: The error message - translated.
- Message Type: Value of ERROR is returned.
- Status: For a bad request or error, the status is BAD_REQUEST.
- The http error code for an error response is 400.

Pricing URL Paths

Based on your implementation, you will need to prefix the end point with just the deployment hostname. The format that should be used for the hostname is `rex.retail.<Region Name>.ocs.oraclecloud.com/<Customer Subnamespace>/`, where `<Region Name>` is the region for your data center and `<Customer Subnamespace>` is specific to your company's name and environment (production, stage, and so on).

The following links provide access to the Pricing services:

- The ReSTful Web services swagger URL is available at:
`https://<hostname>/PricingServices/swagger-ui/`
- The ReSTful Web services openapi.yaml is available at:
`https://<hostname>/PricingServices/services/openapi.yaml`
- The ReSTful Web services WADL file is available at:
`https://<hostname>/PricingServices/services/application.wadl`
- The ReSTful Web services are available at:
`https://<hostname>/PricingServices/services/private/<service>`

OAuth for REST Service Authentication

OAuth 2.0 is the industry standard protocol for authorization. Pricing cloud services REST Services now supports OAuth 2.0. To invoke these services, you need to obtain and access token and use it as a bearer token.



Note:

Basic Authentication access is no longer supported for these services.

Steps to Enable

To obtain a token and call the services, use the following steps:

1. This step should be performed one time for a given environment. Generate the OAuth Client App with the environment-specific scope.

Each environment has a different scope that is available after the provisioning of the environment. Use this scope to generate the OAuth Client App using the Retail Home UI. For details, refer to the "Creating OAuth Client Apps" section of the *Retail Home Administration Guide*, which can be found under Common Cloud Services Solutions in the Oracle Retail Help Center. Once the OAuth Client App is generated, note the client ID and secret. This information will be required for an access token to call REST services.

2. Get an access token using the OAuth client ID and secret from IDCS with the following command:

```
export ACCESS_TOKEN="$(curl -u <Client ID>:<Secret> -H 'Content-Type: application/x-www-form-urlencoded; charset=UTF-8' --request POST https://<IDCS_BASE_URL>/oauth2/v1/token -d 'grant_type=client_credentials&scope=<Customer Environment Specific Scope>' | jq -r '.access_token')"
```

The token is generally valid for 1 hour.

3. REST clients that need to call Pricing REST service end points should use the client ID and secret of the OAuth client generated in the previous step to get an access token.

OAuth tokens can also be obtained by REST client tools like Postman for testing purposes by filling in the necessary details like client ID/secret and scope. Use the below information in such cases:

```
Authorization: OAuth 2.0
Access Token URL: https://<IDCS_BASE_URL>/oauth2/v1/token
Client ID: <Client id of OAuth client app>
Client Secret: <Client secret of OAuth client app>
Scope: <Custom environment specific scope>
```

The scope pattern that is used in the MFCS IDCS app creation template is `rgbu:merch:<SERVICETYPE>-<ENVIRONMENT>` where `SERVICETYPE` is MFCS and `ENVIRONMENT` is the environment type (STG, PRD, UAT, DEV1, DEV2, and so on).

For example:

```
"scope": "rgbu:merch:MFCS-PRD"
"scope": "rgbu:merch:MFCS-STG"
```

Example using the access token as a bearer token:

```
curl --location --request GET 'http://<hostname or IP address>:<port number>/  
RmsReSTServices/services/private/Common/vDate' \ --header 'Authorization:  
Bearer $ACCESS_TOKEN'
```

Price Inquiry

Business Overview

This service provides the ability to query the selling price of item/locations for a given date.

Service Type

POST

REST URL

/priceInquiry

Roles Allowed

PRICING_APPLICATION_ADMINISTRATOR_JOB, rgbu:merch:system

Request Headers

Accept: <application/json or application/xml>
Accept-Language: <locale>
Content-Type: <application/json or application/xml>

For Example:

Accept: application/json
Accept-Language: en-US
Content-Type: application/json

URL Query Parameters

N/A

Request Body

```
{  
  "itemLocations": [  
    {  
      "item": null,  
      "location": null  
    }, ... (Possible list, comma separated for multiple)  
  ],  
  "date": null,  
  "pageNumber": null,  
  "pageSize": null,  
  "sortOrder": null  
}
```

Entity	Key	Type	Value
price inquiry	itemLocations	entity list	Item locations for inquiry
price inquiry	date	varchar	Date in the format YYYY-MM-DD
price inquiry	pageNumber	numeric	Page number to return
price inquiry	pageSize	numeric	Total number of results per page
price inquiry	sortOrder	varchar	ASC (ascending) or DESC (descending)
item location	item	varchar	Item ID (parent, transaction, or reference)
item location	location	numeric	Location ID (store or virtual warehouse)

Response Body

```
[
  {
    "requestedItem": null,
    "transactionItem": null,
    "location": null,
    "date": null,
    "onClearance": null,
    "sellingPrice": null,
    "sellingUom": null,
    "currency": null
  }
]
```

Entity	Key	Type	Value
price	requestedItem	varchar	Item ID (parent, transaction, or reference)
price	transactionItem	varchar	Transaction Item ID
price	location	numeric	Location ID (store or virtual warehouse)
price	date	varchar	Date in the format YYYY-MM-DD
price	onClearance	varchar	Y (yes) or N (no)
price	sellingPrice	numeric	Decimal selling price
price	sellingUom	varchar	Selling unit of measure
price	currency	varchar	Location's currency

Initial Retail

Business Overview

This service provides the ability to query the initial retail of an item/location.

Service Type

GET

REST URL

/initialRetail?item=<item>&location=<location>

Roles Allowed

PRICING_APPLICATION_ADMINISTRATOR_JOB, rgbu:merch:system

Request Headers

Accept: <application/json or application/xml>
Accept-Language: <locale>
Content-Type: <application/json or application/xml>

For Example:

Accept: application/json
Accept-Language: en-US
Content-Type: application/json

URL Query Parameters

Key	Type	Value
item	varchar	Item ID (transaction or reference)
location	numeric	Location ID (store or virtual warehouse)

Request Body

N/A

Response Body

```
[
  {
    "item": null,
    "location": null,
    "currentDate": null,
    "onClearance": null,
    "sellingPrice": null,
    "sellingUom": null,
    "currency": null
  }
]
```

Entity	Key	Type	Value
price	item	varchar	Item ID (transaction or reference)
price	location	numeric	Location ID (store or virtual warehouse)
price	currentDate	varchar	Date in the format YYYY-MM-DD
price	onClearance	varchar	Y (yes) or N (no)
price	sellingPrice	numeric	Decimal selling price

Entity	Key	Type	Value
price	sellingUom	varchar	Selling unit of measure
price	currency	varchar	Location's currency

Price Change Induction

Business Overview

This service provides the ability to create, modify, and delete price changes via the induction process.

Service Type

POST

REST URL

/priceChange/induction

Roles Allowed

PRICING_APPLICATION_ADMINISTRATOR_JOB, rgbu:merch:system

Request Headers

Accept: <application/json or application/xml>
Accept-Language: <locale>
Content-Type: <application/json or application/xml>

For Example:

Accept: application/json
Accept-Language: en-US
Content-Type: application/json

URL Query Parameters

N/A

Request Body

```
[
  {
    "action": null,
    "newGroupBatch": null,
    "priceChangeGroup": null,
    "priceChangeGroupDesc": null,
    "priceChange": null,
    "item": null,
    "diff": null,
    "locationType": null,
```

```

    "location": null,
    "effectiveDate": null,
    "updatedEffectiveDate": null,
    "changeType": null,
    "changeValue": null,
    "sellingUom": null,
    "multiUnitImpact": null,
    "multiUnitRetail": null,
    "multiUnits": null,
    "multiUnitSellingUom": null,
    "roundingRule": null,
    "reason": null,
    "status": null,
    "ignoreConstraints": null,
    "primarySupplier": null,
    "purchaseType": null,
    "generatedBy": null
  }, ... (Possible list, comma separated for multiple)
]

```

Key	Type	Value
action	varchar	"NEW", "MOD", or "DEL"
newGroupBatch	numeric	Transient numeric identifier to group related clearances together in the same clearance group upon creation.
priceChangeGroup	numeric	Price change group display ID
priceChangeGroupDesc	varchar	Price change group description
priceChange	numeric	Price change display ID
item	varchar	Item identifier (parent or transaction)
diff	varchar	Differentiator ID
locationType	numeric	0: Store, 1: Zone, 2: Warehouse
location	numeric	Location ID (either store, warehouse, or zone)
effectiveDate	varchar	Effective date in the format YYYY-MM-DD
updatedEffectiveDate	varchar	Updated effective date in the format YYYY-MM-DD
changeType	numeric	0: Change by Percent, 1: Change by Amount, 2: Fixed Price, 3: Reset POS Price
changeValue	numeric	Decimal change value
sellingUom	varchar	Selling unit of measure for Fixed Price change type
multiUnitImpact	varchar	AU: Add or Update, R: Remove, N: No Change
multiUnitRetail	numeric	Decimal multi unit fixed price change value
multiUnits	numeric	Multi unit quantity
multiUnitSellingUom	varchar	Selling unit of measure for multi unit price change
roundingRule	varchar	Rounding rule ID (technically name column RPM_ROUNDING_RULE.NAME)
reason	varchar	Reason code ID (CODE_DETAIL.CODE)
status	numeric	1: Worksheet, 2: Submitted, 3: Rejected, 4: Approved, 5: Executed, 10: Processing
ignoreConstraints	varchar	"Y" or "N"
primarySupplier	numeric	Item/Location Primary Supplier Site
purchaseType	numeric	0: Owned, 1: Consignment, 2: Concession
generatedBy	varchar	"S": Supplier, "R": Retailer

Response Body

```
{
  "statusMsg": null,
  "failPcTable": [
    {
      "newGroupBatch": null,
      "priceChange": null,
      "item": null,
      "diff": null,
      "locationType": null,
      "location": null,
      "effectiveDate": null,
      "errorMsg": null,
      "errorCode": null
    }, ... (Possible list, comma separated for multiple)
  ]
}
```

Clearance Induction

Business Overview

This service provides the ability to create, modify, and delete clearance markdowns and clearance resets via the induction process.

Service Type

POST

REST URL

/clearance/induction

Roles Allowed

PRICING_APPLICATION_ADMINISTRATOR_JOB, rgbu:merch:system

Request Headers

Accept: <application/json or application/xml>
Accept-Language: <locale>
Content-Type: <application/json or application/xml>

For Example:

Accept: application/json
Accept-Language: en-US
Content-Type: application/json

URL Query Parameters

N/A

Request Body

```
[
  {
    "action": null,
    "newGroupBatch": null,
    "clearanceGroup": null,
    "clearanceGroupDesc": null,
    "clearance": null,
    "markdown": null,
    "item": null,
    "diff": null,
    "locationType": null,
    "location": null,
    "effectiveDate": null,
    "updatedEffectiveDate": null,
    "changeType": null,
    "changeValue": null,
    "roundingRule": null,
    "reason": null,
    "status": null,
    "primarySupplier": null,
    "purchaseType": null,
    "generatedBy": null
  }, ... (Possible list, comma separated for multiple)
]
```

Key	Type	Value
action	varchar	"NEW", "MOD", or "DEL"
newGroupBatch	numeric	Transient numeric identifier to group related clearances together in the same clearance group upon creation.
clearanceGroup	numeric	Clearance group display ID
clearanceGroupDesc	varchar	Clearance group description
clearance	numeric	Clearance display ID
markdown	varchar	Markdown code ID (CODE_DETAIL.CODE)
item	varchar	Item identifier (parent or transaction)
diff	varchar	Differentiator ID
locationType	numeric	0: Store, 1: Zone, 2: Warehouse
location	numeric	Location ID (either store, warehouse, or zone)
effectiveDate	varchar	Effective date in the format YYYY-MM-DD
updatedEffectiveDate	varchar	Updated effective date in the format YYYY-MM-DD
changeType	numeric	0: Change by Percent, 1: Change by Amount, 2: Fixed Price, 3: Reset POS Price
changeValue	numeric	Decimal change value
roundingRule	varchar	Rounding rule ID (technically name column RPM_ROUNDING_RULE.NAME)
reason	varchar	Reason code ID (CODE_DETAIL.CODE)
status	numeric	1: Worksheet, 2: Submitted, 3: Rejected, 4: Approved, 5: Executed, 10: Processing
primarySupplier	numeric	Item/Location Primary Supplier Site
purchaseType	numeric	0: Owned, 1: Consignment, 2: Concession

Key	Type	Value
generatedBy	varchar	"S": Supplier, "R": Retailer

Response Body

```
{
  "statusMsg": null,
  "failClrTable": [
    {
      "newGroupBatch": null,
      "clearance": null,
      "item": null,
      "diff": null,
      "locationType": null,
      "location": null,
      "effectiveDate": null,
      "errorMsg": null,
      "errorCode": null
    }, ... (Possible list, comma separated for multiple)
  ]
}
```

Promotion Induction

Business Overview

This service provides the ability to create, modify, and delete promotions through the induction process.

Service Type

POST

REST URL

/promotion/induction

Roles Allowed

PRICING_APPLICATION_ADMINISTRATOR_JOB, rgbu:merch:system

Request Headers

Accept: <application/json or application/xml>
Accept-Language: <locale>
Content-Type: <application/json or application/xml>

For Example:

Accept: application/json
Accept-Language: en-US
Content-Type: application/json

URL Query Parameters

N/A

Request Body

```
[
  {
    "action": null,
    "newPromotionBatch": null,
    "promotionDescription": null,
    "campaign": null,
    "generatedBy": null,
    "offers": [
      {
        "action": null,
        "newOfferBatch": null,
        "offerDescription": null,
        "template": null,
        "startDate": null,
        "startTime": null,
        "endDate": null,
        "endTime": null,
        "couponCode": null,
        "couponCodeRequired": null,
        "distributionRule": null,
        "exclusiveDiscount": null,
        "currency": null,
        "comments": null,
        "customerDescription": null,
        "status": null,
        "primarySupplier": null,
        "purchaseType": null,
        "offerConditions": [
          {
            "action": null,
            "buyXAndYConditionNumber": null,
            "buySpendValue": null,
            "buyQuantityUom": null,
            "priceRestrictionOperator": null,
            "priceRestrictionValue1": null,
            "priceRestrictionValue2": null,
            "items": [
              {
                "action": null,
                "itemLevel": null,
                "department": null,
                "clazz": null,
                "subclass": null,
                "supplierSite": null,
                "brand": null,
                "item": null,
                "diff": null,
                "excluded": null
              }
            ]
          }
        ]
      },
      {
        "offerReward": {
          "action": null,
```

```

        "discountType": null,
        "discountValue": null,
        "applyTo": null,
        "applyDiscountNumberOfTimes": null,
        "priceRestrictionOperator": null,
        "priceRestrictionValue1": null,
        "priceRestrictionValue2": null,
        "items": [
            {
                "action": null,
                "itemLevel": null,
                "department": null,
                "clazz": null,
                "subclass": null,
                "supplierSite": null,
                "brand": null,
                "item": null,
                "diff": null,
                "excluded": null
            }
        ]
    },
    "offerLocations": [
        {
            "action": null,
            "locationType": null,
            "location": null,
            "excluded": null
        }
    ],
    "customAttributes": [
        {
            "action": null,
            "name": null,
            "value": null
        }
    ]
}
], ... (Possible list, comma separated for multiple)
]

```

Entity	Key	Type	Value
promotion	action	varchar	"NEW", "MOD" or "DEL"
promotion	newPromotionBatch	numeric	Transient numeric identifier to group related offers together in the same promotion upon creation.
promotion	promotionDescription	varchar	Promotion description
promotion	campaign	varchar	Promotion campaign name
promotion	generatedBy	varchar	"S": Supplier, "R": Retailer
promotion	offers	entity list	Offers for promotion
offer	action	varchar	"NEW", "MOD" or "DEL"
offer	newOfferBatch	numeric	Transient numeric identifier to group related offer details together upon creation.
offer	offerDescription	varchar	Offer description

Entity	Key	Type	Value
offer	template	numeric	Offer template code (SELECT CODE FROM CODE_DETAIL WHERE CODE_TYPE IN ('TSOT', 'ISOT', 'TBOT', 'IBOT', 'IGOT'))
offer	startDate	varchar	Start date in the format YYYY-MM-DD
offer	startTime	varchar	Start time in the format hh:mm a
offer	endDate	varchar	End date in the format YYYY-MM-DD
offer	endTime	varchar	End time in the format hh:mm a
offer	couponCode	varchar	Coupon code
offer	couponCodeRequired	numeric	0: No, 1: Yes
offer	distributionRule	varchar	Offer distribution code (SELECT CODE FROM CODE_DETAIL WHERE CODE_TYPE = 'OFDR')
offer	exclusiveDiscount	numeric	0: No, 1: Yes
offer	currency	varchar	Offer currency code
offer	comments	varchar	Comments
offer	customerDescription	varchar	Customer description
offer	status	numeric	1: Worksheet, 2: Submitted, 3: Rejected, 4: Approved, 6: Active, 9: Cancelled (SELECT CODE FROM CODE_DETAIL WHERE CODE_TYPE = 'PRST')
offer	primarySupplier	numeric	Item/Location Primary Supplier Site
offer	purchaseType	numeric	0: Owned, 1: Consignment, 2: Concession
offer	offerConditions	entity list	Conditions for offer
offer	offerReward	entity	Reward for offer
offer	offerLocations	entity list	Locations for offer
offer condition	action	varchar	"NEW", "MOD" or "DEL"
offer condition	buyXAndYConditionNumber	numeric	Positive number when template is "Buy X and Y Get Discount" or "Buy X and Y Get Z for Discount"
offer condition	buySpendValue	numeric	Decimal buy/spend value
offer condition	buyQuantityUom	varchar	Buy quantity unit of measure
offer condition	priceRestrictionOperator	varchar	Price restriction operator code (SELECT CODE FROM CODE_DETAIL WHERE CODE_TYPE = 'OPRO')
offer condition	priceRestrictionValue1	numeric	Decimal price restriction value
offer condition	priceRestrictionValue2	numeric	Decimal price restriction value (for second between value)
offer condition	items	entity list	Items for offer condition
offer condition merchandise	action	varchar	"NEW", "MOD" or "DEL"
offer condition merchandise	itemLevel	numeric	Merchandise level (SELECT CODE FROM CODE_DETAIL WHERE CODE_TYPE = 'OFII')
offer condition merchandise	department	numeric	Merchandise department

Entity	Key	Type	Value
offer condition merchandise	clazz	numeric	Merchandise class
offer condition merchandise	subclass	numeric	Merchandise subclass
offer condition merchandise	supplierSite	numeric	Merchandise supplier site
offer condition merchandise	brand	varchar	Merchandise brand
offer condition merchandise	item	varchar	Item ID (parent or transaction)
offer condition merchandise	diff	varchar	Differentiator ID
offer condition merchandise	excluded	numeric	0: No, 1: Yes
offer reward	action	varchar	"NEW", "MOD" or "DEL"
offer reward	discountType	numeric	0: Percent Off, 1: Amount Off, 2: Fixed Price (SELECT CODE FROM CODE_DETAIL WHERE CODE_TYPE = 'OFCT')
offer reward	discountValue	numeric	Decimal discount value
offer reward	applyTo	numeric	0: Regular, 1: Clearance, 2: Regular and Clearance (SELECT CODE FROM CODE_DETAIL WHERE CODE_TYPE = 'PRAT')
offer reward	applyDiscountNumberOfTimes	numeric	Number of times the discount can be applied to individual item
offer reward	priceRestrictionOperator	varchar	Price restriction operator code (SELECT CODE FROM CODE_DETAIL WHERE CODE_TYPE = 'OPRO')
offer reward	priceRestrictionValue1	numeric	Decimal price restriction value
offer reward	priceRestrictionValue2	numeric	Decimal price restriction value (for second between value)
offer reward	items	entity list	Items for offer reward
offer reward merchandise	action	varchar	"NEW", "MOD" or "DEL"
offer reward merchandise	itemLevel	numeric	Merchandise level (SELECT CODE FROM CODE_DETAIL WHERE CODE_TYPE = 'OFII')
offer reward merchandise	department	numeric	Merchandise department
offer reward merchandise	clazz	numeric	Merchandise class
offer reward merchandise	subclass	numeric	Merchandise subclass
offer reward merchandise	supplierSite	numeric	Merchandise supplier site
offer reward merchandise	brand	varchar	Merchandise brand

Entity	Key	Type	Value
offer reward merchandise	item	varchar	Item ID (parent or transaction)
offer reward merchandise	diff	varchar	Differentiator ID
offer reward merchandise	excluded	numeric	0: No, 1: Yes
offer location	action	varchar	"NEW", "MOD" or "DEL"
offer location	locationType	numeric	0: Store, 1: Zone (SELECT CODE FROM CODE_DETAIL WHERE CODE_TYPE = 'OFLI')
offer location	location	numeric	Location ID (store or zone display ID)
offer location	excluded	numeric	0: No, 1: Yes
customAttributes	action	varchar	"NEW", "MOD" or "DEL"
customAttributes	name	varchar	Custom Flex Attribute Name
customAttributes	value	varchar	Custom Flex Attribute Value If the custom flex attribute value is of date, the format required is yyyy-MM-dd

Response Body

```
{
  "statusMsg": null,
  "successes": [
    {
      "newPromotionBatch": null,
      "promotion": null,
      "offers": [
        {
          "newOfferBatch": null,
          "offer": null,
        }
      ]
    }
  ],
  "errors": [
    {
      "newPromotionBatch": null,
      "offers": [
        {
          "newOfferBatch": null,
          "conditions": [
            {
              "buyXAndYConditionNumber": null,
              "items": [
                {
                  "itemLevel": null,
                  "department": null,
                  "clazz": null,
                  "subclass": null,
                  "supplierSite": null,

```

```
        "brand": null,
        "item": null,
        "diff": null,
        "excluded": null,
        "errors": [
            {
                "type": null,
                "field": null,
                "message": null,
                "code": null
            }
        ]
    },
    ],
    "errors": [
        {
            "type": null,
            "field": null,
            "message": null,
            "code": null
        }
    ]
}
],
"reward": {
    "items": [
        {
            "itemLevel": null,
            "department": null,
            "clazz": null,
            "subclass": null,
            "supplierSite": null,
            "brand": null,
            "item": null,
            "diff": null,
            "excluded": null,
            "errors": [
                {
                    "type": null,
                    "field": null,
                    "message": null,
                    "code": null
                }
            ]
        }
    ]
},
"errors": [
    {
        "type": null,
        "field": null,
        "message": null,
        "code": null
    }
]
},
"locations": [
    {
        "locationType": null,
        "location": null,
        "excluded": null,
        "errors": [
            {
```

```

        "type": null,
        "field": null,
        "message": null,
        "code": null
      }
    ]
  },
  "errors": [
    {
      "type": null,
      "field": null,
      "message": null,
      "code": null
    }
  ]
}
],
"errors": [
  {
    "type": null,
    "field": null,
    "message": null,
    "code": null
  }
]
}
]
}
}

```

Entity	Key	Type	Value
status	statusMsg	varchar	Status of the promotions create request
status	successes	entity list	Promotion successes
status	errors	entity list	Promotion errors
promotion success	newPromotionBatch	numeric	Transient numeric identifier to map back to the request promotion entity
promotion success	promotion	numeric	Created promotion display ID
promotion success	offers	entity list	Offer successes for promotion
offer success	newOfferBatch	numeric	Transient numeric identifier to map back to the request offer entity
offer success	offer	numeric	Created offer display ID
promotion error	newPromotionBatch	numeric	Transient numeric identifier to map back to the request promotion entity
promotion error	offers	entity list	Offer errors for promotion
promotion error	errors	entity list	Error details for promotion
offer error	newOfferBatch	numeric	Transient numeric identifier to map back to the request offer entity
offer error	conditions	entity list	Condition errors for offer
offer error	reward	entity	Reward error for offer
offer error	locations	entity list	Location errors for offer

Entity	Key	Type	Value
offer error	errors	entity list	Error details for offer
offer condition error	buyXAndYConditionNumber	numeric	Numeric identifier to map back to the request condition entity
offer condition error	items	entity list	Item errors for offer condition
offer condition error	errors	entity list	Error details for offer condition
offer condition merchandise error	itemLevel	numeric	Merchandise level to map back to the request condition merchandise entity
offer condition merchandise error	department	numeric	Merchandise department to map back to the request condition merchandise entity
offer condition merchandise error	clazz	numeric	Merchandise class to map back to the request condition merchandise entity
offer condition merchandise error	subclass	numeric	Merchandise subclass to map back to the request condition merchandise entity
offer condition merchandise error	supplierSite	numeric	Merchandise supplier site to map back to the request condition merchandise entity
offer condition merchandise error	brand	varchar	Merchandise brand to map back to the request condition merchandise entity
offer condition merchandise error	item	varchar	Item ID (parent or transaction) to map back to the request condition merchandise entity
offer condition merchandise error	diff	varchar	Differentiator ID to map back to the request condition merchandise entity
offer condition merchandise error	excluded	numeric	Excluded value to map back to the request condition merchandise entity
offer condition merchandise error	errors	entity list	Error details for offer condition merchandise
offer reward error	items	entity list	Item errors for offer reward
offer reward error	errors	entity list	Error details for offer reward
offer reward error	itemLevel	numeric	Merchandise level to map back to the request reward merchandise entity
offer reward error	department	numeric	Merchandise department to map back to the request reward merchandise entity
offer reward error	clazz	numeric	Merchandise class to map back to the request reward merchandise entity
offer reward error	subclass	numeric	Merchandise subclass to map back to the request reward merchandise entity

Entity	Key	Type	Value
offer reward error	supplierSite	numeric	Merchandise supplier site to map back to the request reward merchandise entity
offer reward error	brand	varchar	Merchandise brand to map back to the request reward merchandise entity
offer reward error	item	varchar	Item ID (parent or transaction) to map back to the request reward merchandise entity
offer reward error	diff	varchar	Differentiator ID to map back to the request reward merchandise entity
offer reward error	excluded	numeric	Excluded value to map back to the request reward merchandise entity
offer reward error	errors	entity list	Error details for offer reward merchandise
offer location error	locationType	numeric	Location type value to map back to the request location entity
offer location error	location	numeric	Location ID to map back to the request location entity
offer location error	excluded	numeric	Excluded value to map back to the request location entity
offer location error	errors	entity list	Error details for offer location
error	type	varchar	E: Error, W: Warning
error	field	varchar	Entity attribute, field, or column in error
error	message	varchar	Error message

Item Price - v1

This end point is marked for deprecation from v24.1.301.0 and is scheduled for removal in 2 years.

Use `PricingServices/services/private/omnichannel/v2/item/price/[regular|clearance]` instead of this end point.

Business Overview

This service provides the ability to get retail information for a given time period. Used to get initial retail, Regular Price Changes and Clearances. Targeted for OMS/Xstore usage. This endpoint includes business functionality around clearances being reset by regular price changes.

Service Type

GET

REST URL

`omnichannel/v1/item/price`

Roles Allowed

PRICING_APPLICATION_ADMINISTRATOR_JOB, rgbu:merch:system

Request Headers

Accept: <application/json or application/xml>
Accept-Language: <locale>

For Example:

Accept: application/json
Accept-Language: en-US

URL Query Parameters

Parameter	Value	Description	Optional	Data Type
since	ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Timestamp
before	ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Timestamp
nodelevel	COMPANY CHAIN AREA REGION DISTRICT STORE WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeid to identify the node.	Yes	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Integer
pricetype	INITIAL REGULAR CLEARANCE	Request data for a single Price Type.	No	String
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit of 1000 is used.	Yes	Integer

Parameter	Value	Description	Optional	Data Type
offsetkey	generated	Provides the offset information for the next page. This will never be provided on the initial request and will be part of the next link for subsequent requests. It is machine generated and should never be altered.	Yes	String

Request Body

N/A

Response Body

```
{
  "hasMore": null,
  "limit": null,
  "count": null,
  "links": [
    {
      "href": null,
      "rel": null
    },
    {
      "href": null,
      "rel": null
    }
  ],
  "items": [
    {
      "action": null,
      "loctype": null,
      "location": null,
      "item": null,
      "price": null,
      "pricetype": null,
      "effective": null,
      "source": null,
      "eventid": null,
      "resetind": null,
      "clearanceind": null
    }
  ]
}
```

Entity	Key	Value	Description	Data Type
item/loc page	items	entity list	List of item/location prices. Sorted by: loctype (Ascending), location (Ascending), item (Ascending)	List
item	action	NO_CHANGE DELETE UPSERT INSERT UPDATE	Recommended action based on how data has changed since a point in time.	String

Entity	Key	Value	Description	Data Type
item	loctype	S (Store) W (Warehouse)	Location type.	String
item	location	0 .. n	Location identifier for item price.	Integer
item	item	RMS Item Identifier	Item identifier.	String
item	pricetype	INITIAL REGULAR CLEARANCE	Price Type of item/location price.	String
item	price	Localized decimal number	Item/location price.	BigDecimal
item	effective	ISO-8601 Date and Time	Date and time when change becomes effective.	Timestamp
item	source		If direct, the price was initiated directly. Implied means the price change was implied by another price change.	String
item	eventid	0 .. n	Pricing Service event id for the price activity.	Integer
item	resetind	0 (No) 1 (Yes)	Flag to indicate to reset the item to previous price.	Integer
item	clearanceind	0 (No) 1 (Yes)	Flag to indicate the item is on clearance	Integer
item/loc page	hasMore	TRUE FALSE	Boolean flag to indicate if more data is available.	Boolean
item/loc page	limit	0 .. n	Maximum number of records to return in a single request.	Integer
item/loc page	count	0 .. n	Count of records returned in the response. This will be less than or equal to the limit value.	Integer
item/loc page	links	entity list	List of related links.	List
link	rel	self next describedBy	self: The calling URL. next: Only present if the hasMore flag is trueLink to the next page of data. Applications should the value of the href element to access the next page of data. This url contains a server generated offsetkey parameter to identify the start of the next page. describedBy: Link to the metadata catalog.	String
link	href	URL	The related URL.	String

Item Price - v2

Business Overview

This service provides the ability to get retail information for a given time period. Used to get Regular Price Changes. Targeted for non-Oracle Retail applications. This endpoint does not include business functionality around clearances being reset by regular price changes.

Service Type

GET

REST URL

omnichannel/v2/item/price/regular

Roles Allowed

PRICING_APPLICATION_ADMINISTRATOR_JOB, rgbu:merch:system

Request Headers

Accept: <application/json or application/xml>
Accept-Language: <locale>

For example:

Accept: application/json
Accept-Language: en-US

URL Query Parameters

Parameter	Value	Description	Optional	Data Type
since	ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Timestamp
before	ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Timestamp
nodelevel	COMPANY CHAIN AREA REGION DISTRICT STORE	Request data for a single node in the Organization Hierarchy. Must be used with nodeid to identify the node.	Yes	String

Parameter	Value	Description	Optional	Data Type
	WAREHOUSE			
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit of 1000 is used.	Yes	Integer
offsetkey	generated	Provides the offset information for the next page. This will never be provided on the initial request and will be part of the next link for subsequent requests. It is machine generated and should never be altered.	Yes	String

Request Body

N/A

Response Body

```
{
  "hasMore": null,
  "limit": null,
  "count": null,
  "links": [
    {
      "href": null,
      "rel": null
    },
    {
      "href": null,
      "rel": null
    }
  ],
  "items": [
    {
      "msgType": null,
      "item": null,
      "location": null,
      "loctype": null,
      "price": null,
      "pricetype": null,
      "effective": null,
      "eventid": null,
      "resetind": null,
      "retailchangeind": null,
      "unitofmeasure": null,
      "currency": null,
      "multiunitimpact": null,
      "multiunits": null,
      "multiunitretail": null,
      "multiunitcurrency": null,
      "multiunitsellinguom": null,
      "source": null,
      "clearanceind": null,
    }
  ]
}
```

```

        "action": null
    }
}
}

```

Entity	Key	Value	Description	Data Type
item/loc page	items	entity list	List of item/location prices. Sorted by: loctype (Ascending), location (Ascending), item (Ascending)	List
item	action	NO_CHANGE DELETE UPSERT INSERT UPDATE	Recommended action based on how data has changed since a point in time.	String
item	msgType	REGPRCCHGCR E REGPRCCHGMO D REGPRCCHGDEL	Price Event payload type	String
item	loctype	S (Store) W (Warehouse)	Location type.	String
item	location	0 .. n	Location identifier for item price.	Integer
item	item	RMS Item Identifier	Item identifier.	String
item	pricetype	REGULAR	Price Type of item/location price.	String
item	price	Localized decimal number	Item/location price.	BigDecimal
item	effective	ISO-8601 Date and Time	Date and time when change becomes effective.	Timestamp
item	eventid	0 .. n	Pricing Service event id for the price activity.	Integer
item	resetind	0 (No) 1 (Yes)	Flag to indicate to reset the item to previous price.	Integer
item	retailchangeind	0 (No) 1 (Yes)	Flag to indicate the retail change indicator	Integer
item	unitofmeasure		Unit of Measure	String
item	currency		Currency	String
item	multiunitimpact		Multi UOM impacts	String
item	multiunits		Multi Units indicator	String
item	multiunitretail		Multi Units Retail	String
item	multiunitcurrency		Multi Units Currency	String
item	multiunitsellinguom		Multi Units Selling UOM	String
item	source		If direct, the price was initiated directly. Implied means the price change was implied by another price change.	String

Entity	Key	Value	Description	Data Type
item	clearanceind	0 (No) 1 (Yes)	Flag to indicate the item is on clearance	Integer
item/loc page	hasMore	TRUE FALSE	Boolean flag to indicate if more data is available.	Boolean
item/loc page	limit	0 .. n	Maximum number of records to return in a single request.	Integer
item/loc page	count	0 .. n	Count of records returned in the response. This will be less than or equal to the limit value.	Integer
item/loc page	links	entity list	List of related links.	List
link	rel	self next describedBy	self: The calling URL. next: Only present if the hasMore flag is trueLink to the next page of data. Applications should the value of the href element to access the next page of data. This url contains a server generated offsetkey parameter to identify the start of the next page. describedBy: Link to the metadata catalog.	String
link	href	URL	The related URL.	String

Initial Price - v2

This end point is marked for deprecation from v24.1.301.0 and scheduled for removal in 2 years.

Use `MerchIntegrations/services/foundation/omnichannel/item/initialprice`

Business Overview

This service provides the ability to get retail information for an item at the time of creation. Used to get initial retail. Targeted for non-Oracle Retail applications.

Service Type

GET

REST URL

`omnichannel/v2/item/price/initial`

Roles Allowed

`PRICING_APPLICATION_ADMINISTRATOR_JOB`, `rgbu:merch:system`

Request Headers

Accept: <application/json or application/xml>
Accept-Language: <locale>

For Example:

Accept: application/json
Accept-Language: en-US

URL Query Parameters

Parameter	Value	Description	Optional	Data Type
since	ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Timestamp
before	ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Timestamp
nodelevel	COMPANY CHAIN AREA REGION DISTRICT STORE WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeid to identify the node.	Yes	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit of 1000 is used.	Yes	Integer
offsetkey	generated	Provides the offset information for the next page. This will never be provided on the initial request and will be part of the next link for subsequent requests. It is machine generated and should never be altered.	Yes	String

Request Body

N/A

Response Body

```
{
  "hasMore": null,
  "limit": null,
  "count": null,
  "links": [
    {
      "href": null,
      "rel": "describedBy"
    },
    {
      "href": null,
      "rel": "self"
    },
    {
      "href": null,
      "rel": "next"
    }
  ],
  "items": [
    {
      "action": null,
      "loctype": null,
      "location": null,
      "item": null,
      "price": null,
      "pricetype": null,
      "effective": null,
      "source": null,
      "eventid": null,
      "resetind": null,
      "clearanceind": 0
    }
  ]
}
```

Entity	Key	Value	Description	Data Type
item/loc page	items	entity list	List of item/location prices. Sorted by: loctype (Ascending), location (Ascending), item (Ascending)	List
item	action	NO_CHANGE DELETE UPSERT INSERT UPDATE	Recommended action based on how data has changed since a point in time.	String
item	loctype	S (Store) W (Warehouse)	Location type.	String
item	location	0 .. n	Location identifier for item price.	Integer
item	item	RMS Item Identifier	Item identifier.	String
item	pricetype	INITIAL	Price Type of item/location price.	String
item	price	Localized decimal number	Item/location price.	BigDecimal

Entity	Key	Value	Description	Data Type
item	effective	ISO-8601 Date and Time	Date and time when change becomes effective.	Timestamp
item	source		If direct, the price was initiated directly. Implied means the price change was implied by another price change.	String
item	eventid	0 .. n	Pricing Service event id for the price activity.	Integer
item	resetind	0 (No) 1 (Yes)	Flag to indicate to reset the item to previous price.	Integer
item	clearanceind	0 (No) 1 (Yes)	Flag to indicate the item is on clearance	Integer
item/loc page	hasMore	TRUE FALSE	Boolean flag to indicate if more data is available.	Boolean
item/loc page	limit	0 .. n	Maximum number of records to return in a single request.	Integer
item/loc page	count	0 .. n	Count of records returned in the response. This will be less than or equal to the limit value.	Integer
item/loc page	links	entity list	List of related links.	List
link	rel	self next describedBy	self: The calling URL. next: Only present if the hasMore flag is trueLink to the next page of data. Applications should the value of the href element to access the next page of data. This url contains a server generated offsetkey parameter to identify the start of the next page. describedBy: Link to the metadata catalog.	String
link	href	URL	The related URL.	String

Clearance Price - v2

Business Overview

This service provides the ability to get clearance for a given time period. Targeted for non-Oracle Retail applications. This endpoint does not include business functionality around clearances being reset by regular price changes.

Service Type

GET

REST URL

omnichannel/v2/item/price/clearance

Roles Allowed

PRICING_APPLICATION_ADMINISTRATOR_JOB, rgbu:merch:system

Request Headers

Accept: <application/json or application/xml>
Accept-Language: <locale>

For example:

Accept: application/json
Accept-Language: en-US

URL Query Parameters

Parameter	Value	Description	Optional	Data Type
since	ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Timestamp
before	ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Timestamp
nodelevel	COMPANY CHAIN AREA REGION DISTRICT STORE WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeid to identify the node.	Yes	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit of 1000 is used.	Yes	Integer

Parameter	Value	Description	Optional	Data Type
offsetkey	generated	Provides the offset information for the next page. This will never be provided on the initial request and will be part of the next link for subsequent requests. It is machine generated and should never be altered.	Yes	String

Request Body

N/A

Response Body

```
{
  "hasMore": null,
  "limit": null,
  "count": null,
  "links": [
    {
      "href": null,
      "rel": "describedBy"
    },
    {
      "href": null,
      "rel": "self"
    }
  ],
  "items": [
    {
      "msgType": null,
      "item": null,
      "location": null,
      "loctype": null,
      "price": null,
      "pricetype": null,
      "effective": null,
      "eventid": null,
      "resetind": null,
      "action": null
    }
  ]
}
```

Entity	Key	Value	Description	Data Type
item/loc page	items	entity list	List of item/location prices. Sorted by: loctype (Ascending), location (Ascending), item (Ascending)	List
item	action	NO_CHANGE DELETE UPSERT INSERT UPDATE	Recommended action based on how data has changed since a point in time.	String

Entity	Key	Value	Description	Data Type
item	msgType	CLRPRCCHGCRE CLRPRCCHGMOD CLRPRCCHGDEL	Price Event payload type	String
item	loctype	S (Store) W (Warehouse)	Location type.	String
item	location	0 .. n	Location identifier for item price.	Integer
item	item	RMS Item Identifier	Item identifier.	String
item	pricetype	CLEARANCE	Price Type of item/location price.	String
item	price	Localized decimal number	Item/location price.	BigDecimal
item	effective	ISO-8601 Date and Time	Date and time when change becomes effective.	Timestamp
item	eventid	0 .. n	Pricing Service event id for the price activity.	Integer
item	resetind	0 (No) 1 (Yes)	Flag to indicate to reset the item to previous price.	Integer
item/loc page	hasMore	TRUE FALSE	Boolean flag to indicate if more data is available.	Boolean
item/loc page	limit	0 .. n	Maximum number of records to return in a single request.	Integer
item/loc page	count	0 .. n	Count of records returned in the response. This will be less than or equal to the limit value.	Integer
item/loc page	links	entity list	List of related links.	List
link	rel	self next describedBy	self: The calling URL. next: Only present if the hasMore flag is trueLink to the next page of data. Applications should the value of the href element to access the next page of data. This url contains a server generated offsetkey parameter to identify the start of the next page. describedBy: Link to the metadata catalog.	String
link	href	URL	The related URL.	String

Item Promotion - v1

This end point is marked for deprecation from v24.1.301.0 and scheduled for removal in 2 years.

Use PricingServices/services/private/omnichannel/v2/item/promotion instead of this end point.

Business Overview

This service provides the ability to get promotion information for a given time period. Targeted for OMS/Xstore usage.

Service Type

GET

REST URL

omnichannel/v1/item/promotion

Roles Allowed

PRICING_APPLICATION_ADMINISTRATOR_JOB, rgbu:merch:system

Request Headers

Accept: <application/json or application/xml>
Accept-Language: <locale>

For Example:

Accept: application/json
Accept-Language: en-US

URL Query Parameters

Parameter	Value	Description	Optional	Data Type
since	ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Timestamp
before	ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Timestamp
nodelevel	COMPANY CHAIN AREA REGION DISTRICT STORE	Request data for a single node in the Organization Hierarchy. Must be used with nodeid to identify the node.	Yes	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Integer

Parameter	Value	Description	Optional	Data Type
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit of 1000 is used.	Yes	Integer
offsetkey	generated	Provides the offset information for the next page. This will never be provided on the initial request and will be part of the next link for subsequent requests. It is machine generated and should never be altered.	Yes	String

Request Body

N/A

Response Body

```
{
  "hasMore": null,
  "limit": null,
  "count": null,
  "links": [
    {
      "href": null,
      "rel": "describedBy"
    },
    {
      "href": null,
      "rel": "self"
    }
  ],
  "items": [
    {
      "promoid": null,
      "offerid": null,
      "desc": null,
      "custdesc": null,
      "levelcode": null,
      "typecode": null,
      "templateid": null,
      "couponcode": null,
      "couponcodereq": null,
      "startdatetime": null,
      "enddatetime": null,
      "canceldatetime": null,
      "rewards": [
        {
          "rewardid": null,
          "changetype": null,
          "changeamount": null,
          "changepercent": null,
          "qtytodisc": null,
          "qtytodiscuom": null,
          "applyind": null,
          "pricerestrictcode": null,
          "pricerestrictvalue1": null,

```

```

        "pricerestrictvalue2": null,
        "rewardsmerch": [
            {
                "rewardmerchid": null,
                "merchlevel": null,
                "dept": null,
                "uniqueclass": null,
                "subclass": null,
                "uniquesubclass": null,
                "item": null,
                "diffid": null,
                "excludeind": null,
                "canceledatetime": null,
                "class": null
            }
        ]
    },
    "conditions": [
        {
            "conditionid": null,
            "buyspendtype": null,
            "buyspendvalue": null,
            "buyuom": null,
            "pricerestrictcode": null,
            "pricerestrictvalue1": null,
            "pricerestrictvalue2": null,
            "conditionsmerch": [
                {
                    "condmerchid": null,
                    "merchlevel": null,
                    "dept": null,
                    "uniqueclass": null,
                    "subclass": null,
                    "uniquesubclass": null,
                    "item": null,
                    "diffid": null,
                    "excludeind": null,
                    "canceledatetime": null,
                    "class": null
                }
            ]
        }
    ],
    "locations": [
        {
            "location": null,
            "canceledatetime": null,
            "action": null
        }
    ]
}

```

Entity	Key	Value	Description	Data Type
item/loc page	items	entity list	List of promotions. Sorted by: promoid (Ascending), offerid (Ascending)	List
promotion offer (item)	promoid	0 .. n	Promotion identifier.	Integer

Entity	Key	Value	Description	Data Type
promotion offer (item)	offerid	0 .. n	Offer Identifier.	Integer
promotion offer (item)	desc	text description	Description of the offer.	String
promotion offer (item)	custdesc	text description	Customer facing description.	String
promotion offer (item)	levelcode	0 (Item) 1 (Transaction)	The level of the offer.	Integer
promotion offer (item)	typecode	0 (Item Simple) 1 (Transaction Simple) 2 (Transaction Buy Get) 3 (Item Buy Get) 4 (Item Gift With Purchase)	The type of the offer.	Integer
promotion offer (item)	templateid	0 (Get Discount) 1 (Buy X, Get Discount) 2 (Spend X, Get Discount) 3 (Get Y for Discount) 4 (Buy)	The template of the offer.	Integer
promotion offer (item)	couponcode	RMS coupon code identifier	Coupon code required by the offer.	String
promotion offer (item)	couponcodereq	0 (No) 1 (Yes)	Flag to indicate that a coupon is required.	Integer
promotion offer (item)	startdatetime	ISO-8601 Date and Time	Starting date time for the offer.	Timestamp
promotion offer (item)	enddatetime	ISO-8601 Date and Time	Ending date time for the offer.	Timestamp
promotion offer (item)	canceldatetime	ISO-8601 Date and Time	Cancellation date time for the offer.	Timestamp
promotion offer (item)	conditions	entity list	Conditions associated with the offer.	List
offer condition	conditionid	0 .. n	Condition ID.	Integer
offer condition	buyspendtype	0 (Quantity) 1 (Amount)	The buy spend type of the condition.	Integer
offer condition	buyspendvalue	Localized decimal number	The buy spend value of the condition.	BigDecimal
offer condition	buyuom	RMS UOM Identifier	The buy UOM of the condition.	String
offer condition	pricerestrictcode	B (Between) G (Greater Than)	Operator for price restriction.	String

Entity	Key	Value	Description	Data Type
		L (Less Than)		
offer condition	pricerestrictvalue1	Localized decimal number	The first value of the price restriction.	BigDecimal
offer condition	pricerestrictvalue2	Localized decimal number	The second value of the price restriction. The second value is only used for between restrictions.	BigDecimal
offer condition	conditionsmerch	entity list	Collection of merchandise for condition.	List
offer condition merchandise	condmerchid	0 .. n	The unique id for the offer condition merch record.	Integer
offer condition merchandise	merchlevel	1 (Department) 2 (Class) 3 (Subclass) 4 (Parent Item) 5 (Parent/Diff Item) 6 (Transaction Item) 8 (All Departments)	The merchandise level.	Integer
offer condition merchandise	dept	0 .. n	Department ID.	Integer
offer condition merchandise	class	0 .. n	The non-unique class ID value.	Integer
offer condition merchandise	uniqueclass	0 .. n	The unique class ID value.	Integer
offer condition merchandise	subclass	0 .. n	The non-unique subclass ID value.	Integer
offer condition merchandise	uniquesubclasses	0 .. n	The unique subclass ID value.	Integer
offer condition merchandise	item	RMS Item Identifier	Item ID.	String
offer condition merchandise	diffid	RMS Differentiator Identifier	Differentiator ID.	String
offer condition	excludeind	0 (No)	The exclude indicator.	Integer

Entity	Key	Value	Description	Data Type
merchandise		0 (Yes)		
offer condition merchandise	canceldatetime	ISO-8601 Date and Time	Date and time when condition merchandise was cancelled.	Timestamp
promotion offer (item)	rewards	entity list	Rewards associated with the offer.	List
offer reward	rewardid	0 .. n	Reward ID.	Integer
offer reward	changetype	0 (change by percent) 1 (change by amount) 2 (fixed price)	Type of change for the reward.	Integer
offer reward	changeamount	Localized decimal number	The change by amount or fixed price amount.	BigDecimal
offer reward	changepercent	Localized decimal number	Percentage value when change type is change by percent.	BigDecimal
offer reward	qtytodisc	Localized decimal number	The qty to discount.	BigDecimal
offer reward	qtytodiscuom	RMS UOM Identifier	UOM of the discount quantity.	String
offer reward	applyind	0 (Regular only) 1 (Clearance only) 2 (Regular and Clearance)	The apply to indicator of the reward.	Integer
offer reward	pricerestrictcode	B (Between) G (Greater Than) L (Less Than)	Operator for price restriction.	String
offer reward	pricerestrictvalue1	Localized decimal number	The first value of the price restriction.	BigDecimal
offer reward	pricerestrictvalue2	Localized decimal number	The second value of the price restriction. The second value is only used for between restrictions.	BigDecimal
offer reward	rewardsmerch	entity list	Collection of merchandise eligible for reward.	List
offer reward merchandise	rewardmerchid	0 .. n	The unique id for the offer reward merch record.	Integer
offer reward merchandise	merchlevel	1 (Department) 2 (Class) 3 (Subclass) 4 (Parent Item) 5 (Parent/Diff Item) 6 (Transaction Item) 8 (All Departments)	The merchandise level.	Integer

Entity	Key	Value	Description	Data Type
offer reward merchandise	dept	0 .. n	Department ID.	Integer
offer reward merchandise	class	0 .. n	The non-unique class ID value.	Integer
offer reward merchandise	uniqueclass	0 .. n	The unique class ID value.	Integer
offer reward merchandise	subclass	0 .. n	The non-unique subclass ID value.	Integer
offer reward merchandise	uniquesubclasses	0 .. n	The unique subclass ID value.	Integer
offer reward merchandise	item	RMS Item Identifier	Item ID.	String
offer reward merchandise	diffid	RMS Differentiator Identifier	Differentiator ID.	String
offer reward merchandise	excludeind	0 (No) 0 (Yes)	The exclude indicator.	Integer
offer reward merchandise	canceldatetime	ISO-8601 Date and Time	Date and time when merchandise reward was cancelled.	Timestamp
promotion offer (item)	locations	entity list	Locations associated with the offer.	List
location	action	NO_CHANGE DELETE UPSERT INSERT UPDATE	Recommended action based on how data has changed since a point in time.	String
location	location	0 .. n	Location for promotion.	Integer
location	canceldatetime	ISO-8601 Date and Time	Date time promotion was cancelled for this location.	Timestamp
item/loc page	hasMore	TRUE FALSE	Boolean flag to indicate if more data is available.	Boolean
item/loc page	limit	0 .. n	Maximum number of records to return in a single request.	Integer
item/loc page	count	0 .. n	Count of records returned in the response. This will be less than or equal to the limit value.	Integer
item/loc page	links	entity list	List of related links.	List
link	rel	self	self: The calling URL.	String

Entity	Key	Value	Description	Data Type
link	href	next	next: Only present if the hasMore flag is trueLink to the next page of data. Applications should the value of the href element to access the next page of data. This url contains a server generated offsetkey parameter to identify the start of the next page.	String
		describedBy	describedBy: Link to the metadata catalog.	
		URL	The related URL.	

Item Promotion - v2

Business Overview

This service provides the ability to get promotion information for a given time period. Targeted for OMS/Xstore usage.

Service Type

GET

REST URL

omnichannel/v2/item/promotion

Roles Allowed

PRICING_APPLICATION_ADMINISTRATOR_JOB, rgbu:merch:system

Request Headers

Accept: <application/json or application/xml>
Accept-Language: <locale>

For Example:

Accept: application/json
Accept-Language: en-US

URL Query Parameters

Parameter	Value	Description	Optional	Data Type
since	ISO-8601 Date and Time	Request data changed since a specific point in time. Use is optional, if not used then changes since 00:00:00 (UTC) on January 1, 1970 will be returned.	Yes	Timestamp

Parameter	Value	Description	Optional	Data Type
before	ISO-8601 Date and Time	Request data changed before a specific point in time. This parameter provides a mechanism where by callers can exclude data-changes occurring at the present time to avoid getting partial changes due to in-flight changes.	Yes	Timestamp
nodelevel	COMPANY CHAIN AREA REGION DISTRICT STORE WAREHOUSE	Request data for a single node in the Organization Hierarchy. Must be used with nodeid to identify the node.	Yes	String
nodeid	0 .. n	Request data for a single node in the Organization Hierarchy. Must be used with node level to identify the node.	Yes	Integer
limit	0 .. n	Limit response size to a fixed number of data items to control paging of result data. Use is optional. If not used then a default limit of 1000 is used.	Yes	Integer
offsetkey	generated	Provides the offset information for the next page. This will never be provided on the initial request and will be part of the next link for subsequent requests. It is machine generated and should never be altered.	Yes	String

Request Body

N/A

Response Body

```
{
  "hasMore": null,
  "limit": null,
  "count": null,
  "links": [
    {
      "href": null,
      "rel": "describedBy"
    },
    {
      "href": null,
      "rel": "self"
    }
  ],
  "items": [
    {
      "promoid": null,
      "offerid": null,
      "desc": null,

```



```
"custdesc": null,
"levelcode": null,
"typecode": null,
"templateid": null,
"couponcode": null,
"couponcodereq": null,
"startdatetime": null,
"enddatetime": null,
"canceldatetime": null,
"comments": null,
"distributionrulecode": null,
"exclusivediscountind": null,
"primarysupplier": null,
"purchasetype": null,
"generatedby": null,
"rewards": [
  {
    "rewardid": null,
    "changetype": null,
    "changeamount": null,
    "changepercent": null,
    "qtytodisc": null,
    "applyind": null,
    "pricerestrictcode": null,
    "pricerestrictvalue1": null,
    "pricerestrictvalue2": null,
    "rewardsmerch": [
      {
        "rewardmerchid": null,
        "merchlevel": null,
        "dept": null,
        "uniqueclass": null,
        "subclass": null,
        "uniquesubclass": null,
        "item": null,
        "diffid": null,
        "excludeind": null,
        "canceldatetime": null,
        "suppliersite": null,
        "brandname": null,
        "class": null
      }
    ]
  }
],
"conditions": [
  {
    "conditionid": null,
    "buyspendtype": null,
    "buyspendvalue": null,
    "buyuom": null,
    "pricerestrictcode": null,
    "pricerestrictvalue1": null,
    "pricerestrictvalue2": null,
    "conditionsmerch": [
      {
        "condmerchid": null,
        "merchlevel": null,
        "dept": null,
        "uniqueclass": null,
        "subclass": null,
        "uniquesubclass": null,
```

```

        "item": null,
        "diffid": null,
        "excludeind": null,
        "canceldatetime": null,
        "suppliersite": null,
        "brandname": null,
        "class": null
    }
}
]
},
"locations": [
{
    "location": null,
    "canceldatetime": null,
    "action": null
}
]
}
]
}

```

Entity	Key	Value	Description	Data Type
item/loc page	items	entity list	List of promotions. Sorted by: promoid (Ascending), offerid (Ascending)	List
promotion offer (item)	promoid	0 .. n	Promotion identifier.	Integer
promotion offer (item)	offerid	0 .. n	Offer Identifier.	Integer
promotion offer (item)	desc	text description	Description of the offer.	String
promotion offer (item)	custdesc	text description	Customer facing description.	String
promotion offer (item)	levelcode	0 (Item) 1 (Transaction)	The level of the offer.	Integer
promotion offer (item)	typecode	0 (Item Simple) 1 (Transaction Simple) 2 (Transaction Buy Get) 3 (Item Buy Get) 4 (Item Gift With Purchase)	The type of the offer.	Integer
promotion offer (item)	templateid	0 (Get Discount) 1 (Buy X, Get Discount) 2 (Spend X, Get Discount) 3 (Get Y for Discount) 4 (Buy)	The template of the offer.	Integer
promotion offer (item)	couponcode	RMS coupon code identifier	Coupon code required by the offer.	String

Entity	Key	Value	Description	Data Type
promotion offer (item)	couponcode required	0 (No) 1 (Yes)	Flag to indicate that a coupon is required.	Integer
promotion offer (item)	startdate	ISO-8601 Date and Time	Starting date time for the offer.	Timestamp
promotion offer (item)	enddate	ISO-8601 Date and Time	Ending date time for the offer.	Timestamp
promotion offer (item)	canceldatetime	ISO-8601 Date and Time	Cancellation date time for the offer.	Timestamp
promotion offer (item)	comments	text description	Comments for the offer	String
promotion offer (item)	distributionrule code	text description	Distribution rule code of the offer	String
promotion offer (item)	exclusivediscount	0 (No)1 (Yes)	Flag to indicate that the offer is exclusively discounted	Integer
promotion offer (item)	primarysupplier	RMS Supplier Site	Item/Location Primary Supplier Site of the offer	Integer
promotion offer (item)	purchasetype	0 (Owned) 1 (Consignment) 2 (Concession)	Purchase Type of the offer	Integer
promotion offer (item)	generatedby	S (Supplier) R (Retailer)	User type generating the offer	String
promotion offer (item)	conditions	entity list	Conditions associated with the offer.	List
offer condition	conditionid	0 .. n	Condition ID.	Integer
offer condition	buyspendtype	0 (Quantity) 1 (Amount)	The buy spend type of the condition.	Integer
offer condition	buyspendvalue	Localized decimal number	The buy spend value of the condition.	BigDecimal
offer condition	buyuom	RMS UOM Identifier	The buy UOM of the condition.	String
offer condition	pricerestrictcode	B (Between) G (Greater Than) L (Less Than)	Operator for price restriction.	String
offer condition	pricerestrictvalue1	Localized decimal number	The first value of the price restriction.	BigDecimal
offer condition	pricerestrictvalue2	Localized decimal number	The second value of the price restriction. The second value is only used for between restrictions.	BigDecimal
offer condition	conditionsmerch	entity list	Collection of merchandise for condition.	List
offer condition merchandise	condmerchid	0 .. n	The unique id for the offer condition merch record.	Integer
offer condition	merchlevel	1 (Department)	The merchandise level.	Integer

Entity	Key	Value	Description	Data Type
merchandise		2 (Class) 3 (Subclass) 4 (Parent Item) 5 (Parent/Diff Item) 6 (Transaction Item) 8 (All Departments)		
offer condition merchandise	dept	0 .. n	Department ID.	Integer
offer condition merchandise	class	0 .. n	The non-unique class ID value.	Integer
offer condition merchandise	uniqueclass	0 .. n	The unique class ID value.	Integer
offer condition merchandise	subclass	0 .. n	The non-unique subclass ID value.	Integer
offer condition merchandise	uniquesubclasses	0 .. n	The unique subclass ID value.	Integer
offer condition merchandise	item	RMS Item Identifier	Item ID.	String
offer condition merchandise	diffid	RMS Differentiator Identifier	Differentiator ID.	String
offer condition merchandise	excludeind	0 (No) 1 (Yes)	The exclude indicator.	Integer
offer condition merchandise	canceldatetime	ISO-8601 Date and Time	Date and time when condition merchandise was cancelled.	Timestamp
promotion offer (item)	rewards	entity list	Rewards associated with the offer.	List
offer reward	rewardid	0 .. n	Reward ID.	Integer
offer reward	changetype	0 (change by percent) 1 (change by amount) 2 (fixed price)	Type of change for the reward.	Integer

Entity	Key	Value	Description	Data Type
offer reward	changeamount	Localized decimal number	The change by amount or fixed price amount.	BigDecimal
offer reward	changepercent	Localized decimal number	Percentage value when change type is change by percent.	BigDecimal
offer reward	qtytodisc	Localized decimal number	The qty to discount.	BigDecimal
offer reward	qtytodiscuom	RMS UOM Identifier	UOM of the discount quantity.	String
offer reward	applyind	0 (Regular only) 1 (Clearance only) 2 (Regular and Clearance)	The apply to indicator of the reward.	Integer
offer reward	pricerestrictcode	B (Between) G (Greater Than) L (Less Than)	Operator for price restriction.	String
offer reward	pricerestrictvalue1	Localized decimal number	The first value of the price restriction.	BigDecimal
offer reward	pricerestrictvalue2	Localized decimal number	The second value of the price restriction. The second value is only used for between restrictions.	BigDecimal
offer reward	rewardsmerch	entity list	Collection of merchandise eligible for reward.	List
offer reward merchandise	rewardmerchid	0 .. n	The unique id for the offer reward merch record.	Integer
offer reward merchandise	merchlevel	1 (Department) 2 (Class) 3 (Subclass) 4 (Parent Item) 5 (Parent/Diff Item) 6 (Transaction Item) 8 (All Departments)	The merchandise level.	Integer
offer reward merchandise	dept	0 .. n	Department ID.	Integer
offer reward merchandise	class	0 .. n	The non-unique class ID value.	Integer
offer reward merchandise	uniqueclass	0 .. n	The unique class ID value.	Integer
offer reward merchandise	subclass	0 .. n	The non-unique subclass ID value.	Integer
offer reward merchandise	uniquesubclasses	0 .. n	The unique subclass ID value.	Integer

Entity	Key	Value	Description	Data Type
offer reward merchandise	item	RMS Item Identifier	Item ID.	String
offer reward merchandise	diffid	RMS Differentiator Identifier	Differentiator ID.	String
offer reward merchandise	excludeind	0 (No) 1 (Yes)	The exclude indicator.	Integer
offer reward merchandise	canceldatetime	ISO-8601 Date and Time	Date and time when merchandise reward was cancelled.	Timestamp
offer reward merchandise	suppliersite	text description	Supplier site associated with the item	String
offer reward merchandise	brandname	text description	Brand name associated with the item	String
promotion offer (item)	locations	entity list	Locations associated with the offer.	List
location	action	NO_CHANGE DELETE UPSERT INSERT UPDATE	Recommended action based on how data has changed since a point in time.	String
location	location	0 .. n	Location for promotion.	Integer
location	canceldatetime	ISO-8601 Date and Time	Date time promotion was cancelled for this location.	Timestamp
item/loc page	hasMore	TRUE FALSE	Boolean flag to indicate if more data is available.	Boolean
item/loc page	limit	0 .. n	Maximum number of records to return in a single request.	Integer
item/loc page	count	0 .. n	Count of records returned in the response. This will be less than or equal to the limit value.	Integer
item/loc page	links	entity list	List of related links.	List
link	rel	self next describedBy	self: The calling URL. next: Only present if the hasMore flag is trueLink to the next page of data. Applications should the value of the href element to access the next page of data. This url contains a server generated offsetkey parameter to identify the start of the next page. describedBy: Link to the metadata catalog.	String
link	href	URL	The related URL.	String

4

Backend System Administration and Configuration

This chapter of the operations guide is intended for administrators who provide support and monitor the running system.

Supported Environments

See the *Oracle Retail Price Management Installation Guide* for information about requirements for the following:

- RDBMS operating system
- RDBMS version
- Middle tier server operating system
- Middle tier
- Compiler

Exception Handling

The two primary types of exceptions within the Pricing system are the following:

- System exceptions
For example, server connection and/or database issues are system exceptions. System exceptions can bring the system to a halt. For example, the connection to the server is lost.
- Business exceptions
This exception indicates that a business rule has been violated. Most exceptions that arise in the system are business exceptions. For example, a user tries to approve a price change that causes a negative retail.

Logging Configuration

Logging within Pricing utilizes the ADF built-in logging framework to log system messages and exceptions. This framework is embedded in the application code to allow for configurable logging to suit the needs of the retailer.

Please note that batch client programs log the messages, errors to a log file configured in `batch_logging.properties`. Server logging is done using standard WebLogic logging infrastructure.

ADF Logging

This is a wrapper class of java logger class. It adds ADF convenience methods. All other java logger methods as well are available for user. The following are the different logging levels possible.

- SEVERE (highest value)
- WARNING
- INFO
- CONFIG
- FINE
- FINER
- FINEST (lowest value)

**Note:**

In a production environment, the logging setting should be set to Severe or Warning, so that system performance is not adversely impacted.

Batch Client Logging

The pricing batch client java programs write error messages, warnings to a log file configured in `batch_logging.properties`. The logging mechanism is based on `FileHandler` java API.

By default, the log file is configured to be created in the logs folder under user home directory (%h) with the name `batch_log` appended with a random number (%u). See below `batch_logging.properties` file more details.

Batch_logging Properties

The `batch_logging.properties` file holds all of the information relevant to logging for batch clients.

Table 4-1

Parameter	Description
Handlers	A comma-delimited list of handler class names that are added to the root Logger. The default handlers are <code>java.util.logging.FileHandler</code> and <code>java.util.logging.ConsoleHandler</code> (with a default level of INFO).
.level	Sets the log level for all <code>FileHandler</code> instances. The default log level is INFO.
<code>java.util.logging.FileHandler.pattern</code>	The log file name pattern. The default is <code>%h/../logs/batch_log%u.log</code> which means that the file is named <code>batch_log%u.log</code> where: %h the value of the "user.home" system property %u is a unique number to resolve conflicts between simultaneous Java processes
<code>java.util.logging.FileHandler.limit</code>	The maximum size of the file, in bytes. If this is 0, there is no limit. The default is 1000000 (which is 1 MB). Logs larger than 1MB roll over to the next log file.

Table 4-1 (Cont.)

Parameter	Description
java.util.logging.FileHandler.count	The number of log files to use in the log file rotation. The default is 365 (which produces a maximum of 365 log files).
java.util.logging.FileHandler.level	Sets the log level for all FileHandler instances. The default log level is FINEST.
java.util.logging.ConsoleHandler.level	Sets the default log level for all ConsoleHandler instances. The default log level is FINEST..
java.util.logging.FileHandler.append	Specifies whether the FileHandler should append onto any existing files (defaults to true)

Configurable GTTCapture

The conflict checking engine within Pricing utilizes Global Temporary Tables (GTT) extensively which allow for a performance gain, but means that transactional data is lost when the process completes. When attempting to troubleshoot issues within the conflict checking engine around GTT data, this leads to difficulty researching and recreating issues.

A configuration within Pricing allows for capturing this GTT data while processing through the conflict checking engine in an autonomous fashion so that the data is available for review after the process has completed. Data can be captured from the following set of tables:

- RPM_FUTURE_RETAIL_GTT
- RPM_PROMO_ITEM_LOC_EXPL_GTT
- RPM_CUST_SEGMENT_PROMO_FR_GTT
- RPM_CLEARANCE_GTT
- RPM_FR_ITEM_LOC_EXPL_GTT

The system is designed to capture data from any of these GTTs based on configuration. Data can be captured from one or more of these tables during conflict checking and can be captured at a configurable start point and optionally beyond the starting point. There are five options for starting points when capturing GTT data:

- GTT Initial Population
- Merge Price Event into Timelines
- Roll Forward
- Payload Population
- Future Retail Purge

The system will also allow for specifying if GTT data should be captured for a specific user in the system or for any user. When specifying a user id to capture data for, the user id needs to match with the user defined within LDAP and should have matching case between LDAP and the GTT capture configuration.

All configuration is handled via the RPM_CONFIG_GTT_CAPTURE table by direct table updates. It is possible to set up all the necessary configurations (starting point, specific user, capture data beyond start point and what tables to capture data from) and disable the capturing of this data all together by setting the ENABLE_GTT_CAPTURE field to 'N'. Once the GTT capture configurations are established and enabled on the

RPM_CONFIG_GTT_CAPTURE table, nothing more needs to be done other than to process a price event through conflict checking.

When the system does capture data from the GTT tables, it will always capture all data on the specified tables at the "starting point" and then only capture updated or newly created data for each statement beyond that point when data is being captured beyond the starting point. In such a scenario, the evolution of a record will be easily available for viewing and troubleshooting efforts with the impact of every statement being identified easily.

A batch process (PurgeGttCaptureBatch.sh) will purge all data captured from the GTT tables to allow for only pertinent data to be in place at any given time. This purge process does not have to run prior to capturing GTT data in conflict checking, however it is expected that capturing this data will produce a large volume of data in many scenario. By purging this data before running the conflict checking process again for new data to be captured, it will be easier to examine the data.